

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Master
3293795

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: I54564439 thru I54564474

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

North Carolina COA: C-0844



October 5,2022

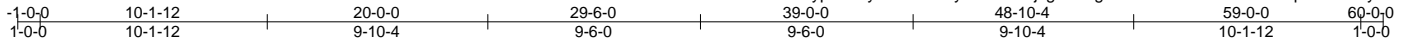
Gilbert, Eric

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.

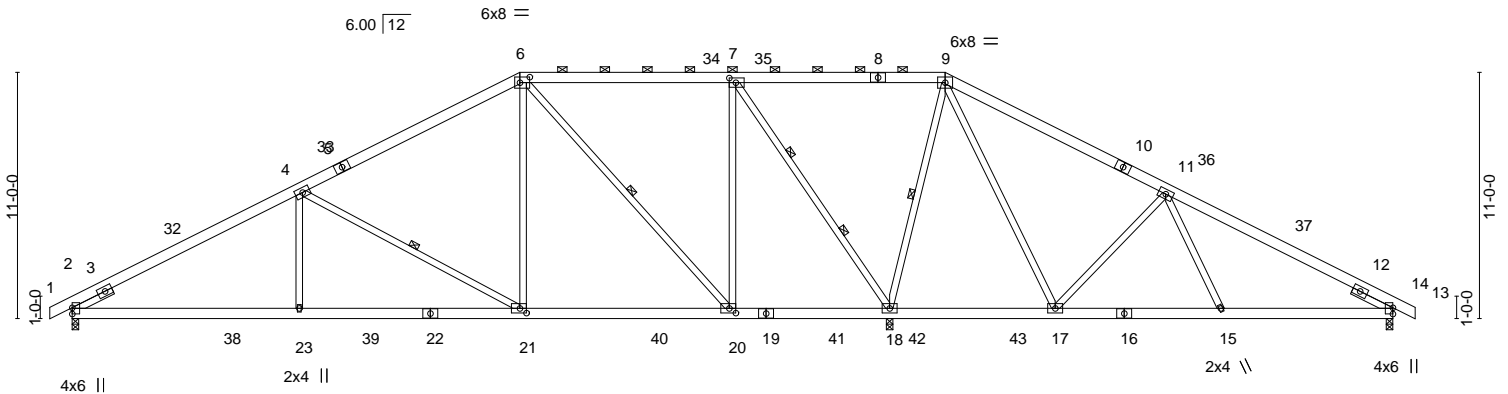
Job	Truss	Truss Type	Qty	Ply	3293795	154564439
MASTER	A07	HIP	4	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:10 2022 Page 1

ID:zbnklr1dFypInNUy02maTGgyYVBm-?ejvgbBeag3s91QcwrFPFrmH4zMxq?4eERlZyWV4p



Scale = 1:102.9



10-1-12	20-0-0	29-6-0	36-6-4	43-11-0	51-3-12	59-0-0
10-1-12	9-10-4	9-6-0	7-0-4	7-4-12	7-4-12	7-8-4

Plate Offsets (X,Y)-- [6:0-5-4,0-3-0], [7:0-3-8,0-2-8], [20:0-3-8,0-2-8], [21:0-3-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(LL) -0.12 20-21 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 1.00	Vert(CT) -0.20 20-21 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 18 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 23 >999 240		
				Weight: 442 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-13 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 6-9.
WEBS 2x4 SP No.3 *Except* 6-20,7-18: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18,15-17.
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	WEBS 1 Row at midpt 4-21, 6-20, 9-18 2 Rows at 1/3 pts 7-18

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 13=0-3-8
 Max Horz 2=-140(LC 13)
 Max Uplift 2=-117(LC 12), 13=-121(LC 13)
 Max Grav 2=1364(LC 25), 18=2983(LC 2), 13=714(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2113/204, 4-6=-1267/212, 6-7=-402/220, 7-9=0/707, 9-11=-211/349, 11-13=-803/202
 BOT CHORD 2-23=-209/1808, 21-23=-209/1808, 20-21=-45/1037, 18-20=-48/403, 17-18=-427/117, 15-17=-98/544, 13-15=-67/635
 WEBS 4-23=0/388, 4-21=-909/187, 6-21=0/788, 6-20=-977/82, 7-20=0/1022, 7-18=-1864/115, 9-18=-1255/136, 9-17=-71/746, 11-17=-744/217, 11-15=0/357

- 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 4-10-13, Interior(1) 4-10-13 to 20-0-0, Exterior(2) 20-0-0 to 28-4-2, Interior(1) 28-4-2 to 39-0-0, Exterior(2) 39-0-0 to 47-4-2, Interior(1) 47-4-2 to 60-0-0 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x8 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=117, 13=121.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 5, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job	Truss	Truss Type	Qty	Ply	3293795	154564440
MASTER	A07G	GABLE	1	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:14 2022 Page 1

ID:zklr1dFyplnNUy02maTGGyYVbm-uQyPWyE8evZleekN8hKLQhw4zassWrOgZsPz0KyWV4I

-1-0-0	20-0-0	39-0-0	59-0-0	60-0-0
1-0-0	20-0-0	19-0-0	20-0-0	1-0-0

Scale = 1:102.9

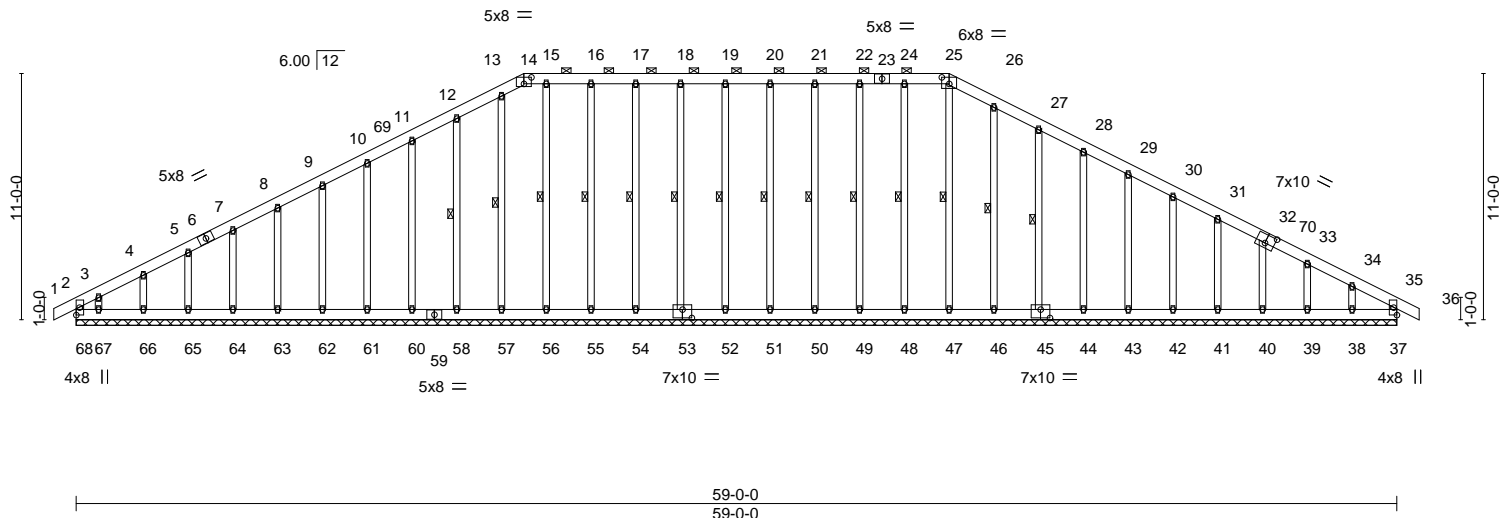


Plate Offsets (X, Y)--	[14:0-4-0,0-3-8], [25:0-4-0,0-3-8], [32:0-5-0,0-4-8], [45:0-5-0,0-4-8], [53:0-5-0,0-4-8]
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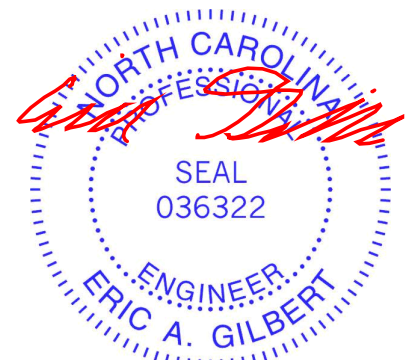
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.00	35	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	36	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.01	37	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 588 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	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.): 14-25.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 25-47, 24-48, 22-49, 21-50, 20-51, 19-52, 18-53, 17-54, 16-55, 15-56, 13-57, 12-58, 26-46, 27-45
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 59-0-0.
 (lb) - Max Horz 68=125(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 68, 48, 49, 50, 51, 52, 53, 54, 55, 58, 60, 61, 62, 63, 64, 65, 66, 46, 45, 44, 43, 42, 41, 40, 39, 38 except 67=139(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 68, 37, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 60, 61, 62, 63, 64, 65, 66, 67, 46, 45, 44, 43, 42, 41, 40, 39, 38

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 11-12=-86/253, 12-13=-100/294, 13-14=-101/290, 14-15=-92/290, 15-16=-92/290, 16-17=-92/290, 17-18=-92/290, 18-19=-92/290, 19-20=-92/290, 20-21=-92/290, 21-22=-92/290, 22-24=-92/290, 24-25=-92/289, 25-26=-104/298, 26-27=-92/266

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 5-0-0, Exterior(2) 5-0-0 to 20-0-0, Corner(3) 20-0-0 to 25-10-13, Exterior(2) 25-10-13 to 39-0-0, Corner(3) 39-0-0 to 45-0-0, Exterior(2) 45-0-0 to 60-0-0 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 68, 48, 49, 50, 51, 52, 53, 54, 55, 58, 60, 61, 62, 63, 64, 65, 66, 46, 45, 44, 43, 42, 41, 40, 39, 38 except (jt=lb) 67=139.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



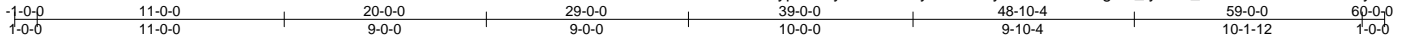
October 5, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	3293795	154564441
MASTER	A07H	HIP	5	1		

Builders FirstSource, Apex, NC 27523

ID:zbkIrl1dFypInNUy02maTGgYyVBm-KyOQXweTDLYgVC_fyLXG_0Ux7?Z71dabPLNi4CyWUUR
8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:53:06 2022 Page 1



Scale = 1:102.6

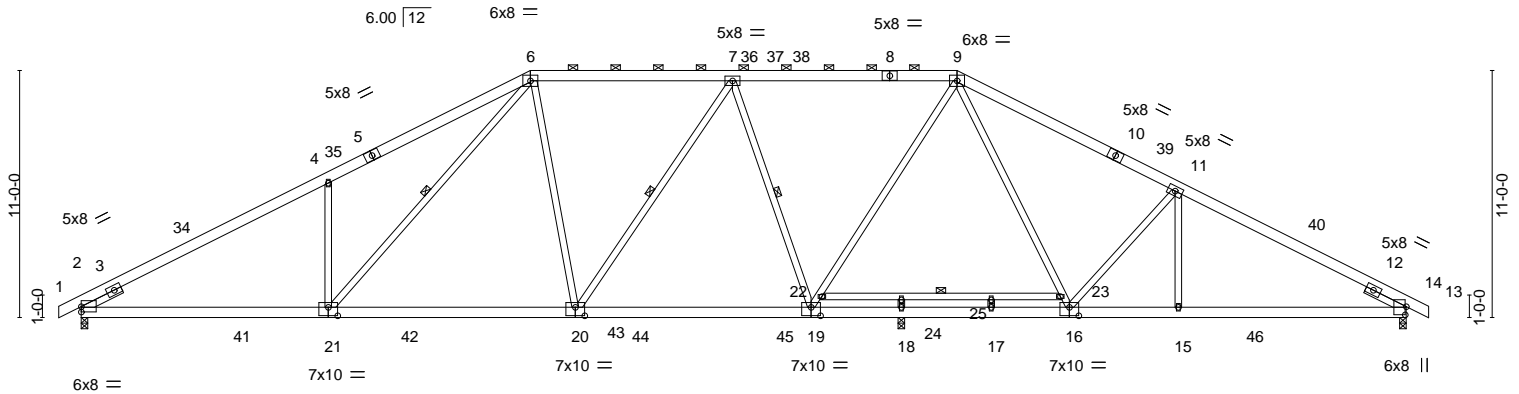


Plate Offsets (X,Y)--	[2:0-0-0,0-2-14], [13:0-4-6,0-0-9], [16:0-5-0,0-4-8], [19:0-5-0,0-4-8], [20:0-5-0,0-4-8], [21:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.30	19-20	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.56	19-20	>782		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.90	Horz(CT)	0.13	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.14	19-20	>999		
								Weight: 446 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-5,10-14: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except 2-0-0 oc purlins (4-1-2 max.): 6-9.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-20,6-21: 2x4 SP No.2	WEBS 1 Row at midpt 7-20, 7-19, 22-23, 6-21
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 13=0-3-8
 Max Horz 2=-140(LC 13)
 Max Uplift 2=-125(LC 12), 13=-134(LC 13)
 Max Grav 2=2199(LC 2), 18=745(LC 1), 13=1959(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1591/0, 3-34=-3754/223, 4-34=-3632/273, 4-35=-3741/385, 5-35=-3726/389,
 5-6=-3638/433, 6-36=-2696/324, 7-36=-2696/324, 7-37=-2426/326, 37-38=-2426/326,
 8-38=-2426/326, 8-9=-2426/326, 9-10=-2604/345, 10-39=-2658/307, 11-39=-2733/297,
 11-40=-3047/287, 12-40=-3236/241, 12-13=-1416/2
 BOT CHORD 2-41=-208/3249, 21-41=-208/3249, 21-42=-67/2607, 42-43=-67/2607, 20-43=-67/2607,
 20-44=-65/2631, 44-45=-65/2631, 19-45=-65/2631, 18-19=-56/2207, 17-18=-56/2207,
 16-17=-56/2207, 15-16=-164/2787, 15-46=-164/2787, 13-46=-164/2787
 WEBS 4-21=-574/285, 7-19=-748/152, 19-22=-60/641, 9-22=-60/619, 9-23=-71/414,
 16-23=-76/409, 11-16=-717/189, 11-15=0/345, 6-20=-23/605, 6-21=-217/1022

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=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 4-10-13, Interior(1) 4-10-13 to 20-0-0, Exterior(2) 20-0-0 to 28-4-2, Interior(1) 28-4-2 to 39-0-0, Exterior(2) 39-0-0 to 47-4-2, Interior(1) 47-4-2 to 60-0-0 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2 and 134 lb uplift at joint 13.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) N/A
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 5, 2022

Continued on page 2

LOAD CASE(S)
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	154564441
MASTER	A07H	HIP	5	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:53:07 2022 Page 2
ID:zbklr1dFypInNUy02maTGyYVbm-o8yokGf5_fhX7MZrW33VXD16sOvMm4pke?7GceyWUUC

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 6-9=-60, 9-14=-60, 26-30=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 6-9=-50, 9-14=-50, 26-41=-20, 21-41=-50, 21-42=-20, 42-43=-50, 43-44=-20, 44-45=-50, 15-45=-20, 15-46=-50, 30-46=-20
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-9=-20, 9-14=-20, 26-30=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=42, 2-34=22, 6-34=12, 6-36=20, 9-36=15, 9-39=22, 13-39=12, 13-14=8, 26-30=-12
Horz: 1-2=-54, 2-34=-34, 6-34=-24, 9-39=34, 13-39=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, 2-35=12, 6-35=22, 6-38=15, 9-38=20, 9-40=12, 13-40=22, 13-14=42, 26-30=-12
Horz: 1-2=-20, 2-35=-24, 6-35=-34, 9-40=24, 13-40=34, 13-14=54
- 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=-13, 2-6=-32, 6-9=-29, 9-13=-32, 13-14=-27, 26-30=-20
Horz: 1-2=-7, 2-6=12, 9-13=-12, 13-14=-7
- 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=-27, 2-6=-32, 6-9=-29, 9-13=-32, 13-14=-13, 26-30=-20
Horz: 1-2=7, 2-6=12, 9-13=-12, 13-14=7
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-6=-3, 6-9=19, 9-13=7, 13-14=2, 26-30=-12
Horz: 1-2=-19, 2-6=-9, 9-13=19, 13-14=14
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-6=7, 6-9=19, 9-13=-3, 13-14=7, 26-30=-12
Horz: 1-2=-14, 2-6=-19, 9-13=9, 13-14=19
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-6=-20, 6-9=2, 9-13=-10, 13-14=-6, 26-30=-20
Horz: 1-2=-5, 2-6=0, 9-13=10, 13-14=14
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-6=-10, 6-9=2, 9-13=-20, 13-14=-15, 26-30=-20
Horz: 1-2=-14, 2-6=10, 9-13=0, 13-14=5
- 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, 2-6=19, 6-37=19, 9-37=5, 9-13=5, 13-14=1, 26-30=-12
Horz: 1-2=-26, 2-6=31, 9-13=17, 13-14=13
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-6=5, 6-37=5, 9-37=19, 9-13=19, 13-14=14, 26-30=-12
Horz: 1-2=-13, 2-6=17, 9-13=31, 13-14=26
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-6=9, 6-37=9, 9-37=2, 9-13=2, 13-14=-3, 26-30=-12
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, 6-37=2, 9-37=9, 9-13=9, 13-14=5, 26-30=-12
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, 2-6=2, 6-37=2, 9-37=-11, 9-13=-11, 13-14=-7, 26-30=-20
Horz: 1-2=-26, 2-6=-22, 9-13=9, 13-14=13
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-6=-11, 6-37=-11, 9-37=2, 9-13=2, 13-14=6, 26-30=-20
Horz: 1-2=-13, 2-6=-9, 9-13=22, 13-14=26
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-9=-20, 9-14=-20, 26-41=-20, 21-41=-60, 21-42=-20, 42-43=-60, 43-44=-20, 44-45=-60, 15-45=-20, 15-46=-60, 30-46=-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=-46, 2-6=-50, 6-9=-34, 9-13=-43, 13-14=-39, 26-41=-20, 21-41=-50, 21-42=-20, 42-43=-50, 43-44=-20, 44-45=-50, 15-45=-20, 15-46=-50, 30-46=-20
Horz: 1-2=-4, 2-6=0, 9-13=7, 13-14=11

