

RE: 764156-NC - H&H-NC/Biltmore

**Trenco**

818 Soundside Rd  
 Edenton, NC 27932

**Site Information:**

Project Customer: H and H Project Name: 764156  
 Lot/Block: Subdivision:  
 Address:  
 City: Fayetteville State: NC

**Name Address and License # of Structural Engineer of Record, If there is one, for the building.**

Name: License #:  
 Address:  
 City, County: State:

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

Design Code: IRC2009/TPI2007 Design Program: MiTek 20/20 7.6  
 Wind Code: ASCE 7-05 Wind Speed: 130 mph Design Method: MWFRS(low-rise)/C-C hybrid Wind ASCE 7-05  
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 37 individual, dated Truss Design Drawings and 0 Additional Drawings.  
 With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to sections, R502.11 and R802.10 of the North Carolina State Building Code.

COA C-0844

No.	Seal#	Job ID#	Truss Name	Date	No.	Seal#	Job ID#	Truss Name	Date
1	I26142274	764156-NC	A01	3/3/016	24	I26142297	764156-NC	D01	3/3/016
2	I26142275	764156-NC	A02	3/3/016	25	I26142298	764156-NC	D02	3/3/016
3	I26142276	764156-NC	A03	3/3/016	26	I26142299	764156-NC	D03	3/3/016
4	I26142277	764156-NC	A04	3/3/016	27	I26142300	764156-NC	D04	3/3/016
5	I26142278	764156-NC	A05	3/3/016	28	I26142301	764156-NC	D05	3/3/016
6	I26142279	764156-NC	A06	3/3/016	29	I26142302	764156-NC	E01	3/3/016
7	I26142280	764156-NC	A07	3/3/016	30	I26142303	764156-NC	E02	3/3/016
8	I26142281	764156-NC	A08	3/3/016	31	I26142304	764156-NC	E03	3/3/016
9	I26142282	764156-NC	A09	3/3/016	32	I26142305	764156-NC	J01	3/3/016
10	I26142283	764156-NC	A10	3/3/016	33	I26142306	764156-NC	J02	3/3/016
11	I26142284	764156-NC	A11	3/3/016	34	I26142307	764156-NC	J03	3/3/016
12	I26142285	764156-NC	A12	3/3/016	35	I26142308	764156-NC	J04	3/3/016
13	I26142286	764156-NC	B01	3/3/016	36	I26142309	764156-NC	J05	3/3/016
14	I26142287	764156-NC	B02	3/3/016	37	I26142310	764156-NC	J06	3/3/016
15	I26142288	764156-NC	B03	3/3/016					
16	I26142289	764156-NC	B04	3/3/016					
17	I26142290	764156-NC	B05	3/3/016					
18	I26142291	764156-NC	C01	3/3/016					
19	I26142292	764156-NC	C02	3/3/016					
20	I26142293	764156-NC	C03	3/3/016					
21	I26142294	764156-NC	C04	3/3/016					
22	I26142295	764156-NC	C05	3/3/016					
23	I26142296	764156-NC	C06	3/3/016					

The truss drawing(s) referenced above have been prepared by Truss Engineering Company under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Komnick, Chad  
 My license renewal date for the state of North Carolina is December 31, 2016.



**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. Any project specific information included is for MiTek's customer's file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.

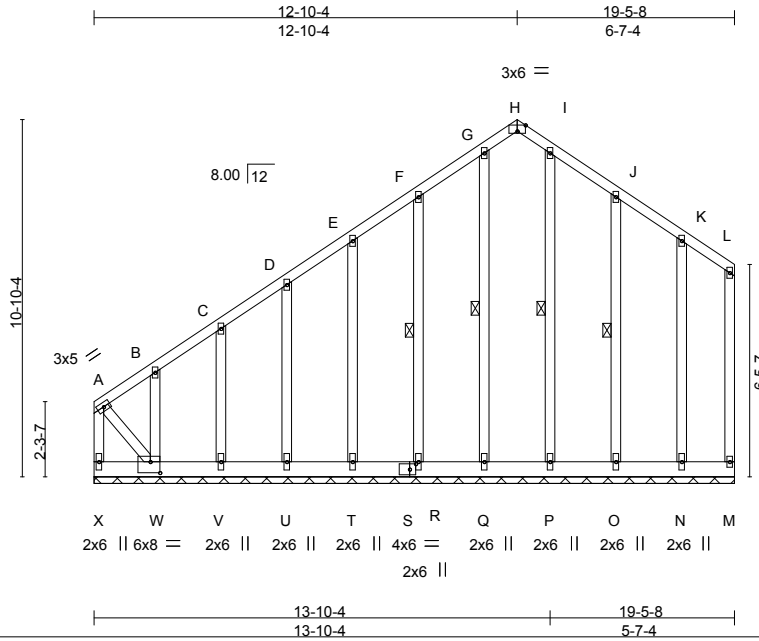
March 3, 2016

Komnick, Chad

Job 764156-NC	Truss A01	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Biltmore 126142274
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:02 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-VkwAP1fddQz1Jf61EmpPw3V?EqBrv9lSnMO7xzf7J



Scale = 1:70.0

Plate Offsets (X,Y)-- [H:0-3-0,Edge], [S:0-2-3-0,2-0], [W:0-3-8,0-4-0]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(TL) -0.00 M n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)			
				Weight: 186 lb	FT = 20%

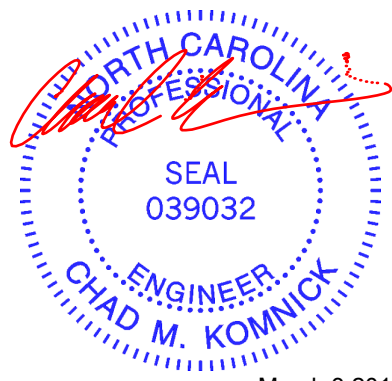
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt G-Q, F-R, I-P, J-O
OTHERS 2x4 SP No.3	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 19-5-8.  
(lb) - Max Horz X=395(LC 6)  
Max Uplift All uplift 100 lb or less at joint(s) M, Q except X=-406(LC 5), R=-175(LC 7), T=-137(LC 7), U=-142(LC 7), V=-143(LC 7), W=-559(LC 7), O=-191(LC 8), N=-132(LC 8)  
Max Grav All reactions 250 lb or less at joint(s) M, Q, R, T, U, V, P, O, N except X=692(LC 6), W=336(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-453/285, B-C=-387/277, C-D=-315/267, D-E=-245/258, F-G=104/291, I-J=-35/261, A-X=-676/408  
BOT CHORD W-X=-389/232  
WEBS A-W=-352/593

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) M, Q except (jt=lb) X=406, R=175, T=137, U=142, V=143, W=559, O=191, N=132.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3,2016

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	A01	GABLE	1	1	I26142274

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:02 2016 Page 2  
 ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-VkwAP1fddQz1Jf61EmpPw3V?EqBrv9lsnMO7xze7J

**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.

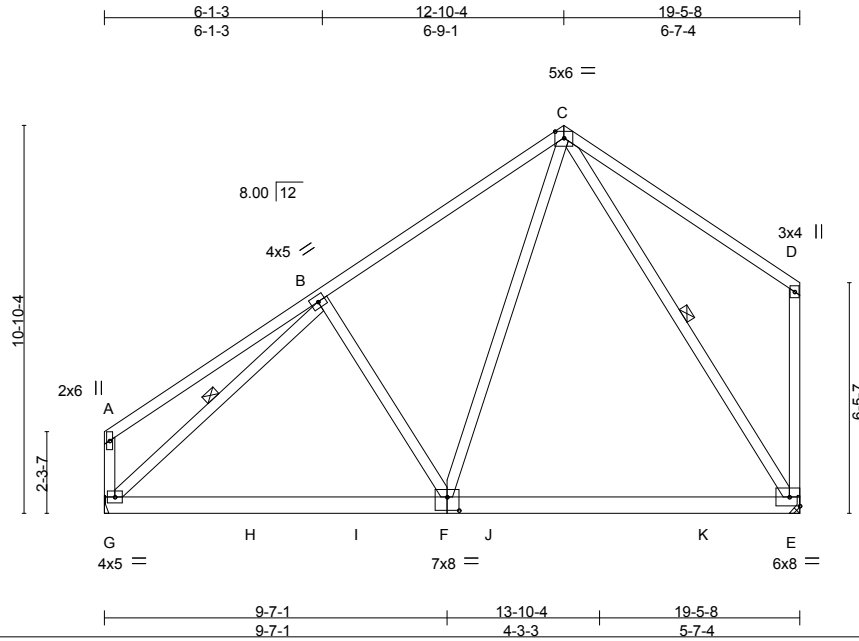


818 Soundside Road  
 Edenton, NC 27932

Job 764156-NC	Truss A02	Truss Type Common	Qty 5	Ply 1	H&H-NC/Biltmore 126142275
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:02 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-VkwAP1fddQz1Jf61EmpPw3VvdqSuroBlSnMO7xze7J



Scale: 3/16"=1'

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.13	E-F >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(TL)	-0.22	E-F >999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(TL)	0.01	E n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 147 lb	FT = 20%

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

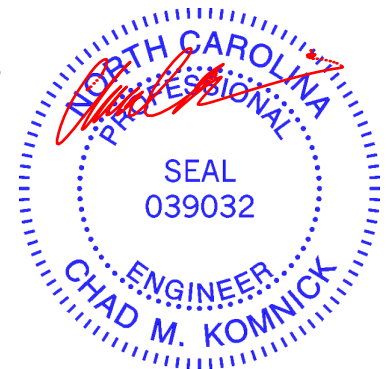
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-3 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt B-G, C-E

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) G=922/Mechanical, E=972/Mechanical  
 Max Horz G=395(LC 6)  
 Max Uplift G=-282(LC 7), E=-387(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-844/445, D-E=-211/271  
 BOT CHORD G-H=-500/694, H-I=-500/694, F-I=-500/694, F-J=-173/402, J-K=-173/402, E-K=-173/402  
 WEBS B-F=-203/473, C-F=-273/686, B-G=-879/204, C-E=-714/309

- NOTES-** (8)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) 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) except (jt=lb) G=282, E=387.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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818 Soundside Road  
 Edenton, NC 27932

Job 764156-NC	Truss A03	Truss Type Common	Qty 3	Ply 1	H&H-NC/Biltmore	126142276
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:03 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-zwUZdNgGOk5uwphDoUKFSG12yEnRaHSv5Q6xgOzef7I

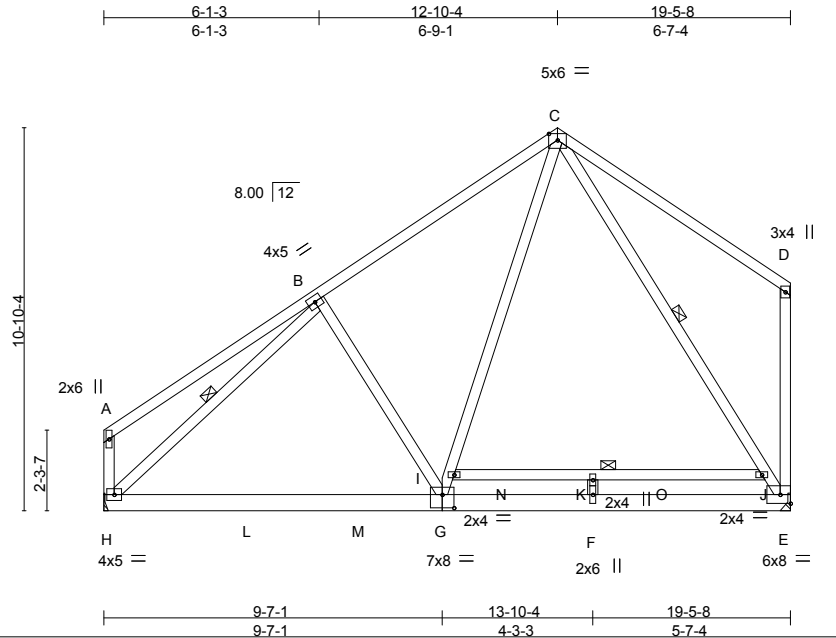


Plate Offsets (X,Y)-- [G:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.71	Vert(LL)	-0.15	E-F	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.61	Vert(TL)	-0.23	E-F	>982		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Horz(TL)	0.01	E	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix)						
	Code IRC2009/TPI2007							
							Weight: 160 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
I-J: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt B-H, I-J, C-E

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) H=909/Mechanical, E=929/Mechanical  
Max Horz H=395(LC 6)  
Max Uplift H=-282(LC 7), E=-387(LC 7)

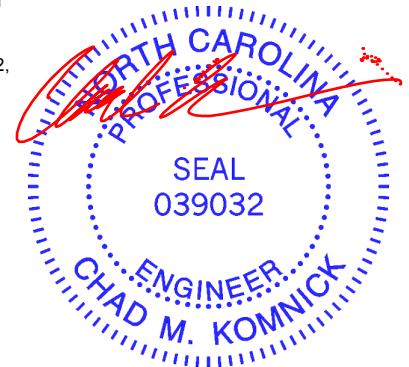
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-815/446, D-E=-209/272  
BOT CHORD H-L=-500/674, L-M=-500/674, G-M=-500/674, F-G=-182/421, E-F=-182/421  
WEBS B-G=-210/473, G-I=-275/604, C-I=-274/650, B-H=-842/206, C-J=-693/309, E-J=-727/311

**NOTES-** (9)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) except (jt=lb) H=282, E=387.
- Load case(s) 1, 2, 11, 12 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-C=-60, C-D=-60, H-L=-20, L-M=-60, E-M=-20, N-O=-40



Continued on page 2

March 3, 2016

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	A03	Common	3	1	I26142276

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:03 2016 Page 2  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-zwUZdNgGOk5uwphDoUKfSG12yEnRaHSv5Q6xgOzef7I

**LOAD CASE(S)** Standard

2) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: A-C=-20, C-D=-20, E-H=-40, N-O=-40

11) 1st Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-C=-60, C-D=-20, H-L=-20, L-M=-60, E-M=-20, N-O=-40

12) 2nd Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-C=-20, C-D=-60, H-L=-20, L-M=-60, E-M=-20, N-O=-40

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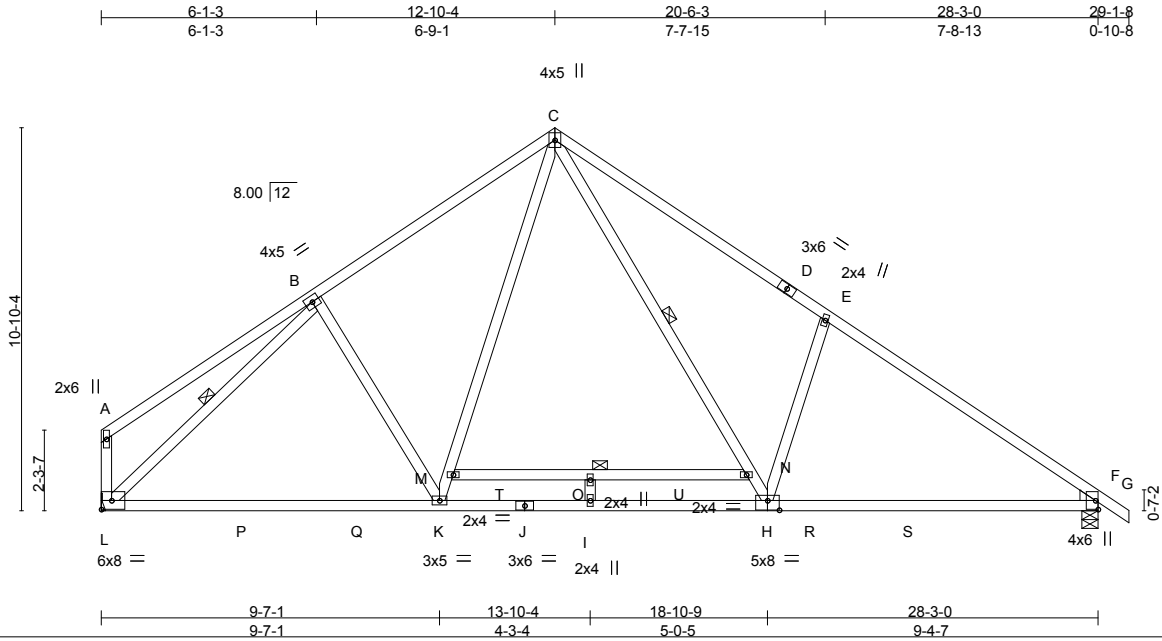


818 Soundside Road  
Edenton, NC 27932

Job 764156-NC	Truss A04	Truss Type Common	Qty 1	Ply 1	H&H-NC/Biltmore 126142277
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:03 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-zwUZdNgGOk5uwphDoUKFSG11HEjlaGfv5Q6xgOzef7I



Scale = 1:65.3

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.26	H-I	>999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(TL)	-0.47	F-H	>719		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(TL)	0.06	F	n/a		
BCDL	10.0	Code	IRC2009/TPI2007		(Matrix)						
										Weight: 175 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1 \*Except\*  
A-C: 2x4 SP No.2  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3 \*Except\*  
M-N: 2x4 SP No.2  
WEDGE  
Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing.  
WEBS 1 Row at midpt C-H, B-L, M-N

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) L=1348/Mechanical, F=1394/0-5-8  
Max Horz L=-519(LC 5)  
Max Uplift L=-462(LC 7), F=-569(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-1391/756, C-D=-1622/977, D-E=-1767/931, E-F=-1887/759  
BOT CHORD L-P=-382/1089, P-Q=-382/1089, K-Q=-382/1089, J-K=-109/961, I-J=-109/961,  
H-I=-109/961, H-R=-429/1465, R-S=-429/1465, F-S=-429/1465  
WEBS B-K=-138/417, K-M=-246/478, C-M=-246/526, C-N=-551/894, H-N=-543/840, E-H=-402/603,  
B-L=-1409/536

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) except (jt=lb) L=462, F=569.
  - Load case(s) 1, 2, 11, 12 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

Continued on page 2



March 3, 2016

**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	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	A04	Common	1	1	I26142277

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:03 2016 Page 2  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-zwUZdNgGOk5uwphDoUKfSG11HEjlaGfv5Q6xgOzef7I

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-C=-60, C-G=-60, L-P=-20, P-Q=-60, Q-R=-20, R-S=-60, F-S=-20, T-U=-40
- 2) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: A-C=-20, C-G=-20, F-L=-40, T-U=-40
- 11) 1st Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-C=-60, C-G=-20, L-P=-20, P-Q=-60, Q-R=-20, R-S=-60, F-S=-20, T-U=-40
- 12) 2nd Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-C=-20, C-G=-60, L-P=-20, P-Q=-60, Q-R=-20, R-S=-60, F-S=-20, T-U=-40

