

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 18101894
Lot-72-CLK/2317-Jasper-A2/RF

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I34930338 thru I34930359

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844



October 10, 2018

Johnson, Andrew

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

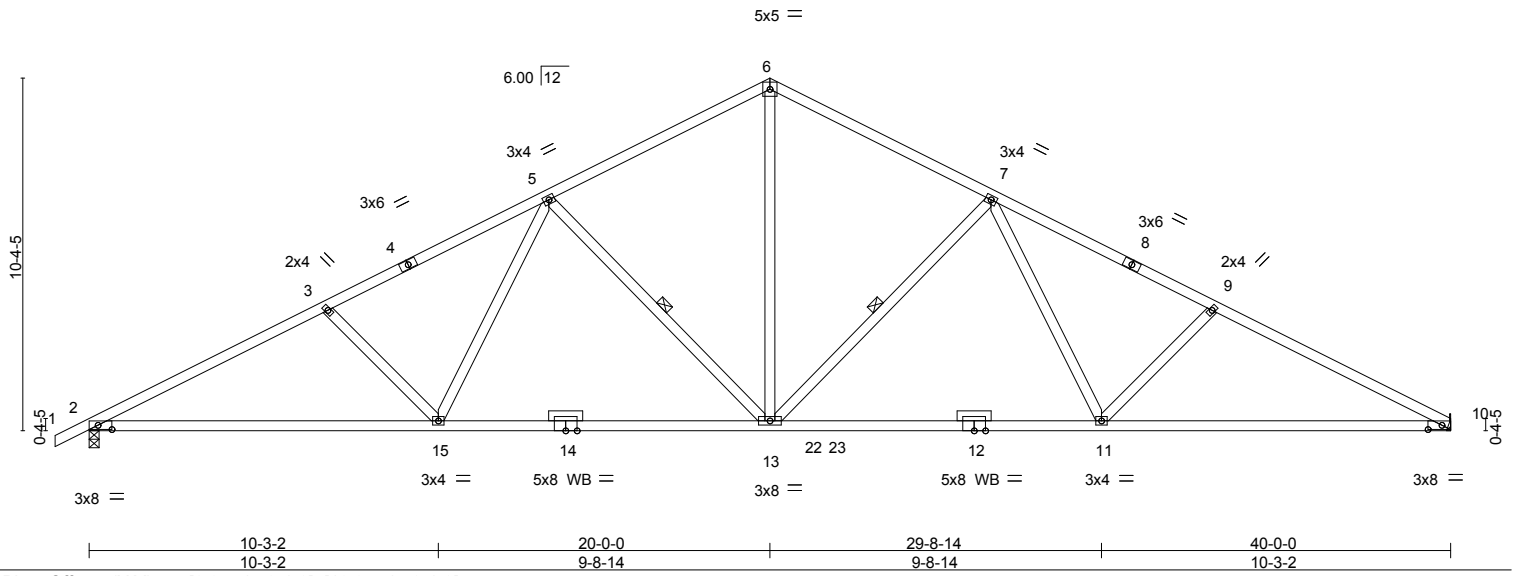
Job 18101894	Truss A	Truss Type COMMON TRUSS	Qty 12	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930338
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:01 2018 Page 1
 ID:PVc7jxLhoWfMyyvzbNFxcRyyo1P-YRHncihg0ovSciEgM?vTdwTwnZuNZrRw53cJXyUs34



Scale = 1:67.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.41 13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(TL)	-0.78 13-15	>617	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(TL)	0.16 10	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007		Matrix-AS					Weight: 208 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1 *Except* 12-14: 2x4 SP DSS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-13, 5-13
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 2=1660/0-3-8, 10=1600/Mechanical
 Max Horz 2=150(LC 10)
 Max Uplift 2=-165(LC 10), 10=-148(LC 11)
 Max Grav 2=1732(LC 2), 10=1681(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3182/588, 3-5=-2955/559, 5-6=-2133/476, 6-7=-2133/476, 7-9=-2957/560,
 9-10=-3184/590
 BOT CHORD 2-15=-448/2777, 13-15=-288/2325, 11-13=-289/2326, 10-11=-450/2780
 WEBS 6-13=-261/1531, 7-13=-716/247, 7-11=-51/598, 9-11=-359/201, 5-13=-715/247,
 5-15=-50/596, 3-15=-357/200

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 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) except (jt=lb) 2=165, 10=148.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

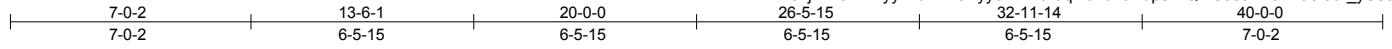


October 10, 2018

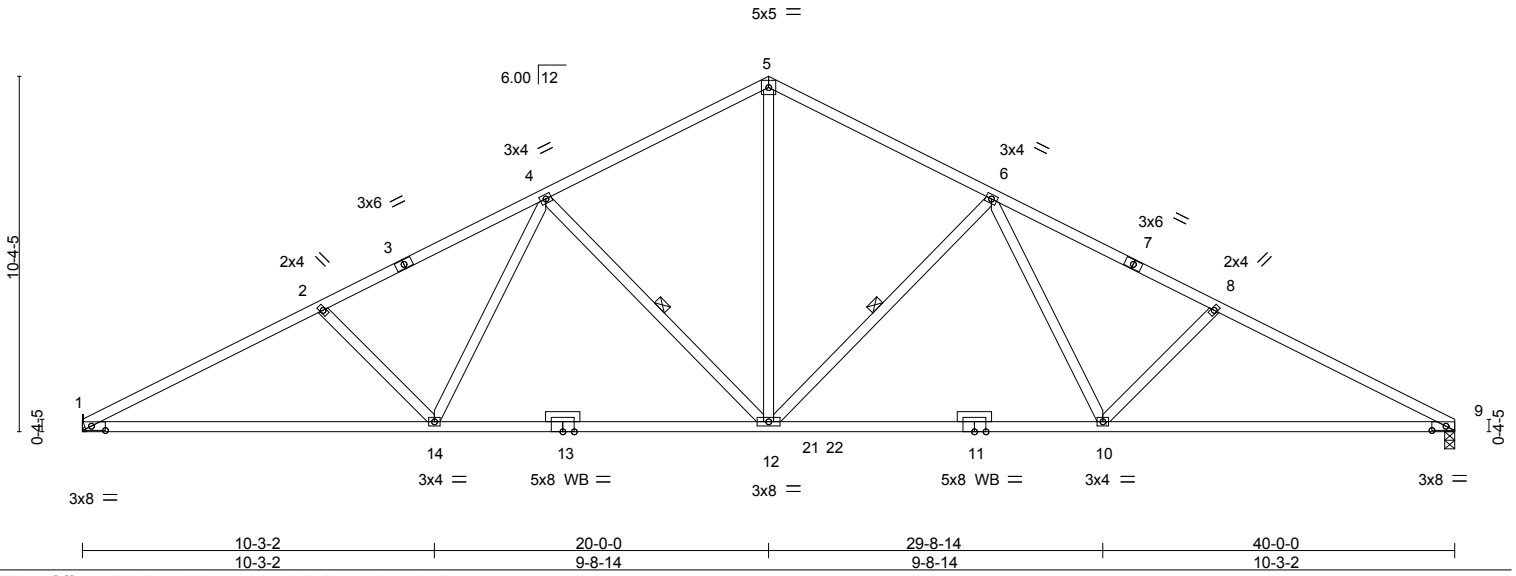
Job 18101894	Truss A1	Truss Type COMMON TRUSS	Qty 3	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930339
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:02 2018 Page 1
 ID:PVc7jxLhoWfMyvzbNFxcRyyo1P-1dr9q2iJn61JEupswiQIA805azEcllDa8lo9r_yUs33



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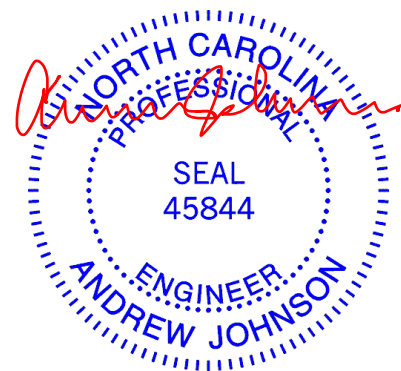
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.41 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(TL)	-0.78 12-14	>618	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(TL)	0.16 9	n/a	n/a		
BCDL 10.0	Code IRC2012/TP12007		Matrix-AS					Weight: 206 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1 *Except* 11-13: 2x4 SP DSS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-12, 4-12
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 1=1600/Mechanical, 9=1600/0-3-8
 Max Horz 1=-137(LC 15)
 Max Uplift 1=-148(LC 10), 9=-148(LC 11)
 Max Grav 1=1682(LC 2), 9=1682(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3185/590, 2-4=-2957/560, 4-5=-2134/476, 5-6=-2134/476, 6-8=-2957/560,
 8-9=-3185/590
 BOT CHORD 1-14=-450/2780, 12-14=-289/2326, 10-12=-289/2326, 9-10=-450/2780
 WEBS 5-12=-262/1532, 6-12=-716/247, 6-10=-51/598, 8-10=-359/201, 4-12=-716/247,
 4-14=-51/598, 2-14=-359/201

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 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) except (jt=lb) 1=148, 9=148.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