Continued on page 3

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	I54564441
MASTER	A07H	HIP	5	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:53:07 2022 Page 3
 ID:zbklr1dFypInNUy02maTGyYVBM-o8yokGf5_fhX7MZrW33VXD16sOvMm4pke?7GceyWUuQ

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=-39, 2-6=-43, 6-9=-34, 9-13=-50, 13-14=-46, 26-41=-20, 21-41=-50, 21-42=-20, 42-43=-50, 43-44=-20, 44-45=-50, 15-45=-20, 15-46=-50, 30-46=-20
 Horz: 1-2=-11, 2-6=-7, 9-13=0, 13-14=4
- 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, 2-6=-34, 6-37=-34, 9-37=-44, 9-13=-44, 13-14=-40, 26-41=-20, 21-41=-50, 21-42=-20, 42-43=-50, 43-44=-20, 44-45=-50, 15-45=-20, 15-46=-50, 30-46=-20
 Horz: 1-2=-20, 2-6=-16, 9-13=6, 13-14=10
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-40, 2-6=-44, 6-37=-44, 9-37=-34, 9-13=-34, 13-14=-30, 26-41=-20, 21-41=-50, 21-42=-20, 42-43=-50, 43-44=-20, 44-45=-50, 15-45=-20, 15-46=-50, 30-46=-20
 Horz: 1-2=-10, 2-6=-6, 9-13=16, 13-14=20
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-9=-60, 9-14=-20, 26-30=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-9=-60, 9-14=-60, 26-30=-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, 6-9=-50, 9-14=-20, 26-41=-20, 21-41=-50, 21-42=-20, 42-43=-50, 43-44=-20, 44-45=-50, 15-45=-20, 15-46=-50, 30-46=-20
- 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, 6-9=-50, 9-14=-50, 26-41=-20, 21-41=-50, 21-42=-20, 42-43=-50, 43-44=-20, 44-45=-50, 15-45=-20, 15-46=-50, 30-46=-20

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	I54564442
MASTER	A08	HIP	4	1		

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:17 2022 Page 1

ID:zbnk1r1dFyplnNUy02maTGgyYVBm-l?eY8_H1xqsV6Typt22JYTHni2?66FqeddyWV4i



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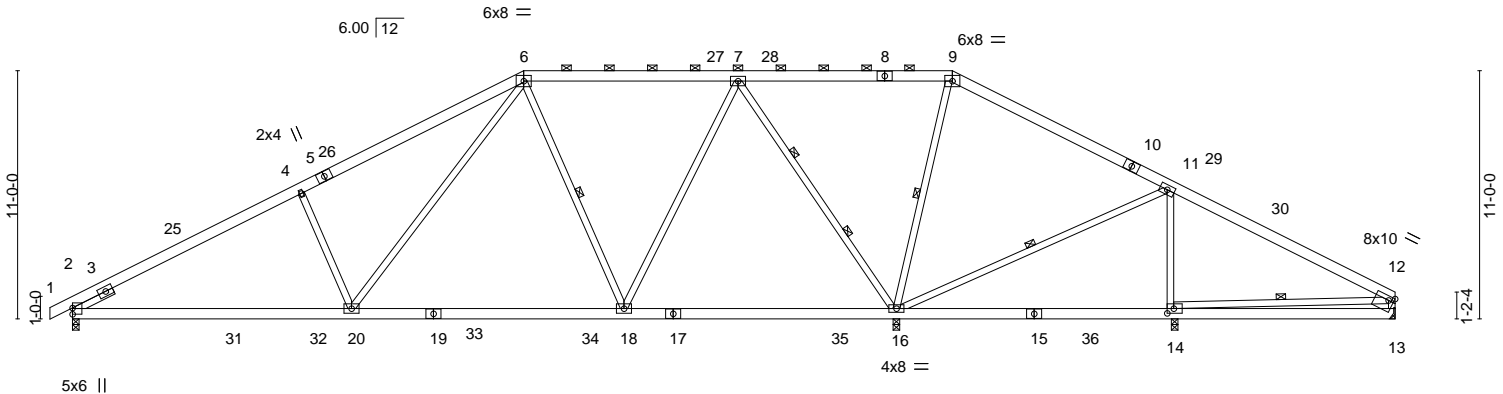


Plate Offsets (X, Y)--	[12:Edge,0-2-4], [14:0-3-8,0-2-8]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.19 18-20 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.31 18-20 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.04 13 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MS	Wind(LL) 0.05 20-23 >999 240	Weight: 427 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-16.
WEBS 2x4 SP No.3 *Except* 6-20,7-16,11-16: 2x4 SP No.2	WEBS 1 Row at midpt 6-18, 9-16, 11-16, 12-14 2 Rows at 1/3 pts 7-16
SLIDER Left 2x4 SP No.3 1-11-12	

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.
 (lb) - Max Horz 2=144(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 16, 14 except 2=-101(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 13=312(LC 24), 2=1352(LC 25), 16=2757(LC 2), 14=636(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2062/187, 4-6=-1901/258, 6-7=-782/175, 7-9=0/717, 9-11=-777/10, 11-12=-123/287
 BOT CHORD 2-20=-193/1767, 18-20=-30/984, 16-18=-33/333, 13-14=-71/274
 WEBS 4-20=-555/252, 6-20=-111/1046, 6-18=-591/171, 7-18=-15/1092, 7-16=-1820/185, 9-16=-752/114, 11-16=-452/133, 11-14=-379/213, 12-14=-340/113

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 4-10-6, Interior(1) 4-10-6 to 20-0-0, Exterior(2) 20-0-0 to 28-3-8, Interior(1) 28-3-8 to 39-0-0, Exterior(2) 39-0-0 to 47-3-8, Interior(1) 47-3-8 to 58-5-12 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 16, 14 except (jt=lb) 2=101.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 5, 2022

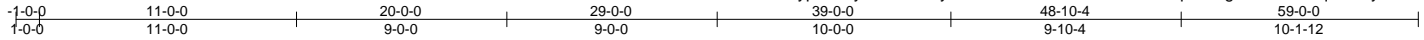
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	154564443
MASTER	A08H	HIP	1	1		

Builders FirstSource, Apex, NC 27523

ID:zbklr1dFypInNUy02maTGgYyVbM-s1MTiOrVSGZPQfCkuiq1eO8gdR1dns5x4qFYeHyWUUB
8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:53:22 2022 Page 1



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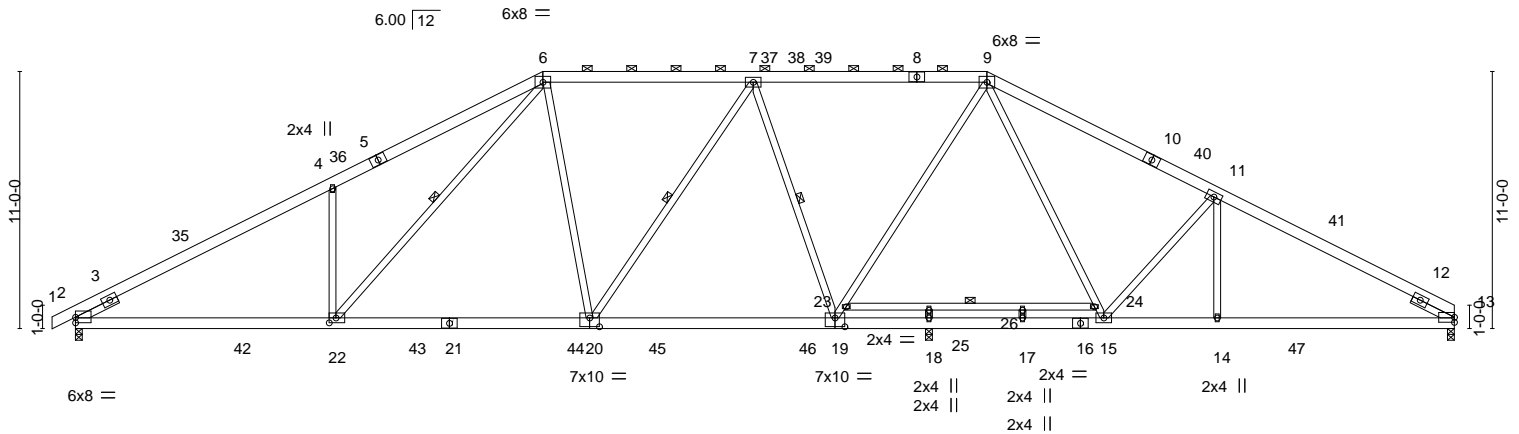


Plate Offsets (X,Y)--	[2:0-0-0,0-2-14], [13:0-0-0,0-2-10], [19:0-5-0,0-4-8], [20:0-5-0,0-4-8], [22:0-3-8,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	-0.31	19-20	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.57	19-20	>765		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.93	Horz(CT)	0.13	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.14	19-20	>999		
								Weight: 443 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-5: 2x6 SP DSS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
7-20,6-22: 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 2-11-6 oc purlins, except 2-0-0 oc purlins (4-1-5 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-20, 7-19, 23-24, 6-22

REACTIONS.

(size) 2=0-3-8, 18=0-3-8, 13=0-3-8
Max Horz 2=147(LC 16)
Max Uplift 2=-125(LC 12), 13=-119(LC 13)
Max Grav 2=2190(LC 2), 18=767(LC 1), 13=1885(LC 1)

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

TOP CHORD 2-3=-1584/0, 3-35=-3736/224, 4-35=-3615/274, 4-36=-3724/386, 5-36=-3709/391, 5-6=-3620/435, 6-37=-2679/325, 7-37=-2679/325, 7-38=-2399/324, 38-39=-2399/324, 8-39=-2399/324, 8-9=-2399/324, 9-10=-2574/340, 10-40=-2628/302, 11-40=-2703/292, 11-41=-3017/282, 12-41=-3207/250, 12-13=-1312/0
BOT CHORD 2-42=-215/3233, 22-42=-215/3233, 22-43=-73/2592, 21-43=-73/2592, 21-44=-73/2592, 20-44=-73/2592, 20-45=-89/2607, 45-46=-89/2607, 19-46=-89/2607, 18-19=-63/2183, 17-18=-63/2183, 16-17=-63/2183, 15-16=-63/2183, 14-15=-168/2763, 14-47=-168/2763, 13-47=-168/2763
WEBS 4-22=-574/285, 7-19=-757/152, 19-23=-60/636, 9-23=-60/613, 9-24=-68/405, 15-24=-73/400, 11-15=-720/188, 11-14=0/346, 6-22=-217/1022, 6-20=-23/598

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 4-10-13, Interior(1) 4-10-13 to 20-0-0, Exterior(2) 20-0-0 to 28-4-2, Interior(1) 28-4-2 to 39-0-0, Exterior(2) 39-0-0 to 47-4-2, Interior(1) 47-4-2 to 59-0-0 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 5x8 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2 and 119 lb uplift at joint 13.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) N/A



October 5, 2022

Computer generated representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	154564443
MASTER	A08H	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:53:22 2022 Page 2
 ID:zbklr1dFypInNUy02maTGGYyVbM-s1MTiOrVSGZPQfCkuiq1eO8gdR1dns5x4qFYeHyWUUB

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-9=-60, 9-13=-60, 27-31=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-50, 6-9=-50, 9-13=-50, 27-42=-20, 22-42=-50, 22-43=-20, 43-44=-50, 44-45=-20, 45-46=-50, 14-46=-20, 14-47=-50, 31-47=-20
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-9=-20, 9-13=-20, 27-31=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=42, 2-35=22, 6-35=12, 6-37=20, 9-37=15, 9-40=22, 13-40=12, 27-31=-12
 Horz: 1-2=-54, 2-35=-34, 6-35=-24, 9-40=34, 13-40=24
- 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=22, 6-39=15, 9-39=20, 9-41=12, 13-41=22, 27-31=-12
 Horz: 1-2=-20, 2-36=-24, 6-36=-34, 9-41=24, 13-41=34
- 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=-13, 2-6=-32, 6-9=-29, 9-13=-32, 27-31=-20
 Horz: 1-2=-7, 2-6=12, 9-13=-12
- 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=-27, 2-6=-32, 6-9=-29, 9-13=-32, 27-31=-20
 Horz: 1-2=7, 2-6=12, 9-13=-12
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=7, 2-6=-3, 6-9=19, 9-13=7, 27-31=-12
 Horz: 1-2=-19, 2-6=-9, 9-13=19
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=2, 2-6=7, 6-9=19, 9-13=-3, 27-31=-12
 Horz: 1-2=-14, 2-6=-19, 9-13=9
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-15, 2-6=-20, 6-9=2, 9-13=-10, 27-31=-20
 Horz: 1-2=-5, 2-6=0, 9-13=10
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-6, 2-6=-10, 6-9=2, 9-13=-20, 27-31=-20
 Horz: 1-2=-14, 2-6=-10, 9-13=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, 2-6=19, 6-38=19, 9-38=5, 9-13=5, 27-31=-12
 Horz: 1-2=-26, 2-6=-31, 9-13=17
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=1, 2-6=5, 6-38=5, 9-38=19, 9-13=19, 27-31=-12
 Horz: 1-2=-13, 2-6=-17, 9-13=31
- 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, 6-38=9, 9-38=2, 9-13=2, 27-31=-12
 Horz: 1-2=-17, 2-6=-21, 9-13=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, 6-38=2, 9-38=9, 9-13=9, 27-31=-12
 Horz: 1-2=-9, 2-6=-14, 9-13=21
- 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, 2-6=2, 6-38=2, 9-38=-11, 9-13=-11, 27-31=-20
 Horz: 1-2=-26, 2-6=-22, 9-13=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=-7, 2-6=-11, 6-38=-11, 9-38=2, 9-13=2, 27-31=-20
 Horz: 1-2=-13, 2-6=-9, 9-13=22
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-9=-20, 9-13=-20, 27-42=-20, 22-42=-60, 22-43=-20, 43-44=-60, 44-45=-20, 45-46=-60, 14-46=-20, 14-47=-60, 31-47=-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=-46, 2-6=-50, 6-9=-34, 9-13=-43, 27-42=-20, 22-42=-50, 22-43=-20, 43-44=-50, 44-45=-20, 45-46=-50, 14-46=-20, 14-47=-50, 31-47=-20
 Horz: 1-2=-4, 2-6=0, 9-13=7

Continued on page 3

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	I54564443
MASTER	A08H	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:53:22 2022 Page 3
 ID:zbnklr1dFypInNUy02maTGgYyVbM-s1MTiOrVSGZPQfCkuiq1eO8gdR1dns5x4qFYeHyWUUB

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=-39, 2-6=-43, 6-9=-34, 9-13=-50, 27-42=-20, 22-42=-50, 22-43=-20, 43-44=-50, 44-45=-20, 45-46=-50, 14-46=-20, 14-47=-50, 31-47=-20
 Horz: 1-2=-11, 2-6=-7, 9-13=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, 2-6=-34, 6-38=-34, 9-38=-44, 9-13=-44, 27-42=-20, 22-42=-50, 22-43=-20, 43-44=-50, 44-45=-20, 45-46=-50, 14-46=-20, 14-47=-50, 31-47=-20
 Horz: 1-2=-20, 2-6=-16, 9-13=6
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-40, 2-6=-44, 6-38=-44, 9-38=-34, 9-13=-34, 27-42=-20, 22-42=-50, 22-43=-20, 43-44=-50, 44-45=-20, 45-46=-50, 14-46=-20, 14-47=-50, 31-47=-20
 Horz: 1-2=-10, 2-6=-6, 9-13=16
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-9=-60, 9-13=-20, 27-31=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-9=-60, 9-13=-60, 27-31=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-50, 6-9=-50, 9-13=-20, 27-42=-20, 22-42=-50, 22-43=-20, 43-44=-50, 44-45=-20, 45-46=-50, 14-46=-20, 14-47=-50, 31-47=-20
- 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, 6-9=-50, 9-13=-50, 27-42=-20, 22-42=-50, 22-43=-20, 43-44=-50, 44-45=-20, 45-46=-50, 14-46=-20, 14-47=-50, 31-47=-20

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

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



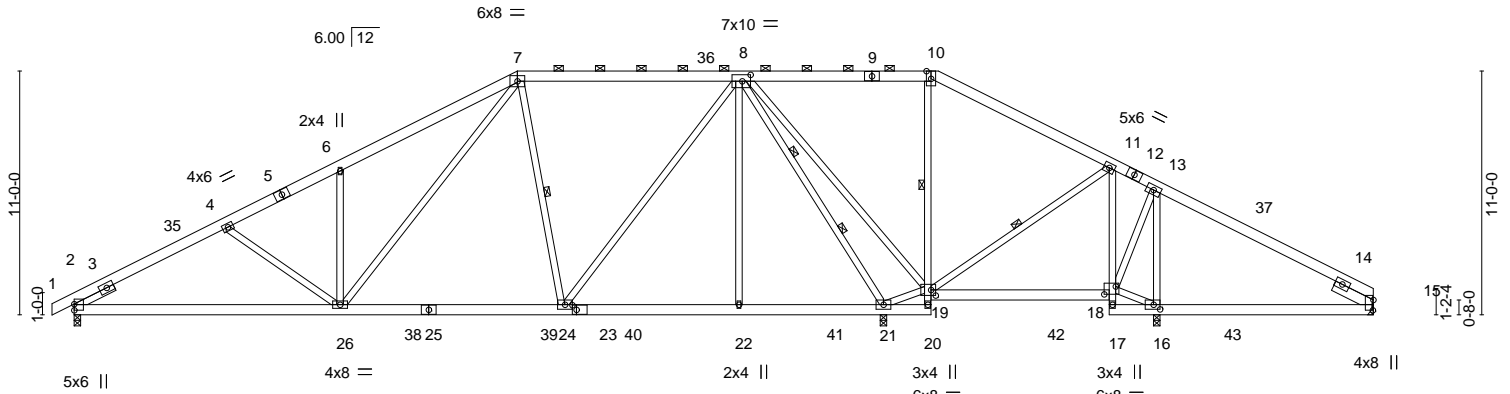
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	154564444
MASTER	A08T	SPECIAL	1	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:20 2022 Page 1
 ID:jww8HilN90uFSTm7sxLqmezW8l3-jZJhm0JvDIKRMZBXVxRlfyA7?n0wNzZyosHD_yWV4f