**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 764156-NC	Truss A05	Truss Type ROOF SPECIAL	Qty 2	Ply 1	H&H-NC/Biltmore 126142278
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Builders FirstSource, Piney Flats, TN 37686  
 7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:04 2016 Page 1  
 ID:h9G7FShkwdXsXwp5ZI0SNOzkn2-R61xqjgu92DIYzGPMBru?UaGfe3fJej2K4rUCqzef7H

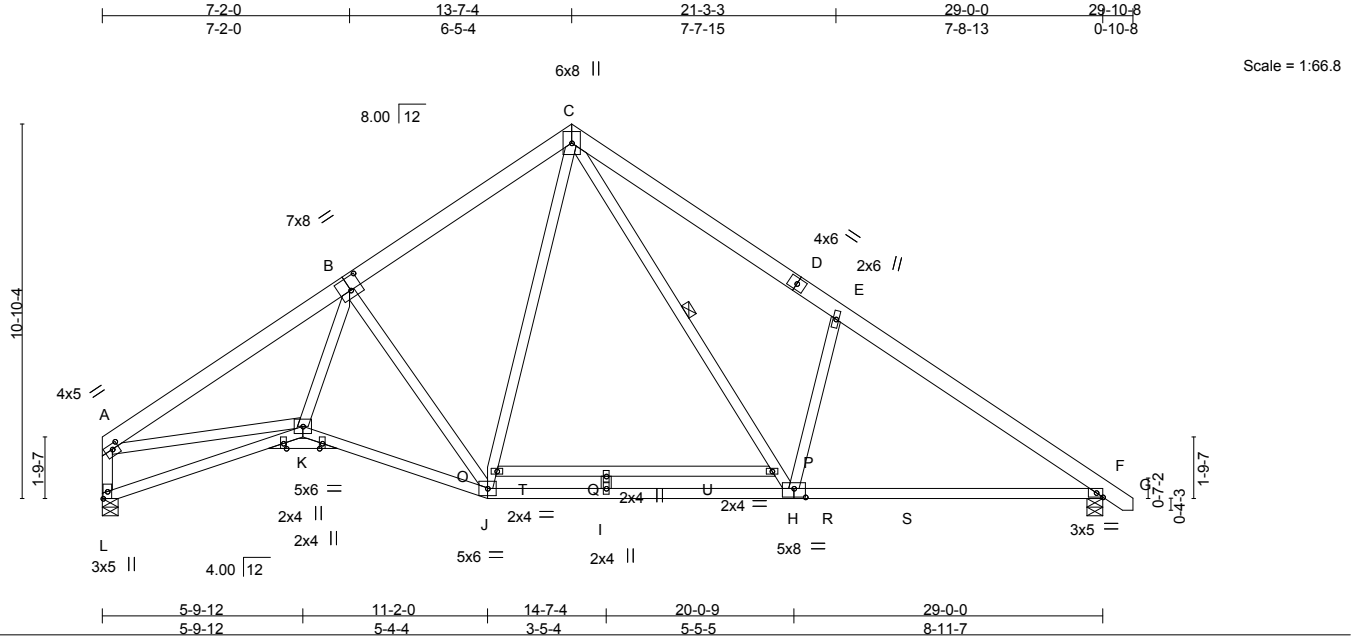


Plate Offsets (X,Y)-- [A:0-2-4,0-1-12], [B:0-4-0,0-4-8], [F:0-2-4,Edge], [H:0-4-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-12	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.86	Vert(LL) -0.28 H-I >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.88	Vert(TL) -0.46 H-I >745 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.10 F n/a n/a		
	Code IRC2009/TPI2007			Weight: 212 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 H-J,F-H: 2x4 SP No.1  
 WEBS 2x4 SP No.3 \*Except\*  
 O-P: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-6-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 7-6-8 oc bracing.  
 WEBS 1 Row at midpt C-H

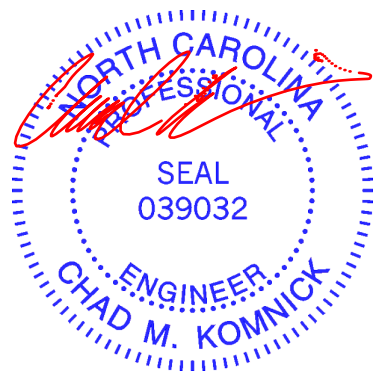
**REACTIONS.** (lb/size) L=1304/0-5-8, F=1424/0-5-8  
 Max Horz L=-584(LC 5)  
 Max Uplift L=-493(LC 7), F=-588(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-2218/845, B-C=-1394/827, C-D=-1740/1079, D-E=-1888/1031, E-F=-1976/812,  
 A-L=1271/589  
 BOT CHORD K-L=-552/626, J-K=-615/1622, I-J=-121/931, H-I=-121/931, H-R=-477/1548,  
 R-S=-477/1548, F-S=-477/1548  
 WEBS B-K=-262/762, B-J=-853/684, J-O=-320/461, C-O=-308/521, C-P=-603/962, H-P=-622/928,  
 E-H=-439/648, A-K=-497/1660

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
  - 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.
  - Bearing at joint(s) L considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) L=493, F=588.
  - Load case(s) 1, 2, 11, 12 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

Continued on page 2



March 3, 2016

**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.

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	A05	ROOF SPECIAL	2	1	I26142278

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:04 2016 Page 2  
ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-R61xqjgu92DIYzGPMBru?UaGfe3fJej2K4rUCqzef7H

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-C=-62, C-G=-62, K-L=-21, J-K=-21, J-R=-21, R-S=-62, F-S=-21, T-U=-40
- 2) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: A-C=-21, C-G=-21, K-L=-41, J-K=-41, F-J=-41, T-U=-40
- 11) 1st Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-C=-62, C-G=-21, K-L=-21, J-K=-21, J-R=-21, R-S=-62, F-S=-21, T-U=-40
- 12) 2nd Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-C=-21, C-G=-62, K-L=-21, J-K=-21, J-R=-21, R-S=-62, F-S=-21, T-U=-40

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

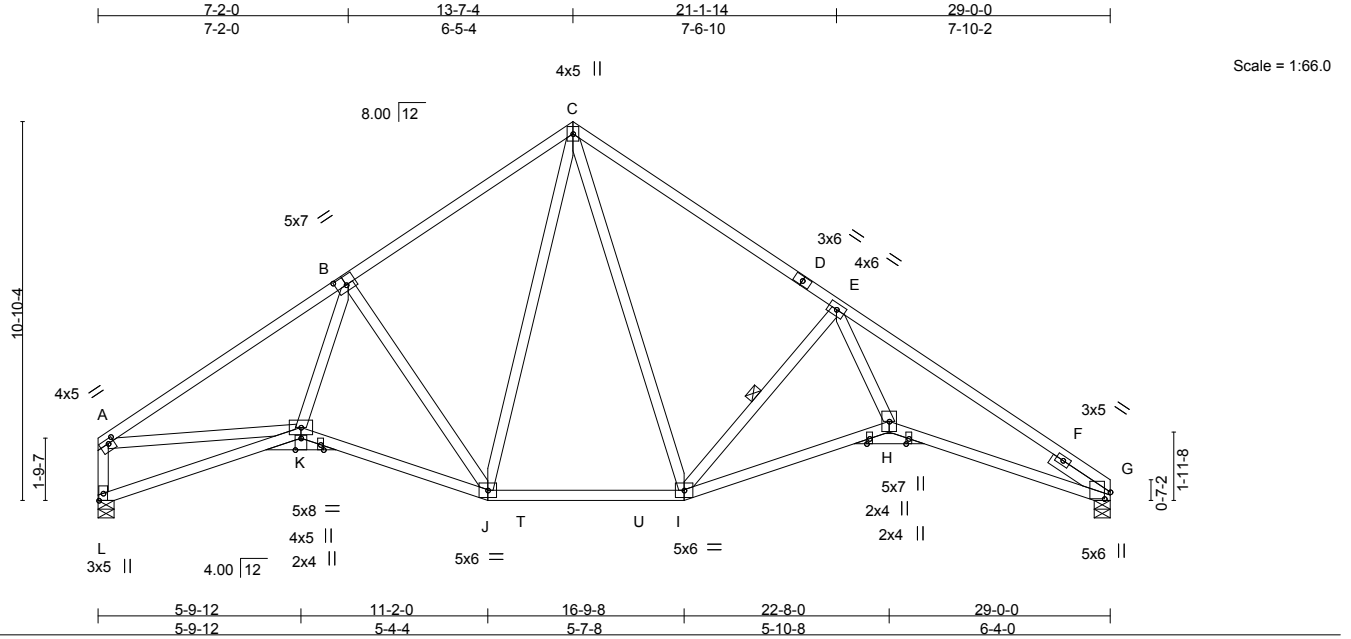
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



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Edenton, NC 27932

Job 764156-NC	Truss A06	Truss Type Roof Special	Qty 3	Ply 1	H&H-NC/Biltmore 126142279
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Builders FirstSource, Piney Flats, TN 37686 7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:04 2016 Page 1  
 ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-R61xqjgu92DIYzGPMBru?UaCle2ZJea2K4rUCqzef7H



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.77	Vert(LL) -0.19	I-J	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(TL) -0.41	H-I	>845	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.88	Horz(TL) 0.27	G	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)						
	Code IRC2009/TPI2007						Weight: 181 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1 \*Except\*  
 A-B: 2x4 SP No.2, D-G: 2x4 SP SS  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 G-H: 2x4 SP No.1  
 WEBS 2x4 SP No.3  
 SLIDER Right 2x4 SP No.3 2-0-0

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 WEBS 1 Row at midpt E-I

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) L=1225/0-5-8, G=1219/0-5-8  
 Max Horz L=-552(LC 5)  
 Max Uplift L=-481(LC 7), G=-498(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-2034/853, B-C=-1279/806, C-D=-1252/835, D-E=-1383/790, E-F=-3010/1264, F-G=-1106/285, A-L=-1194/591  
 BOT CHORD K-L=-561/594, J-K=-635/1513, J-T=-147/875, T-U=-147/875, I-U=-147/875, H-I=-718/1901, G-H=-925/2541  
 WEBS B-K=-264/689, B-J=-818/674, C-J=-305/441, C-I=-378/587, E-I=-1212/789, E-H=-494/1568, A-K=-484/1514

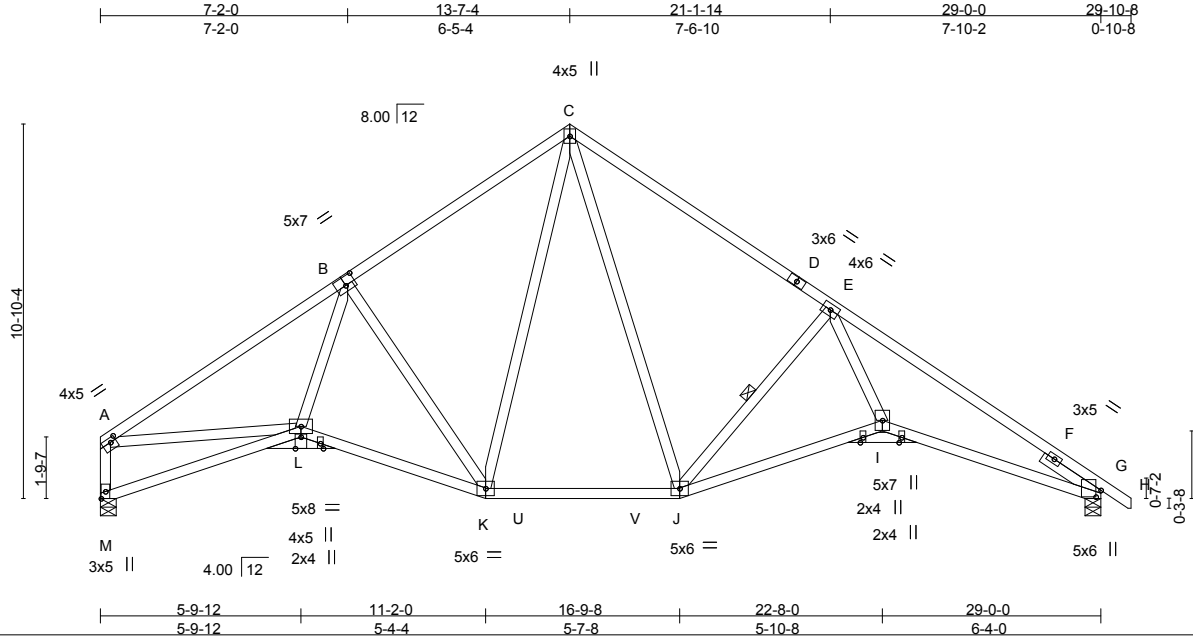
- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Bearing at joint(s) L, G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) L=481, G=498.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

Job 764156-NC	Truss A07	Truss Type ROOF SPECIAL	Qty 3	Ply 1	H&H-NC/Biltmore 126142280
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Builders FirstSource, Piney Flats, TN 37686 7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:05 2016 Page 1  
 ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-vJbJ23hWwLLcA7rcvwM7Yh7NT2OZ25vCYkb2kGzef7G



Scale = 1:66.8

Plate Offsets (X,Y)-- [A:0-2-0-0-1-8]. [B:0-3-8-0-3-0]. [G:0-2-5-0-1-12]. [L:0-4-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.19	J-K >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(TL)	-0.41	I-J >840	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(TL)	0.27	G n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)						
								Weight: 183 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1 \*Except\*  
 A-B: 2x4 SP No.2, D-H: 2x4 SP SS  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 G-I: 2x4 SP No.1  
 WEBS 2x4 SP No.3  
 SLIDER Right 2x4 SP No.3 2-0-0

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 WEBS 1 Row at midpt E-J

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) M=1225/0-5-8, G=1269/0-5-8  
 Max Horz M=-570(LC 5)  
 Max Uplift M=-481(LC 7), G=-565(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-2033/818, B-C=-1278/804, C-D=-1250/833, D-E=-1381/788, E-F=-3002/1220,  
 F-G=-1063/253, A-M=-1194/580  
 BOT CHORD L-M=-546/613, K-L=-607/1512, K-U=-127/874, U-V=-127/874, J-V=-127/874,  
 I-J=-666/1896, G-I=-856/2533  
 WEBS B-L=-252/689, B-K=-817/664, C-K=-305/441, C-J=-376/584, E-J=-1207/767,  
 E-I=-453/1562, A-L=-468/1512

- NOTES-** (8)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Bearing at joint(s) M, G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=481, G=565.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

Job 764156-NC	Truss A08	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Biltmore 126142281
Job Reference (optional)					

Builders FirstSource, Piney Flats, TN 37686 7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:06 2016 Page 1  
 ID:h9G7FShkwdXsWxp5Zi0SNOzktN2-NV9hFPi8gtTnGGQctM4vfhSRwgnh8LnOKbGjzef7F

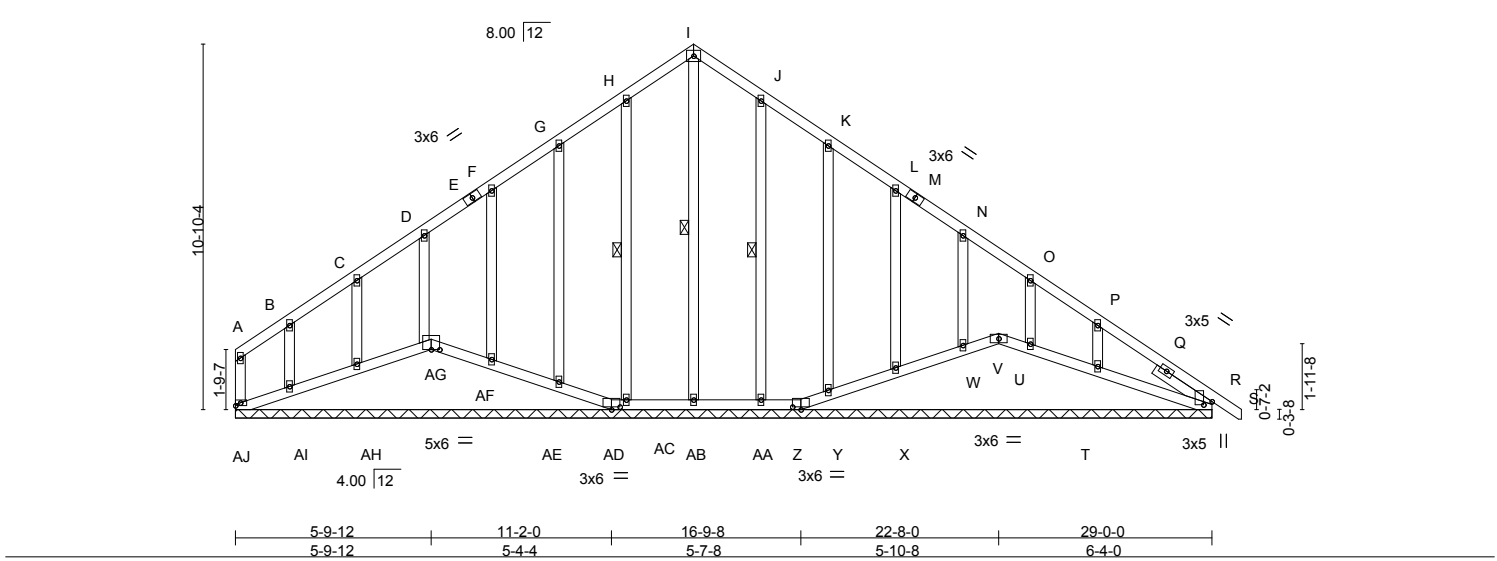


Plate Offsets (X,Y)-- [R:0-1-3,0-3-0]. [Z:0-3-0,0-1-0]. [AD:0-3-0,0-1-0]. [AG:0-3-0,0-0-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	<b>L/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	0.00	S	n/r	120	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(TL)	0.00	S	n/r	90	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(TL)	0.03	R	n/a	n/a	
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
Weight: 206 lb									FT = 20%

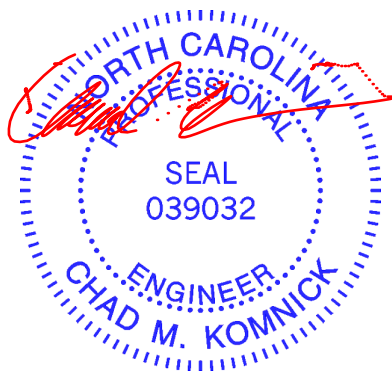
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt I-AB, H-AC, J-AA
OTHERS 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 2-0-0	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.