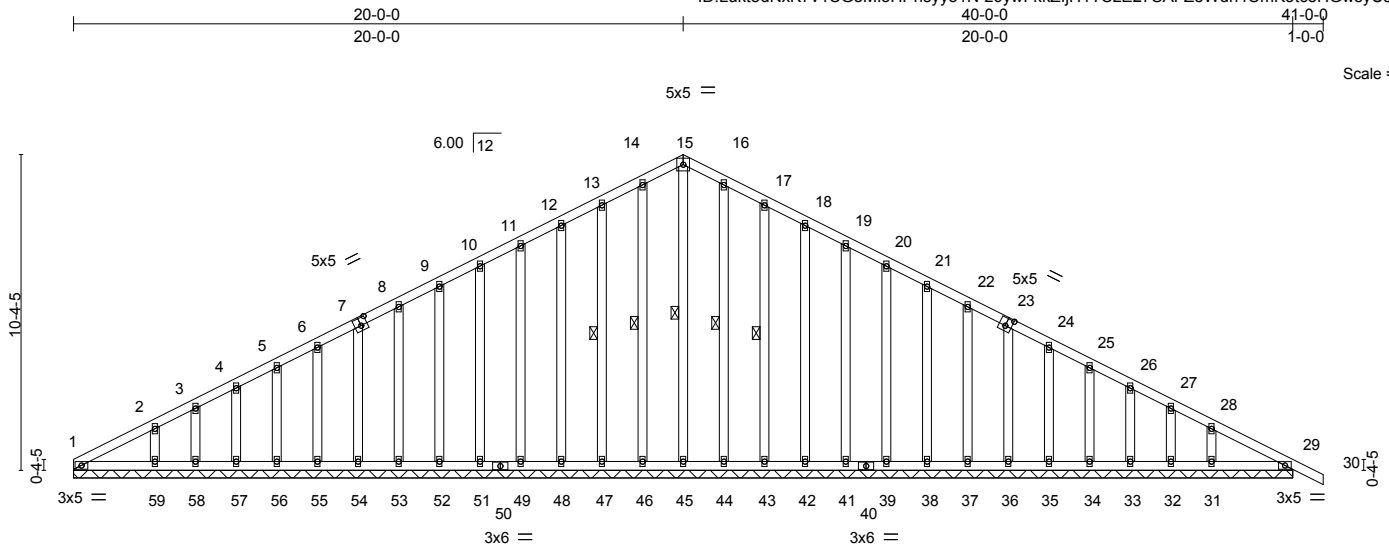
October 10, 2018

Job 18101894	Truss A1GE	Truss Type GABLE	Qty 2	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930340
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:04 2018 Page 1
 ID:Lukt8dNxK7v4CG3MioHPhsyyo1N-z0ywFkkZljH1TCzE27SAFZ5Wdn4CmK3t3HGwsyUs31

Job Reference (optional)



Scale = 1:75.6

Plate Offsets (X,Y)--	[7:0-2-8.0-3-0], [23:0-2-8.0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.00	29	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(TL)	0.00	29	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(TL)	0.01	29	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S							
								Weight: 342 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	WEBS 1 Row at midpt 15-45, 14-46, 13-47, 16-44, 17-43

REACTIONS. All bearings 40-0-0.
 (lb) - Max Horz 1=-149(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31
 Max Grav All reactions 250 lb or less at joint(s) 1, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31, 29

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 14-15=-91/251, 15-16=-91/251

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 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 with a clearance greater than 6-0-0 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, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31.



October 10, 2018

Job 18101894	Truss B	Truss Type Common Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930341
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:05 2018 Page 1
ID:Fja9h?rEETweBLVIU6SbS?z3kws-RCWIS4kB31Pu5MYRbrzPomefKBGEVlr1qj1pSlyUs30



4x4 =

Scale = 1:50.2

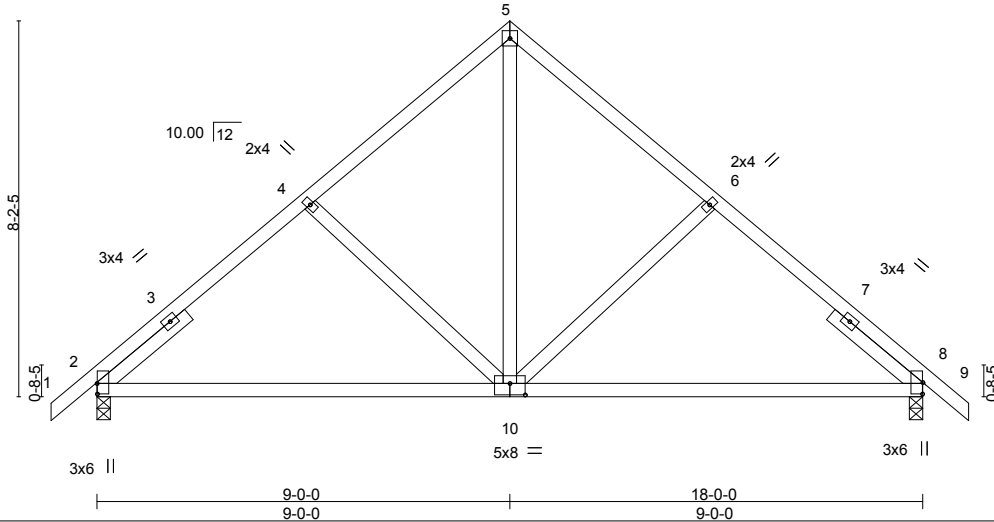


Plate Offsets (X,Y)--	[2:0-2-12,0-0-1], [8:0-3-0,0-0-1], [10:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.09	10-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(TL)	-0.23	10-17	>942		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(TL)	0.01	2	n/a		
BCDL 10.0	Code IRC2012/TP12007		Matrix-AS						
								Weight: 102 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=780/0-3-8, 8=780/0-3-8
Max Horz 2=169(LC 9)
Max Uplift 2=-68(LC 10), 8=-68(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-716/145, 4-5=-656/157, 5-6=-656/157, 6-8=-716/145
BOT CHORD 2-10=-86/626, 8-10=-14/590
WEBS 5-10=-96/510

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; 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=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

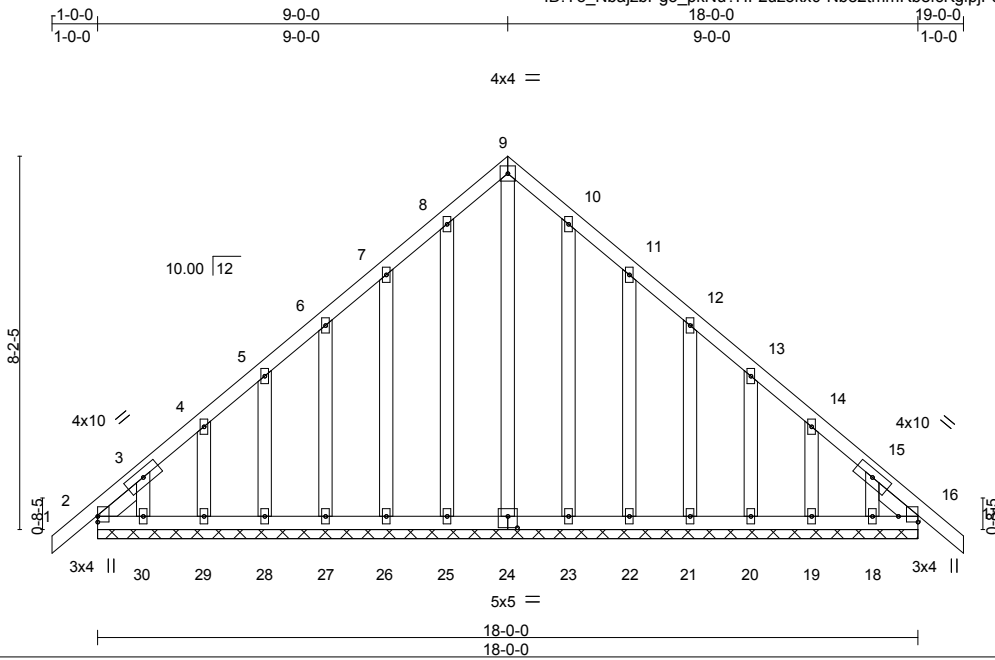


October 10, 2018

Job 18101894	Truss BGE	Truss Type GABLE	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930342
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:07 2018 Page 1
ID:Yo_NbajzbPg3_pkNu?HF2uz3kx0-Nbe2tmmRbfcKgpjF0ttBj14_6BzgyJ1WwXByUs3_



Scale = 1:50.6

Plate Offsets (X,Y)--	[16:Edge,0-5-3], [24:0-2-8,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 17 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) -0.00 17 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(TL) 0.00 16 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S		Weight: 148 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.2 1-1-8, Right 2x4 SP No.2 1-1-8

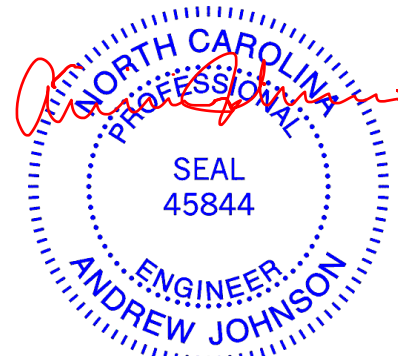
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-0-0.
(lb) - Max Horz 2=-169(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18