-1-0-0	6-10-5	12-0-0	13-5-3	20-0-0	22-0-0	30-0-0	38-8-0	39-0-0	46-8-8	48-10-4	52-6-4	58-7-8
1-0-0	6-10-5	5-1-11	1-5-3	6-6-13	2-0-0	8-0-0	8-8-0	0-4-0	7-8-8	2-1-12	3-8-0	6-1-4

Scale = 1:104.0



12-0-0	20-0-0	22-0-0	30-0-0	36-6-4	38-8-0	46-8-8	48-10-4	58-7-8
12-0-0	8-0-0	2-0-0	8-0-0	6-6-4	2-1-12	8-0-8	2-1-12	9-9-4

Plate Offsets (X,Y)-- [8:0-4-8,0-3-8], [10:0-4-2,Edge], [15:0-5-10,0-0-5], [16:0-3-8,0-2-8], [18:0-6-4,0-4-4], [19:0-2-8,0-3-0], [23:0-2-4,0-2-8]

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)	-0.16 24-26	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.26 24-26	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.06 16	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.05 26	>999	240		
								Weight: 477 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-9 oc purlins, except
BOT CHORD 2x6 SP No.2 *Except* 10-20,11-17: 2x4 SP No.3	2-0-0 oc purlins (6-0-0 max.): 7-10.
WEBS 2x4 SP No.3 *Except* 8-24,8-19,7-26: 2x4 SP No.2, 8-21: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 10-19 6-0-0 oc bracing: 17-18
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x6 SP No.2 1-11-12	WEBS 1 Row at midpt 7-24, 11-19 2 Rows at 1/3 pts 8-21

REACTIONS. All bearings 0-3-8 except (jt=length) 15=Mechanical.
 (lb) - Max Horz 2=151(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 21 except 15=116(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1423(LC 1), 15=444(LC 24), 21=2482(LC 2), 16=670(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2174/164, 4-6=-1927/170, 6-7=-1994/306, 7-8=-1072/219, 8-10=0/368,
 10-11=-73/458, 11-13=-321/274, 13-15=-340/226
 BOT CHORD 2-26=-98/1863, 24-26=0/1157, 22-24=0/557, 21-22=0/552, 10-19=-532/77
 WEBS 6-26=-450/205, 7-24=-472/125, 8-24=-22/902, 8-21=-2281/153, 19-21=-613/213,
 8-19=-47/661, 11-19=-394/139, 16-18=-49/325, 13-16=-452/73, 7-26=-126/984,
 8-22=0/346

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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 4-10-6, Interior(1) 4-10-6 to 20-0-0, Exterior(2) 20-0-0 to 28-3-8, Interior(1) 28-3-8 to 38-8-0, Exterior(2) 38-8-0 to 46-10-4, Interior(1) 46-10-4 to 58-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21 except (jt=lb) 15=116.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 5, 2022

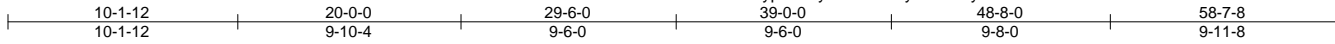
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	154564445
MASTER	A09	HIP	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:22 2022 Page 1

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Scale = 1:101.7

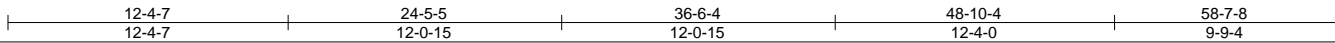
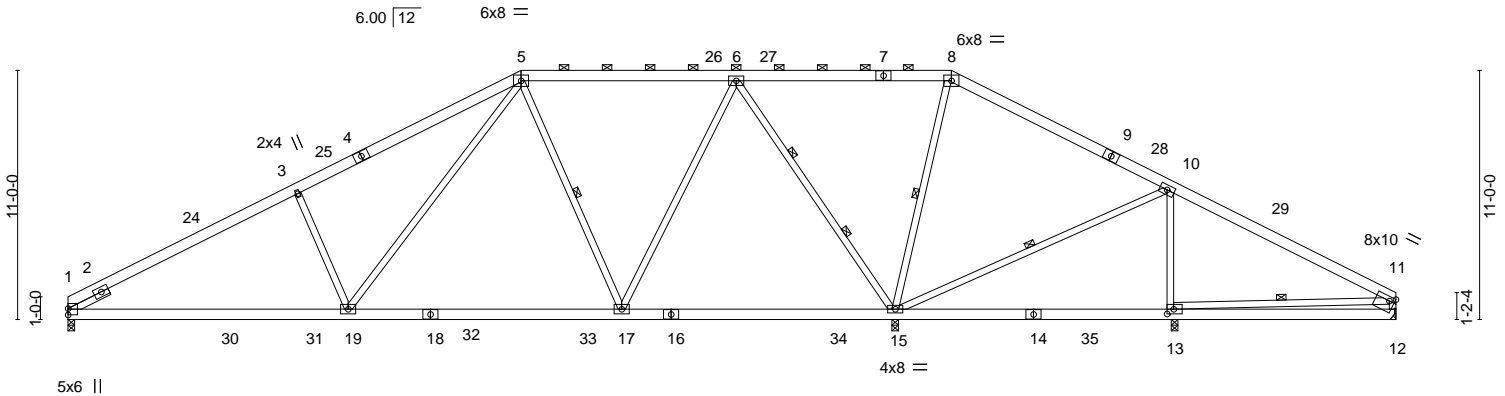


Plate Offsets (X,Y)-- [11:Edge,0-2-4], [13:0-3-8,0-2-8]

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 0.65	Vert(LL)	-0.19 17-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.31 17-19	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.04 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-MS	Wind(LL)	0.05 19-22	>999	240	Weight: 425 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-19,6-15,10-15: 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15.
WEBS 1 Row at midpt 5-17, 8-15, 10-15, 11-13
2 Rows at 1/3 pts 6-15

REACTIONS. All bearings 0-3-8 except (jt=length) 12=Mechanical.
(lb) - Max Horz 1=131(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 15, 13
Max Grav All reactions 250 lb or less at joint(s) except 12=312(LC 24), 1=1301(LC 25), 15=2757(LC 2), 13=636(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2067/188, 3-5=-1906/259, 5-6=-784/181, 6-8=0/716, 8-10=-8/709, 10-11=-123/286
BOT CHORD 1-19=-193/1772, 17-19=-30/986, 15-17=-32/335, 12-13=-71/274
WEBS 3-19=-557/252, 5-19=-112/1050, 5-17=-592/172, 6-17=-15/1093, 6-15=-1820/186,
8-15=-752/115, 10-15=-452/133, 10-13=-378/212, 11-13=-340/114

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) 0-0-0 to 5-10-6, Interior(1) 5-10-6 to 20-0-0, Exterior(2) 20-0-0 to 28-3-8, Interior(1) 28-3-8 to 39-0-0, Exterior(2) 39-0-0 to 47-3-8, Interior(1) 47-3-8 to 58-5-12 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 1, 15, 13.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 5, 2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	I54564446
MASTER	A10	HIP	4	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:23 2022 Page 1

ID:zblk1r1dFypInNUy02maTGGyYVBM-78?pP1LoWgi0D1w6A4_SHaoVzCIN7iZ?em5xqJyWV4c

-1-0-0	10-1-12	20-0-0	29-6-0	39-0-0	48-8-0	58-7-8
1-0-0	10-1-12	9-10-4	9-6-0	9-6-0	9-8-0	9-11-8

Scale = 1:102.2

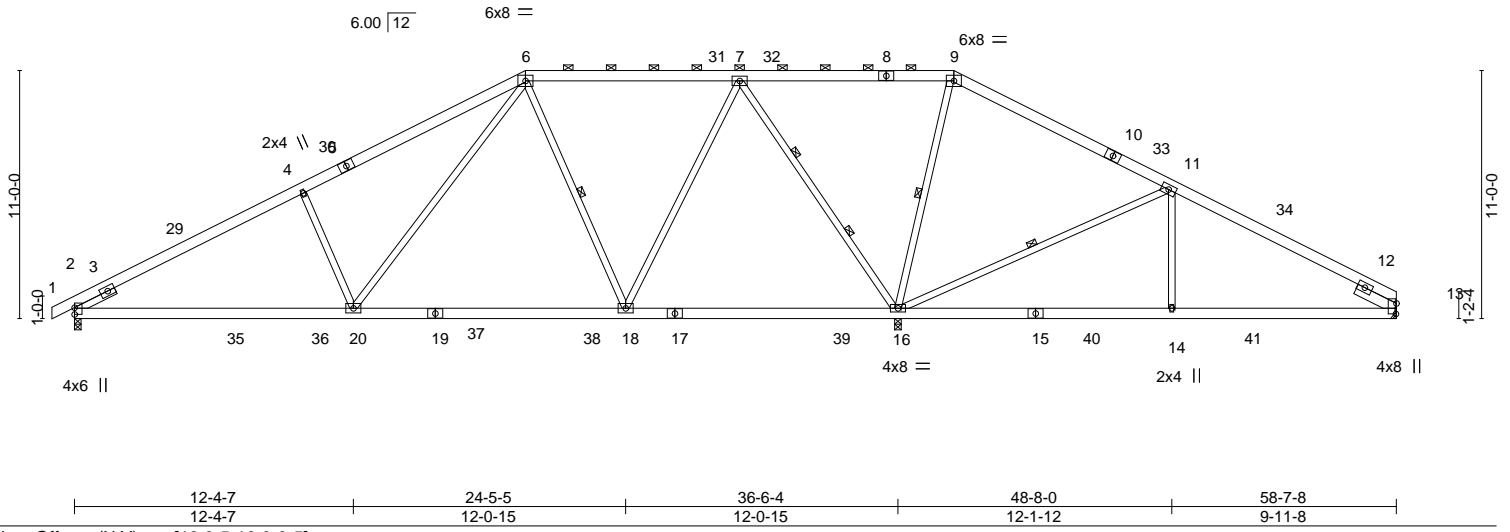


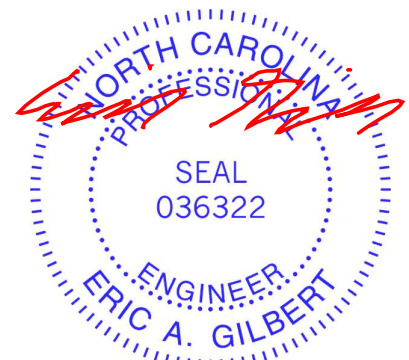
Plate Offsets (X,Y)--	[13:0-5-10,0-0-5]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.19 18-20 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.31 18-20 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.04 16 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MS	Wind(LL) 0.05 20 >999 240		
				Weight: 417 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 6-18, 9-16, 11-16
6-20,7-16,11-16: 2x4 SP No.2	2 Rows at 1/3 pts 7-16
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (size) 2=0-3-8, 16=0-3-8 (req. 0-3-10), 13=Mechanical
 Max Horz 2=150(LC 12)
 Max Uplift 2=-116(LC 12), 13=-106(LC 13)
 Max Grav 2=1361(LC 23), 16=3049(LC 2), 13=647(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2078/217, 4-6=-1916/288, 6-7=-800/224, 7-9=0/754, 9-11=0/747, 11-13=-732/203
 BOT CHORD 2-20=-229/1781, 18-20=-69/998, 16-18=-68/381, 14-16=-83/574, 13-14=-83/574
 WEBS 4-20=-555/251, 6-20=-109/1048, 6-18=-592/155, 7-18=0/1103, 7-16=-1825/154,
 9-16=-759/117, 11-16=-1096/175, 11-14=0/474

- 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 4-10-6, Interior(1) 4-10-6 to 20-0-0, Exterior(2) 20-0-0 to 28-3-8, Interior(1) 28-3-8 to 39-0-0, Exterior(2) 39-0-0 to 47-3-8, Interior(1) 47-3-8 to 58-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x8 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) WARNING: Required bearing size at joint(s) 16 greater than input bearing size.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=116, 13=106.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 5, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general information regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	3293795	I54564447
MASTER	A10G	GABLE	1	1		

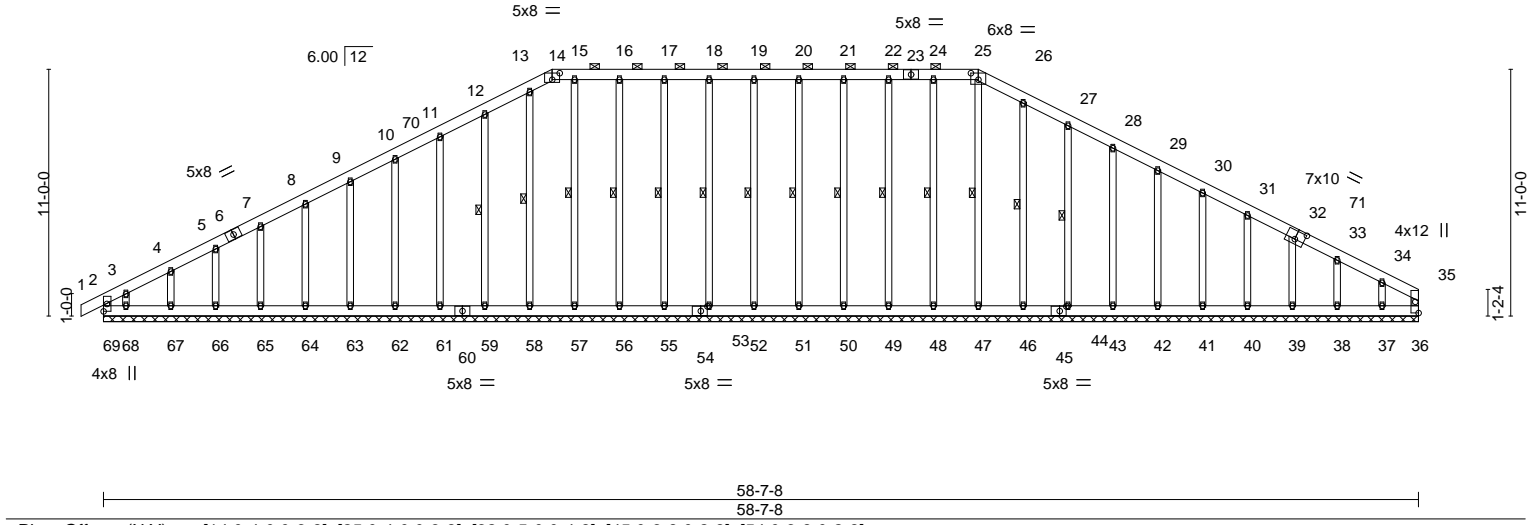
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:27 2022 Page 1

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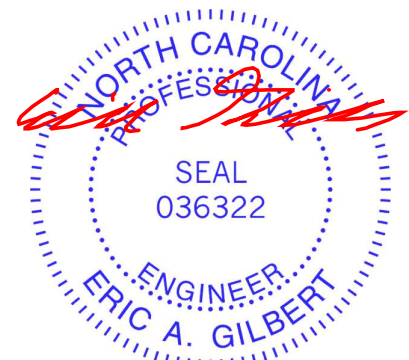
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.01	36	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 583 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	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.): 14-25.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 25-47, 24-48, 22-49, 21-50, 20-51, 19-52, 18-53, 17-55, 16-56, 15-57, 13-58, 12-59, 26-46, 27-44
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 58-7-8.
 (lb) - Max Horz 69=133(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 69, 48, 49, 50, 51, 52, 53, 55, 56, 59, 61, 62, 63, 64, 65, 66, 67, 46, 44, 43, 42, 41, 40, 39, 38, 37 except 68=140(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 69, 36, 47, 48, 49, 50, 51, 52, 53, 55, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68, 46, 44, 43, 42, 41, 40, 39, 38, 37

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 11-12=88/257, 12-13=102/298, 13-14=104/294, 14-15=94/293, 15-16=94/293, 16-17=94/293, 17-18=94/293, 18-19=94/293, 19-20=94/293, 20-21=94/293, 21-22=94/293, 22-24=94/293, 24-25=94/293, 25-26=107/299, 26-27=95/266

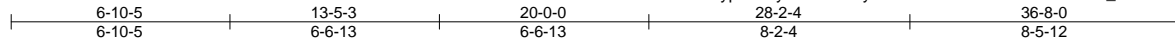
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 5-0-0, Exterior(2) 5-0-0 to 20-0-0, Corner(3) 20-0-0 to 25-10-6, Exterior(2) 25-10-6 to 39-0-0, Corner(3) 39-0-0 to 45-0-0, Exterior(2) 45-0-0 to 58-5-12 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 69, 48, 49, 50, 51, 52, 53, 55, 56, 59, 61, 62, 63, 64, 65, 66, 67, 46, 44, 43, 42, 41, 40, 39, 38, 37 except (jt=b) 68=140.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