**REACTIONS.** All bearings 29-0-0.  
 (lb) - Max Horz AJ=574(LC 5)  
 Max Uplift All uplift 100 lb or less at joint(s) AB, U except AJ=-276(LC 5),  
 AG=-351(LC 6), AD=-151(LC 5), Z=-153(LC 5), V=-234(LC 6), R=-160(LC 6),  
 AC=-117(LC 7), AE=-161(LC 7), AF=-129(LC 7), AH=-112(LC 7), AI=-248(LC 7),  
 AA=-125(LC 8), Y=-156(LC 8), X=-136(LC 8), W=-154(LC 8), T=-272(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) AD, Z, R, AC, AE, AF, AH, AI, AA,  
 Y, X, W, U except AJ=289(LC 6), AG=390(LC 5), V=313(LC 5), AB=568(LC 7),  
 T=251(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD D-E=-37/308, E-F=0/320, F-G=-38/414, G-H=-37/521, H-I=-40/605, I-J=-43/605,  
 J-K=-111/549, K-L=-181/469, L-M=-238/423, M-N=-250/411, N-O=-325/436, O-P=-370/426,  
 P-Q=-518/492, Q-R=-531/480  
 BOT CHORD AI-AJ=-429/521, AH-AI=-403/501, AG-AH=-409/504, AF-AG=-400/499, AE-AF=-400/500,  
 AD-AE=-398/500, AC-AD=-376/471, AB-AC=-376/471, AA-AB=-376/471, Z-AA=-376/471,  
 Y-Z=-397/500, X-Y=-399/500, W-X=-400/500, V-W=-398/496, U-V=-396/496, T-U=-403/501,  
 R-T=-397/497  
 WEBS I-AB=-543/27, P-T=-180/291

- NOTES-** (12)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCCL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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.



**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.

**ENGINEERING BY**  
  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	A08	GABLE	1	1	I26142281

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:06 2016 Page 2  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-NV9hFPi8gfTnGQoTctM4vfhSRwgnh8LnOKbGjzef7F

**NOTES-** (12)

- 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) AB, U except (jt=lb) AJ=276, AG=351, AD=151, Z=153, V=234, R=160, AC=117, AE=161, AF=129, AH=112, AI=248, AA=125, Y=156, X=136, W=154, T=272.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) AG, V, AE, AF, AH, AI, Y, X, W, U, T.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**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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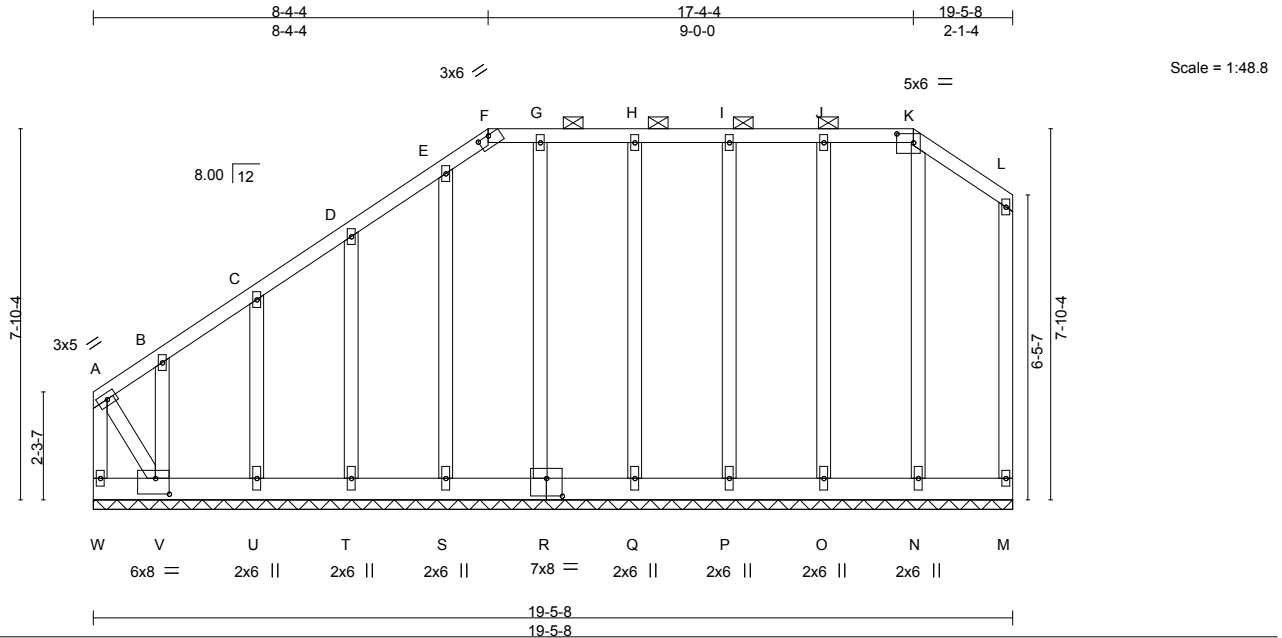


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore	126142282
764156-NC	A09	GABLE	1	1		

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:07 2016 Page 1  
ID:h9G7FShkwdXsXwp5ZI0SNOzkn2-shj3TkjmRybKPQ?\_1JObd6Cv5rHeWaiV0248p9ze7E



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.06	in	(loc)	l/defl	L/d	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(LL)	n/a	-	n/a		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Vert(TL)	n/a	-	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)		Horz(TL)	-0.00	M	n/a		
Weight: 172 lb FT = 20%											

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

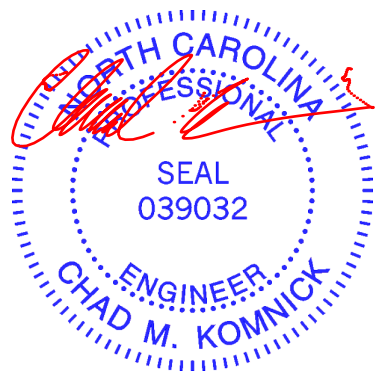
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): F-K.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 19-5-8.  
 (lb) - Max Horz W=300(LC 7)  
 Max Uplift All uplift 100 lb or less at joint(s) M, N, S except W=-186(LC 5), O=-115(LC 6), P=-106(LC 6), Q=-116(LC 5), R=-108(LC 6), T=-149(LC 7), U=-145(LC 7), V=-574(LC 7)  
 Max Grav All reactions 250 lb or less at joint(s) M, N, O, P, Q, R, S, T, U, V except W=612(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-W=-596/188, A-B=-335/115  
 BOT CHORD V-W=-293/87  
 WEBS A-V=-163/524

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) M, N, S except (jt=lb) W=186, O=115, P=106, Q=116, R=108, T=149, U=145, V=574.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	A09	GABLE	1	1	I26142282

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:07 2016 Page 2  
 ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-shj3TkjmRybKPQ?\_1JObd6Cv5rHeWaiV0248p9zef7E

**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 764156-NC	Truss A10	Truss Type Hip	Qty 1	Ply 1	H&H-NC/Biltmore 126142283
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Builders FirstSource, Piney Flats, TN 37686

7,640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:07 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-shj3TkmRybKPKQ?\_1JObd6CoXr9GW5dV0248p9ze7E

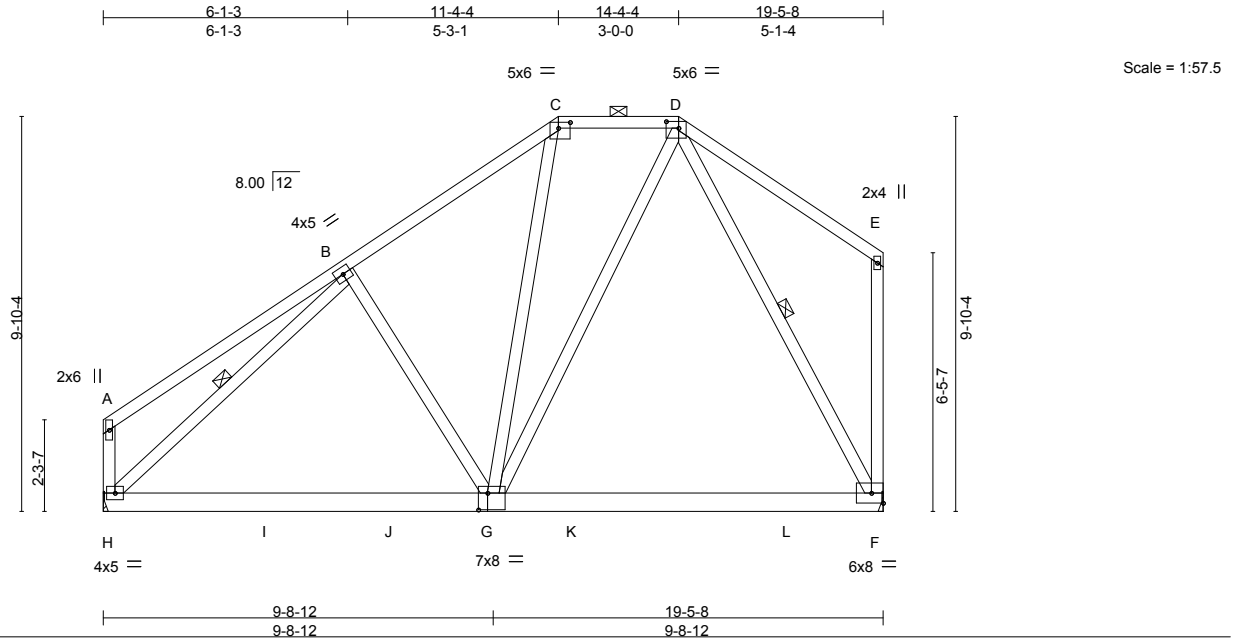


Plate Offsets (X,Y)-- [C:0-3-8,0-1-12], [D:0-3-12,0-2-0], [G:0-2-12,0-5-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.12	F-G	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(TL)	-0.21	F-G	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(TL)	0.01	F	n/a	n/a		
BCDL 10.0	Code	IRC2009/TPI2007	(Matrix)						Weight: 157 lb	FT = 20%

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

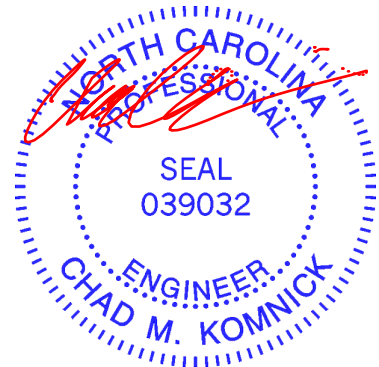
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-D.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt B-H, D-F

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) H=908/Mechanical, F=963/Mechanical  
Max Horz H=347(LC 6)  
Max Uplift H=-281(LC 7), F=-358(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-817/433, C-D=-558/428  
BOT CHORD H-I=-467/672, I-J=-467/672, G-J=-467/672, G-K=-156/354, K-L=-156/354, F-L=-156/354  
WEBS B-G=-162/426, D-G=-228/499, B-H=-838/187, D-F=-720/316

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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, 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) H=281, F=358.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

**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 764156-NC	Truss A11	Truss Type Hip	Qty 1	Ply 1	H&H-NC/Biltmore 126142284
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Builders FirstSource, Piney Flats, TN 37686 7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:08 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-KtHSg4jOCGB1aZBb1wq9KlsJFQMFTReFipILbze7D

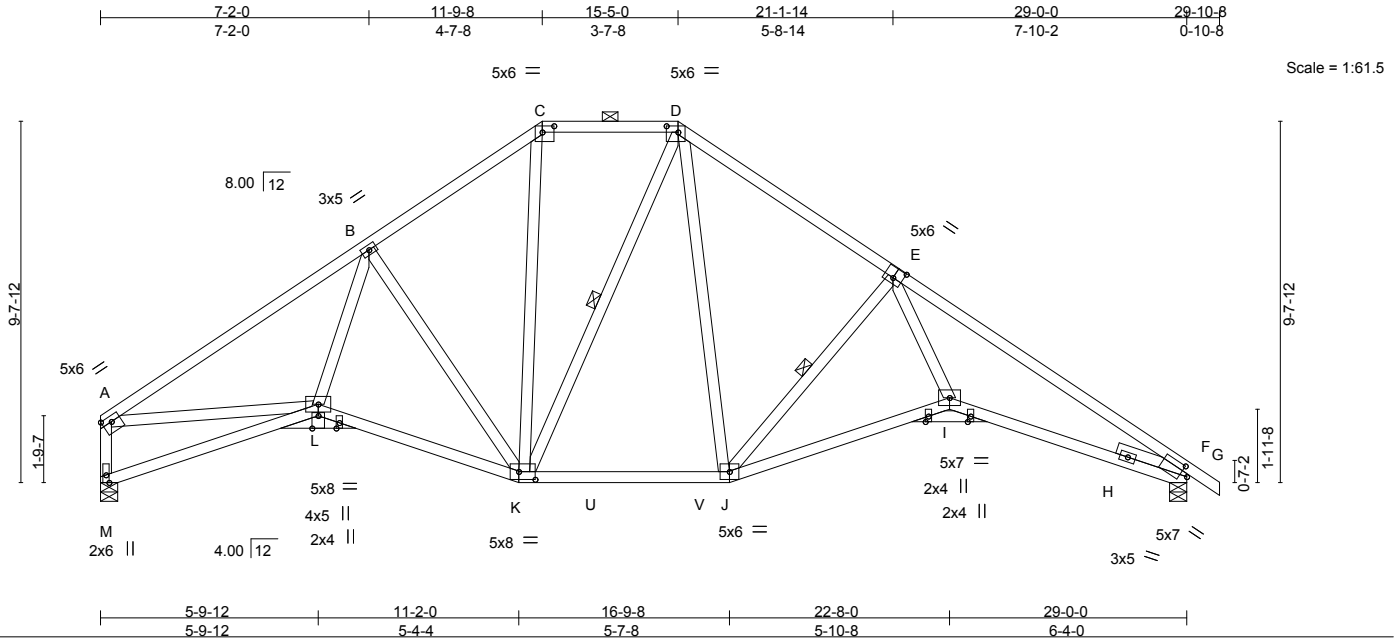


Plate Offsets (X,Y)-- [A:Edge,0-1-12], [C:0-3-12,0-2-0], [D:0-3-12,0-2-0], [E:0-3-0-0-3-4], [F:0-2-4-0-2-10], [K:0-5-4-0-2-8], [L:0-4-0,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.18 J-K >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.88	Vert(TL) -0.43 I-J >809 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(TL) 0.26 F n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-M)			
				Weight: 192 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); C-D.
BOT CHORD 2x4 SP No.2 *Except* F-I: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-7-2 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt D-K, E-J
SLIDER Right 2x4 SP No.3 2-0-0	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) M=1212/0-5-8, F=1266/0-5-8  
Max Horz M=-461(LC 5)  
Max Uplift M=-470(LC 7), F=-558(LC 8)

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

TOP CHORD A-B=-1998/818, B-C=-1253/802, C-D=-926/702, D-E=-1367/821, E-F=-2973/1224, A-M=-1184/582

BOT CHORD L-M=-463/531, K-L=-540/1463, K-U=-164/970, U-V=-164/970, J-V=-164/970, I-J=-670/1893, H-I=-849/2484, F-H=-863/949

WEBS B-L=-259/680, B-K=-773/587, C-K=-278/451, D-K=-234/253, D-J=-307/530, E-J=-1171/712, E-I=-451/1516, A-L=-436/1468

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical 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.
  - 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.
  - Bearing at joint(s) M, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=470, F=558.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

Job 764156-NC	Truss A12	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Biltmore	I26142285
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:08 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-KtHSg4jOCGjB1aZBb1wq9KI2KfclFdDeFipilBzef7D

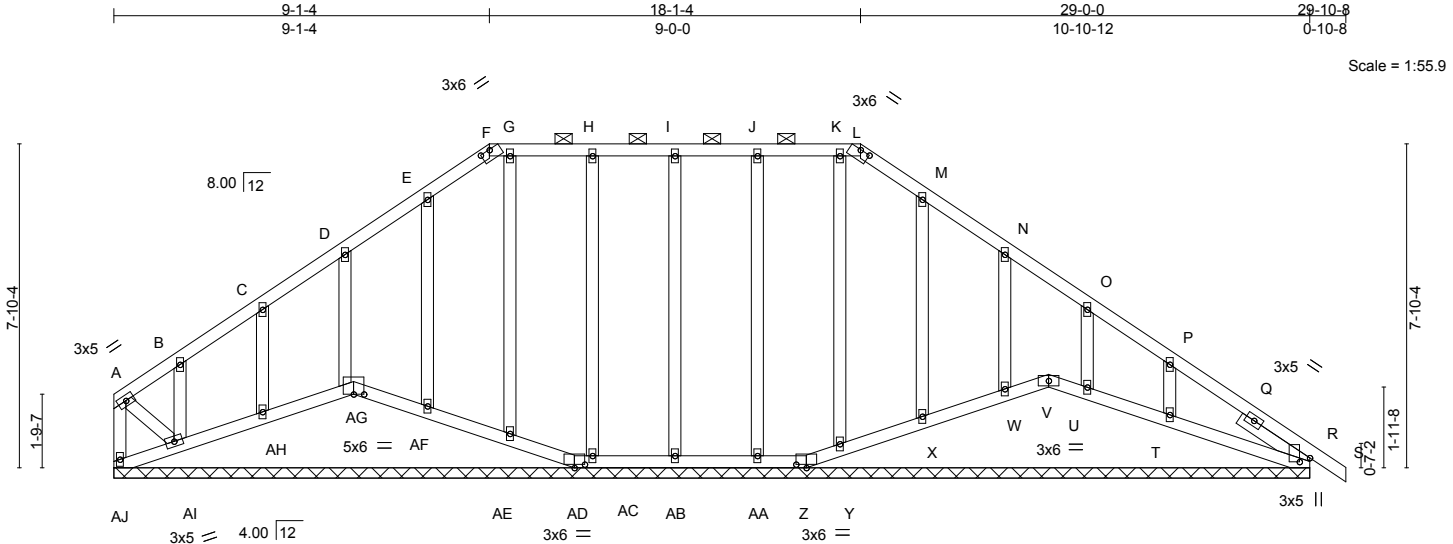


Plate Offsets (X,Y)-- [F:0-3-0-0-0-2]. [L:0-3-0-0-0-2]. [R:0-1-3-0-3-0]. [Z:0-3-0-0-1-0]. [AD:0-3-0-0-1-0]. [AG:0-3-0-0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	0.00	S	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	0.00	S	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(TL)	0.01	R	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						Weight: 195 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  
SLIDER Right 2x4 SP No.3 2-0-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): F-L.  
BOT CHORD Rigid ceiling directly applied or 9-11-10 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 29-0-0.  
(lb) - Max Horz AJ=-429(LC 5)  
Max Uplift All uplift 100 lb or less at joint(s) AD, Z, V, AE, Y, X except  
AJ=-420(LC 5), AG=-121(LC 6), R=-113(LC 8), AB=-104(LC 6), AC=-134(LC 5),  
AF=-101(LC 7), AH=-137(LC 7), AI=-380(LC 6), AA=-124(LC 5), W=-168(LC 8),  
U=-101(LC 8), T=-256(LC 8)  
Max Grav All reactions 250 lb or less at joint(s) AG, AD, Z, V, R, AB, AC, AE, AF,  
AH, AA, Y, X, W, U, T except AJ=463(LC 6), AI=307(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-266/234, D-E=-69/273, E-F=-65/318, F-G=-27/298, G-H=-27/298, H-I=-27/298,  
I-J=-27/298, J-K=-27/298, K-L=-27/298, L-M=-65/315, A-AJ=-340/288  
BOT CHORD AI-AJ=-354/426  
WEBS P-T=-175/278, A-AI=-276/342

- NOTES-** (14)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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.
  - 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) AD, Z, V, AE, Y, X except (jt=lb) AJ=420, AG=121, R=113, AB=104, AC=134, AF=101, AH=137, AI=380, AA=124, W=168, U=101, T=256.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) AG, V, AE, AF, AH, AI, Y, X, W, U, T.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



March 3, 2016

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	A12	GABLE	1	1	I26142285

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:09 2016 Page 2  
 ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-o4rqtQk0zar2ek8N9kR3iXHC4fy\_\_4TnTMZF1zef7C

**NOTES-** (14)

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**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.