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 (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; 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=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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 with a clearance greater than 6-0-0 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) 2, 16, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss BGR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930343
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:08 2018 Page 1
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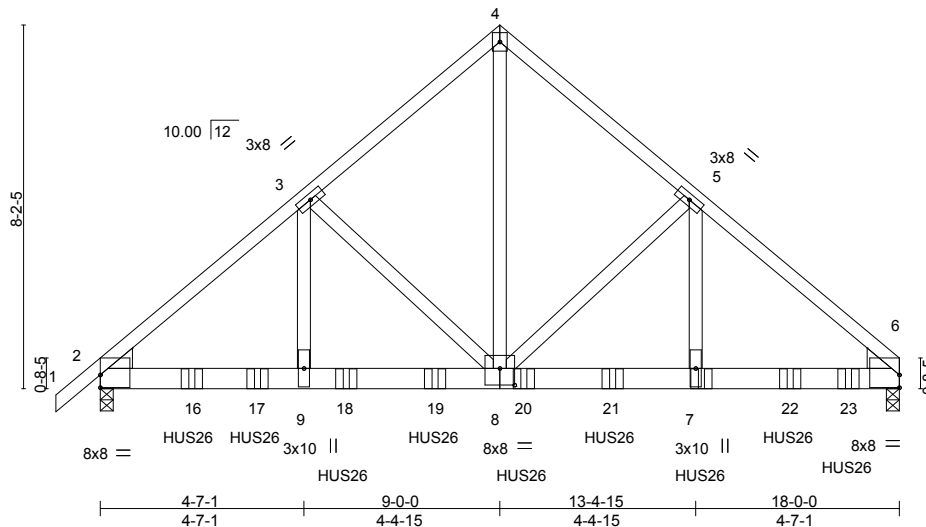


Plate Offsets (X,Y)-- [2:Edge,0-3-7], [6:0-0-0,0-3-7], [8:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.08 8-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.66	Vert(TL) -0.18 8-9 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(TL) 0.04 6 n/a n/a		
	Code IRC2012/TP12007			Weight: 363 lb	FT = 20%

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

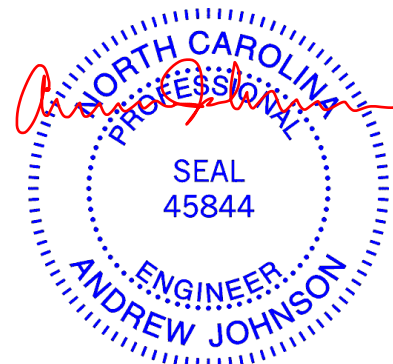
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=8189/0-3-8, 2=7450/0-3-8
Max Horz 2=163(LC 7)
Max Uplift 6=-679(LC 9), 2=-630(LC 8)
Max Grav 6=8493(LC 2), 2=7700(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-9496/780, 3-4=-6558/611, 4-5=-6561/611, 5-6=-9580/785
BOT CHORD 2-9=-624/7214, 8-9=-624/7214, 7-8=-557/7291, 6-7=-557/7291
WEBS 4-8=-689/8072, 5-8=-3123/374, 5-7=-274/3860, 3-8=-3018/364, 3-9=-265/3755

- NOTES-**
- 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 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) 6=679, 2=630.
 - Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 16-10-4 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

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



October 10, 2018

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss BGR	Truss Type COMMON GIRDER	Qty 1	Ply 3	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930343
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:08 2018 Page 2
ID:Rfnz1Eiil1EkM7Qn?mVbvzyyEhil-rnCR46n3MynSypH0HzX6PPG7YOHRi?ITXhFT2dyUs2z

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 7=-1572(F) 16=-1571(F) 17=-1571(F) 18=-1571(F) 19=-1571(F) 20=-1571(F) 21=-1571(F) 22=-1572(F) 23=-1572(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



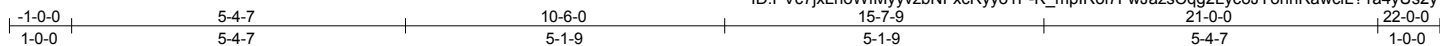
818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss F	Truss Type Common	Qty 5	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930344
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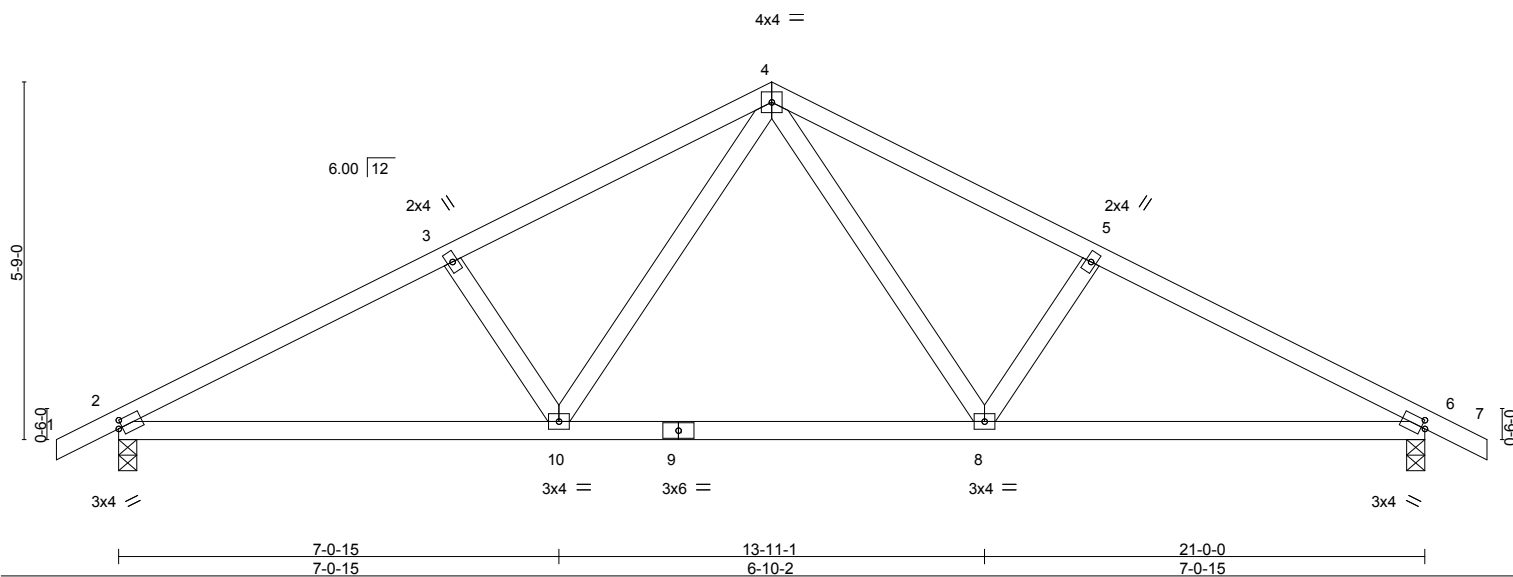
The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:09 2018 Page 1

ID:PVc7xLhoWfMyvzbNFxcRyyo1P-K_mplRoi7FwJazsCqg2LYcoJYohnRawclL?1a4yUs2y



Scale = 1:37.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.05 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.19	Vert(TL) -0.16 8-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(TL) 0.04 6 n/a n/a		
	Code IRC2012/TPI2007			Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=900/0-3-8, 6=900/0-3-8
 Max Horz 2=-79(LC 11)
 Max Uplift 2=-94(LC 10), 6=-94(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1407/283, 3-4=-1244/290, 4-5=-1244/290, 5-6=-1407/283
 BOT CHORD 2-10=-166/1198, 8-10=-44/815, 6-8=-166/1198
 WEBS 4-8=-73/456, 5-8=-294/156, 4-10=-73/456, 3-10=-294/156

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 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, 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Job 18101894	Truss FGE	Truss Type GABLE	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930345
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:11 2018 Page 1
 ID:PVc7jxLhoWfMyvzbNFxcRyyo1P-GMuZj7pyftA1pH?by54p11ui5bTBvWbvDFU7fyUs2w

Job Reference (optional)



4x4 =

Scale = 1:39.8

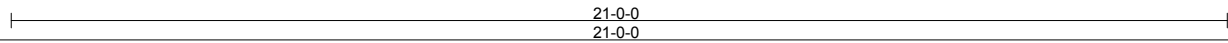
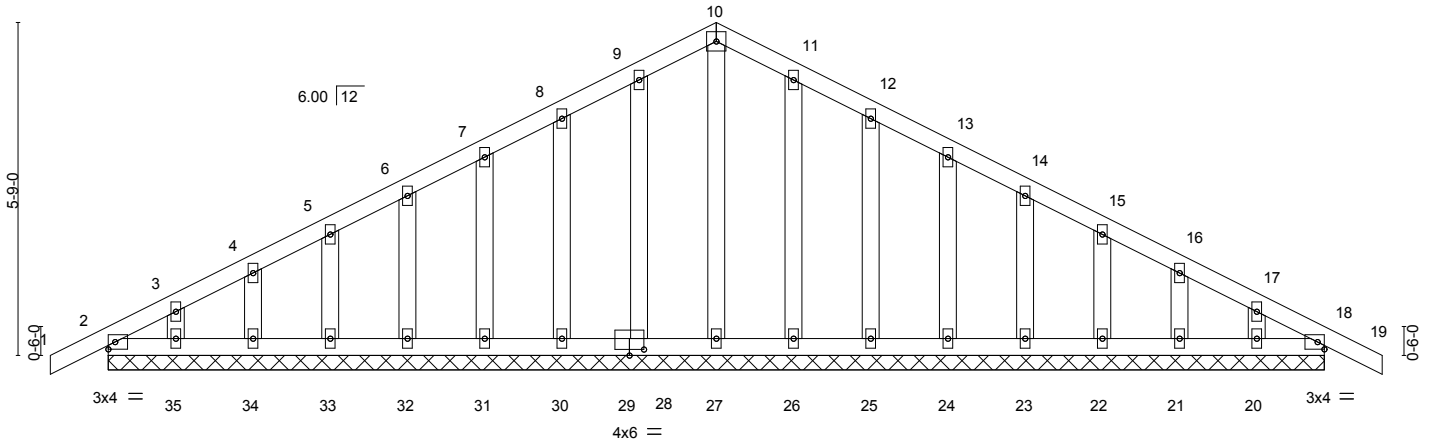