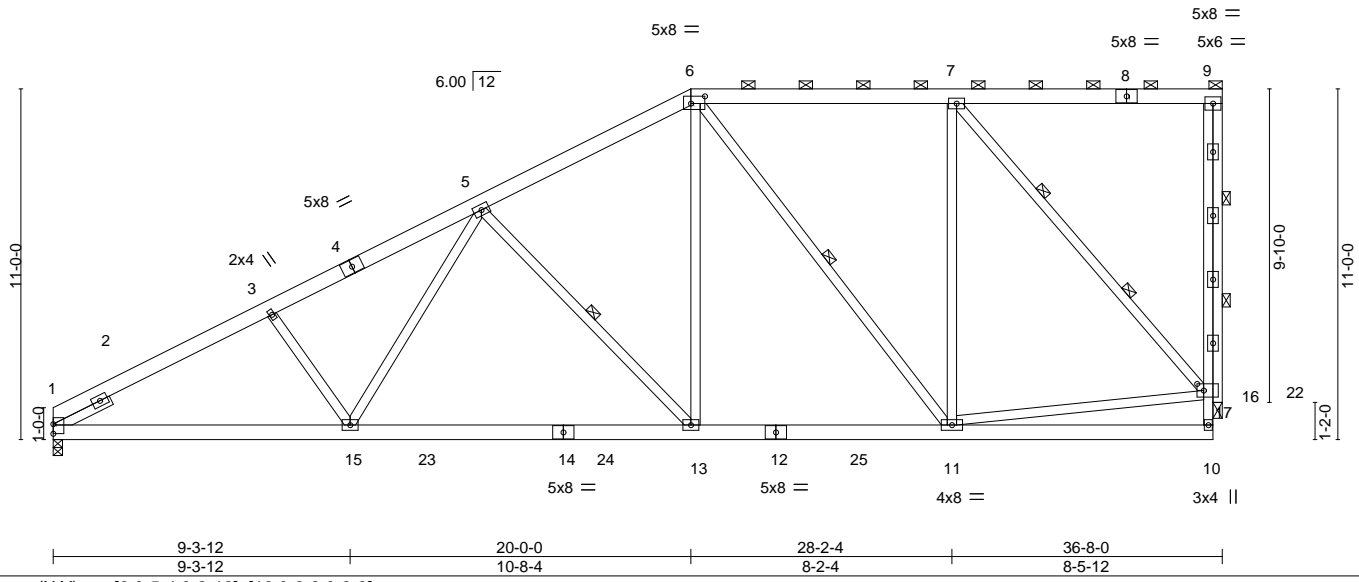
October 5, 2022

Job MASTER	Truss A11	Truss Type MONO HIP	Qty 5	Ply 1	3293795	154564448
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:28 2022 Page 1
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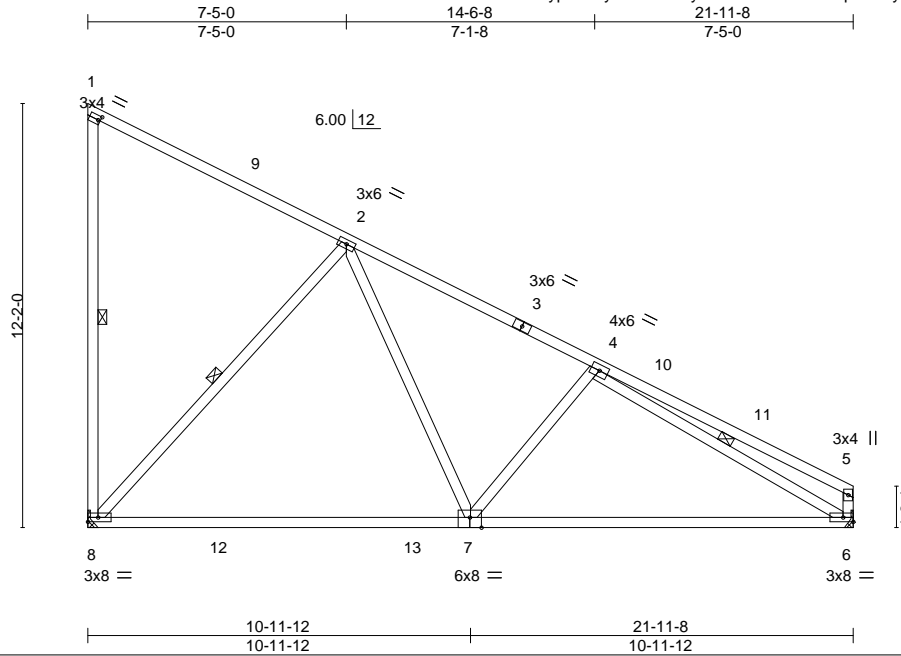
Job	Truss	Truss Type	Qty	Ply	3293795	154564450
MASTER	A13	SPECIAL	2	1		

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:30 2022 Page 1

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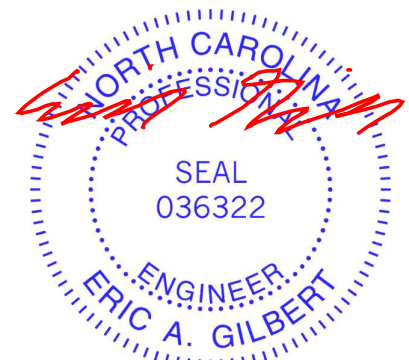
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) -0.60 7-8 >430 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Vert(CT) -0.89 7-8 >293 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.12 7-8 >999 240	Weight: 137 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-5 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-8: 2x4 SP No.1	WEBS 1 Row at midpt 1-8, 2-8, 4-6

REACTIONS. (size) 8=Mechanical, 6=Mechanical
 Max Horz 8=368(LC 8)
 Max Uplift 8=45(LC 8)
 Max Grav 8=892(LC 20), 6=867(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-992/98, 4-5=-366/71, 5-6=-321/84
 BOT CHORD 7-8=0/634, 6-7=-23/975
 WEBS 2-8=-799/131, 2-7=0/617, 4-7=-321/144, 4-6=-957/31

- 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) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 21-9-12 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, with BCDL = 10.0psf.
 - 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) 8.



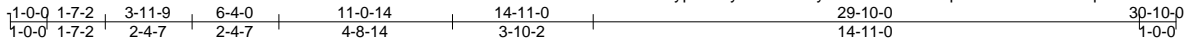
October 5, 2022

Job	Truss	Truss Type	Qty	Ply	3293795	I54564451
MASTER	B01SG	MODIFIED QUEENPOST	1	1		
					Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:31 2022 Page 1

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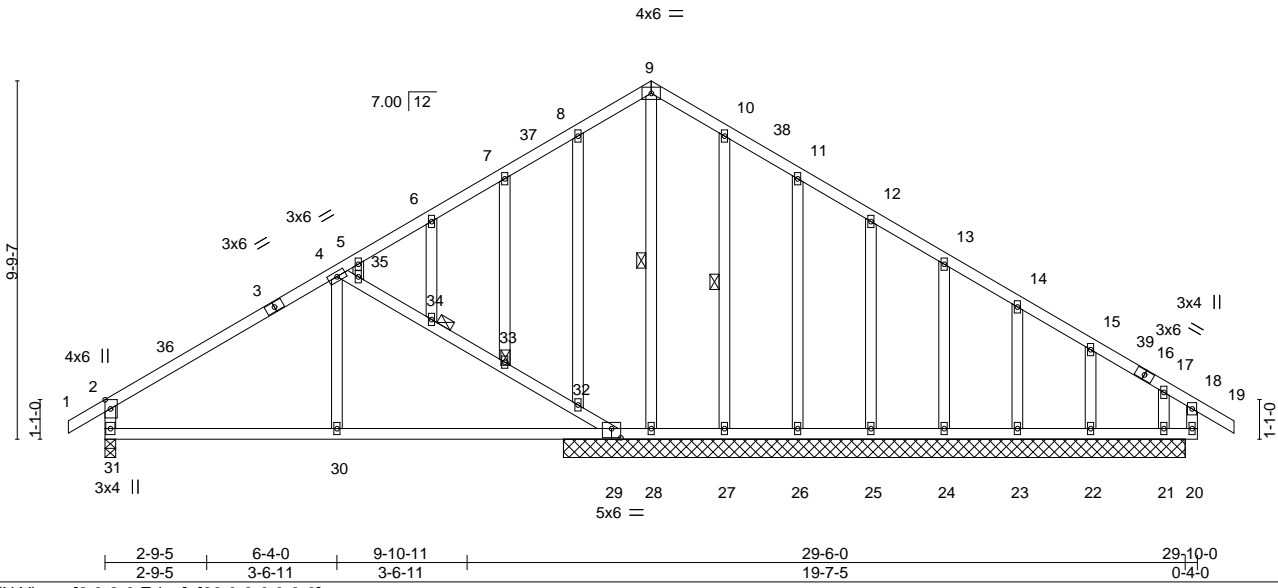


Plate Offsets (X, Y)--	[2:0-3-0,Edge], [29:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.06 29-30 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.12 29-30 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 29 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 29-30 >999 240	Weight: 206 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 30-31,29-30.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 9-28, 10-27
	JOINTS 1 Brace at Jt(s): 33, 34

REACTIONS. All bearings 16-11-12 except (jt=length) 31=0-3-8.
 (lb) - Max Horz 31=208(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 31, 29, 28, 27, 26, 25, 24, 23, 22, 21
 Max Grav All reactions 250 lb or less at joint(s) 27, 26, 25, 24, 23, 21 except 31=516(LC 23), 29=694(LC 19), 28=259(LC 22), 22=280(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-478/112, 7-8=0/303, 8-9=-65/275, 9-10=-53/278, 2-31=-447/124
 BOT CHORD 30-31=-107/405, 29-30=-107/405
 WEBS 4-35=-639/184, 34-35=-537/124, 33-34=-582/145, 32-33=-573/144, 29-32=-695/194, 9-28=-347/0, 4-30=0/279

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-11-0, Exterior(2) 14-11-0 to 17-11-0, Interior(1) 17-11-0 to 30-10-0 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
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 29, 28, 27, 26, 25, 24, 23, 22, 21.



October 5, 2022

Job MASTER	Truss B02GR	Truss Type COMMON	Qty 1	Ply 3	3293795 Job Reference (optional)	I54564452
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:33 2022 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: 1-5=-60, 5-9=-60, 10-18=-20

Concentrated Loads (lb)

Vert: 17=-627(B) 12=-292(B) 21=-627(B) 22=-627(B) 23=-627(B) 24=-847(B) 25=-847(B) 26=-433(B) 27=-433(B) 28=-433(B) 29=-292(B) 30=-292(B) 31=-292(B) 32=-292(B)

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

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



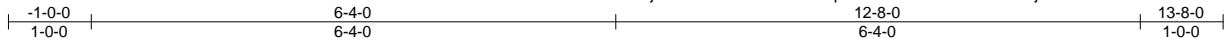
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	I54564453
MASTER	C01G	GABLE	1	1	Job Reference (optional)	

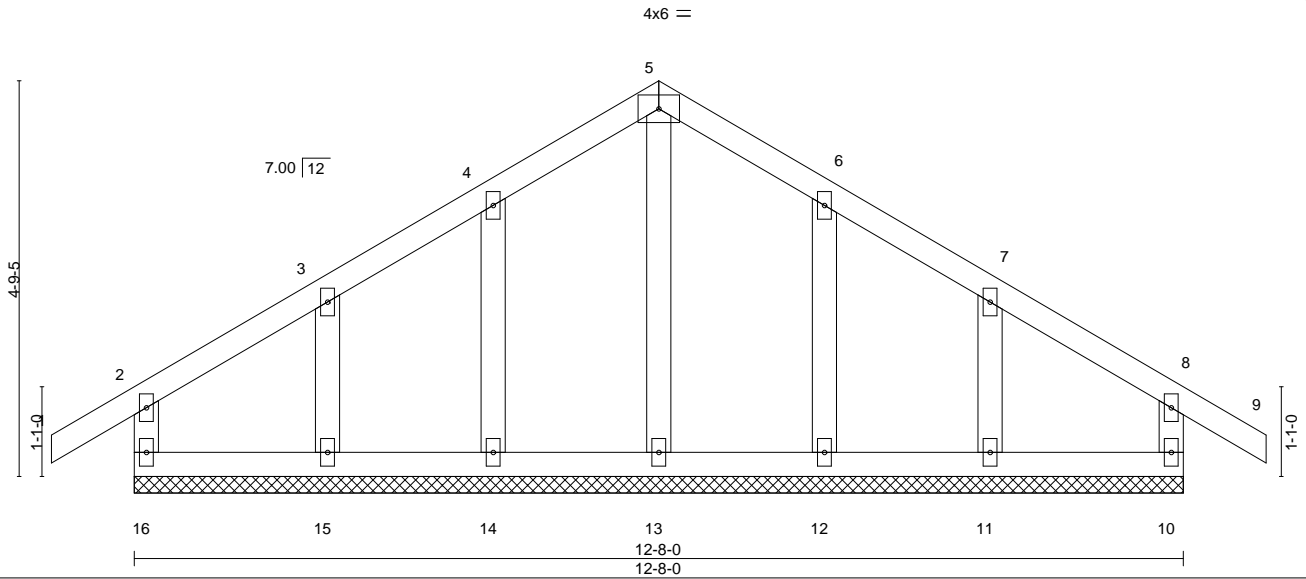
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:34 2022 Page 1

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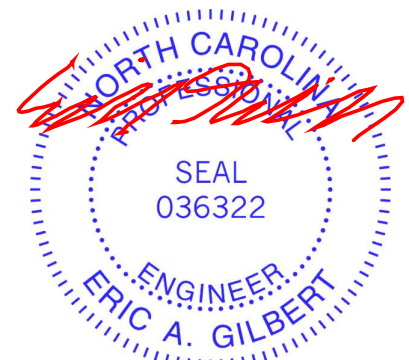
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	9	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	9	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 67 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 12-8-0.
 (lb) - Max Horz 16=109(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-**
- Unbalanced roof live loads have been considered for this design.
 - 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 2-0-0, Exterior(2) 2-0-0 to 6-4-0, Corner(3) 6-4-0 to 9-4-0, Exterior(2) 9-4-0 to 13-8-0 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - 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.



October 5, 2022

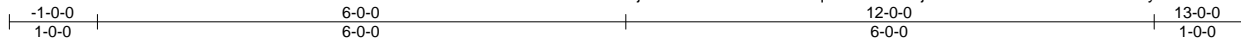
Job	Truss	Truss Type	Qty	Ply	3293795	I54564454
MASTER	D01	COMMON	2	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

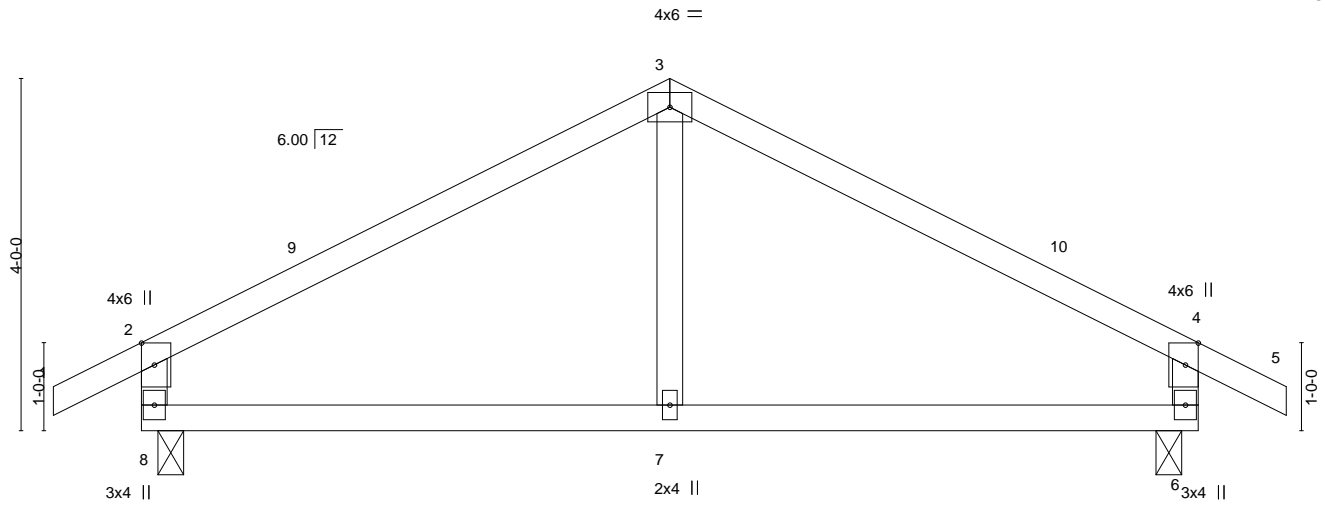
Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:35 2022 Page 1

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Scale = 1:26.2



0:2-4	6-0-0	11-9-12	12-0-0
0:2-4	5-9-12	5-9-12	0:2-4

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 0.78	Vert(LL)	-0.03	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.07	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	0.01	7-8	>999		
								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) 8=0-3-8, 6=0-3-8
 Max Horz 8=56(LC 11)
 Max Uplift 8=-23(LC 12), 6=-23(LC 13)
 Max Grav 8=537(LC 1), 6=537(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-468/136, 2-3=-523/83, 3-4=-523/81, 4-6=-468/133
 BOT CHORD 7-8=0/384, 6-7=0/384

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 13-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; 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.