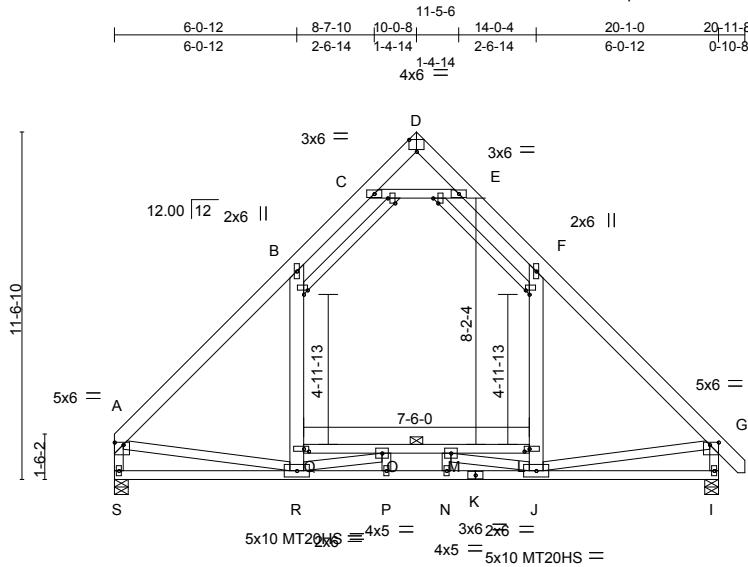


818 Soundside Road  
 Edenton, NC 27932

Job 764156-NC	Truss B01	Truss Type ATTIC	Qty 1	Ply 1	H&H-NC/Biltmore 126142286
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:09 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-o4rqtQk0zar2ek8N9kR3iXH3wfqb\_0snTMZFt1zef7C



Scale = 1:76.6

Plate Offsets (X,Y)--	[A:Edge,0-1-0]. [D:0-3-0,Edge]. [G:0-3-8,0-1-0]. [L:0-2-0,0-1-0]. [Q:0-2-0,0-1-0]. [T:0-2-0,Edge]. [U:0-1-8,0-1-12]. [V:0-2-0,Edge]. [W:0-1-8,0-1-12]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	0.20	R	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(TL)	-0.32	O-Q	>735	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(TL)	0.04	I	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)	Attic	-0.08	L-Q	1231		Weight: 191 lb FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
T-U,V-W: 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
F-J,B-R: 2x6 SP No.2, C-E,A-S,G-I: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
7-3-10 oc bracing: R-S.  
5-6-0 oc bracing: L-Q

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) S=1393/0-5-8, I=1449/0-5-8  
Max Horz S=-603(LC 5)  
Max Uplift S=-106(LC 8), I=-151(LC 8)

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

TOP CHORD A-B=-1478/128, B-C=-820/317, C-D=-159/470, D-E=-158/472, E-F=-818/314,  
F-G=-1485/137, A-S=-1332/185, G-I=-1387/256  
BOT CHORD R-S=-608/674, P-R=0/2002, N-P=0/2002, K-N=0/2002, J-K=0/2002, I-J=-167/254,  
O-Q=-535/556, M-O=-1122/0, L-M=-563/585  
WEBS J-L=-45/375, F-L=0/630, Q-R=-51/362, B-Q=0/618, C-E=-1545/669, A-R=-41/714,  
G-J=-71/657, O-R=-1252/391, J-M=-1270/359

**NOTES-** (12)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 MT20 plates unless otherwise indicated.
- 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.
- 7) Ceiling dead load (5.0 psf) on member(s), B-C, E-F, C-E; Wall dead load (10.0psf) on member(s), F-L, B-Q
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. O-Q, M-O, L-M
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) S=106, I=151.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Attic room checked for L/360 deflection.
- 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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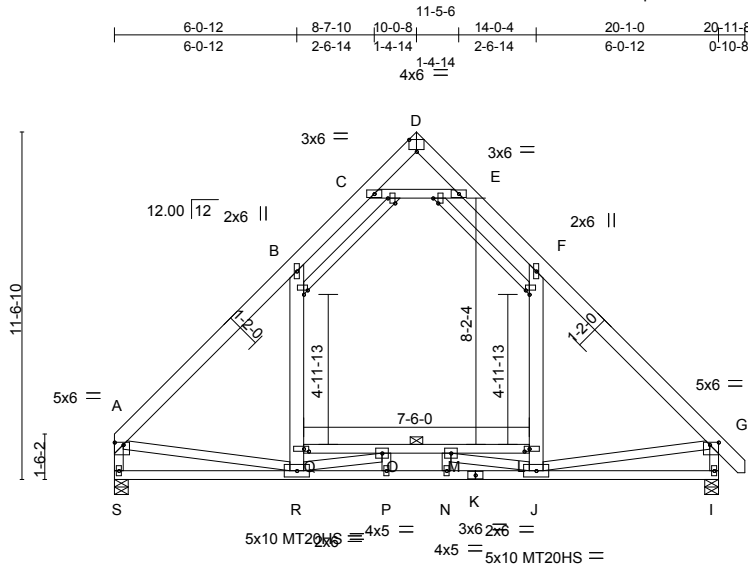


818 Soundside Road  
Edenton, NC 27932

Job 764156-NC	Truss B02	Truss Type ATTIC	Qty 5	Ply 1	H&H-NC/Biltmore 126142287
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Builders FirstSource, Piney Flats, TN 37686

7,640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:10 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-GGPC5mlfktzuGujZiSyIFlqEg3AqjT5xi0lpPUzef7B



Scale = 1:76.6

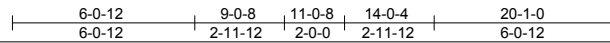


Plate Offsets (X,Y)-- [A:Edge,0-1-0], [D:0-3-0,Edge], [G:0-3-8,0-1-0], [L:0-2-0,0-1-0], [Q:0-2-0,0-1-0], [T:0-2-0,Edge], [U:0-1-8,0-1-12], [V:0-2-0,Edge], [W:0-1-8,0-1-12]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	0.20	R	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(TL)	-0.32	O-Q	>735	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(TL)	0.04	I	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)	Attic	-0.08	L-Q	1231		
								Weight: 191 lb	FT = 20%

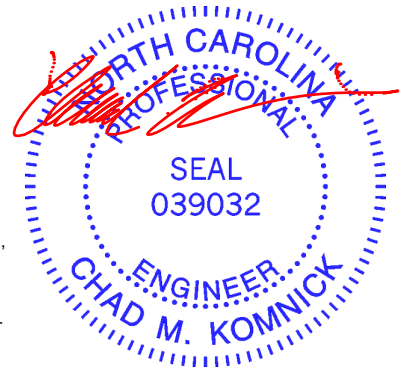
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals.
T-U,V-W: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SP No.2	7-3-10 oc bracing: R-S.
WEBS 2x4 SP No.3 *Except*	5-6-0 oc bracing: L-Q
F-J,B-R: 2x6 SP No.2, C-E,A-S,G-I: 2x4 SP No.2	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) S=1393/0-5-8, I=1449/0-5-8  
Max Horz S=603(LC 5)  
Max Uplift S=106(LC 8), I=151(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-1478/128, B-C=-820/317, C-D=-159/470, D-E=-158/472, E-F=-818/314,  
F-G=-1485/137, A-S=-1332/185, G-I=-1387/256  
BOT CHORD R-S=-608/674, P-R=0/2002, N-P=0/2002, K-N=0/2002, J-K=0/2002, I-J=-167/254,  
O-Q=-535/556, M-O=-1122/0, L-M=-563/585  
WEBS J-L=-45/375, F-L=0/630, Q-R=-51/362, B-Q=0/618, C-E=-1545/669, A-R=-41/714,  
G-J=-71/657, O-R=-1252/391, J-M=-1270/359

- NOTES-** (12)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 MT20 plates unless otherwise indicated.
  - 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.
  - 7) Ceiling dead load (5.0 psf) on member(s), B-C, E-F, C-E; Wall dead load (10.0psf) on member(s), F-L, B-Q
  - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. O-Q, M-O, L-M
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) S=106, I=151.
  - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) Attic room checked for L/360 deflection.
  - 12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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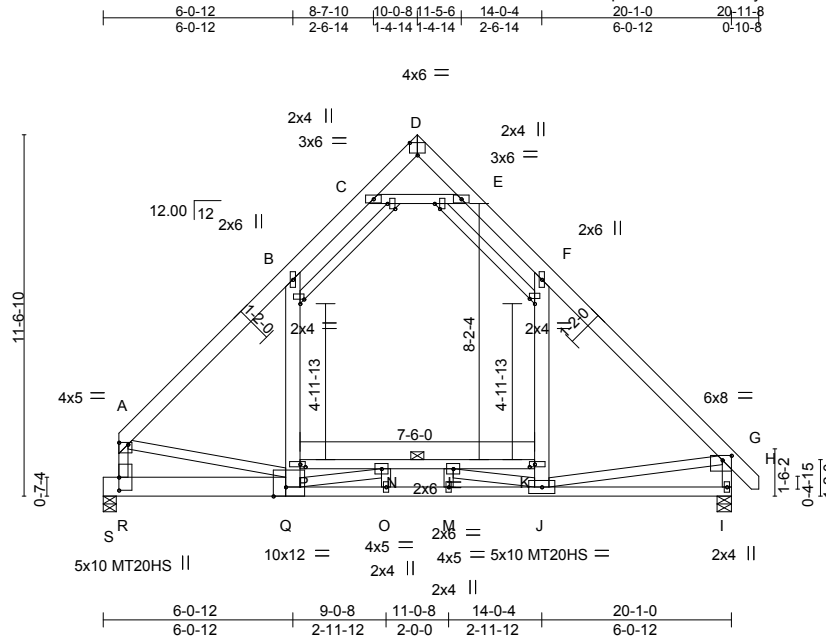


818 Soundside Road  
Edenton, NC 27932

Job 764156-NC	Truss B03	Truss Type ATTIC	Qty 2	Ply 1	H&H-NC/Biltmore 126142288
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Builders FirstSource, Piney Flats, TN 37686

7,640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:11 2016 Page 1  
ID:h9G7FShkwDXsXwp5Zi0SN0zkt2-kSyal6mHVB5lu2iIG9TXnyNLYSVGSwM4xg2Mywzef7A



Scale = 1:73.7

Plate Offsets (X,Y)-- [A:Edge,0-0-12], [D:0-3-0,Edge], [G:0-3-8,0-1-12], [K:0-2-0,0-1-0], [P:0-2-0,0-1-0], [Q:0-4-12,Edge], [R:0-5-0,0-0-0], [T:0-2-0,Edge], [U:0-1-8,0-1-12], [V:0-2-0,Edge], [W:0-2-0,Edge]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.99	Vert(LL)	0.21	O-Q	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(TL)	-0.35	N-P	>675	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Horz(TL)	0.03	I	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Attic	-0.08	K-P	1211		
	Code IRC2009/TP12007					360		
							Weight: 198 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2 \*Except\*  
T-U,V-W: 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
Q-S: 2x8 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
F-J,B-Q: 2x6 SP No.2, C-E,G-I: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
5-7-0 oc bracing: K-P

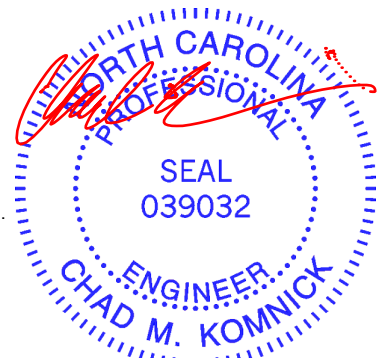
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) S=1367/0-5-0, I=1444/0-5-8  
Max Horz S=-611(LC 5)  
Max Uplift S=-89(LC 8), I=-152(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-1481/136, B-C=-812/310, C-D=-143/465, D-E=-148/459, E-F=-819/313,  
F-G=-1482/136, A-R=-1393/166, G-I=-1381/254  
BOT CHORD R-S=-544/611, Q-R=-551/658, O-Q=0/1973, M-O=0/1968, J-M=0/1968, I-J=-180/264,  
N-P=-630/659, L-N=-1097/0, K-L=-548/584  
WEBS J-K=-50/369, F-K=0/624, P-Q=-230/427, B-P=-0/653, C-E=-1527/644, A-Q=-35/703,  
G-J=-66/644, N-Q=-1252/460, J-L=-1245/385

**NOTES-** (11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 MT20 plates unless otherwise indicated.
- 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) Ceiling dead load (5.0 psf) on member(s), B-C, E-F, C-E; Wall dead load (10.0psf) on member(s),F-K, B-P
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. N-P, L-N, K-L
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) S except (jt=lb) I=152.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Attic room checked for L/360 deflection.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3,2016

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818 Soundside Road  
Edenton, NC 27932

Job 764156-NC	Truss B04	Truss Type ATTIC	Qty 1	Ply 1	H&H-NC/Biltmore	126142289
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:11 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-kSyal6mHVB5lu2IIIG9TxyNP\_SVVSpr4xg2Mywzef7A

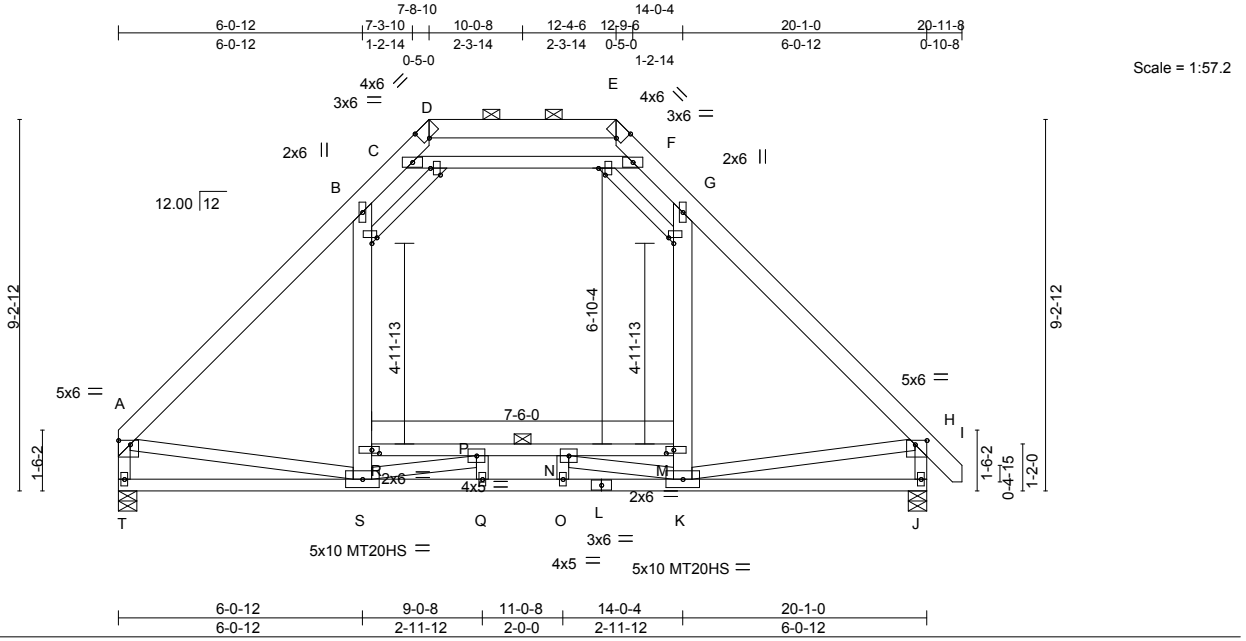


Plate Offsets (X,Y)-- [A:Edge,0-1-4], [D:0-2-2,Edge], [E:0-2-2,Edge], [H:0-3-8,0-1-4], [M:0-2-4,0-1-0], [R:0-2-4,0-1-0], [U:0-2-0,Edge], [V:0-1-8,0-1-12], [W:0-2-0,Edge], [X:0-1-8,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	0.16	S	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(TL)	-0.19	P-R	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(TL)	0.03	J	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix)	Attic	-0.07	M-R	1307		
								Weight: 185 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2 \*Except\*  
U-V,W-X: 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
G-K,B-S: 2x6 SP No.2, C-F: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-3-12 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): D-E.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
8-0-6 oc bracing: S-T.  
6-0-0 oc bracing: M-R

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

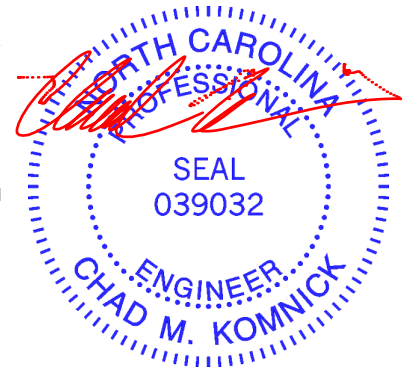
**REACTIONS.** (lb/size) T=1393/0-5-8, J=1449/0-5-8  
Max Horz T=-493(LC 5)  
Max Uplift T=-79(LC 7), J=-147(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-1509/161, B-C=-881/342, C-D=-90/320, E-F=-86/308, F-G=-880/339, G-H=-1514/169,  
A-T=-1339/200, H-J=-1394/271, D-E=-198/446  
BOT CHORD S-T=-504/553, Q-S=0/1874, O-Q=0/1874, L-O=0/1874, K-L=0/1874, P-R=-474/516,  
N-P=-912/0, M-N=-498/542  
WEBS K-M=-18/340, G-M=0/596, R-S=-22/332, B-R=0/588, C-F=-1413/562, A-S=-89/850,  
H-K=-113/815, P-S=-1203/333, K-N=-1218/307

**NOTES-** (14)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). B-C, F-G, C-F; Wall dead load (10.0psf) on member(s). G-M, B-R
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. P-R, N-P, M-N
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) T except (j=lb) J=147.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

Continued on page 2



March 3, 2016

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818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	B04	ATTIC	1	1	I26142289

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:11 2016 Page 2  
 ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-kSyal6mHVB5lu2IIG9TXnyNP\_SVVSpr4xg2Mywzef7A

14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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818 Soundside Road  
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Job 764156-NC	Truss B05	Truss Type ATTIC	Qty 1	Ply 1	H&H-NC/Biltmore 126142290
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:12 2016 Page 1

ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-CfWyWSnvGVdcWBtyqt\_mKAvZDssIBNrE9KnmUMzef79

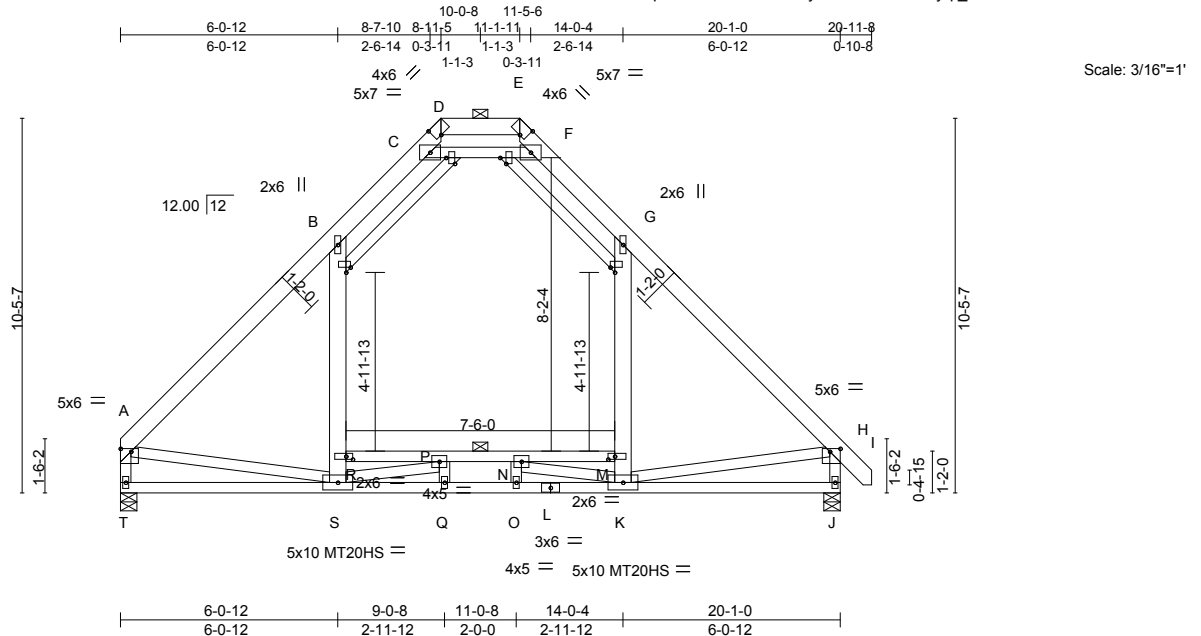


Plate Offsets (X,Y)-- [A:Edge,0-1-0], [D:0-2-2,Edge], [E:0-2-2,Edge], [H:0-3-8,0-1-0], [M:0-2-4,0-1-0], [R:0-2-4,0-1-0], [U:0-2-0,Edge], [V:0-1-8,0-1-12], [W:0-2-0,Edge], [X:0-1-8,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	0.19	S	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(TL)	-0.31	P-R	>765	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(TL)	0.04	J	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix)	Attic	-0.08	M-R	1247		
								Weight: 189 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
U-V,W-X: 2x4 SP No.2, D-E: 2x6 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
G-K,B-S: 2x6 SP No.2, C-F,A-T,H-J: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): D-E.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
7-7-9 oc bracing: S-T.  
5-7-0 oc bracing: M-R

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

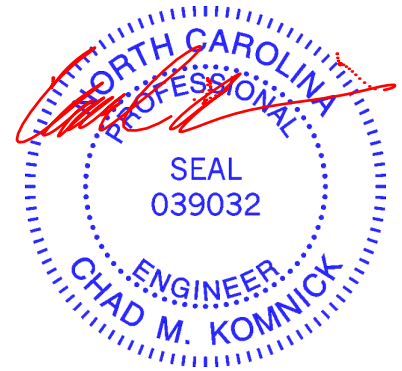
**REACTIONS.** (lb/size) T=1393/0-5-8, J=1449/0-5-8  
Max Horz T=-554(LC 5)  
Max Uplift T=-85(LC 8), J=-150(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-1480/136, B-C=-825/326, C-D=-280/831, E-F=-283/833, F-G=-823/324, G-H=-1488/145, A-T=-1332/191, H-J=-1387/262, D-E=-491/1352  
BOT CHORD S-T=-558/624, Q-S=0/1990, O-Q=0/1990, L-O=0/1990, K-L=0/1990, P-R=-521/534, N-P=-1104/0, M-N=-546/561  
WEBS K-M=-32/368, G-M=0/623, R-S=-38/355, B-R=0/612, C-F=-2238/913, A-S=-73/725, H-K=-101/670, P-S=-1243/368, K-N=-1261/338

**NOTES-** (14)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). B-C, F-G, C-F; Wall dead load (10.0psf) on member(s). G-M, B-R
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. P-R, N-P, M-N
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) T except (j=lb) J=150.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

Continued on page 2



March 3, 2016

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

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	B05	ATTIC	1	1	I26142290

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:12 2016 Page 2  
 ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-CfWyWSnvGVDcWBtyqt\_mKAvZDssIBNrE9KnvUMzef79

14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**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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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore	126142291
764156-NC	C01	GABLE	1	1		

Builders FirstSource, Piney Flats, TN 37686

7,640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:12 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-CfWYWSnvGVDcWBtyqt\_mKAvjYs\_bBSOE9KrvUMzef79



4x6 =

Scale = 1:55.9

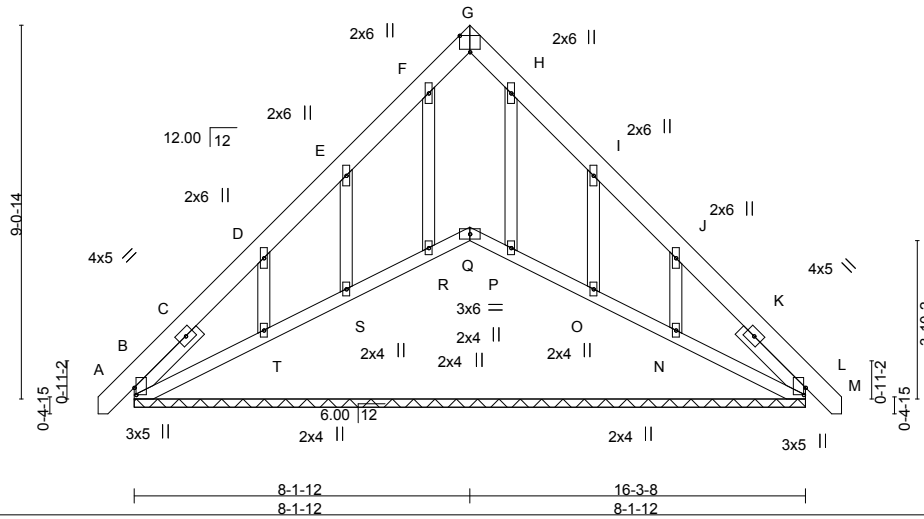


Plate Offsets (X,Y)-- [B:0-2-1.0-0-8], [G:0-3-0,Edge], [L:0-2-1.0-0-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	0.00	L	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	0.00	M	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(TL)	0.01	L	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 121 lb	FT = 20%

**LUMBER-**

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

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

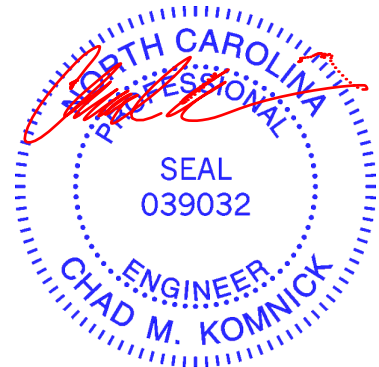
All bearings 16-3-8.  
(lb) - Max Horz B=-433(LC 5)  
Max Uplift All uplift 100 lb or less at joint(s) Q, L, R except B=-329(LC 5),  
S=-213(LC 7), T=-411(LC 7), O=-226(LC 8), N=-395(LC 8)  
Max Grav All reactions 250 lb or less at joint(s) L, R, S, T, P, O, N except  
B=345(LC 6), Q=300(LC 8)

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

TOP CHORD B-C=-426/279, C-D=-412/293, E-F=-88/321, H-I=-88/298, J-K=-266/147, K-L=-280/132  
BOT CHORD B-T=-113/338, S-T=-104/339, R-S=-104/340, Q-R=-102/334, P-Q=-102/334, O-P=-103/339,  
N-O=-105/339, L-N=-101/334  
WEBS D-T=-158/429, I-O=-115/252, J-N=-158/414

**NOTES-** (11)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 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) Q, L, R except (jt=L) B=329, S=213, T=411, O=226, N=395.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) Q, R, S, T, P, O, N.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore	126142292
764156-NC	C02	SCISSORS	1	1		

Builders FirstSource, Piney Flats, TN 37686

7,640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:13 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-gr4KjonX1oLT7LS8OaV?sNSnNG9ywshNO\_XT0pze78

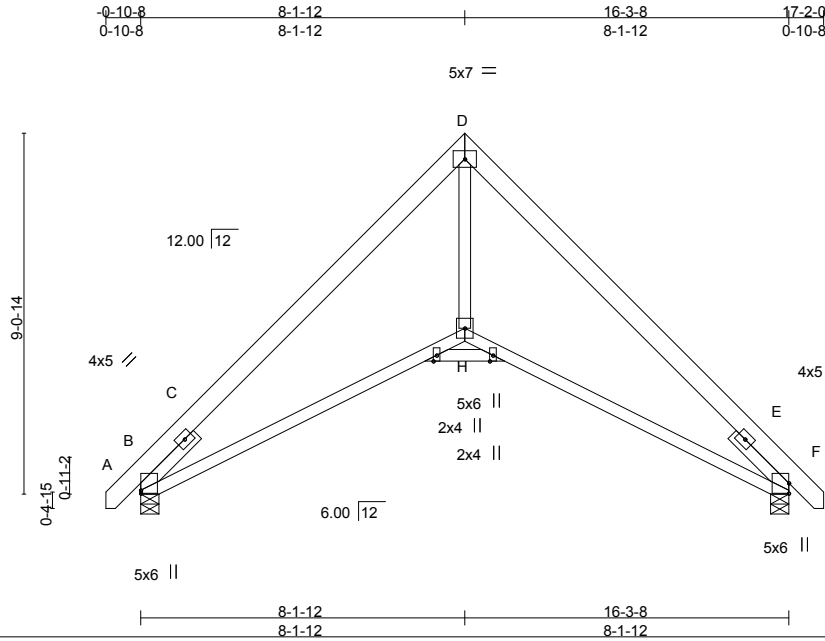


Plate Offsets (X,Y)-- [B:Edge,0-0-0]. [F:Edge,0-0-0]	
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0
TCLL 20.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IRC2009/TPI2007
<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d
TC 0.59	Vert(LL) 0.20 H-Q >963 240
BC 0.72	Vert(TL) -0.24 H-M >817 180
WB 0.32	Horz(TL) 0.22 F n/a n/a
(Matrix-M)	
<b>PLATES</b>	<b>GRIP</b>
MT20	244/190
	Weight: 103 lb FT = 20%

**LUMBER-**

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

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

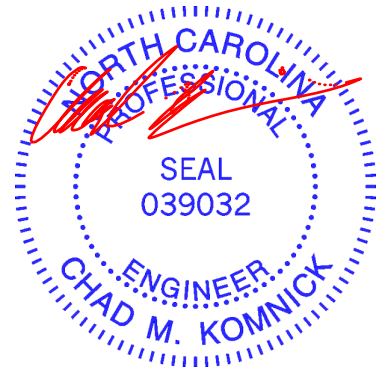
(lb/size) B=697/0-5-8, F=697/0-5-8  
 Max Horz B=-408(LC 5)  
 Max Uplift B=-312(LC 7), F=-312(LC 8)

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

TOP CHORD B-C=-556/77, C-D=-1005/251, D-E=-1005/363, E-F=-556/67  
 BOT CHORD B-H=-241/717, F-H=-221/717  
 WEBS D-H=-113/763

**NOTES-** (8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) B, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=312, F=312.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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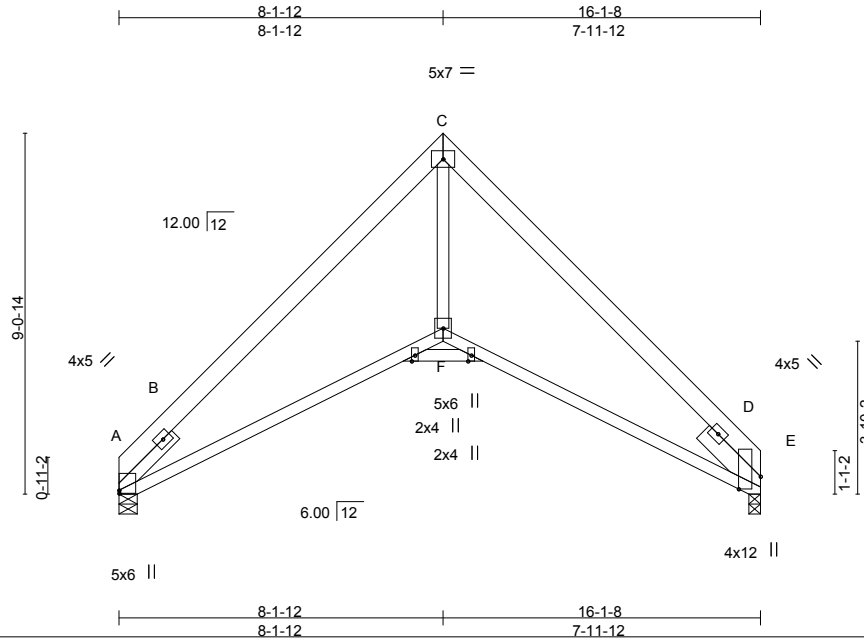


818 Soundside Road  
 Edenton, NC 27932

Job 764156-NC	Truss C03	Truss Type Scissor	Qty 4	Ply 1	H&H-NC/Biltmore 126142293
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:13 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-gr4KjonX1oLT7LS8OaV?sNSnLGA1wsmNO\_XT0pzeF78



Scale = 1:57.9

Plate Offsets (X,Y)-- [A:Edge,0-0-0]. [E:0-3-12,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	0.20	F-O >945	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(TL)	-0.25	F-K >786	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(TL)	0.20	E n/a	n/a		
BCDL 10.0	Code	IRC2009/TPI2007	(Matrix-M)						
								Weight: 99 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 9-10-8 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

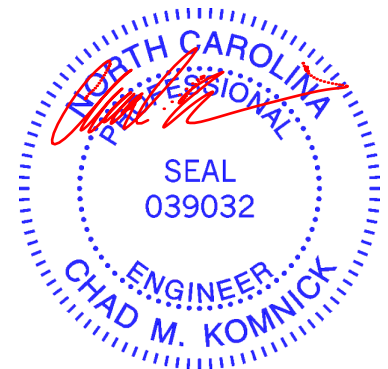
(lb/size) A=645/0-5-8, E=645/0-3-8  
 Max Horz A=401(LC 6)  
 Max Uplift A=261(LC 8), E=264(LC 7)

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

TOP CHORD A-B=-559/84, B-C=-991/303, C-D=-993/403, D-E=-552/145  
 BOT CHORD A-F=-278/707, E-F=-256/706  
 WEBS C-F=-145/751

**NOTES-** (8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) A, E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=261, E=264.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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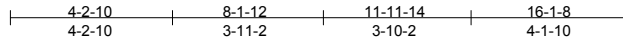


818 Soundside Road  
 Edenton, NC 27932

Job 764156-NC	Truss C04	Truss Type Common Girder	Qty 1	Ply 2	H&H-NC/Biltmore 126142294
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:14 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SN0zkt2-81ejx8o9o6TKIV1KxI0EPb70VgVbfEZWdeGOYFzef77



4x5 ||

Scale = 1:60.0

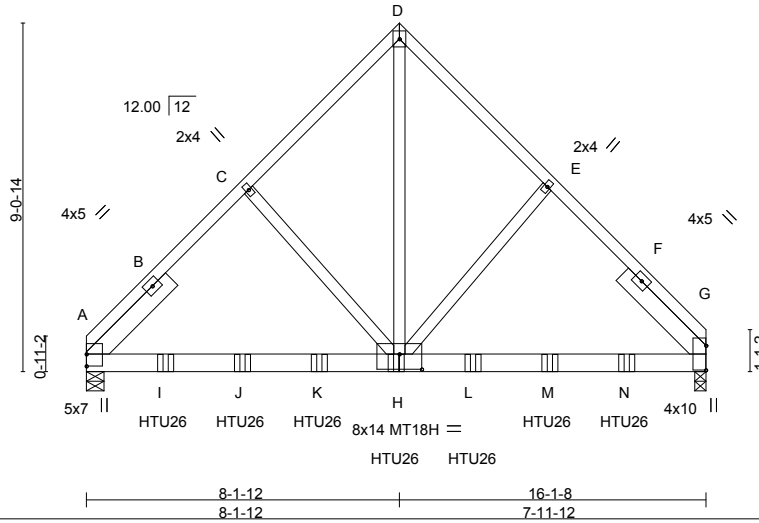


Plate Offsets (X,Y)-- [G:0-7-11.0-0-1]. [H:0-7-0.0-4-12]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	0.17	A-H	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(TL)	-0.31	A-H	>630	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.60	Horz(TL)	0.02	G	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 231 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP DSS  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x6 SP No.2 2-11-6, Right 2x6 SP No.2 3-0-1

**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) A=3956/0-5-8, G=3913/0-3-8  
 Max Horz A=-427(LC 3)  
 Max Uplift A=-1715(LC 6), G=-1721(LC 5)

**FORCES.**

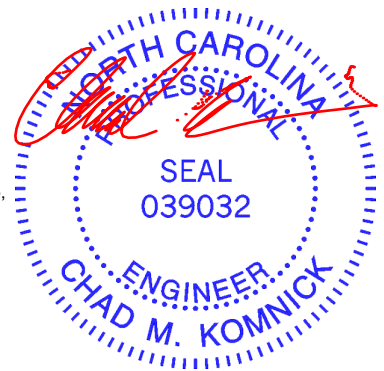
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-3684/1629, B-C=-3610/1670, C-D=-3527/1719, D-E=-3494/1715, E-F=-3599/1667,  
 F-G=-3671/1624  
 BOT CHORD A-I=-1202/2523, I-J=-1202/2523, J-K=-1202/2523, H-K=-1202/2523, H-L=-1013/2455,  
 L-M=-1013/2455, M-N=-1013/2455, G-N=-1013/2455  
 WEBS C-H=-137/382, D-H=-2210/4596, E-H=-143/381

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"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 0-9-0 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 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates 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) except (jt=lb) A=1715, G=1721.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASES per Standard

March 3,2016



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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore	I26142294
764156-NC	C04	Common Girder	1	<b>2</b>	Job Reference (optional)	