Plate Offsets (X,Y)--	[28:0-1-12,0-0-0], [29:0-3-0,0-1-4], [29:0-0-0,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 19 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) -0.00 19 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(TL) 0.00 18 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S			
				Weight: 130 lb	FT = 20%

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

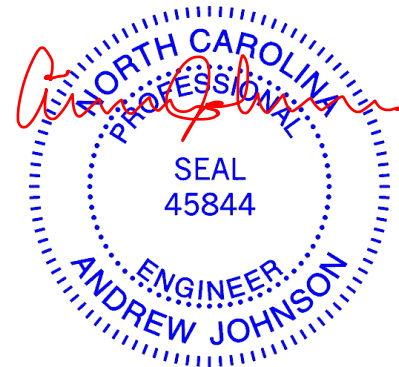
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-0-0.
 (lb) - Max Horz 2=-79(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 18
 Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18

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 (3-second gust) V(IRC2012)=91mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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 1-4-0 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 20, 18.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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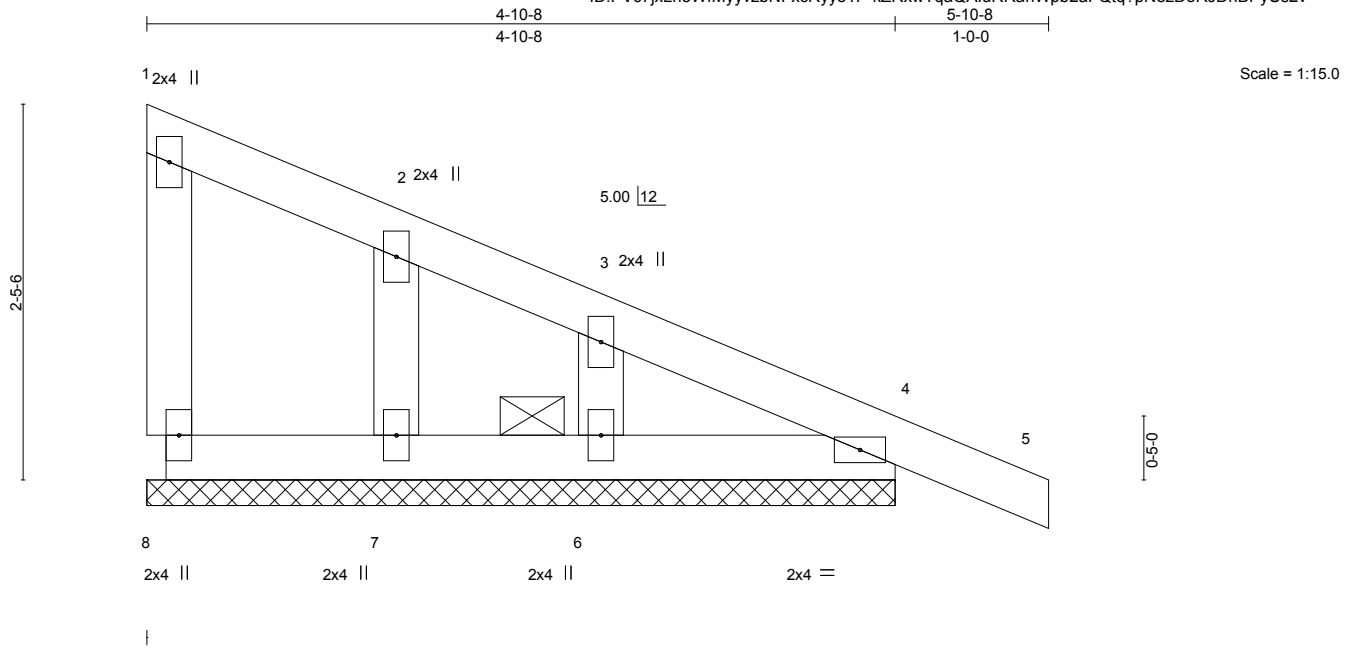


818 Soundside Road
 Edenton, NC 27932

Job 18101894	Truss H1GE	Truss Type GABLE	Qty 2	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930347
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:12 2018 Page 1
ID:PVc7jxLhoWfMyvzbNFxcRyyo1P-kZRxwTqaQAluRRanWpb2aFQtq?pNezD3RJdHbPyUs2v



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(TL)	-0.00	4	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(TL)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P						Weight: 22 lb	FT = 20%

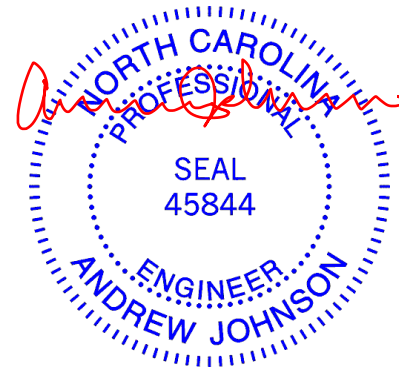
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals.
BOT CHORD 4-0-0 oc bracing.

REACTIONS. All bearings 4-10-8.
(lb) - Max Horz 8=74(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 8, 4, 7, 6
Max Grav All reactions 250 lb or less at joint(s) 8, 4, 7, 6

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) 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.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 7, 6.



October 10, 2018

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818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss J	Truss Type Common	Qty 2	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930348
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:13 2018 Page 1

ID:X0u1ROVrkWHW0yPTrc_eByyo1C-CI?K7prCBUI2b9z3W7H6Sz1gP0KNO_CgyzEjryUs2u



Scale: 3/8"=1'

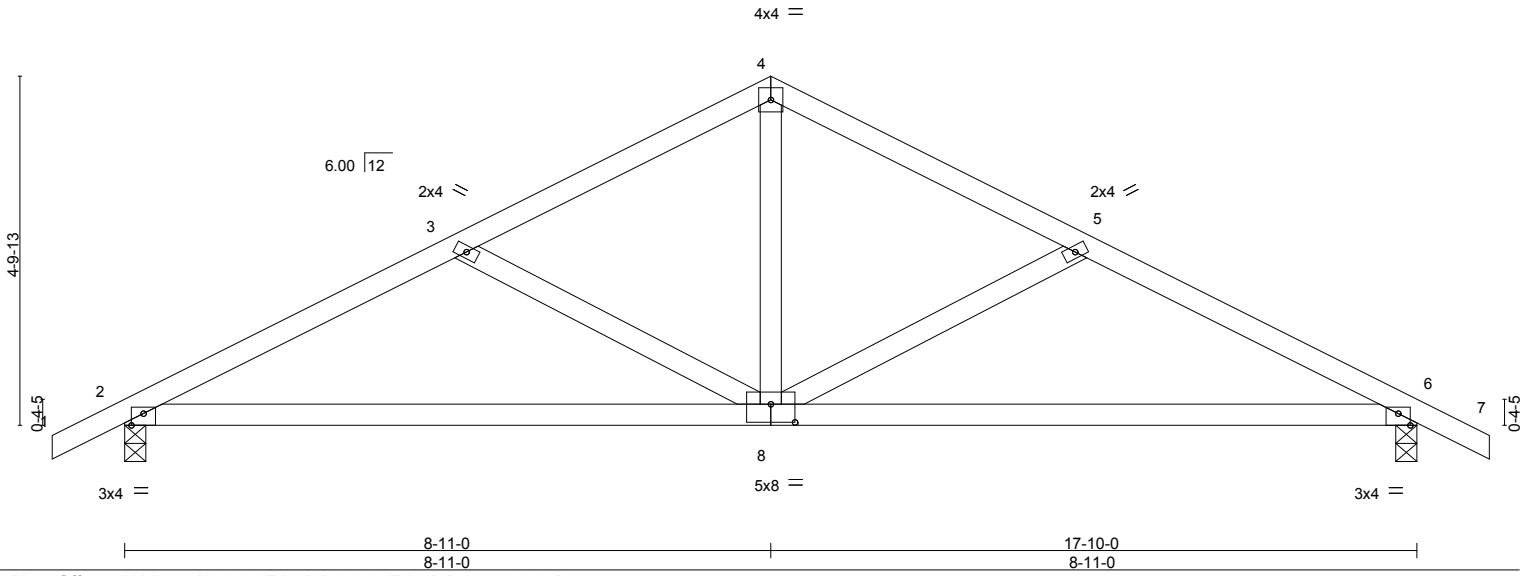


Plate Offsets (X,Y)--	[2:0-2-0,Edge], [6:0-2-0,Edge], [8:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.08	8-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.63	Vert(TL)	-0.22	8-14	>977		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(TL)	0.03	6	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-AS						
								Weight: 80 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=773/0-3-8, 6=773/0-3-8
 Max Horz 2=68(LC 14)
 Max Uplift 2=-84(LC 10), 6=-84(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1121/261, 3-4=-845/193, 4-5=-845/193, 5-6=-1121/261
 BOT CHORD 2-8=-152/958, 6-8=-152/958
 WEBS 4-8=-56/460, 5-8=-305/152, 3-8=-305/152

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 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, 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 10,2018