October 5, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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

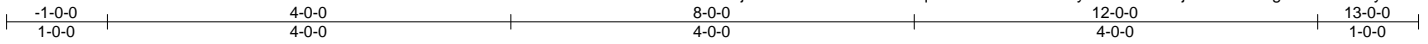


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	I54564455
MASTER	D01GR	HIP	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:36 2022 Page 1

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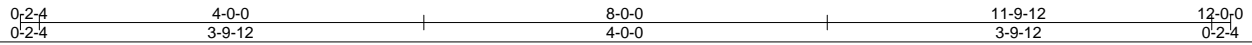
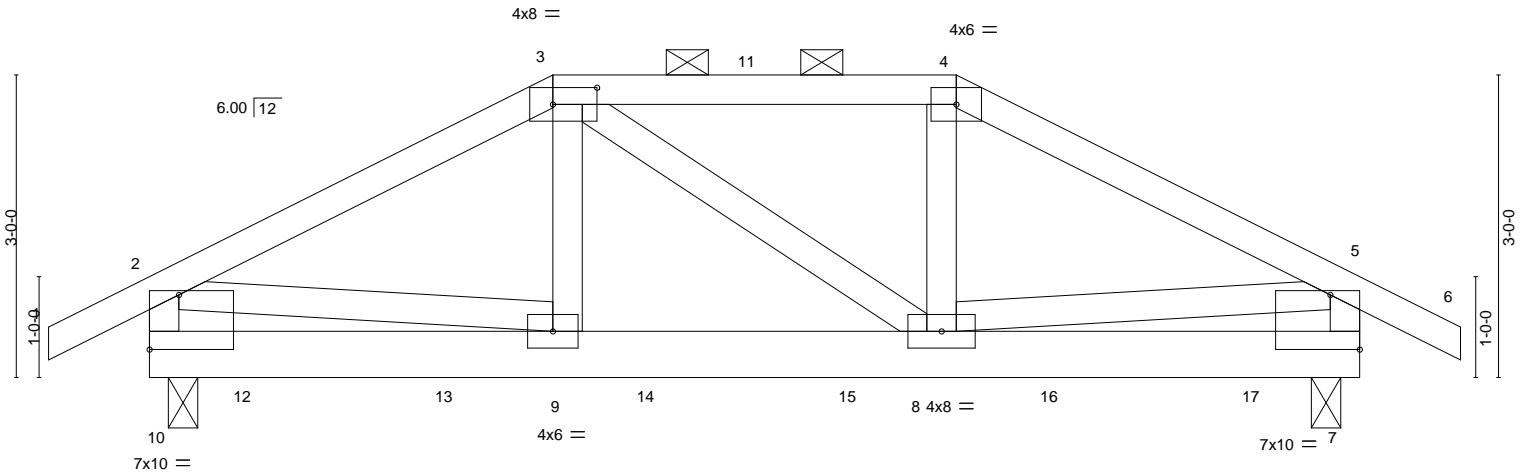


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [7:Edge,0-6-8], [10:Edge,0-6-8]

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 0.33	Vert(LL)	-0.02	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.03	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.27	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01	8-9	>999	Weight: 76 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 10=0-3-8, 7=0-3-8
 Max Horz 10=44(LC 7)
 Max Uplift 10=159(LC 8), 7=158(LC 9)
 Max Grav 10=880(LC 1), 7=881(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-10=-722/141, 2-3=-982/175, 3-4=-844/175, 4-5=-981/174, 5-7=-717/140
 BOT CHORD 8-9=-130/835
 WEBS 2-9=-106/642, 5-8=-107/635

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=159, 7=158.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 49 lb up at 1-0-0, 118 lb down and 43 lb up at 3-0-0, 118 lb down and 57 lb up at 5-0-0, 118 lb down and 57 lb up at 7-0-0, and 118 lb down and 43 lb up at 9-0-0, and 109 lb down and 47 lb up at 11-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 5-6=-60, 7-10=-20
 Concentrated Loads (lb)
 Vert: 12=-108(B) 13=-118(B) 14=-118(B) 15=-118(B) 16=-118(B) 17=-109(B)



October 5, 2022

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

Job	Truss	Truss Type	Qty	Ply	3293795	I54564456
MASTER	J01	JACK	2	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

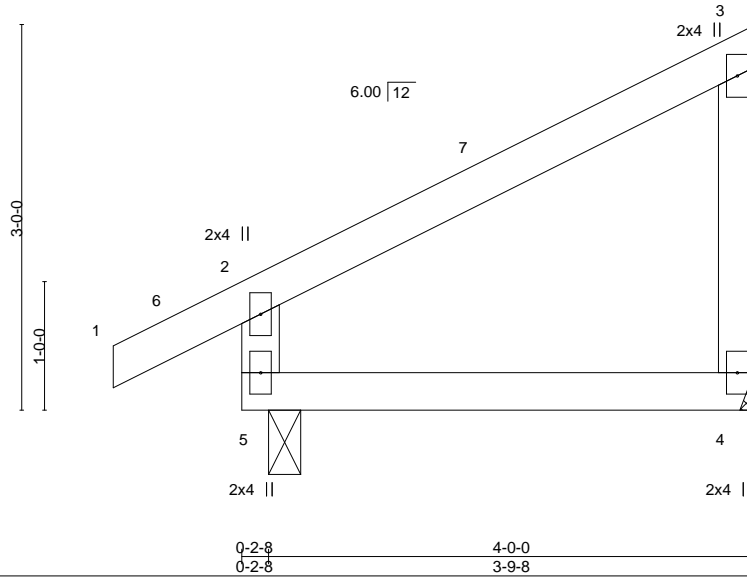
Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:36 2022 Page 1

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Scale = 1:17.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.01 4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.02 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01 4-5	>999	240	Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 3-4: 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.

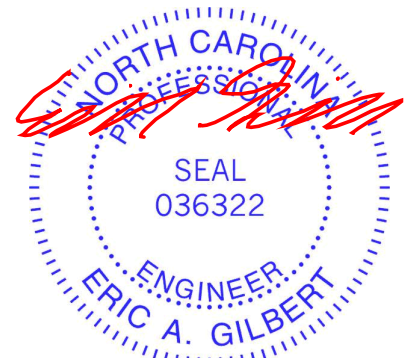
REACTIONS.

(size) 5=0-3-0, 4=Mechanical
 Max Horz 5=64(LC 12)
 Max Uplift 5=-4(LC 12), 4=-37(LC 12)
 Max Grav 5=228(LC 1), 4=138(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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 5, 4.



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

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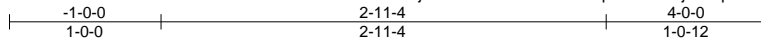
Job MASTER	Truss J02	Truss Type MONO HIP	Qty 2	Ply 1	3293795	I54564457
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:37 2022 Page 1

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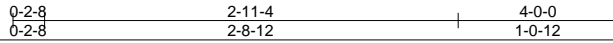
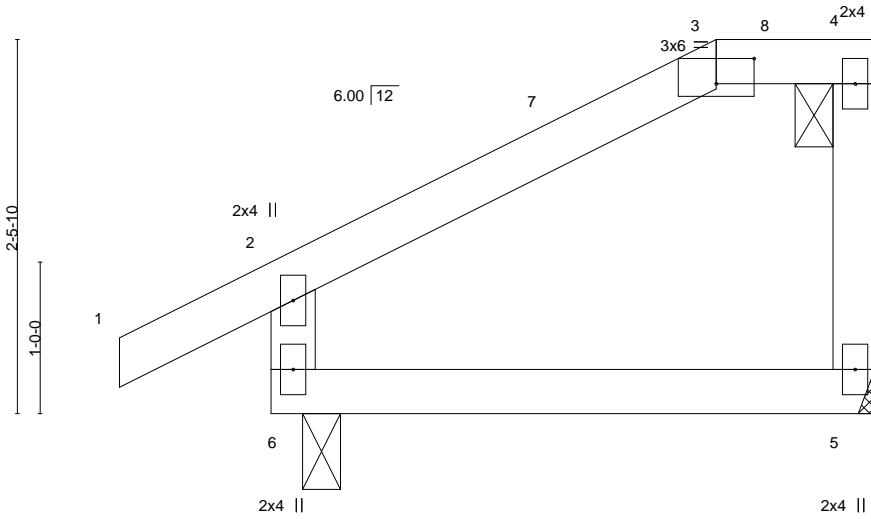


Plate Offsets (X, Y)-- [3:0-3:0,0-2:0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.01	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.02	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01	5-6	>999	Weight: 18 lb	FT = 20%

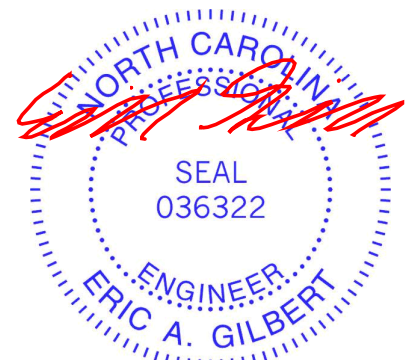
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (size) 6=0-3-0, 5=Mechanical
 Max Horz 6=51(LC 12)
 Max Uplift 6=-13(LC 12), 5=-23(LC 12)
 Max Grav 6=228(LC 1), 5=138(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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-11-4, Exterior(2) 2-11-4 to 3-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 5, 2022

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Job MASTER	Truss J03	Truss Type JACK	Qty 2	Ply 1	3293795	I54564458
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Builders FirstSource (Apex, NC),

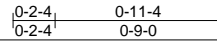
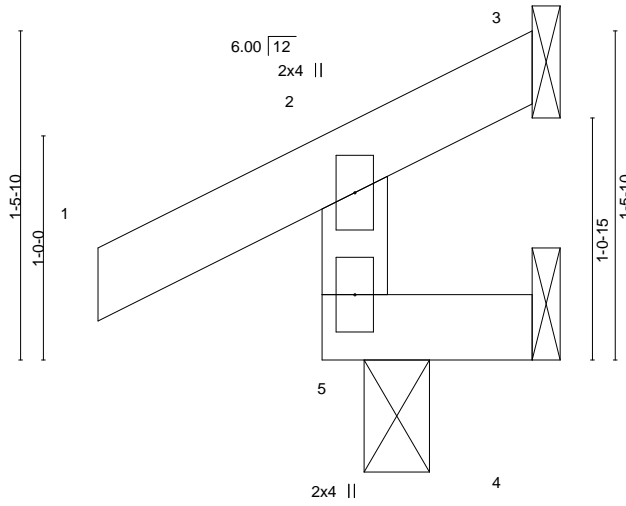
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8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:38 2022 Page 1

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Scale = 1:10.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL)	0.00	5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	0.00	5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Wind(LL)	0.00	5	>999		
	Code IRC2015/TPI2014						Weight: 6 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 0-11-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=28(LC 9)
 Max Uplift 5=-11(LC 12), 3=-16(LC 1), 4=-6(LC 9)
 Max Grav 5=150(LC 1), 3=3(LC 8), 4=11(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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, 3, 4.



October 5, 2022

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Job	Truss	Truss Type	Qty	Ply	3293795	I54564459
MASTER	J03GR	MONO HIP	2	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:38 2022 Page 1
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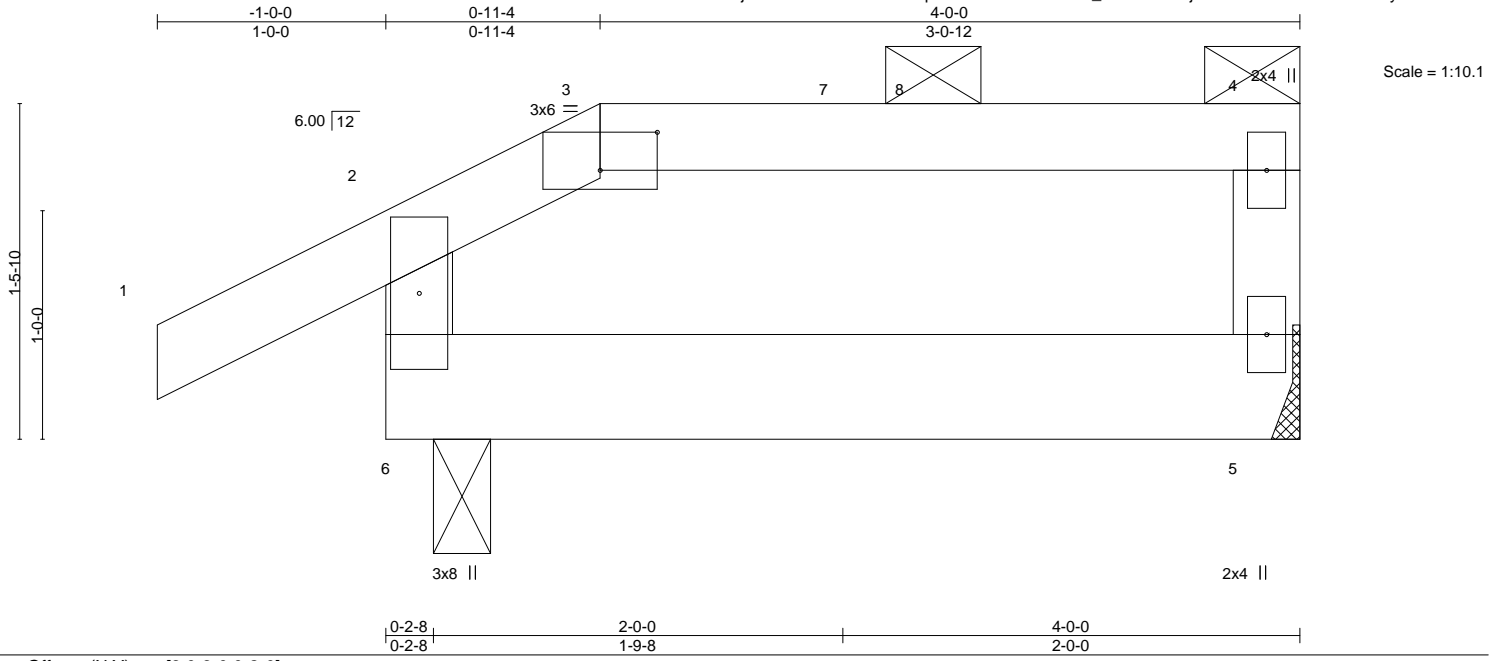


Plate Offsets (X, Y)--	[3:0-3-0,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.00	5-6	>999	240	Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

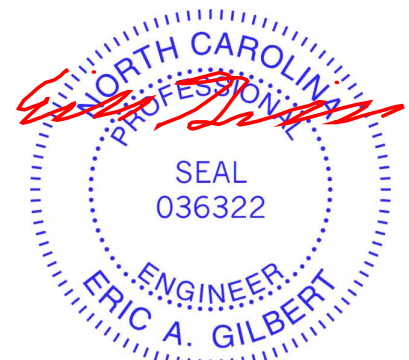
REACTIONS. (size) 6=0-3-0, 5=Mechanical
 Max Horz 6=27(LC 5)
 Max Uplift 6=-37(LC 8), 5=-29(LC 5)
 Max Grav 6=215(LC 1), 5=128(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb up at 2-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
 Concentrated Loads (lb)
 Vert: 7=27(B)



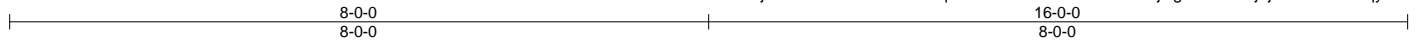
October 5, 2022

Job	Truss	Truss Type	Qty	Ply	3293795	154564460
MASTER	PB01G	GABLE	2	1	Job Reference (optional)	

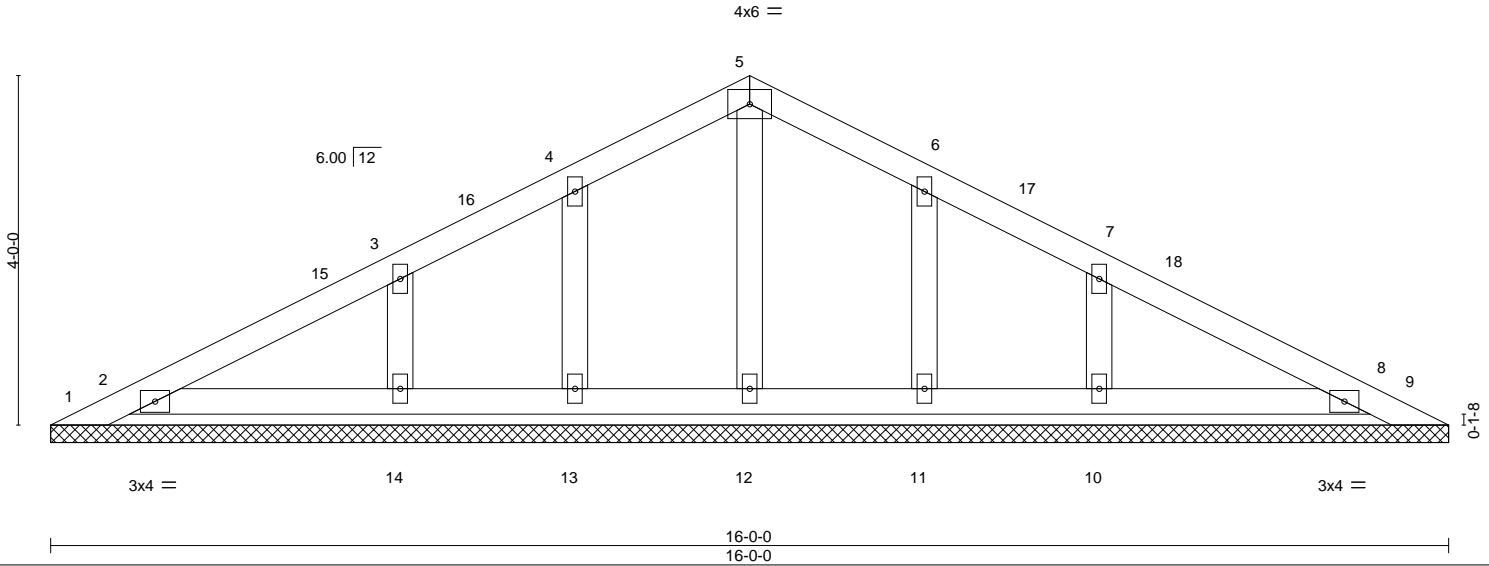
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Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:40 2022 Page 1
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Scale = 1:26.4



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 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 63 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 16-0-0.
 (lb) - Max Horz 1=51(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 12, 13, 14, 11, 10