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:14 2016 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: A-D=-60, D-G=-60, A-G=-20

Concentrated Loads (lb)

Vert: H=-952(B) I=-952(B) J=-952(B) K=-952(B) L=-952(B) M=-909(B) N=-909(B)

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 Edenton, NC 27932



Job 764156-NC	Truss C05	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Biltmore 126142295
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:14 2016 Page 1  
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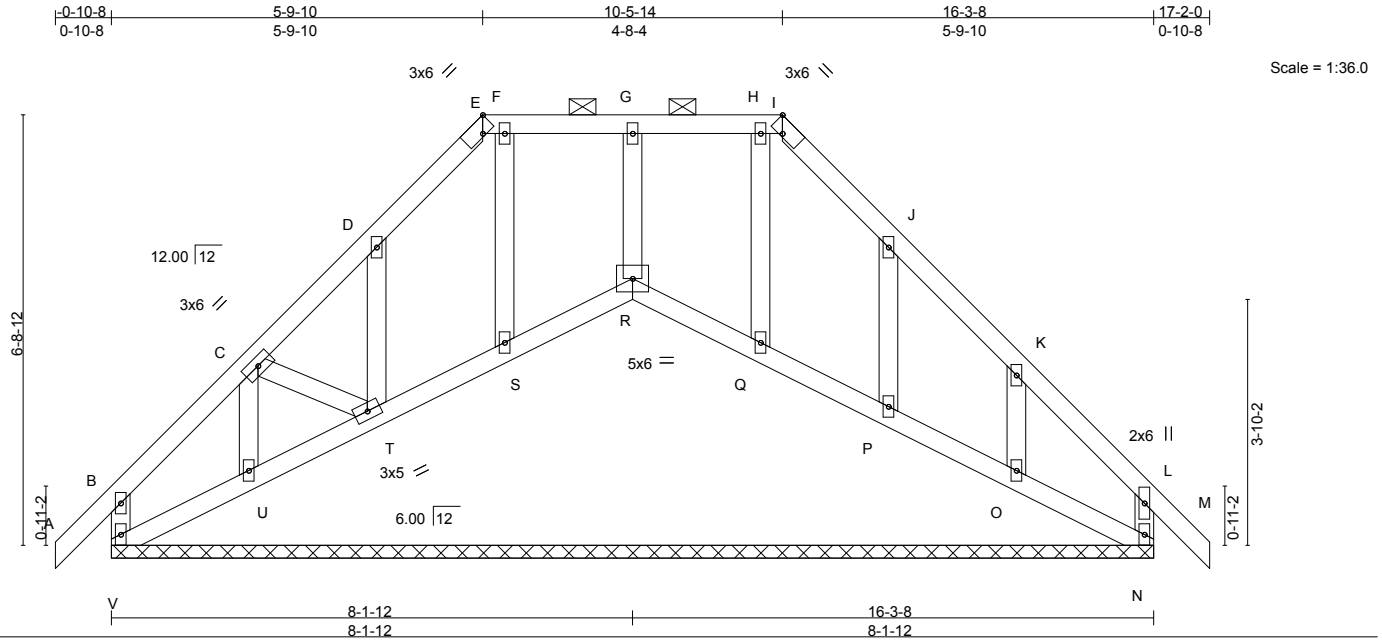


Plate Offsets (X,Y)-- [E:0-2-8,Edge], [I:0-2-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.00	M	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(TL)	-0.00	M	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(TL)	0.01	N	n/a		
BCDL 10.0	Code	IRC2009/TPI2007	(Matrix)					Weight: 94 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, and 2-0-0 oc purlins (6-0-0 max.): E-I.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: U-V,T-U.

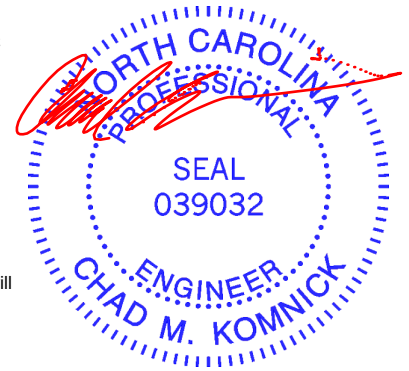
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 16-3-8.  
(lb) - Max Horz V=-352(LC 5)  
Max Uplift All uplift 100 lb or less at joint(s) Q except V=-243(LC 8), R=-141(LC 6), N=-168(LC 8), S=-126(LC 6), T=-359(LC 6), U=-187(LC 5), P=-166(LC 8), O=-293(LC 8)  
Max Grav All reactions 250 lb or less at joint(s) V, R, N, U, Q, P, O except S=258(LC 8), T=272(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD C-D=-186/311, D-E=-65/399, E-F=-9/322, F-G=-9/322, G-H=-9/322, H-I=-9/322, I-J=-46/380  
BOT CHORD U-V=-327/371, T-U=-320/365  
WEBS K-O=-114/280, C-T=-220/283

- NOTES-** (15)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) Q except (jt=lb) V=243, R=141, N=168, S=126, T=359, U=187, P=166, O=293.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) R, S, T, U, Q, P, O.

Continued on page 2



March 3, 2016

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	C05	GABLE	1	1	I26142295

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:15 2016 Page 2  
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**NOTES-** (15)

- 13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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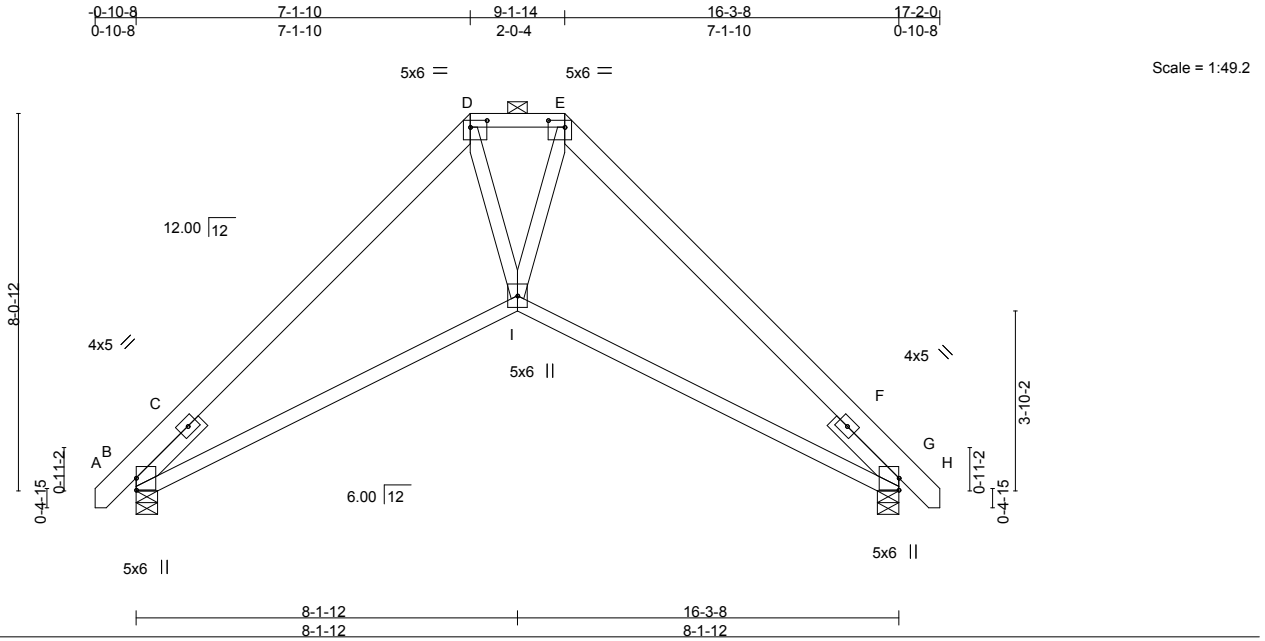


818 Soundside Road  
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Job 764156-NC	Truss C06	Truss Type HIP	Qty 1	Ply 1	H&H-NC/Biltmore	126142296
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:15 2016 Page 1  
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.14 I-P >999 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(TL)	-0.23 I-L >838 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(TL)	0.17 G n/a n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)				Weight: 102 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.2 \*Except\*  
D-E: 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x4 SP No.3 2-0-0, Right 2x4 SP No.3 2-0-0

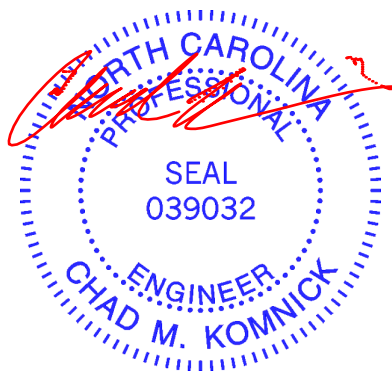
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); D-E.  
BOT CHORD Rigid ceiling directly applied or 9-0-9 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) B=697/0-5-8, G=697/0-5-8  
Max Horz B=-367(LC 5)  
Max Uplift B=-310(LC 7), G=-310(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-561/126, C-D=-998/273, D-E=-701/380, E-F=-998/308, F-G=-560/114  
BOT CHORD B-I=-375/708, G-I=-213/708  
WEBS D-I=-22/417, E-I=-352/512

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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.
  - 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.
  - Bearing at joint(s) B, G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=310, G=310.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

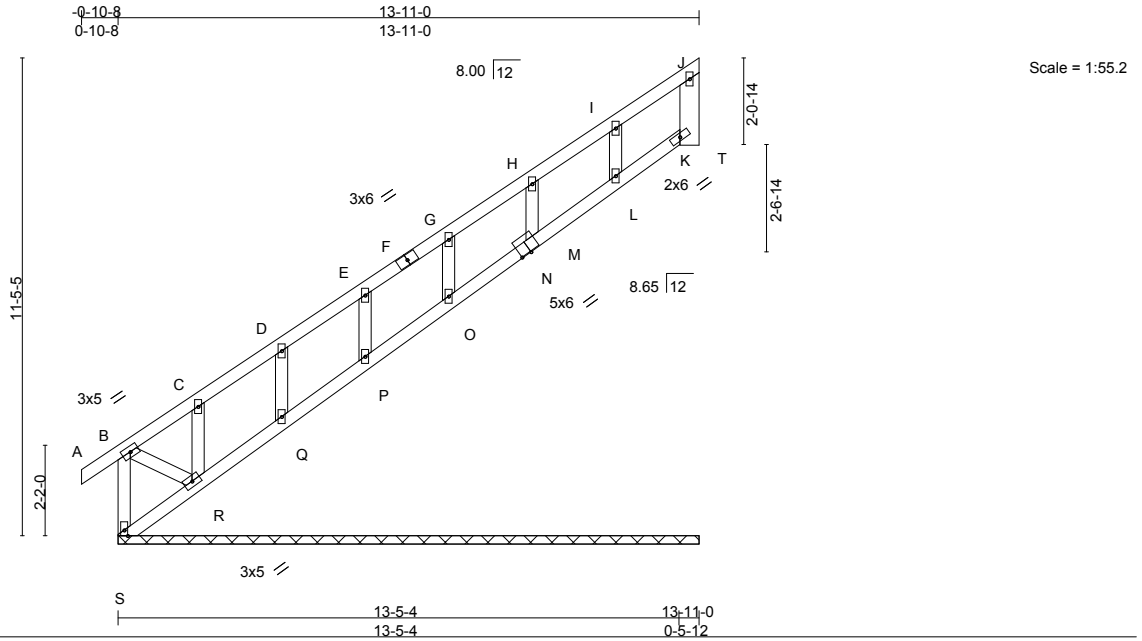


March 3, 2016

Job 764156-NC	Truss D01	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Biltmore 126142297
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:15 2016 Page 1  
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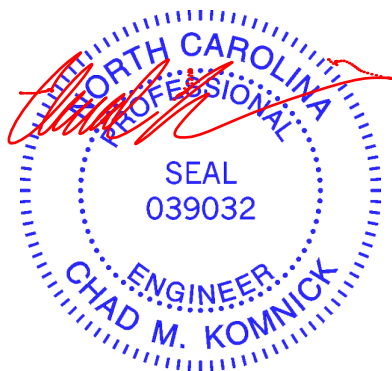
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.12	in	(loc)	l/defl	L/d	MT20	244/190		
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(LL)	-0.00	A	n/r				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Vert(TL)	-0.00	A	n/r				
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)		Horz(TL)	-0.00	K	n/a				
										Weight: 75 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: O-P,L-M.
WEBS	2x4 SP No.3 *Except* J-T: 2x6 SP No.2	<div style="border: 1px solid black; padding: 5px;">           MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.         </div>	
OTHERS	2x4 SP No.3		

**REACTIONS.** All bearings 13-11-0.  
 (lb) - Max Horz S=667(LC 7)  
 Max Uplift All uplift 100 lb or less at joint(s) K, P except S=-193(LC 5), L=-207(LC 7), O=-252(LC 7), Q=-164(LC 7), R=-847(LC 7)  
 Max Grav All reactions 250 lb or less at joint(s) K, P, Q, R except S=937(LC 7), L=288(LC 1), O=278(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-S=-564/97, B-C=-628/95, C-D=-544/85, D-E=-433/75, E-F=-344/59, F-G=-332/71  
 BOT CHORD R-S=-916/184  
 WEBS B-R=-106/729

- NOTES-** (13)
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 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) Bearing at joint(s) S, T, K, L, O, P, Q, R considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K, P except (jt=lb) S=193, L=207, O=252, Q=164, R=847.
  - 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) T, K, L, O, P, Q, R.
  - 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



Continued on page 2

March 3, 2016

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	 818 Soundside Road Edenton, NC 27932
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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore
764156-NC	D01	GABLE	1	1	I26142297

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:16 2016 Page 2  
 ID:h9G7FShkwdXsXwp5ZI0SNOzkt2-5QmTLpqPKjj2\_pBj3i3iU04QuTLM7Ezp4yl7d7zef75

13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**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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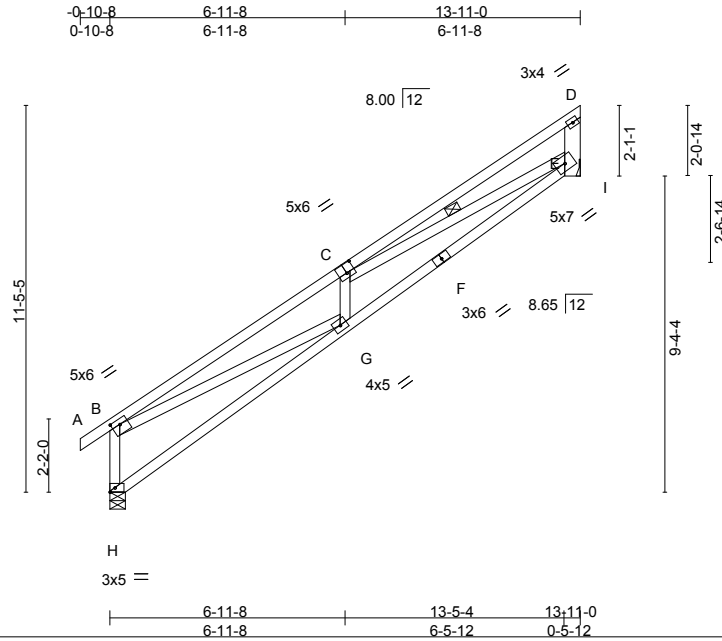


818 Soundside Road  
 Edenton, NC 27932

Job 764156-NC	Truss D02	Truss Type Monopitch	Qty 9	Ply 1	H&H-NC/Biltmore 126142298
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:16 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-5QmTLpqPKjj2\_pBj3i3iU04GMTcb745p4y17d7zef75



Scale = 1:68.2

Plate Offsets (X,Y)-- [B:0-3-0-0-1-12]. [C:0-3-0-0-3-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	0.23	E-G	>701	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(TL)	-0.27	E-G	>610		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(TL)	-0.06	I	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 83 lb	FT = 20%

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

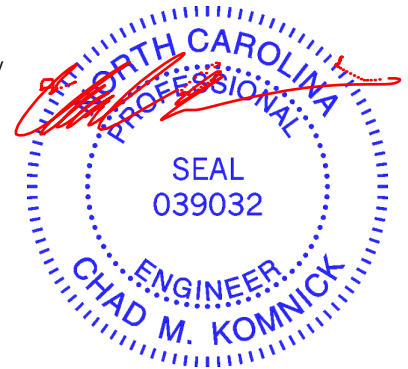
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 4-2-9 oc bracing.  
WEBS 1 Row at midpt C-E

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) H=605/0-5-8, I=539/Mechanical  
Max Horz H=725(LC 7)  
Max Uplift H=-62(LC 7), I=-583(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-H=-606/642, B-C=-1560/1249, C-D=-286/21, E-I=-539/583  
BOT CHORD G-H=-953/166, F-G=-1820/1462, E-F=-1800/1506  
WEBS B-G=-769/1208, C-G=-179/292, C-E=-1164/1452

- NOTES-** (8)
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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) Bearing at joint(s) H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H except (jt=lb) I=583.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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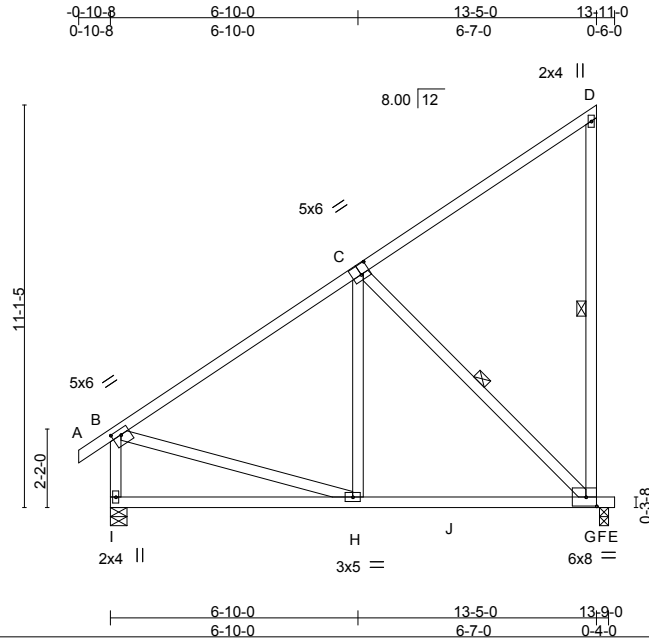


818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore	126142299
764156-NC	D03	Roof Special	2	1		

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:16 2016 Page 1  
 ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-5QmTLpqPKjj2\_pBj3i3iU04JrTEW7Eep4yl7d7zef75



Scale: 3/16"=1'

Plate Offsets (X,Y)-- [B:0-3-0-0-1-12]. [C:0-3-0-0-3-4]. [G:0-3-8-0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	0.11	G-H >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(TL)	-0.23	G-H >705	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(TL)	-0.01	F n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)					Weight: 97 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 6-9-5 oc bracing.  
 WEBS 1 Row at midpt D-G, C-G