Job 18101894	Truss JGE	Truss Type GABLE	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930349
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:14 2018 Page 1
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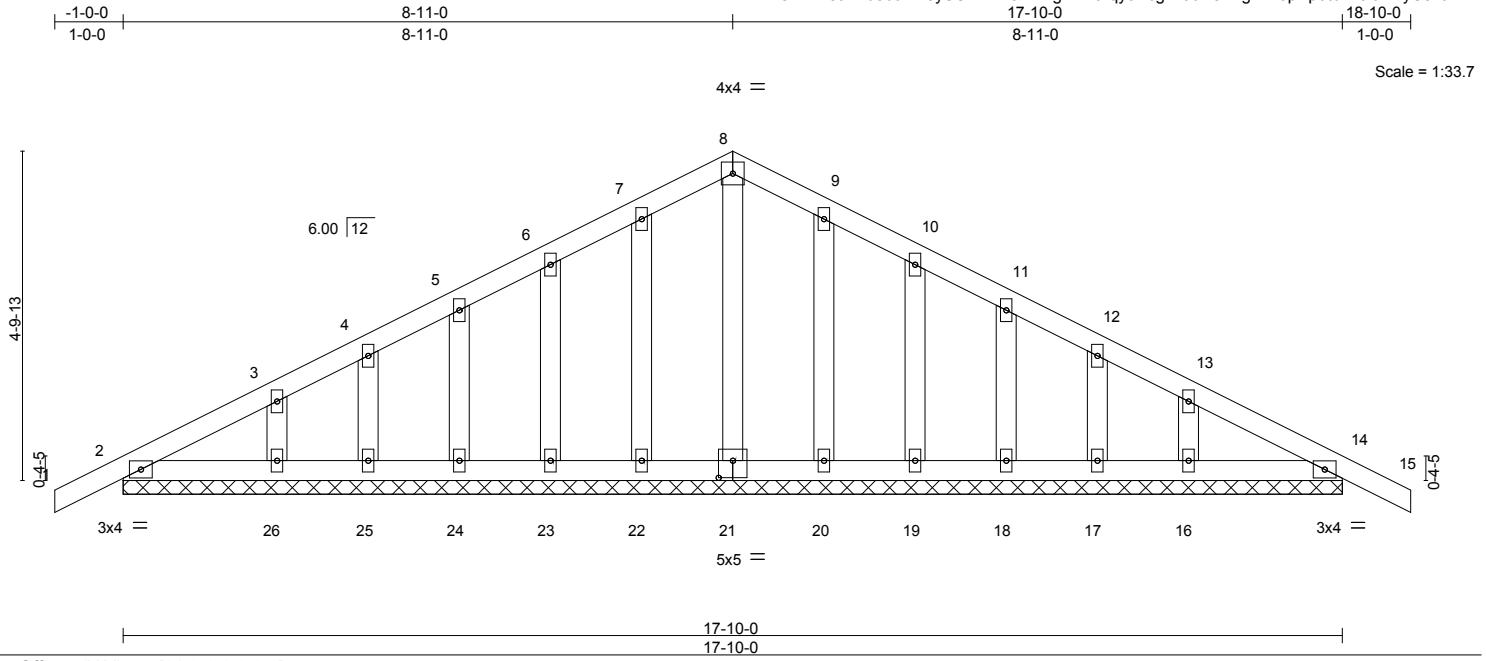


Plate Offsets (X,Y)--	[21:0-2-8,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 14 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) -0.00 15 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(TL) 0.00 14 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S		Weight: 100 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 17-10-0.
 (lb) - Max Horz 2=68(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 20, 19, 18, 14, 17, 16
 Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 25, 26, 20, 19, 18, 14, 17, 16

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 (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 22, 23, 24, 25, 26, 20, 19, 18, 14, 17, and 16. This connection is for uplift only and does not consider lateral forces.



October 10, 2018

Job 18101894	Truss JGR	Truss Type COMMON GIRDER	Qty 1	Ply 2	Lot-72-CLK/2317-Jasper-A2/RF	134930350
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:16 2018 Page 1
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Scale = 1:33.9

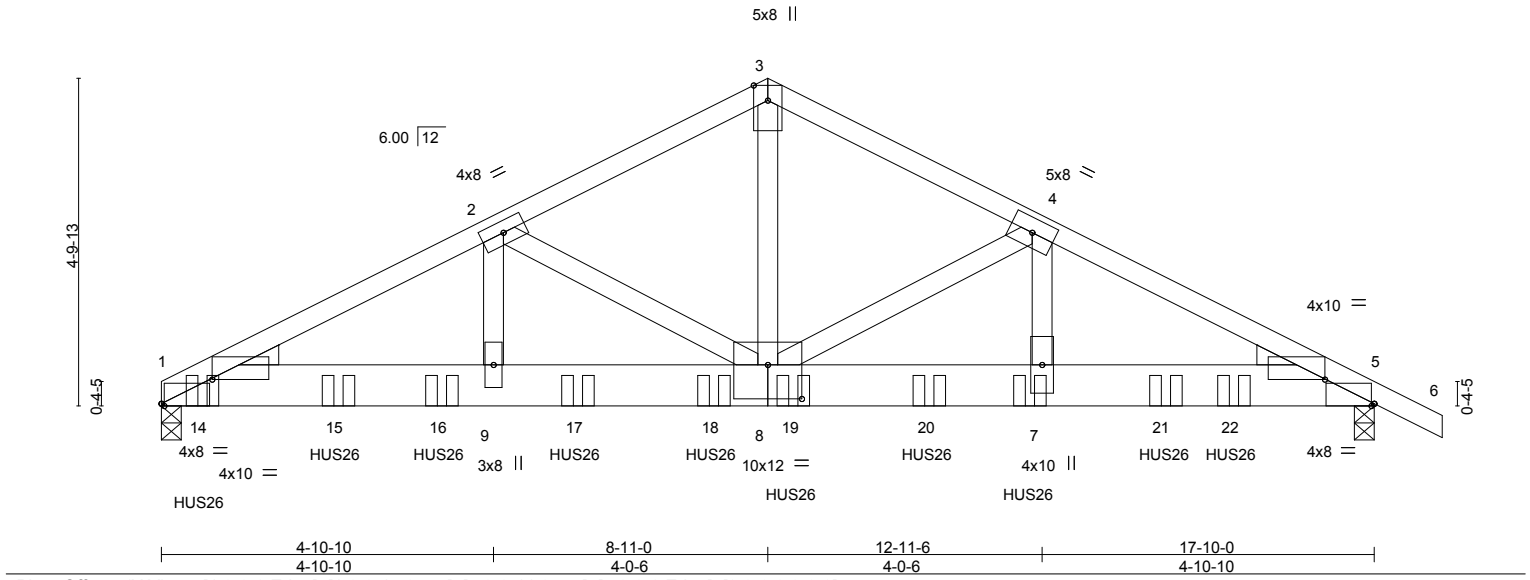


Plate Offsets (X,Y)--	[1:0-0-8,Edge], [1:0-8-15,0-4-4], [5:0-8-11,0-4-4], [5:0-0-8,Edge], [8:0-6-0,0-6-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.95	in (loc) l/defl L/d	MT20	137/130
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.16 8-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(TL) -0.38 8-9 >556 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(TL) 0.10 5 n/a n/a		
	Code IRC2012/TP12007			Weight: 244 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 3-6: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-1-8 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 1-1/2X7-1/4 LP-LSL TC 1.75E	
WEBS 2x4 SP No.3 *Except* 3-8: 2x4 SP No.1	
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS.	(lb/size)
1=9012/0-3-8, 5=8600/0-3-8	
Max Horz 1=-75(LC 9)	
Max Uplift 1=-785(LC 8), 5=-794(LC 9)	
Max Grav 1=9332(LC 2), 5=8853(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-15177/1299, 2-3=-10933/967, 3-4=-10933/969, 4-5=-15893/1390
BOT CHORD	1-9=-1164/13556, 8-9=-1164/13556, 7-8=-1179/14207, 5-7=-1179/14207
WEBS	3-8=-794/9492, 4-8=-5149/528, 4-7=-364/4587, 2-8=-4396/430, 2-9=-276/3911

- NOTES-**
- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 1-1/2x7-1/4 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - The solid section of the plate is required to be placed over the splice line at joint(s) 8.
 - Plate(s) at joint(s) 8 checked for a plus or minus 1 degree rotation about its center.
 - 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 with a clearance greater than 6-0-0 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) 1=785, 5=794.
 - Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 15-9-4 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
 Continued on page 2



Job 18101894	Truss JGR	Truss Type COMMON GIRDER	Qty 1	Ply 2	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930350
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:16 2018 Page 2
ID:G4DIX3tYDbebuPVeySUXPwz3kvX-cKhSmrt5UPoKv2uYleg_k5bM?c?5aYmeMwBuKAYUs2r

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1641(F) 14=-1577(F) 15=-1572(F) 16=-1572(F) 17=-1572(F) 18=-1641(F) 19=-1641(F) 20=-1641(F) 21=-1641(F) 22=-1641(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

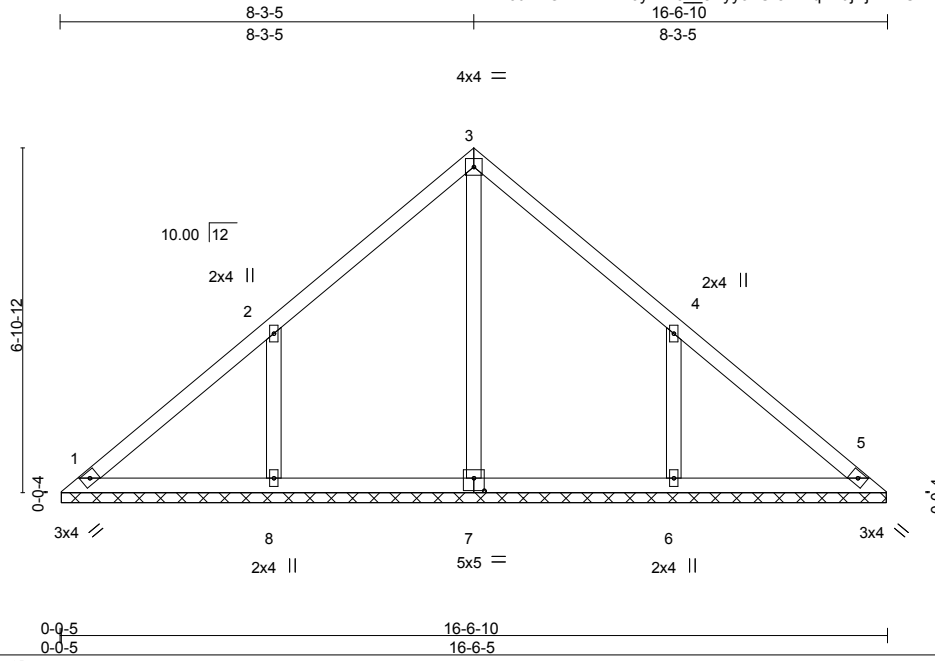


818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss V1	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930351
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:17 2018 Page 1
ID:X0u1ROVrkWHW0yPTrc_eByyo1C-5WFqzAujEjwBXCTkIMBDHI8iCOU9JCwobaxSscyUs2q