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 8-0-0, Corner(3) 8-0-0 to 11-0-0, Exterior(2) 11-0-0 to 15-8-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 2, 8, 13, 14, 11, 10.
 - 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 5, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job MASTER	Truss PB02	Truss Type GABLE	Qty 19	Ply 1	3293795	154564461
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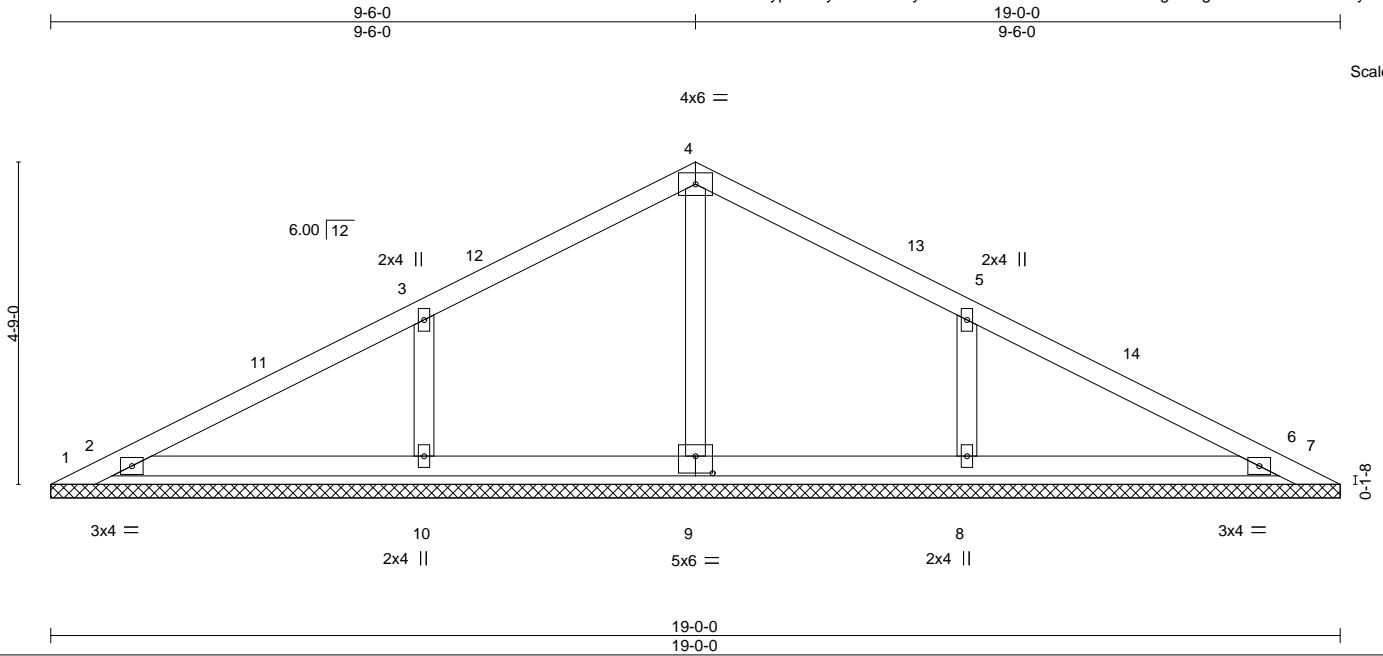
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:41 2022 Page 1

ID:zbkIr1dFypInNUy02maTGGyYVBm-bc4dABZ4HCzSNolaDsJg0NYgAS2HL3AenZSuTGyWV4K

Job Reference (optional)



Scale = 1:34.0

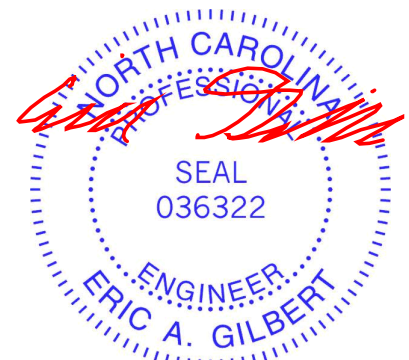
Plate Offsets (X,Y)--	[9:0-3-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.07	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 69 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 19-0-0.
 (lb) - Max Horz 1=61(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 8, 6 except 1=157(LC 1), 7=157(LC 1)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=389(LC 1), 9=257(LC 1), 10=380(LC 23), 8=380(LC 24), 6=389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-10=-283/177, 5-8=-283/177

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 9-6-0, Corner(3) 9-6-0 to 12-6-0, Exterior(2) 12-6-0 to 18-8-1 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 8, 6 except (jt=lb) 1=157, 7=157.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

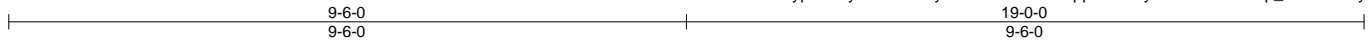


October 5, 2022

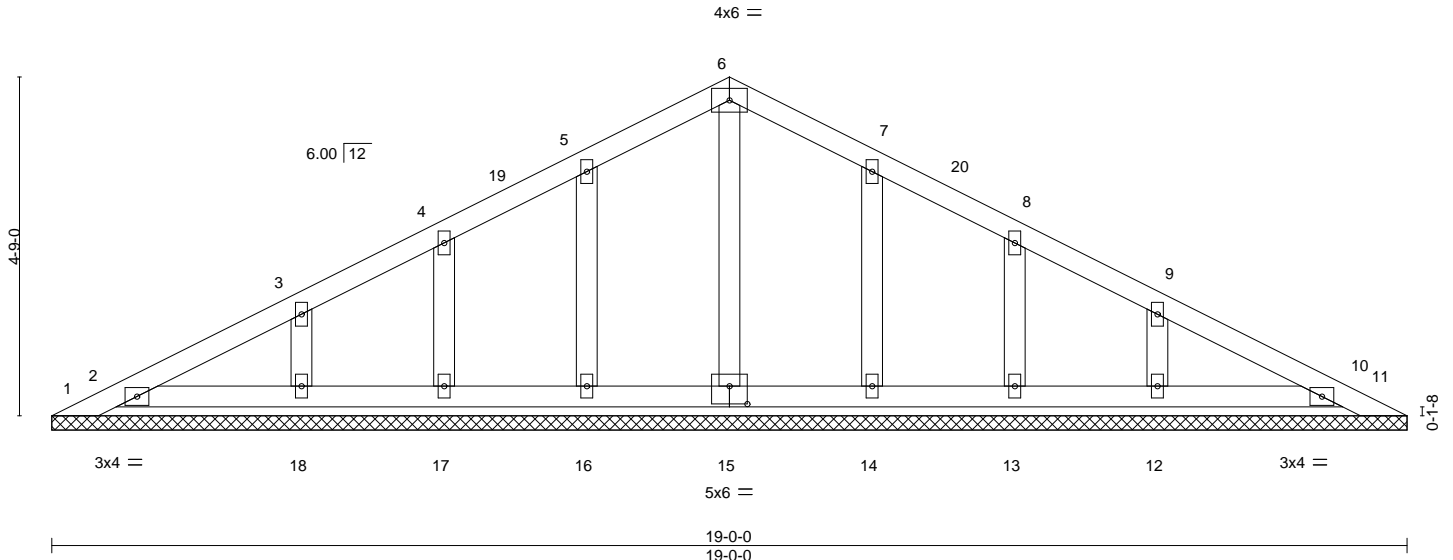
Job	Truss	Truss Type	Qty	Ply	3293795	154564462
MASTER	PB02G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:43 2022 Page 1

ID:zBklr1dFypInNUy02maTGGyYVbm-Y?CNbtbLppDAc5SyLGL85od3cGlbp_CxEtx?X8yWV4I



Scale: 3/8"=1'



Job MASTER	Truss PB03	Truss Type GABLE	Qty 5	Ply 1	3293795	I54564463
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Builders FirstSource (Apex, NC),

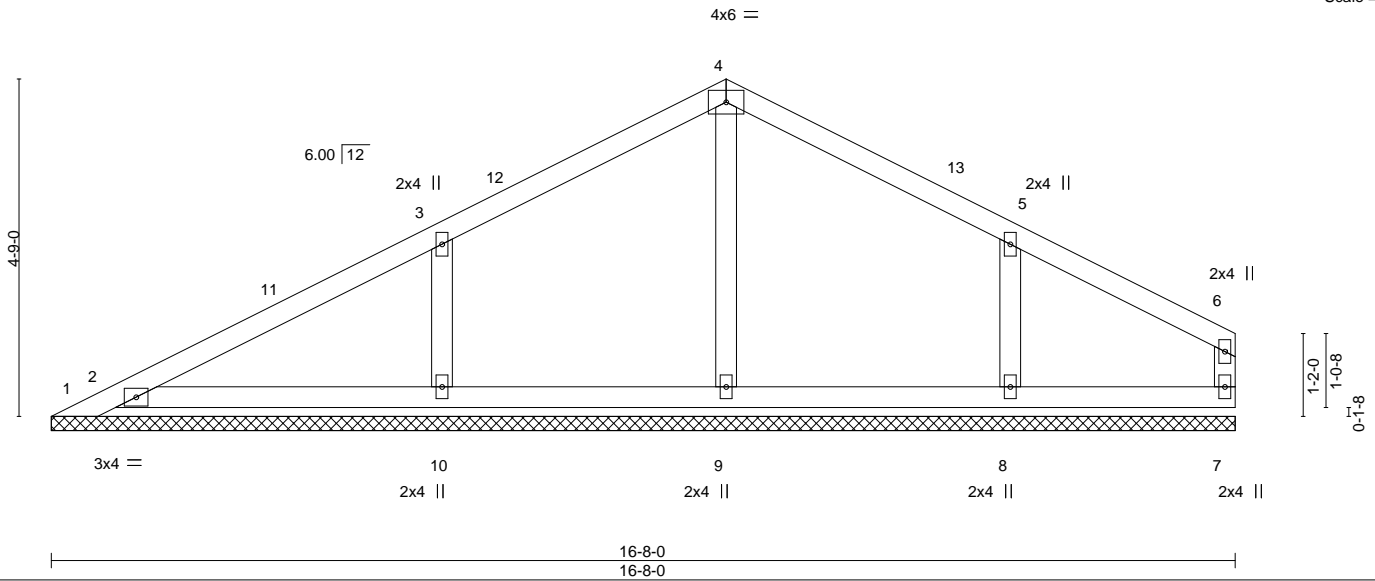
Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:44 2022 Page 1

ID:zblkr1dFyPlnNUy02maTGGyYVBm-0BmpDbza7L1EF19v_sNe0AARg32YQu5TXgY4byWV4H



Scale = 1:32.4



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 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.07	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 64 lb	FT = 20%

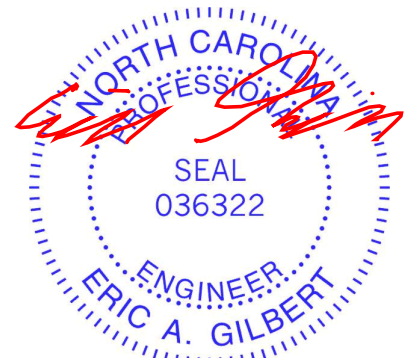
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 16-8-0.
 (lb) - Max Horz 1=68(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 10, 8 except 1=158(LC 1)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=392(LC 1), 9=267(LC 1), 10=378(LC 23), 8=327(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-10=282/182

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 9-6-0, Corner(3) 9-6-0 to 12-6-0, Exterior(2) 12-6-0 to 16-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 10, 8 except (jt=lb) 1=158.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 5, 2022

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

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

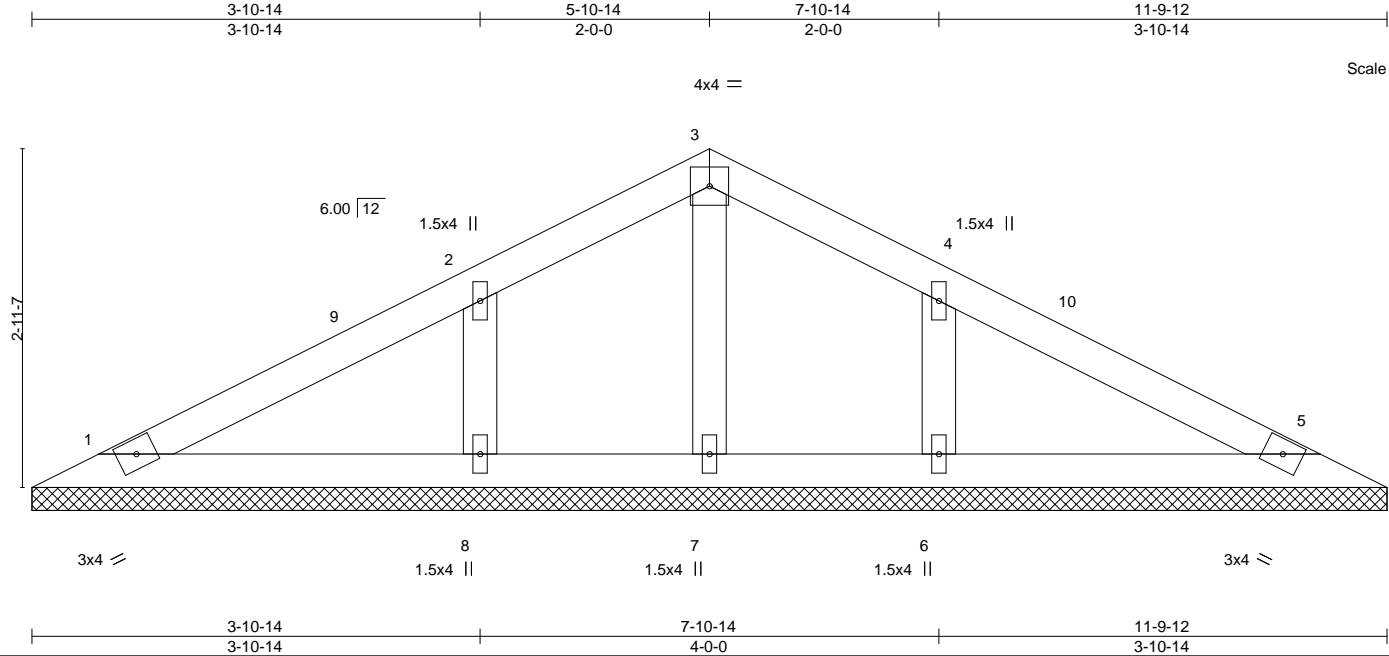


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	154564464
MASTER	V01	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:57:29 2022 Page 1
 ID:zbk1r1dFypInNUy02maTGgyYVbM-7YnrjsqRH9hMZcaCs4y8Tt2e0Sf9n7l1ma7pTyWUQK



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)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 43 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 WEBS 2x4 SP No.3
 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 11-9-12.
 (lb) - Max Horz 1=35(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 5, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=278(LC 1), 6=278(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; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-7 to 3-10-14, Interior(1) 3-10-14 to 5-10-14, Exterior(2) 5-10-14 to 8-10-14, Interior(1) 8-10-14 to 11-2-6 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) Gable requires continuous bottom chord bearing.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 8, 6.
 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.

LOAD CASE(S)
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 1-5=-20
 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-50, 3-5=-50, 1-5=-20
 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-20, 3-5=-20, 1-5=-40
 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=26, 2-3=13, 3-10=26, 5-10=13, 1-5=-12
 Horz: 1-2=-38, 2-3=-25, 3-10=38, 5-10=25



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	3293795	154564464
MASTER	V01	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:57:29 2022 Page 2
ID:zbkIr1dFypInNUy02maTGgyYVbM-7YnrjsqRH9hMZcaCs4y8Tt2e0Sf9n7Itma7pTyWUJQK

LOAD CASE(S)

- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-9=13, 3-9=26, 3-4=13, 4-5=26, 1-5=-12
Horz: 1-9=-25, 3-9=-38, 3-4=25, 4-5=38
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-33, 3-5=-33, 1-5=-20
Horz: 1-3=13, 3-5=13
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-33, 3-5=-33, 1-5=-20
Horz: 1-3=13, 3-5=13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-3, 3-5=7, 1-5=-12
Horz: 1-3=-9, 3-5=19
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=7, 3-5=-3, 1-5=-12
Horz: 1-3=19, 3-5=9
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-20, 3-5=-10, 1-5=-20
Horz: 1-3=-0, 3-5=10
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-10, 3-5=-20, 1-5=-20
Horz: 1-3=-10, 3-5=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=19, 3-5=5, 1-5=-12
Horz: 1-3=-31, 3-5=17
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=5, 3-5=19, 1-5=-12
Horz: 1-3=-17, 3-5=31
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=9, 3-5=2, 1-5=-12
Horz: 1-3=-21, 3-5=14
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=2, 3-5=9, 1-5=-12
Horz: 1-3=-14, 3-5=21
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=2, 3-5=-11, 1-5=-20
Horz: 1-3=-22, 3-5=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-11, 3-5=2, 1-5=-20
Horz: 1-3=-9, 3-5=22
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-5=-20, 1-5=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-50, 3-5=-43, 1-5=-20
Horz: 1-3=-0, 3-5=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-5=-50, 1-5=-20
Horz: 1-3=-7, 3-5=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-34, 3-5=-44, 1-5=-20
Horz: 1-3=-16, 3-5=6
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-44, 3-5=-34, 1-5=-20
Horz: 1-3=-6, 3-5=16
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-20, 1-5=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-5=-60, 1-5=-20

Continued on page 3

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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	I54564464
MASTER	V01	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:57:29 2022 Page 3
 ID:zbkIr1dFypInNUy02maTGgyYVbm-7YnrjsqRH9hMZcaCs4y8Tt2e0Sf9n7Itma7pTyWUQK

LOAD CASE(S)

- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-50, 3-5=-20, 1-5=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-20, 3-5=-50, 1-5=-20

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	154564465
MASTER	V02	VALLEY	1	1		