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) I=645/0-5-8, F=584/0-3-0  
 Max Horz I=701(LC 7)  
 Max Uplift I=84(LC 7), F=-536(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-575/0, B-I=-600/133  
 BOT CHORD H-I=-729/100, H-J=-403/393, G-J=-403/393  
 WEBS C-H=-35/271, C-G=-537/553, B-H=0/345

- NOTES-** (6)
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I except (jt=Ib) F=536.
  - 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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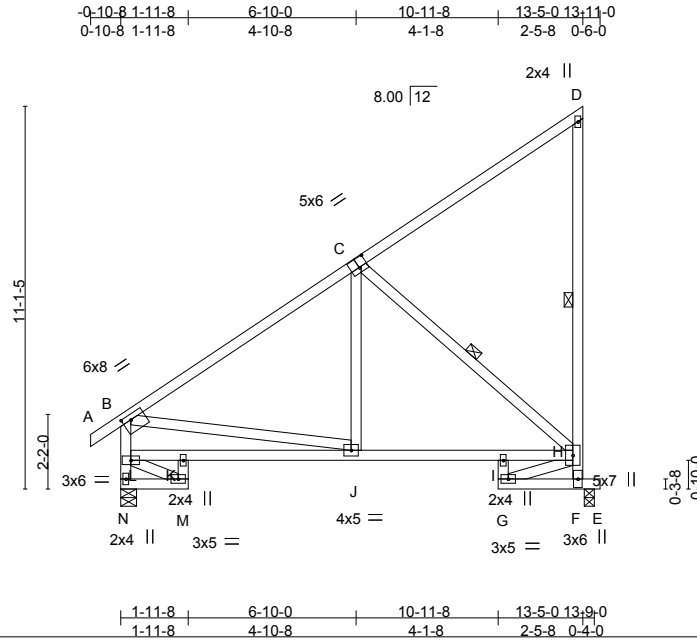


818 Soundside Road  
 Edenton, NC 27932

Job 764156-NC	Truss D04	Truss Type Roof Special	Qty 6	Ply 1	H&H-NC/Biltmore 126142300
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:17 2016 Page 1  
ID:h9G7FShkwdXsXwp5ZI0SNOzktN2-ZcKrZ9q251rvclvdQax1DcQttDgSigzJcVg9azef74



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.81	Vert(LL)	0.11	J-K	>999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(TL)	-0.10	I-J	>999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.06	F	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							
										Weight: 107 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 5-2-12 oc bracing.  
 WEBS 1 Row at midpt D-F, C-H

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) F=536/0-3-8, N=588/0-5-8  
 Max Horz N=701(LC 7)  
 Max Uplift F=551(LC 7), N=69(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-544/37, F-H=-498/574, L-N=-572/106, B-L=-519/155  
 BOT CHORD M-N=-406/3, K-L=-1068/206, J-K=-1068/206, I-J=-449/366, H-I=-449/366  
 WEBS B-J=-24/631, C-J=-67/266, C-H=-472/586, L-M=-4/454

- NOTES-** (6)
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N except (jt=lb) F=551.
  - 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016



Job 764156-NC	Truss D05	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Biltmore 126142301
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:17 2016 Page 1  
ID:h9G7FShkwdXsXwp5ZI0SNOzkt2-ZcKrZ9q251rvclvdQax1DcbptiOsfAzJcVg9azef74

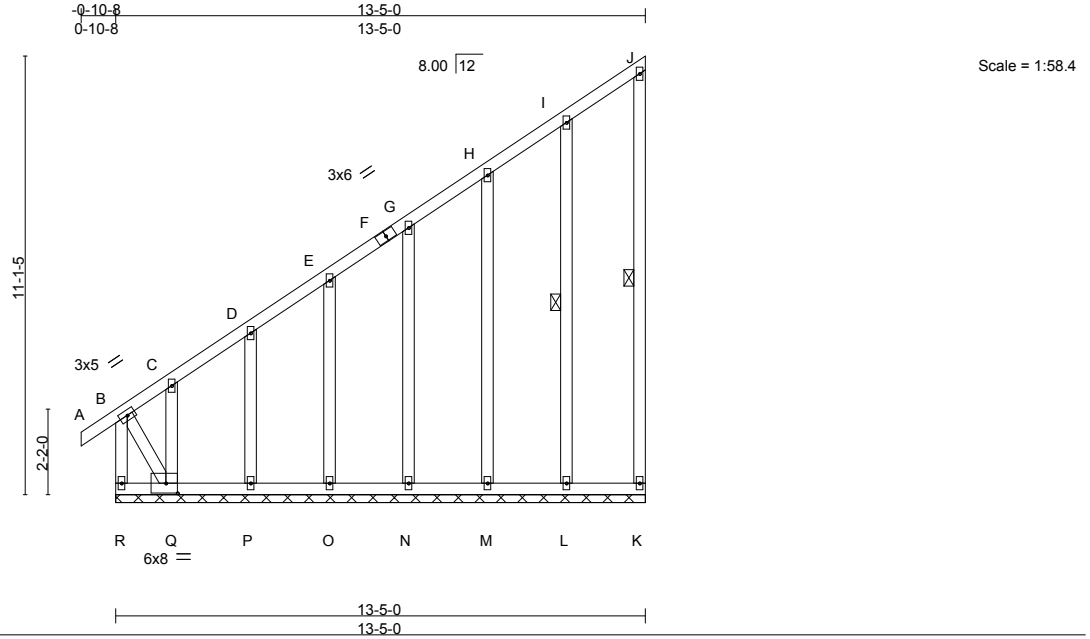


Plate Offsets (X,Y)-- [Q:0-3-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL)	-0.00	A	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(TL)	-0.00	A	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.35	Horz(TL)	-0.00	K	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)						
	Code IRC2009/TPI2007						Weight: 119 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, Except:  
6-0-0 oc bracing: Q-R.  
1 Row at midpt J-K, I-L

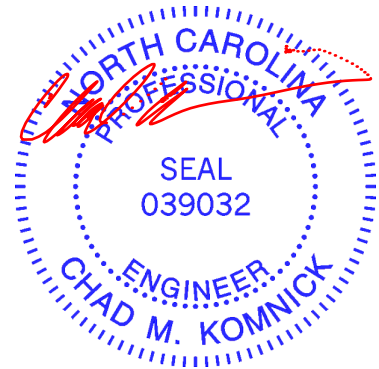
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 13-5-0.  
(lb) - Max Horz R=701(LC 7)  
Max Uplift All uplift 100 lb or less at joint(s) K except R=-138(LC 5), L=-143(LC 7), M=-143(LC 7), N=-141(LC 7), O=-139(LC 7), P=-154(LC 7), Q=-1082(LC 7)  
Max Grav All reactions 250 lb or less at joint(s) K, L, M, N, O, P, Q except R=1233(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-R=-1236/137, B-C=-645/64, C-D=-583/55, D-E=-470/46, E-F=-367/30, F-G=-355/37,  
G-H=-261/33  
BOT CHORD Q-R=-641/63  
WEBS B-Q=-115/1170

- NOTES-** (11)
- 1) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCCL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 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) K except (jt=lb) R=138, L=143, M=143, N=141, O=139, P=154, Q=1082.
  - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Continued on page 2



March 3, 2016

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore	I26142301
764156-NC	D05	GABLE	1	1		

Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:17 2016 Page 2  
 ID:h9G7FShkwdXsXwp5ZI0SNOzkt2-ZcKrZ9q251rvclvdQax1DcbptiOsfAzJcVg9azef74

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818 Soundside Road  
 Edenton, NC 27932

Job 764156-NC	Truss E01	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Biltmore	126142302
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:18 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-1puDmVrgsL\_mE6K6A75AZR9I6H0jbAE6YGEH0zef73

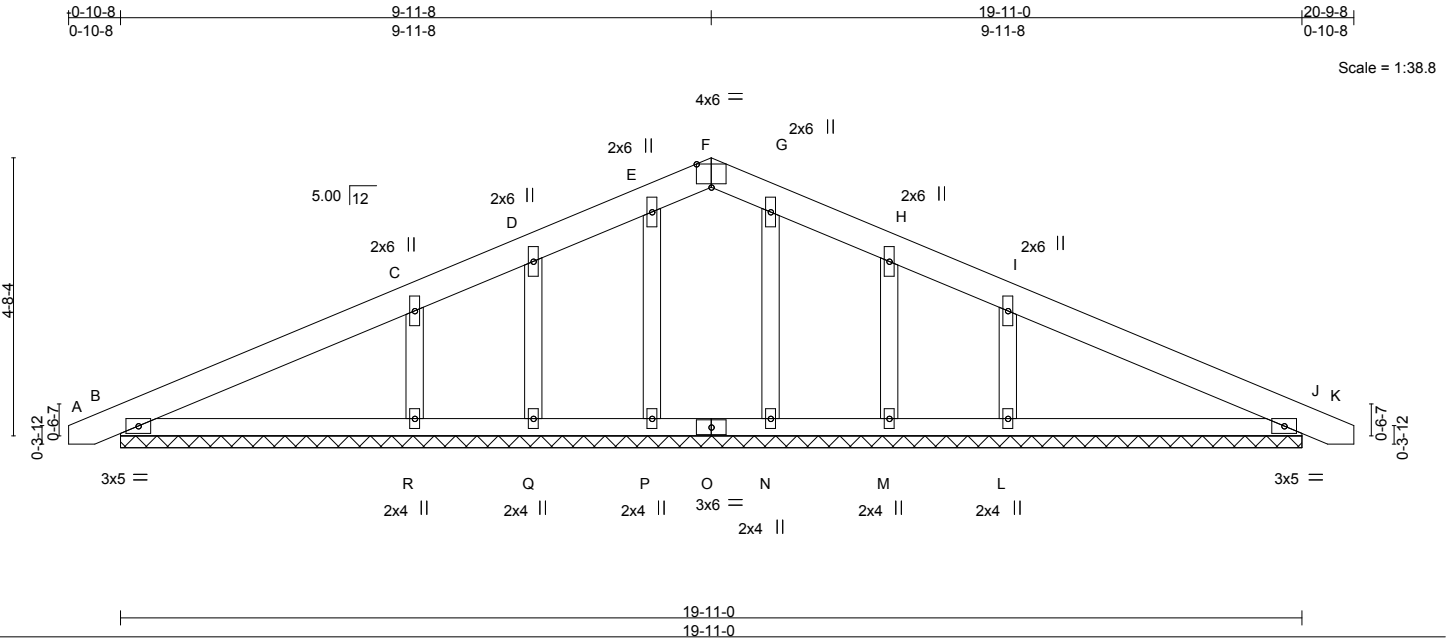


Plate Offsets (X,Y)-- [F:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	0.00	K n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(TL)	0.01	K n/r	90		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(TL)	0.00	J n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)						
	Code IRC2009/TPI2007						Weight: 109 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 19-11-0.  
(lb) - Max Horz B=-93(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) P, Q, N, M except B=-116(LC 7),  
J=-138(LC 8), R=-264(LC 7), L=-262(LC 8)  
Max Grav All reactions 250 lb or less at joint(s) F, B, J, P, Q, N, M except  
R=401(LC 1), L=401(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD E-F=-11/251, F-G=-11/251  
WEBS C-R=-299/351, I-L=-299/352

**NOTES-** (10)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 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) P, Q, N, M except (jt=lb) B=116, J=138, R=264, L=262.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

**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.

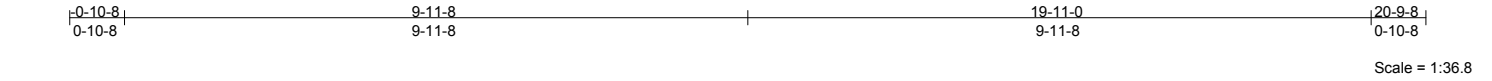


818 Soundside Road  
Edenton, NC 27932

Job 764156-NC	Truss E02	Truss Type COMMON	Qty 10	Ply 1	H&H-NC/Biltmore	126142303
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:18 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-1puDmVrgsL\_mE6K6A75AZR9b6Htkb996YGEh0zef73



Scale = 1:36.8

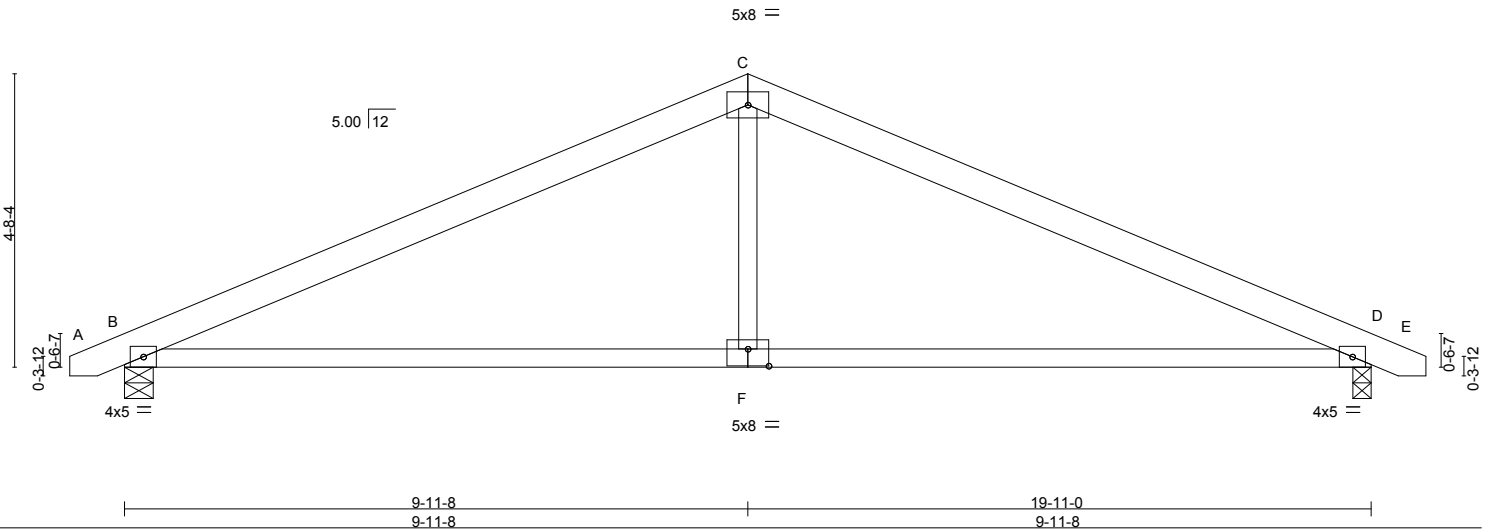


Plate Offsets (X,Y)-- [F:0-4-0-0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.17	D-F >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(TL)	-0.47	D-F >501	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(TL)	0.04	D n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 91 lb	FT = 20%

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

**BRACING-**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 3-11-6 oc purlins.  
Rigid ceiling directly applied or 8-11-13 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) B=835/0-5-8, D=829/0-3-8  
Max Horz B=-93(LC 8)  
Max Uplift B=-420(LC 7), D=-414(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-1205/689, C-D=-1203/689  
BOT CHORD B-F=-455/1029, D-F=-455/1029  
WEBS C-F=0/454

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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
  - 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) B=420, D=414.
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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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.



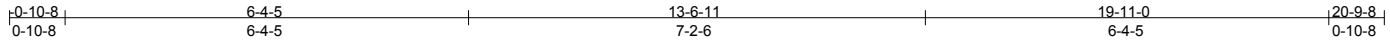
818 Soundside Road  
Edenton, NC 27932

Job 764156-NC	Truss E03	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Biltmore 126142304
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Job Reference (optional)

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:19 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzktN2-V?Rc\_rslde6drGvlkrcP6eiwXhMtKdqGmw\_nESzef72



Scale = 1:36.3

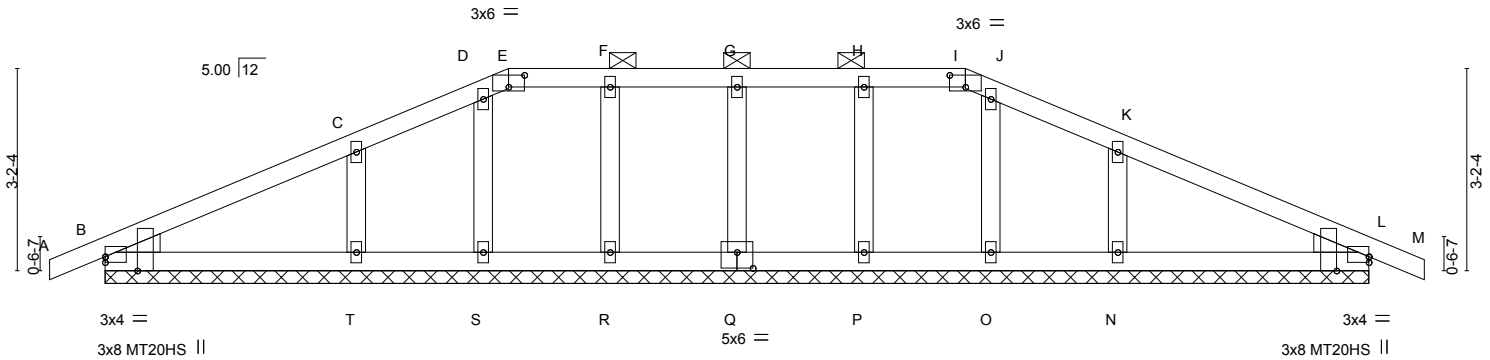


Plate Offsets (X,Y)--	[B:0-2-11,Edge]	[B:0-0-0,0-1-1]	[E:0-3-0,0-2-4]	[I:0-3-0,0-2-4]	[L:0-2-11,Edge]	[L:Edge,0-1-1]	[Q:0-3-0,0-3-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	0.01	M	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(TL)	0.01	M	n/r	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(TL)	0.00	L	n/a		
BCDL 10.0	Code	IRC2009/TPI2007	(Matrix)						
								Weight: 90 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); E-I.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

All bearings 19-11-0.  
 (lb) - Max Horz B=-65(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) Q, R, S, P, O except B=-126(LC 7), T=212(LC 7), L=-139(LC 8), N=-211(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) B, Q, R, S, P, O, L except T=310(LC 11), N=310(LC 12)

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

WEBS C-T=-220/276, K-N=-220/276

**NOTES-** (14)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; 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 MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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) Q, R, S, P, O except (jt=lb) B=126, T=212, L=139, N=211.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