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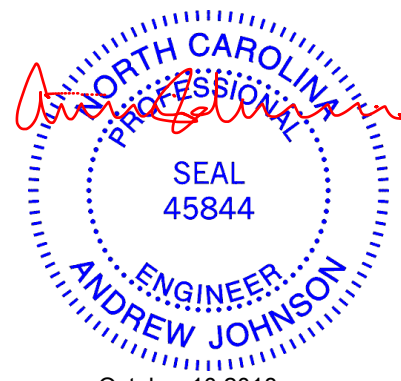
Plate Offsets (X,Y)--	[7:0-2-8,0-3-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(TL)	n/a	-	n/a 999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	0.00	5	n/a n/a
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S				
							PLATES MT20
							GRIP 244/190
							Weight: 73 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 16-6-0.
 (lb) - Max Horz 1=-133(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-161(LC 10), 6=-161(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=358(LC 20), 8=450(LC 17), 6=450(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-297/198, 4-6=-296/198

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=161, 6=161.

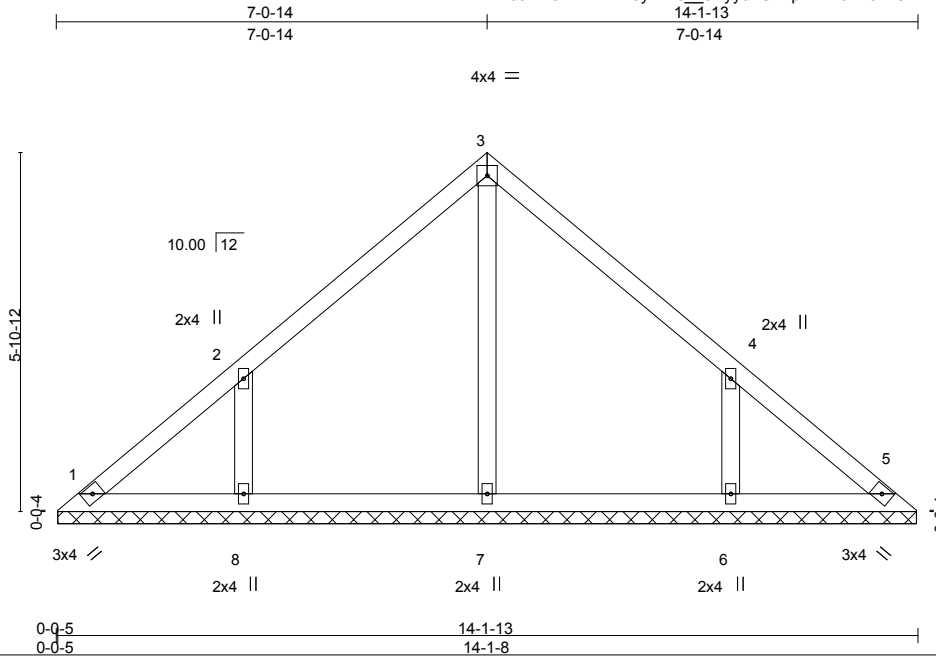


October 10, 2018

Job 18101894	Truss V2	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930352
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:18 2018 Page 1
ID:X0u1ROVrkWHW0yPTrc_eByyo1C-ZipDBWuL?0229M2xs3iSpWguaQrR2fcxqEg?O2yUs2p



Scale = 1:37.8

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 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(TL)	0.00	5	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S					Weight: 61 lb	FT = 20%

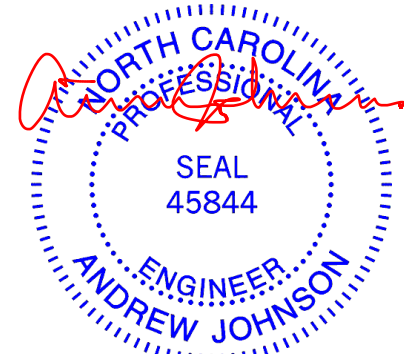
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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 14-1-3.
 (lb) - Max Horz 1=112(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=139(LC 10), 6=139(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=334(LC 17), 6=334(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-258/174, 4-6=-258/174

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 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 except (jt=lb) 8=139, 6=139.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

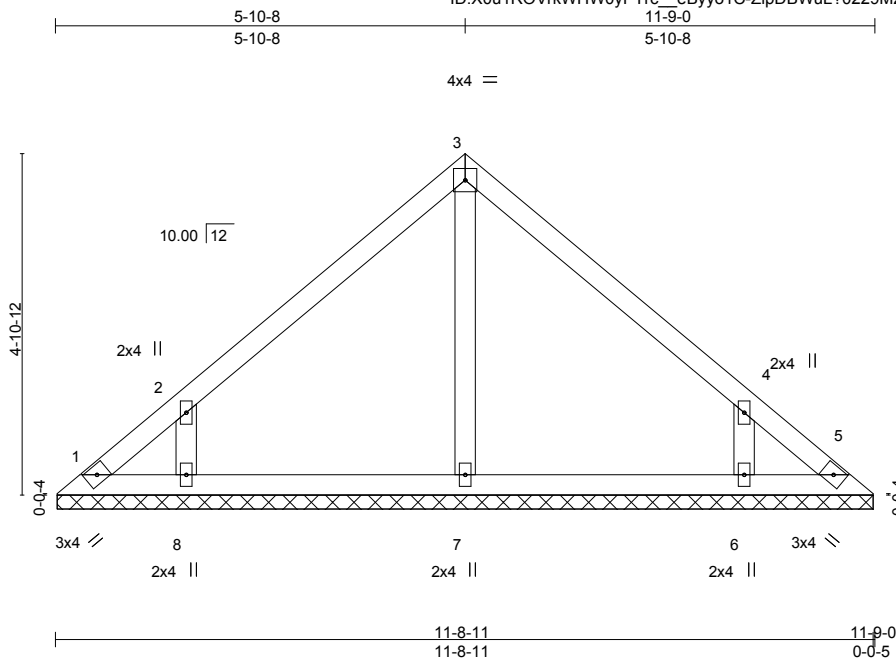


818 Soundside Road
 Edenton, NC 27932

Job 18101894	Truss V3	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930353
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:18 2018 Page 1
ID:X0u1ROVrkWHW0yPTrc_eByyo1C-ZipDBWuL70229M2xs3iSpWguTQrM2f2xqEg?O2yUs2p



Scale = 1:33.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(TL)	0.00	5	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S					Weight: 48 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 11-8-6.
(lb) - Max Horz 1=-92(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-133(LC 10), 6=-132(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=309(LC 17), 6=309(LC 18)

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 (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=133, 6=132.



October 10,2018

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

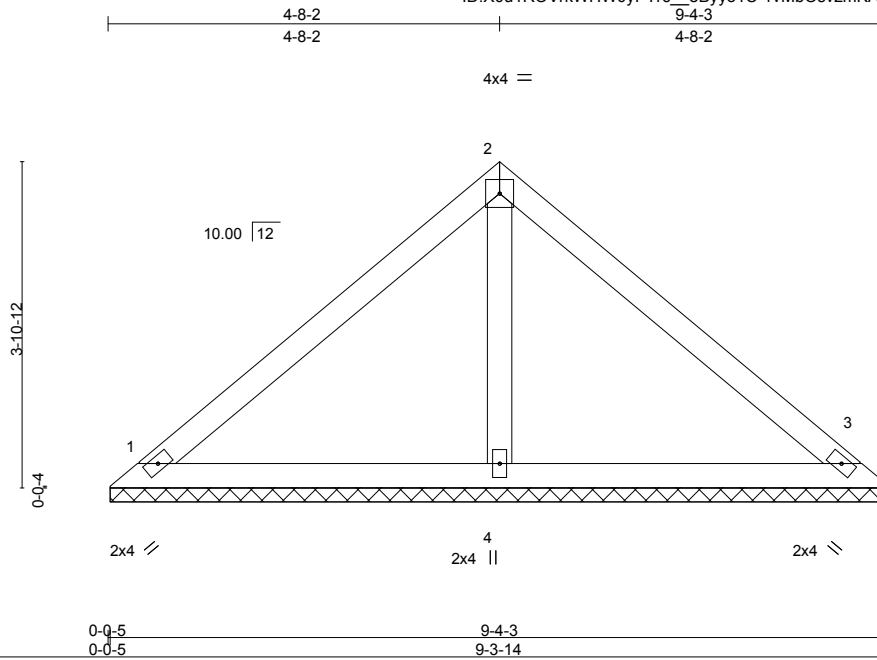


818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss V4	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930354
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:19 2018 Page 1
ID:X0u1ROVrkWHW0yPTrc_eByyo1C-1vMbOsvzmKAvmWc7QnDhMjD14qAdn7T43uQYxVvYUs2o



Scale = 1:27.5

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 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S					Weight: 35 lb	FT = 20%

LUMBER-

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

BRACING-

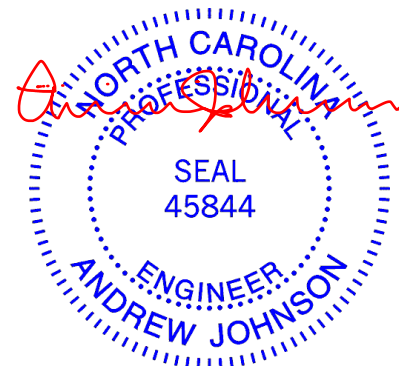
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=181/9-3-10, 3=181/9-3-10, 4=322/9-3-10
Max Horz 1=72(LC 7)
Max Uplift 1=-23(LC 11), 3=-32(LC 11), 4=-3(LC 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 (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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 with a clearance greater than 6-0-0 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, 4.