Builders FirstSource (Apex, NC),

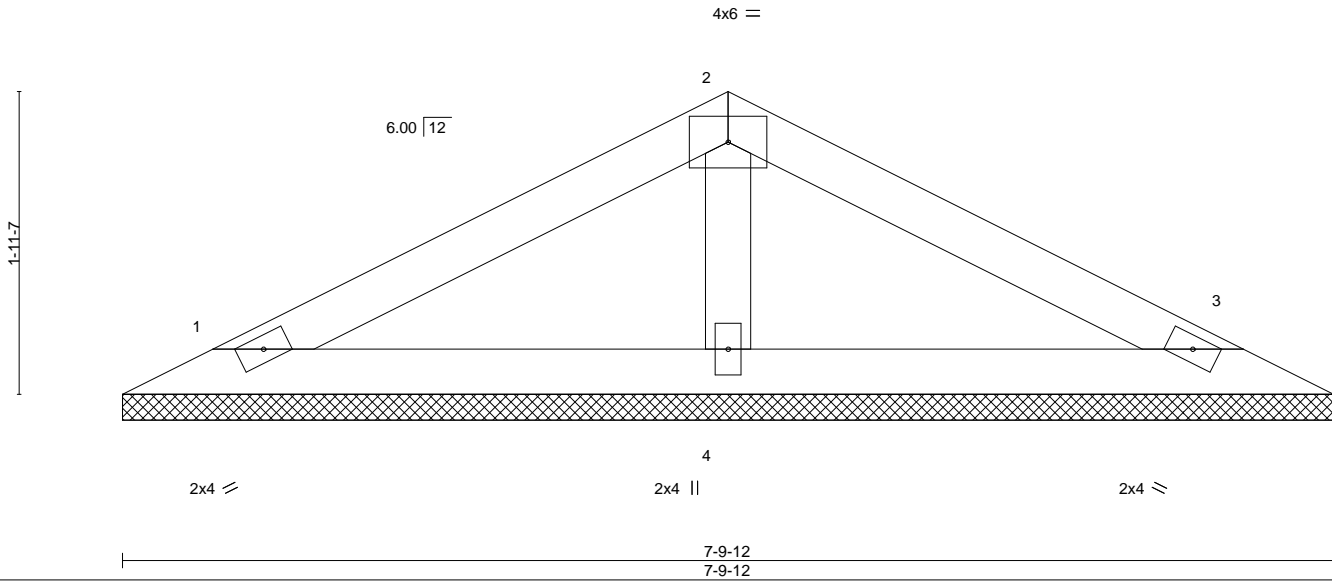
Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:46 2022 Page 1

ID:zbklr1dFyplnNUy02maTGGyYVBm-yauWEudD5kblTZAX0PvrjRFXOTID0LxOwr9f8TyWV4F



Scale = 1:14.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 25 lb	FT = 20%
	Code IRC2015/TPI2014							

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

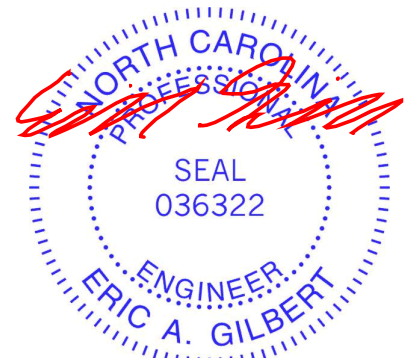
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-9-12, 3=7-9-12, 4=7-9-12
 Max Horz 1=22(LC 12)
 Max Uplift 1=-12(LC 12), 3=-16(LC 13)
 Max Grav 1=121(LC 23), 3=121(LC 24), 4=288(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; TC DL=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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 5, 2022

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

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

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



818 Soundside Road
 Edenton, NC 27932

Job MASTER	Truss V03	Truss Type VALLEY	Qty 1	Ply 1	3293795	154564466
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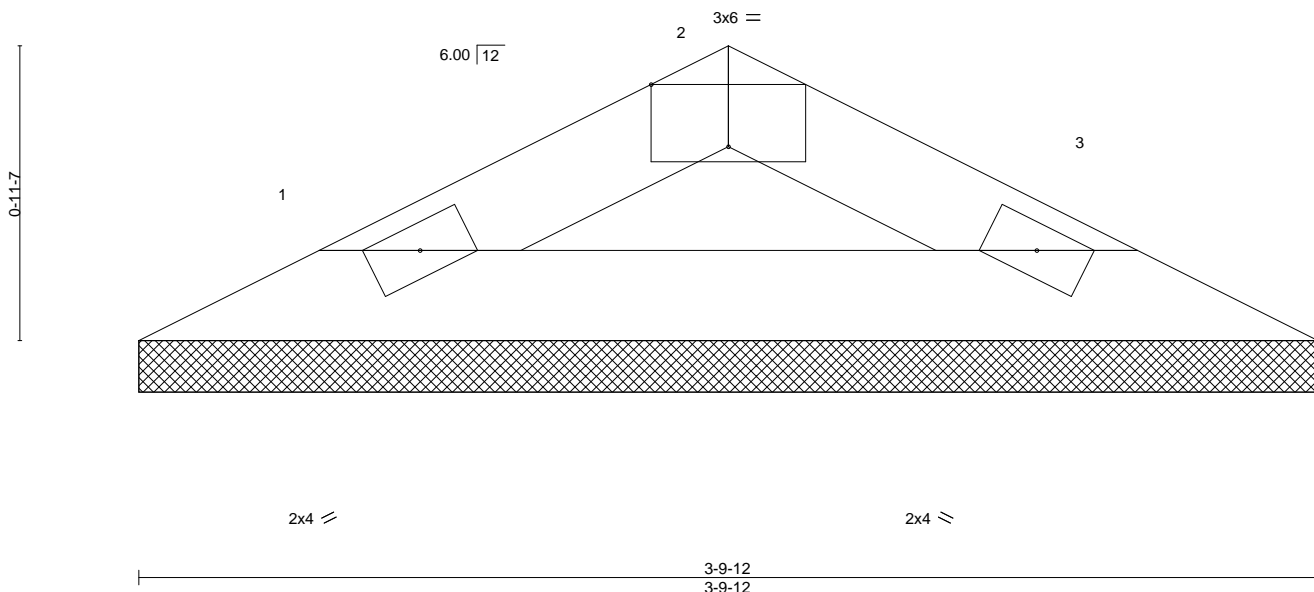
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:46 2022 Page 1

ID:zbnk1r1dFypInNUy02maTGGyYVBm-yauWEudD5kbITZAX0PvrjRFaVTiz0LXOwr9f8TyWV4F



Scale = 1:7.5



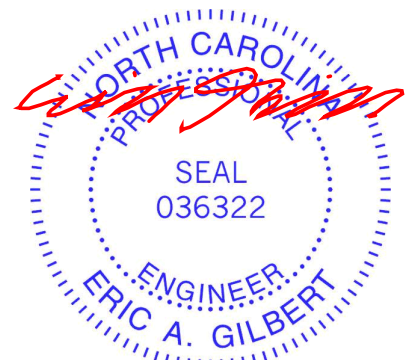
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 10 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-9-12, 3=3-9-12
 Max Horz 1=9(LC 16)
 Max Uplift 1=3(LC 12), 3=3(LC 13)
 Max Grav 1=103(LC 1), 3=103(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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



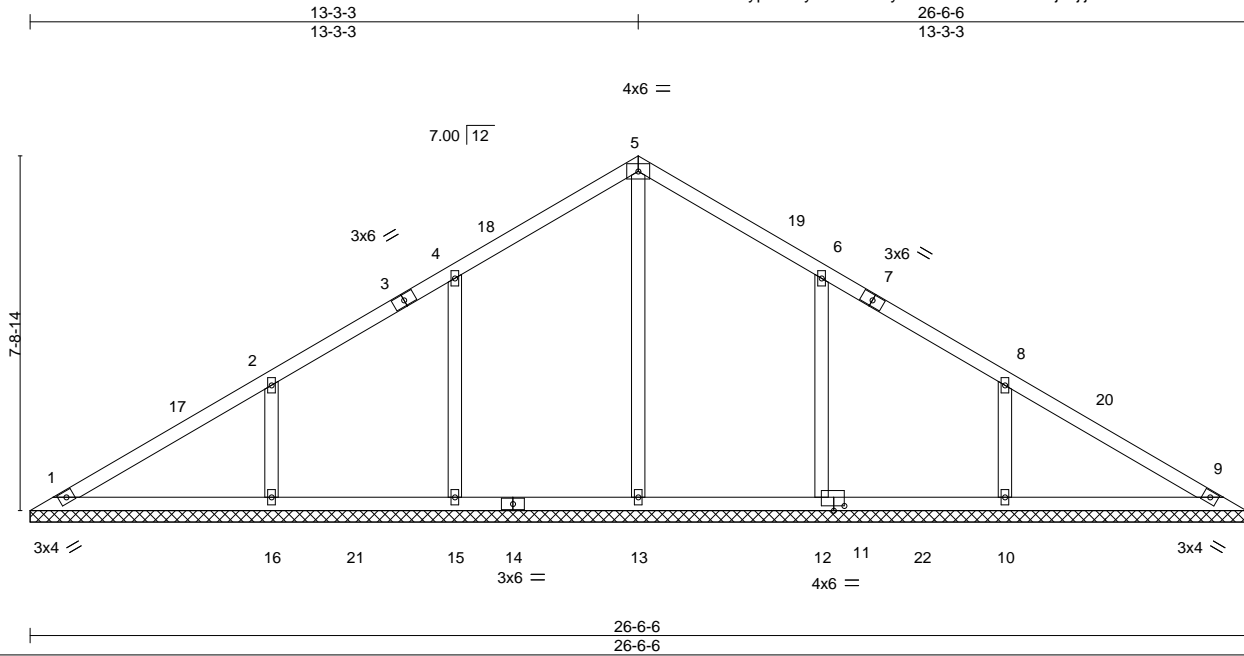
October 5, 2022

Job	Truss	Truss Type	Qty	Ply	3293795	I54564467
MASTER	V04	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:47 2022 Page 1
 ID:zbnk1r1dFypInNUy02maTGGyYVbM-QmSuREers2jc5jja6Q4FeoeYt3dlIZX9VvDhwyWV4E



Scale = 1:50.3

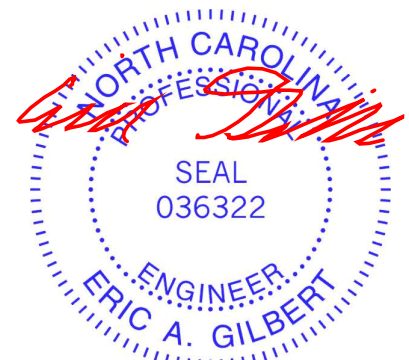
Plate Offsets (X,Y)--	[12:0-2-12,0-1-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.00 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 116 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 26-6-6.
 (lb) - Max Horz 1=-146(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 16, 12, 10
 Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 13=392(LC 22), 15=429(LC 19), 16=420(LC 19), 12=421(LC 20), 10=420(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-16=-297/139, 8-10=-297/139

- 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 13-3-3, Exterior(2) 13-3-3 to 16-3-3, Interior(1) 16-3-3 to 25-11-14 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 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) 1, 15, 16, 12, 10.



October 5, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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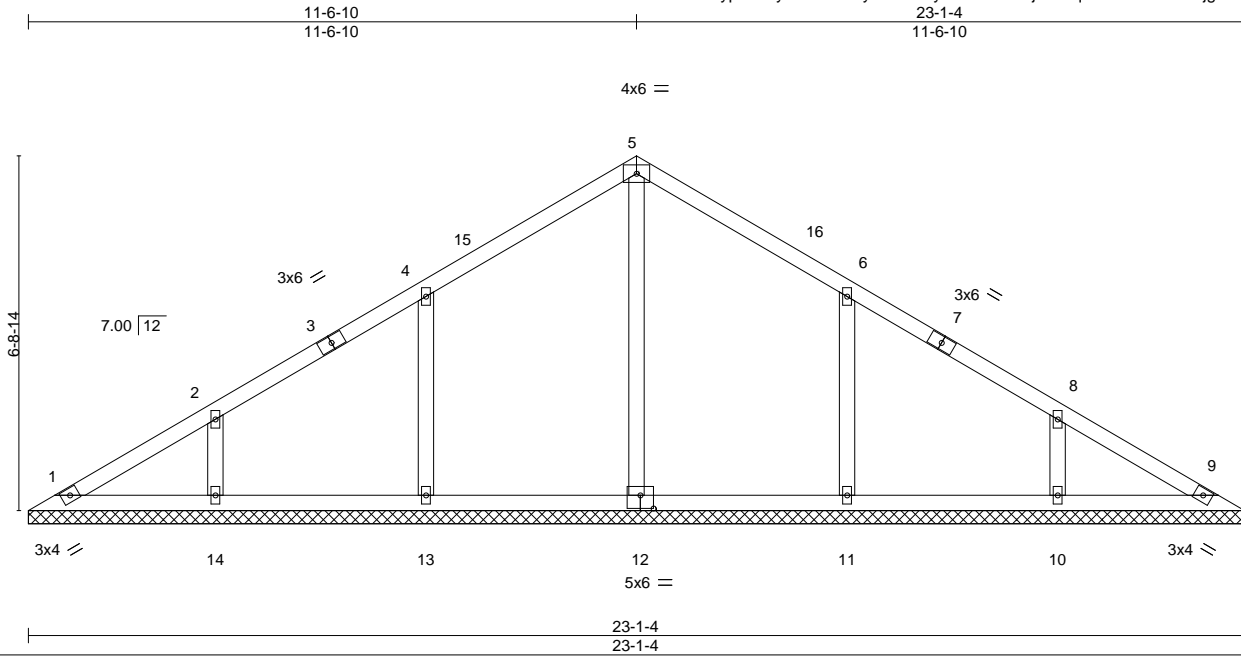
Job	Truss	Truss Type	Qty	Ply	3293795	I54564468
MASTER	V05	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:48 2022 Page 1

ID:zblkr1dFyplnNUy02maTGgyYVBm-uy0GeafTdLrTjtKw8qxJosLrCHNXUDJgO9emDMYVW4D



Scale = 1:43.8

Plate Offsets (X,Y)--	[12:0-3-0-0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 98 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 23-1-4.
 (lb) - Max Horz 1=-127(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 12=389(LC 19), 13=407(LC 19), 14=307(LC 1), 11=400(LC 20), 10=307(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-13=-265/128, 6-11=-265/128

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) 0-6-8 to 3-6-10, Interior(1) 3-6-10 to 11-6-10, Exterior(2) 11-6-10 to 14-6-10, Interior(1) 14-6-10 to 22-6-12 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
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 14, 11, 10.

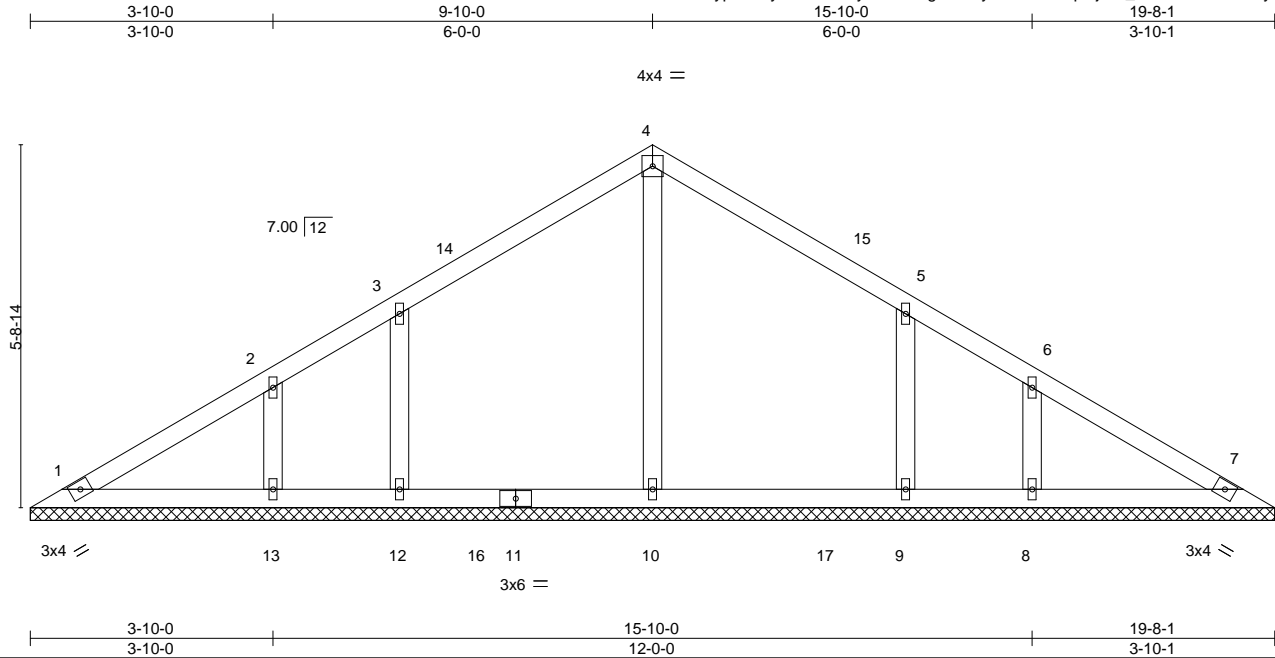


October 5, 2022

Job	Truss	Truss Type	Qty	Ply	3293795	I54564469
MASTER	V06	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

ID:zbnk1rdFypInNUy02maTGGyYVBm-ng5fxObySVdQclvJ2pOjCm_obPwuPGYaM3LyWJyWUPL
8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:58:32 2022 Page 1



Scale = 1:36.4

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 0.29	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 83 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
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 19-8-1.
(lb) - Max Horz 1=-107(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 9, 13, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 13, 8 except 10=392(LC 19), 12=286(LC 19), 9=286(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=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) 0-6-8 to 3-10-0, Interior(1) 3-10-0 to 9-10-0, Exterior(2) 9-10-0 to 12-10-0, Interior(1) 12-10-0 to 19-1-9 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
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 9, 13, 8.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- LOAD CASE(S)**
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 1-7=-20
 - Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-50, 1-16=-20, 16-17=-50, 7-17=-20
 - Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 1-7=-40
 - Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



October 5, 2022

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	3293795	I54564469
MASTER	V06	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:58:32 2022 Page 2
 ID:zbklr1dFypInNUy02maTGGyYVBm-ng5fxObySVdQcIvJ2pOjCm_obPwuPGYam3LyWJyWJPL