October 10, 2018

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

Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



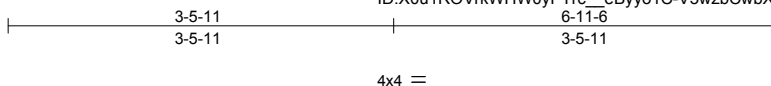
818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss V5	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF Job Reference (optional)	134930355
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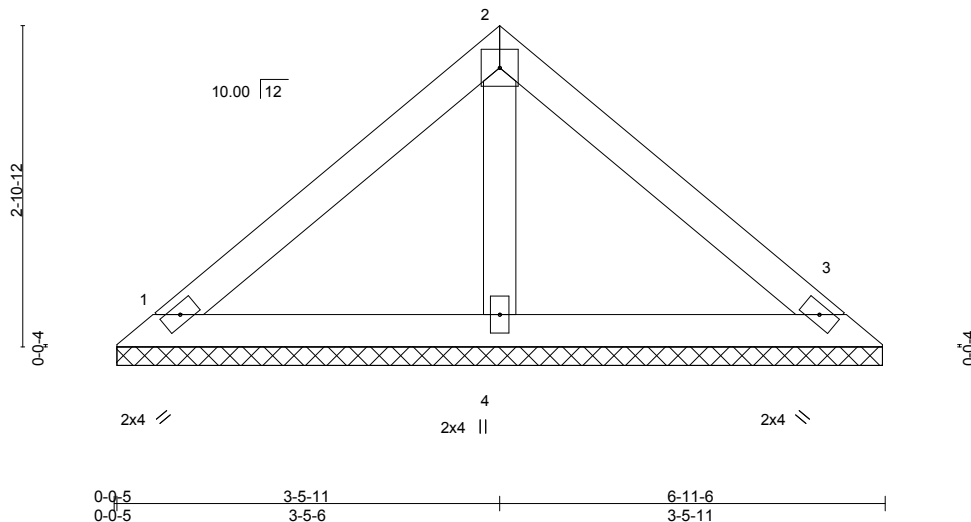
The Building Center Inc.,

Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:20 2018 Page 1
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Scale = 1:20.8



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(TL)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 26 lb	FT = 20%
	Code IRC2012/TPI2007							

LUMBER-

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

BRACING-

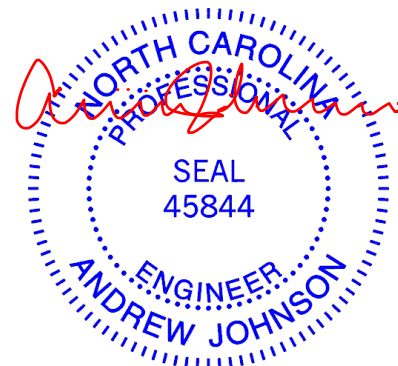
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=141/6-10-13, 3=141/6-10-13, 4=210/6-10-13
Max Horz 1=52(LC 7)
Max Uplift 1=-24(LC 11), 3=-30(LC 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 (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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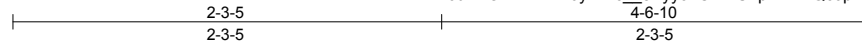
818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss V6	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF 134930356
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The Building Center Inc.,

Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:21 2018 Page 1
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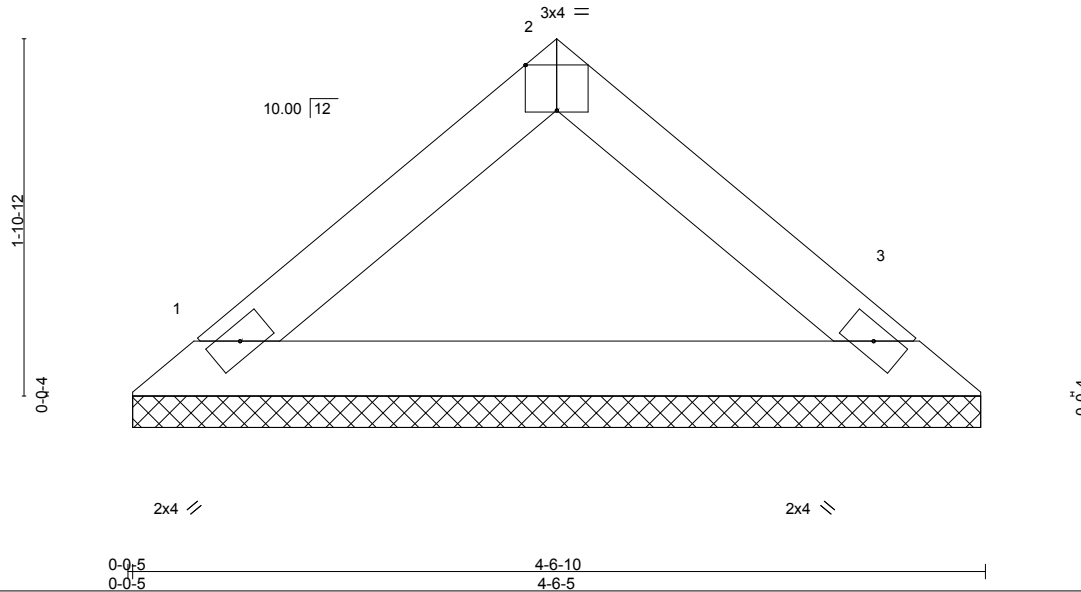


Plate Offsets (X,Y)--	[2:0-2-0,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P						Weight: 14 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=150/4-6-0, 3=150/4-6-0
Max Horz 1=32(LC 9)
Max Uplift 1=-11(LC 10), 3=-11(LC 11)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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 with a clearance greater than 6-0-0 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 10,2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

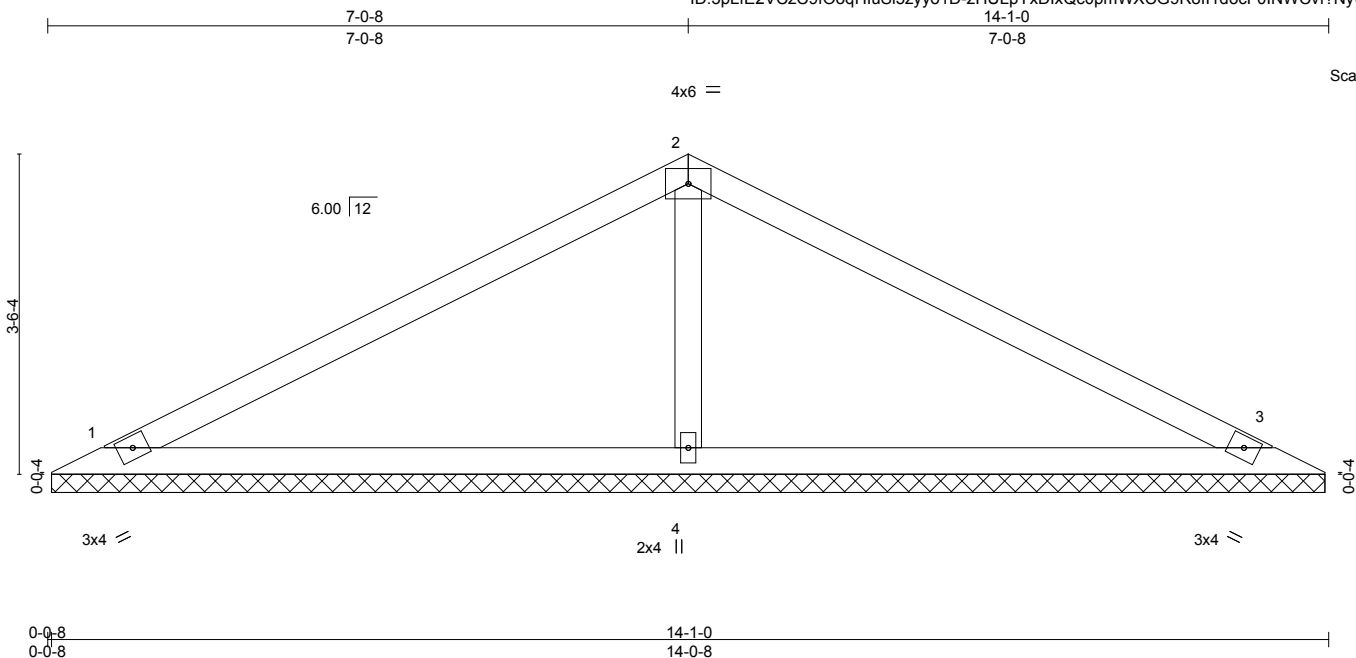


818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss VJ1	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930357
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:21 2018 Page 1
ID:3pLfE2VCzC9fOoqHluSl5zyyo1D-zHULpYxDixQc0pmWXCG9R8II1docF0INWCvf?NyUs2m



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 0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(TL)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S						Weight: 46 lb	FT = 20%

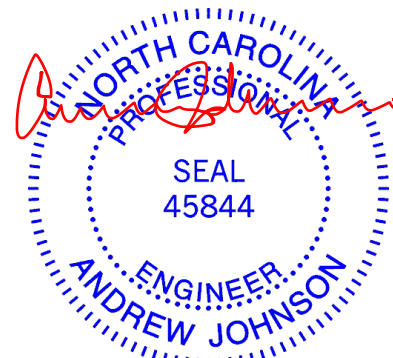
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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. (lb/size) 1=234/14-0-0, 3=234/14-0-0, 4=558/14-0-0
Max Horz 1=-44(LC 15)
Max Uplift 1=-38(LC 10), 3=-46(LC 11), 4=-19(LC 10)
Max Grav 1=236(LC 21), 3=236(LC 22), 4=558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-370/144

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.