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 1-2=17, 2-4=12, 4-15=17, 7-15=12, 1-7=-12
 - Horz: 1-2=-29, 2-4=-24, 4-15=29, 7-15=24
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-14=12, 4-14=17, 4-6=12, 6-7=17, 1-7=-12
 - Horz: 1-14=-24, 4-14=-29, 4-6=24, 6-7=29
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=-44, 4-7=-44, 1-7=-20
 - Horz: 1-4=24, 4-7=-24
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=-44, 4-7=-44, 1-7=-20
 - Horz: 1-4=24, 4-7=-24
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=-14, 4-7=5, 1-7=-12
 - Horz: 1-4=2, 4-7=17
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=5, 4-7=-14, 1-7=-12
 - Horz: 1-4=-17, 4-7=-2
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=-31, 4-7=-11, 1-7=-20
 - Horz: 1-4=11, 4-7=9
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=-11, 4-7=-31, 1-7=-20
 - Horz: 1-4=-9, 4-7=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=19, 4-7=5, 1-7=-12
 - Horz: 1-4=-31, 4-7=17
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=5, 4-7=19, 1-7=-12
 - Horz: 1-4=-17, 4-7=31
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=9, 4-7=2, 1-7=-12
 - Horz: 1-4=-21, 4-7=14
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=2, 4-7=9, 1-7=-12
 - Horz: 1-4=-14, 4-7=21
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=2, 4-7=-11, 1-7=-20
 - Horz: 1-4=-22, 4-7=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-4=-11, 4-7=2, 1-7=-20
 - Horz: 1-4=-9, 4-7=22
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-4=-20, 4-7=-20, 1-16=-20, 16-17=-60, 7-17=-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: 1-4=-58, 4-7=-44, 1-16=-20, 16-17=-50, 7-17=-20
 - Horz: 1-4=8, 4-7=6
- 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: 1-4=-44, 4-7=-58, 1-16=-20, 16-17=-50, 7-17=-20
 - Horz: 1-4=-6, 4-7=-8
- 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: 1-4=-34, 4-7=-44, 1-16=-20, 16-17=-50, 7-17=-20
 - Horz: 1-4=-16, 4-7=6
- 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

Continued on page 3

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3293795	I54564469
MASTER	V06	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.530 s May 26 2022 MiTek Industries, Inc. Wed Oct 5 10:58:32 2022 Page 3
 ID:zbnklr1dFypInNUy02maTGGyYVBm-ng5fxObySVdQclvJ2pOjCm_obPwuPGYaM3LyWJyWUPL

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-4=-44, 4-7=-34, 1-16=-20, 16-17=-50, 7-17=-20

Horz: 1-4=-6, 4-7=16

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-20, 1-7=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-60, 1-7=-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: 1-4=-50, 4-7=-20, 1-16=-20, 16-17=-50, 7-17=-20

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: 1-4=-20, 4-7=-50, 1-16=-20, 16-17=-50, 7-17=-20

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

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818 Soundside Road
 Edenton, NC 27932

Job MASTER	Truss V07	Truss Type GABLE	Qty 1	Ply 1	3293795	154564470
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:50 2022 Page 1

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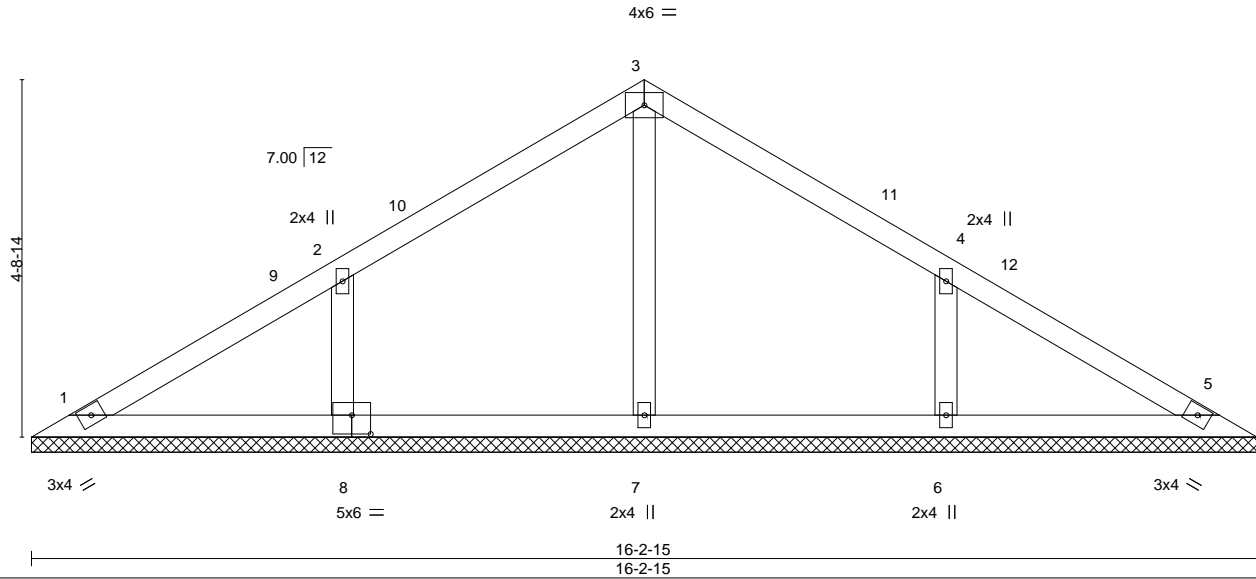


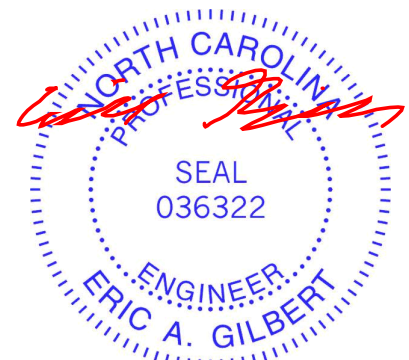
Plate Offsets (X,Y)--	[8:0-3-0,0-3-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	n/a	-	n/a 999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 62 lb
							FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 16-2-15.
 (lb) - Max Horz 1=87(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=260(LC 1), 8=354(LC 19), 6=363(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-264/125, 4-6=-272/129

- 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 8-1-7, Exterior(2) 8-1-7 to 11-1-7, Interior(1) 11-1-7 to 15-8-7 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.



October 5, 2022

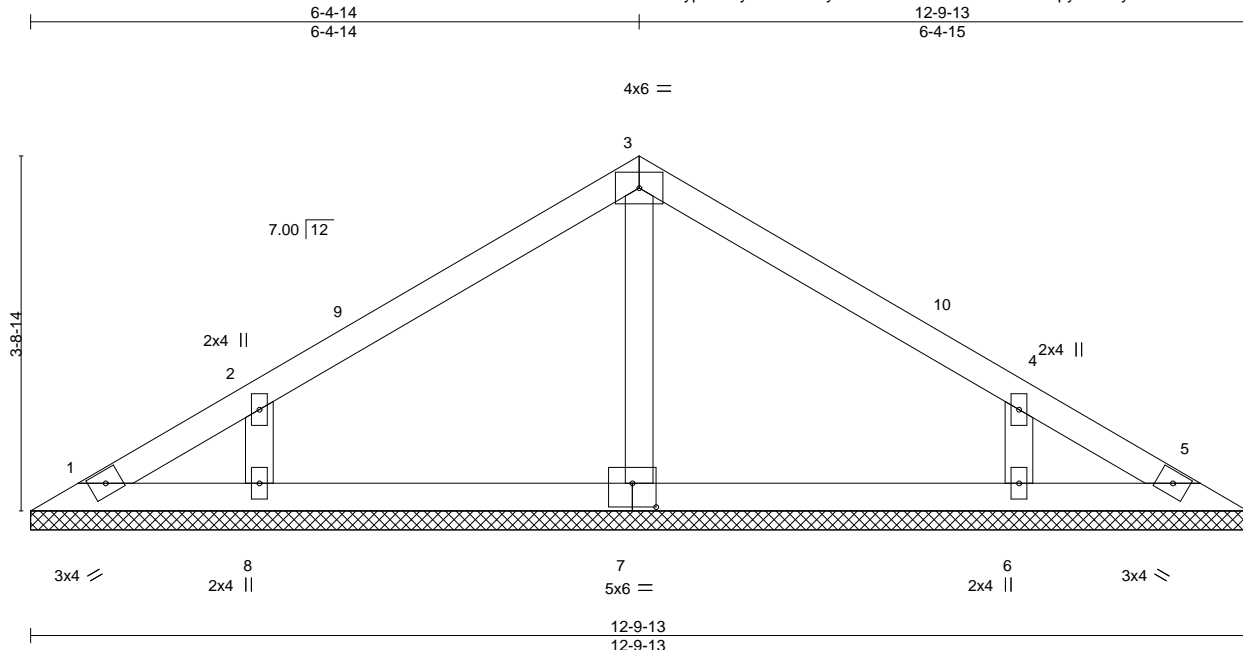
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTER	Truss V08	Truss Type GABLE	Qty 1	Ply 1	3293795	I54564471
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:51 2022 Page 1
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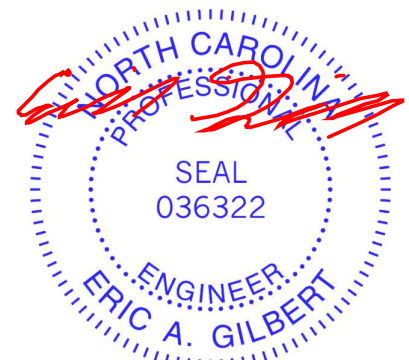
Plate Offsets (X,Y)--	[7:0-3-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 47 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 12-9-13.
 (lb) - Max Horz 1=68(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=279(LC 1), 8=296(LC 19), 6=299(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-4-14, Exterior(2) 6-4-14 to 9-4-14, Interior(1) 9-4-14 to 12-3-5 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.



October 5, 2022

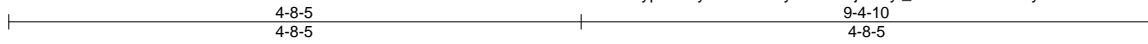
Job	Truss	Truss Type	Qty	Ply	3293795	I54564472
MASTER	V09	GABLE	1	1		

Builders FirstSource (Apex, NC),

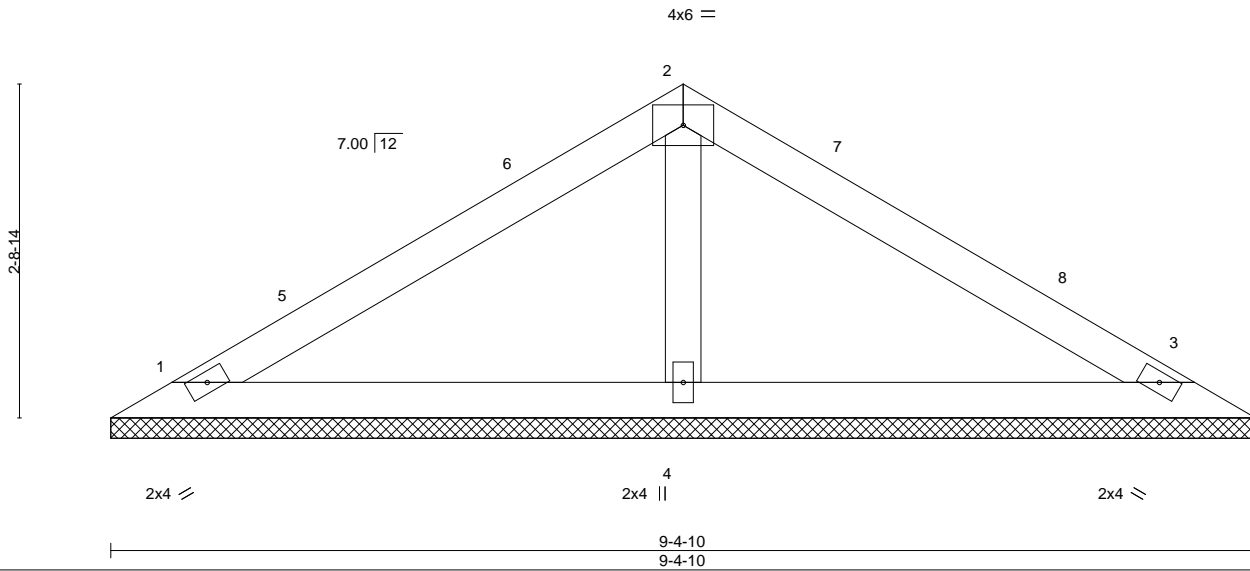
Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:52 2022 Page 1

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Scale = 1:18.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.29	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 32 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 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. (size) 1=9-4-10, 3=9-4-10, 4=9-4-10
 Max Horz 1=48(LC 8)
 Max Uplift 1=15(LC 12), 3=22(LC 13)
 Max Grav 1=156(LC 23), 3=156(LC 24), 4=352(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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-8-5, Exterior(2) 4-8-5 to 7-8-5, Interior(1) 7-8-5 to 8-10-2 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 5, 2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



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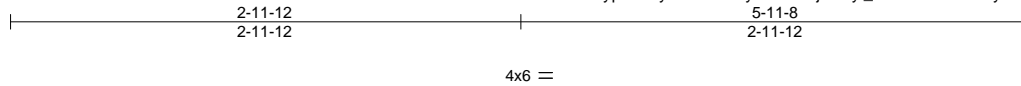
Job	Truss	Truss Type	Qty	Ply	3293795	154564473
MASTER	V10	GABLE	1	1		

Builders FirstSource (Apex, NC),

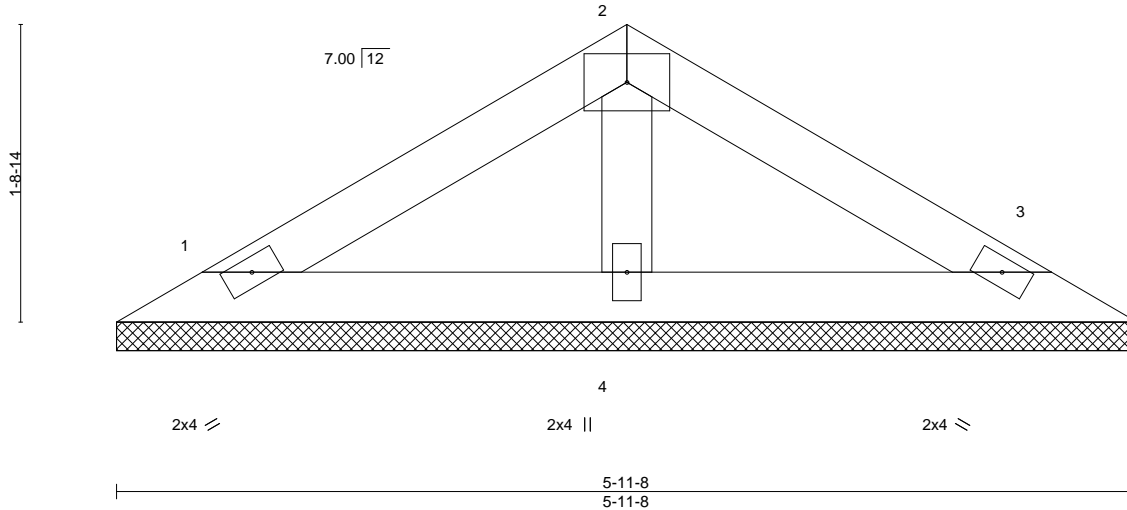
Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:52 2022 Page 1

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Scale = 1:13.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 19 lb	FT = 20%
	Code IRC2015/TPI2014							

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

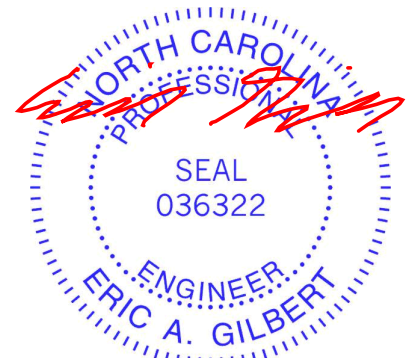
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-11-8, 3=5-11-8, 4=5-11-8
 Max Horz 1=-28(LC 8)
 Max Uplift 1=-13(LC 12), 3=-16(LC 13)
 Max Grav 1=101(LC 1), 3=101(LC 1), 4=188(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; TC DL=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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 5, 2022

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 Edenton, NC 27932

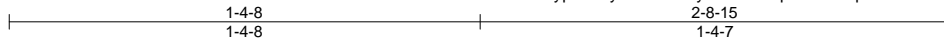
Job MASTER	Truss V11	Truss Type GABLE	Qty 1	Ply 1	3293795	154564474
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 5 10:12:53 2022 Page 1

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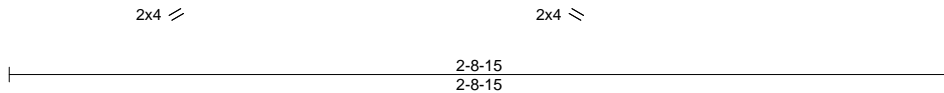
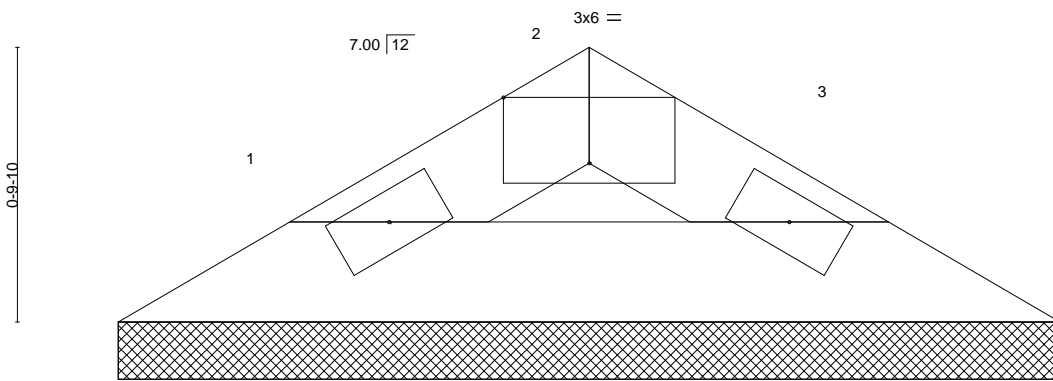


Plate Offsets (X,Y)-- [2:0-3-0,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-8-15, 3=2-8-15
Max Horz 1=-10(LC 8)
Max Uplift 1=-2(LC 12), 3=-2(LC 13)
Max Grav 1=67(LC 1), 3=67(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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 5, 2022

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



818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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