October 10, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mil-7473 rev. 10/03/2015 BEFORE USE.

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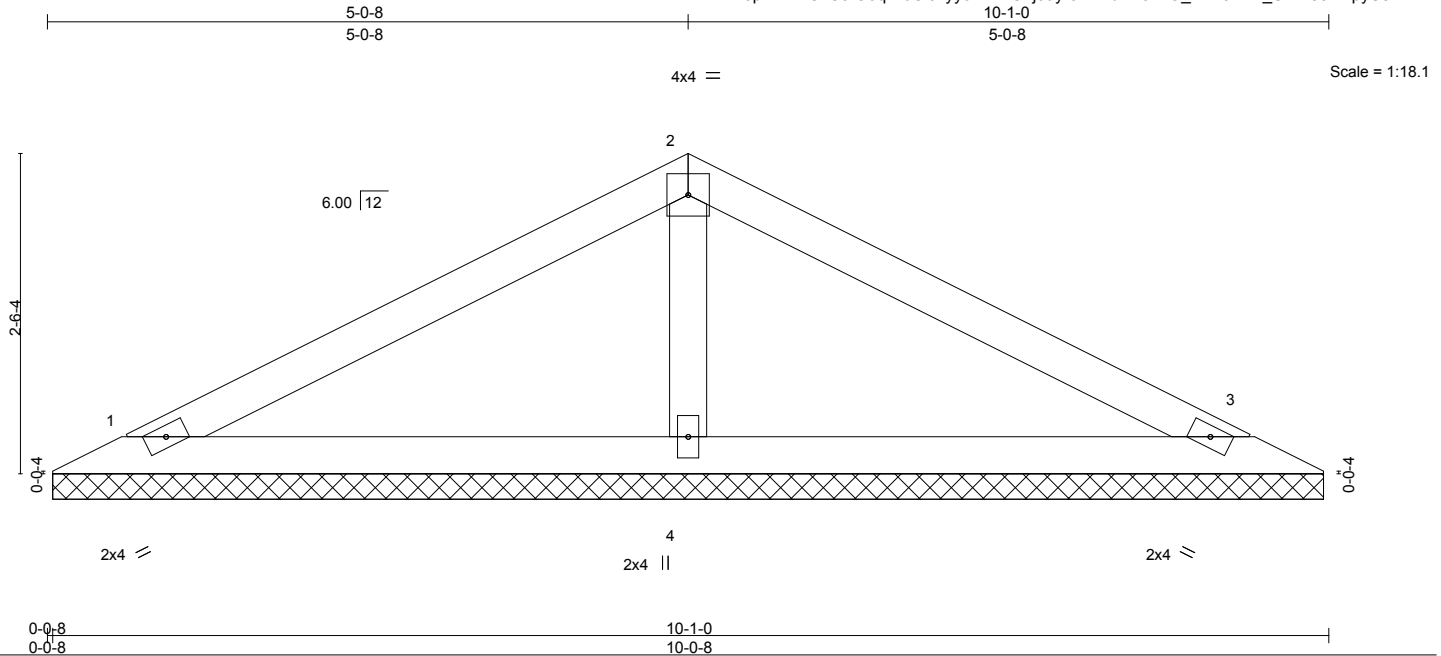


818 Soundside Road
Edenton, NC 27932

Job 18101894	Truss VJ2	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF	134930358
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The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:22 2018 Page 1
ID:3pLfE2VCzC9fOoqHluSl5zyyo1D-RU2j0uyr3FYTdzLi5vnO_MrY51BB_UEXIseDXpyUs2l



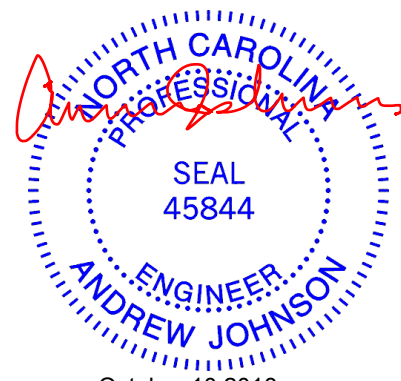
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S						Weight: 32 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. (lb/size) 1=161/10-0-0, 3=161/10-0-0, 4=384/10-0-0
 Max Horz 1=30(LC 14)
 Max Uplift 1=-26(LC 10), 3=-32(LC 11), 4=-13(LC 10)
 Max Grav 1=163(LC 21), 3=163(LC 22), 4=384(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-255/113

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.

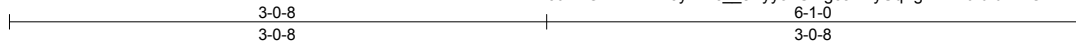


October 10, 2018

Job 18101894	Truss VJ3	Truss Type Valley Truss	Qty 1	Ply 1	Lot-72-CLK/2317-Jasper-A2/RF 134930359
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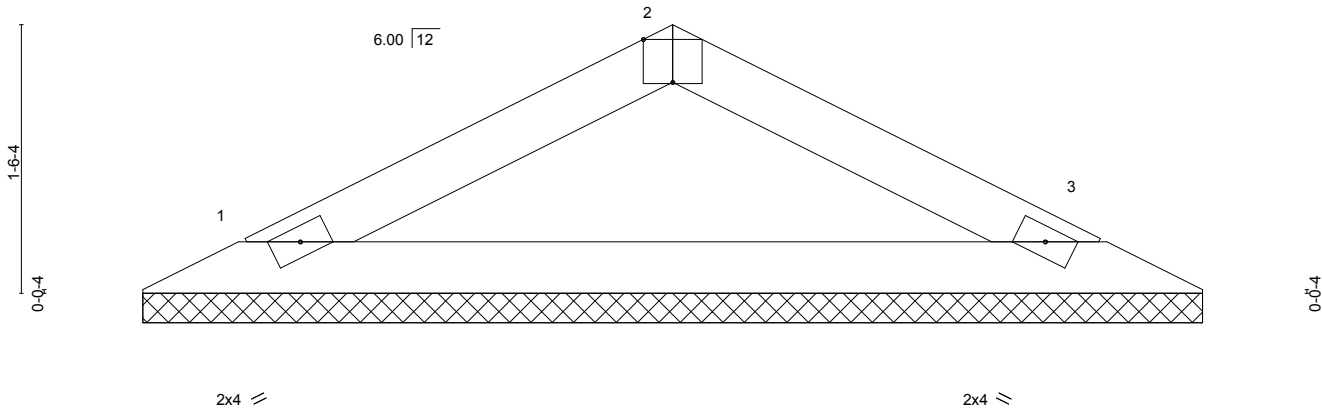
The Building Center Inc., Gastonia, NC 28052

8.220 s Sep 24 2018 MiTek Industries, Inc. Wed Oct 10 09:42:23 2018 Page 1
 ID:X0u1ROVrkWHW0yPTrc__eByyo1C-vgc5EEyUqZgKF7wufldWZOmVRVojxKgZWom4GyUs2k



3x4 =

Scale = 1:13.0



2x4 =

2x4 =

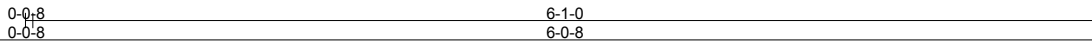


Plate Offsets (X, Y)-- [2:0-2-0, Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 3 n/a n/a		
	Code IRC2012/TPI2007			Weight: 17 lb	FT = 20%

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

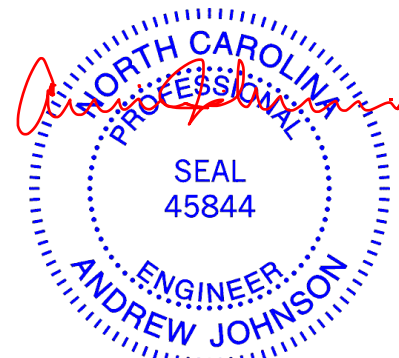
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=193/6-0-0, 3=193/6-0-0
 Max Horz 1=17(LC 14)
 Max Uplift 1=-18(LC 10), 3=-18(LC 11)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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 with a clearance greater than 6-0-0 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 10, 2018

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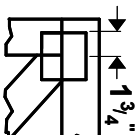
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



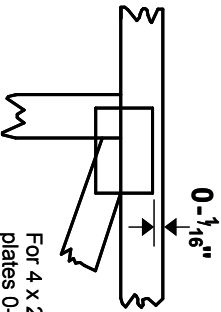
818 Soundside Road
 Edenton, NC 27932

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- $\frac{1}{16}$ " from outside edge of truss.



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

* Plate location details available in **MITek 2020 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



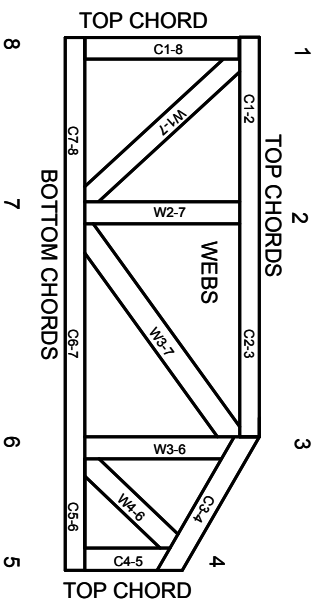
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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. 10/03/2015

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.