**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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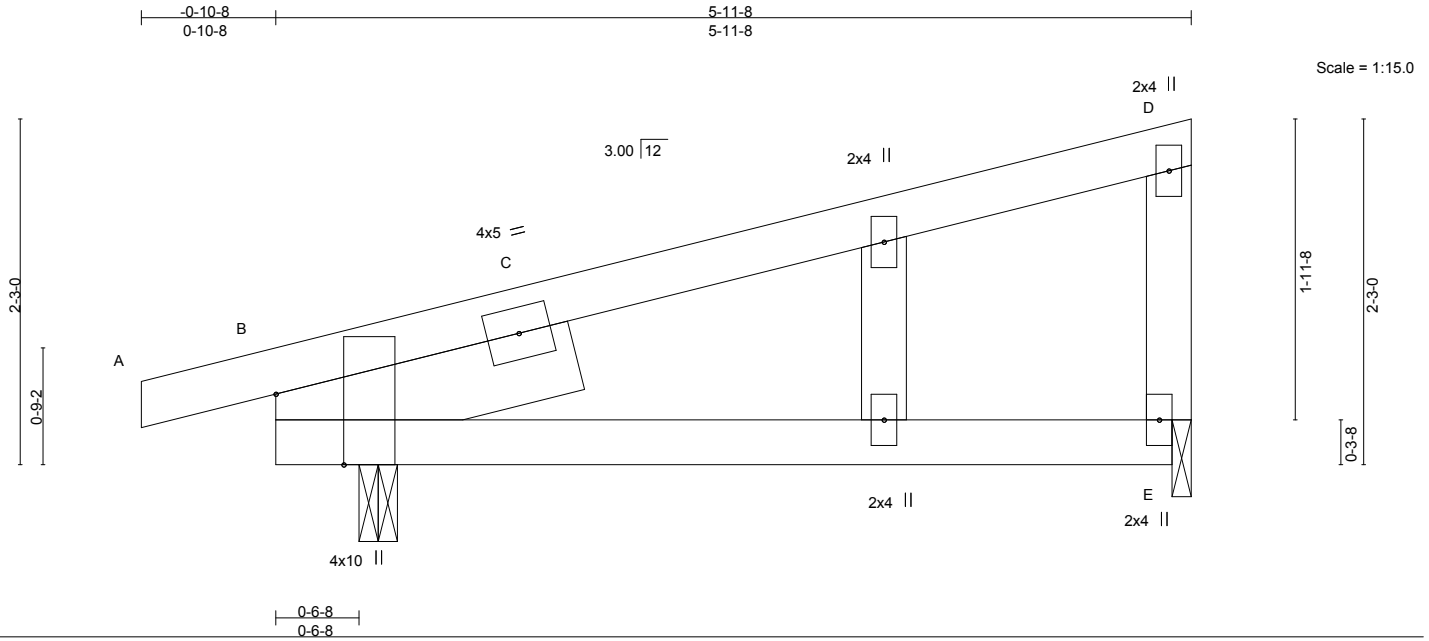


818 Soundside Road  
 Edenton, NC 27932

Job 764156-NC	Truss J01	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Biltmore	126142305
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Builders FirstSource, Piney Flats, TN 37686

7,640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:19 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkt2-V?Rc\_rside6drGvlkrCP6eiqBhFMKe6Gmw\_nESzef72



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.57	Vert(LL)	0.15	E-L	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(TL)	0.11	E-L			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.04	B			
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)							
										Weight: 28 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  
 SLIDER Left 2x6 SP No.2 2-0-0

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) B=319/0-3-0, E=199/0-1-8  
 Max Horz B=115(LC 5)  
 Max Uplift B=-308(LC 5), E=-211(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-180/321

- NOTES-** (10)
- 1) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 studs spaced at 2-0-0 oc.
  - 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) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=308, E=211.
  - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore	126142306
764156-NC	J02	Monopitch	7	1		

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:19 2016 Page 1  
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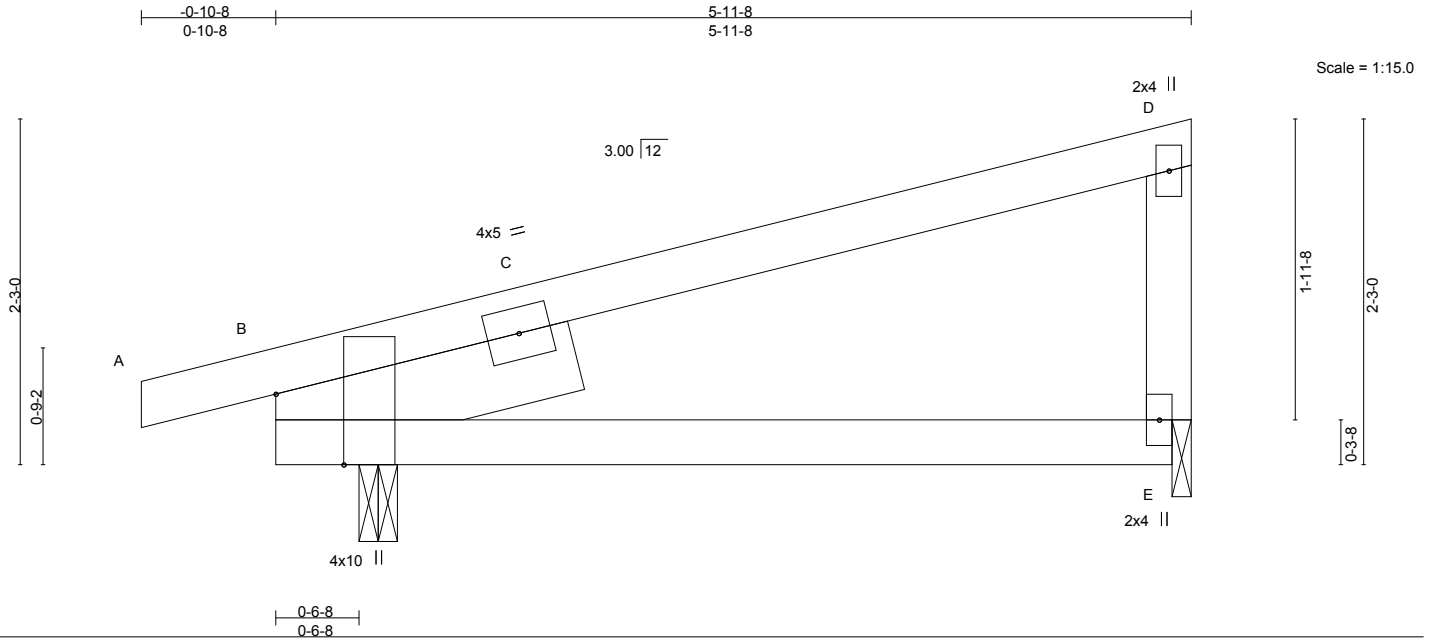


Plate Offsets (X,Y)-- [B:0-5-8,Edge]		CSI.		DEFL.		PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	TC	in	(loc)	MT20	244/190
TCLL 20.0	Plate Grip DOL	1.15	BC	0.15	E-J		
TCDL 10.0	Lumber DOL	1.15	WB	0.11	E-J		
BCLL 0.0 *	Rep Stress Incr	YES	(Matrix-M)	Horz(TL)	-0.04		
BCDL 10.0	Code IRC2009/TPI2007					Weight: 26 lb	FT = 20%

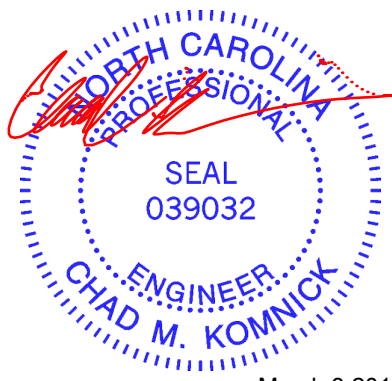
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 2-0-0	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) B=319/0-3-0, E=199/0-1-8  
Max Horz B=115(LC 5)  
Max Uplift B=308(LC 5), E=211(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-180/321

- NOTES-** (8)
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left 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) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=308, E=211.
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

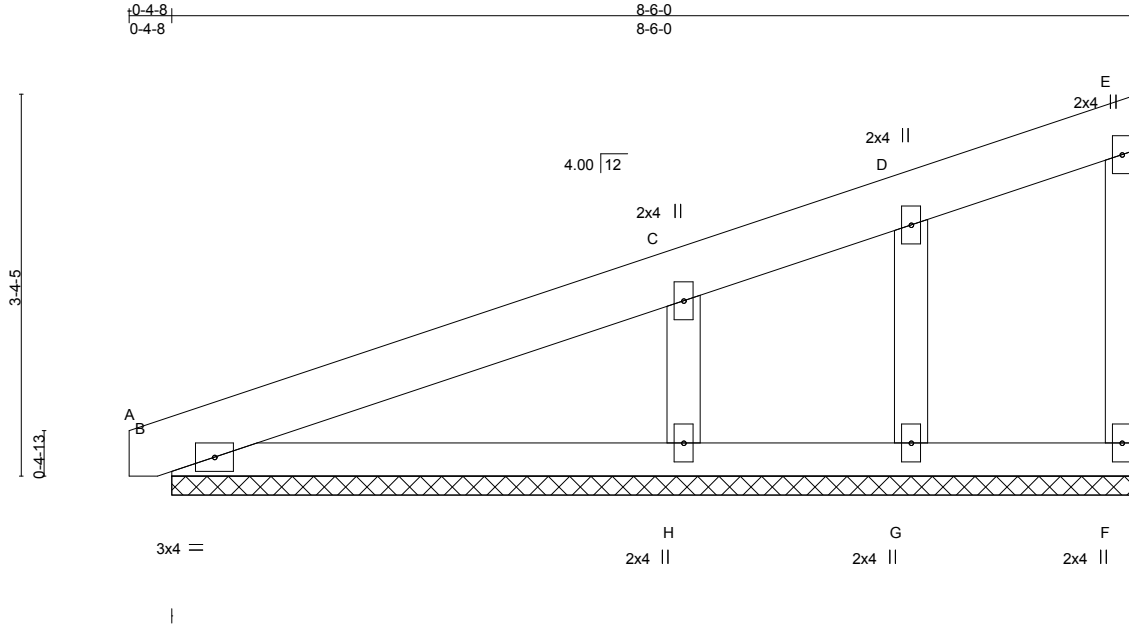


March 3, 2016

Job 764156-NC	Truss J03	Truss Type GABLE	Qty 2	Ply 1	H&H-NC/Biltmore 126142307
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Builders FirstSource, Piney Flats, TN 37686

7,640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:20 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzktN2-zB?\_BBtwNyEUTQUUIY7eesE6y5hm33ZP?ajKmvzef71



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 0.12	Vert(LL)	0.00	A	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(TL)	0.00	A	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	0.00	F	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						Weight: 43 lb	FT = 20%

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

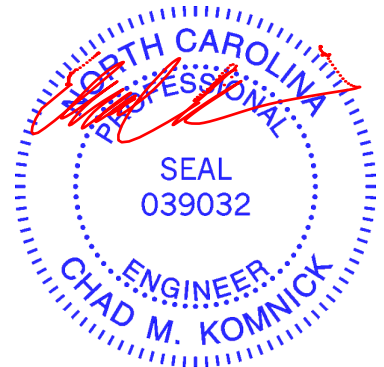
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 8-6-0.  
(lb) - Max Horz B=192(LC 5)  
Max Uplift All uplift 100 lb or less at joint(s) F, B, G except H=231(LC 5)  
Max Grav All reactions 250 lb or less at joint(s) F, B, G except H=367(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS C-H=-275/389

- NOTES-** (9)
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 2-0-0 oc.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F, B, G except (jt=lb) H=231.
  - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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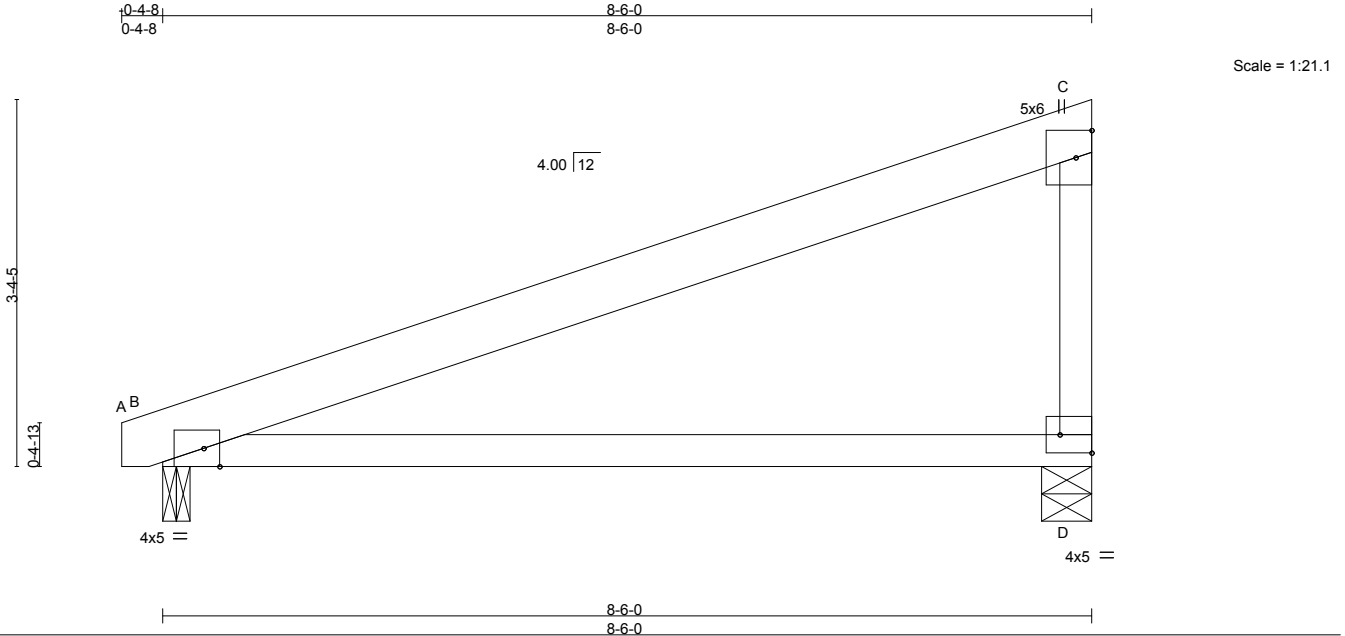
818 Soundside Road  
Edenton, NC 27932



Job 764156-NC	Truss J04	Truss Type MONOPITCH	Qty 5	Ply 1	H&H-NC/Biltmore Job Reference (optional)	I26142308
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Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:20 2016 Page 1  
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Scale = 1:21.1

Plate Offsets (X,Y)-- [B:0-1-12,Edge] [D:Edge.0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	0.40	D-G	>248	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(TL)	0.29	D-G	>346	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.02	B	n/a	n/a		
BCDL 10.0	Code	IRC2009/TPI2007	(Matrix-M)						Weight: 39 lb	FT = 20%

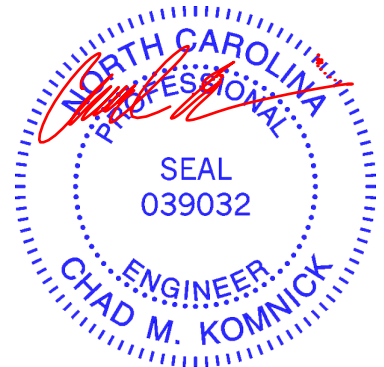
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-6-8 oc bracing.
WEBS 2x4 SP No.3	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) D=330/0-5-8, B=344/0-3-0  
Max Horz B=183(LC 5)  
Max Uplift D=-352(LC 5), B=-291(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD C-D=-238/374

- NOTES-** (6)
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=352, B=291.
  - 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 6) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

**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.

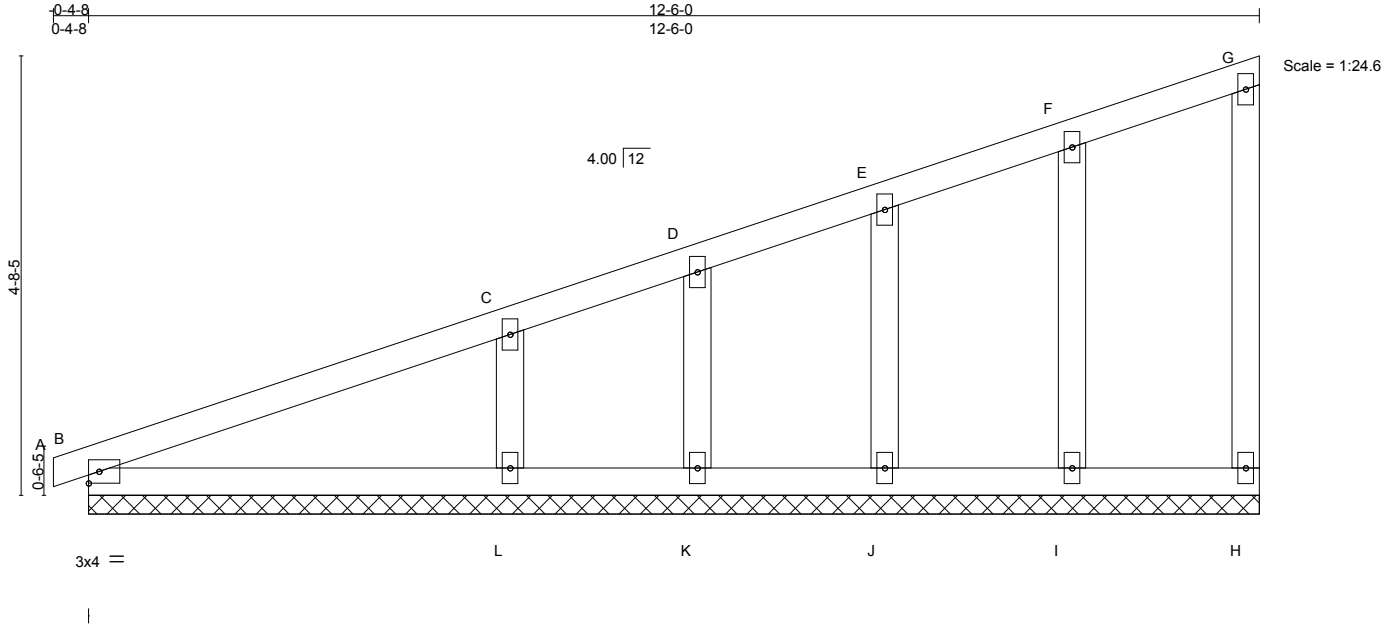


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore	I26142309
764156-NC	J05	GABLE	2	1		

Builders FirstSource, Piney Flats, TN 37686

7,640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:21 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzkn2-ROZMPXIY8GML5a3gsGetB3nFnU1loW0YEETuLzef70



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	0.00	A	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(TL)	0.01	A	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(TL)	-0.00	H	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						Weight: 60 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
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 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 12-6-0.  
 (lb) - Max Horz B=276(LC 5)  
 Max Uplift All uplift 100 lb or less at joint(s) H, B, I, K except J=-112(LC 5), L=-241(LC 5)  
 Max Grav All reactions 250 lb or less at joint(s) H, B, I, J, K except L=371(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-311/53  
 WEBS C-L=-262/343

- NOTES-** (10)
- 1) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCCL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, B, I, K except (jt=lb) J=112, L=241.
  - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

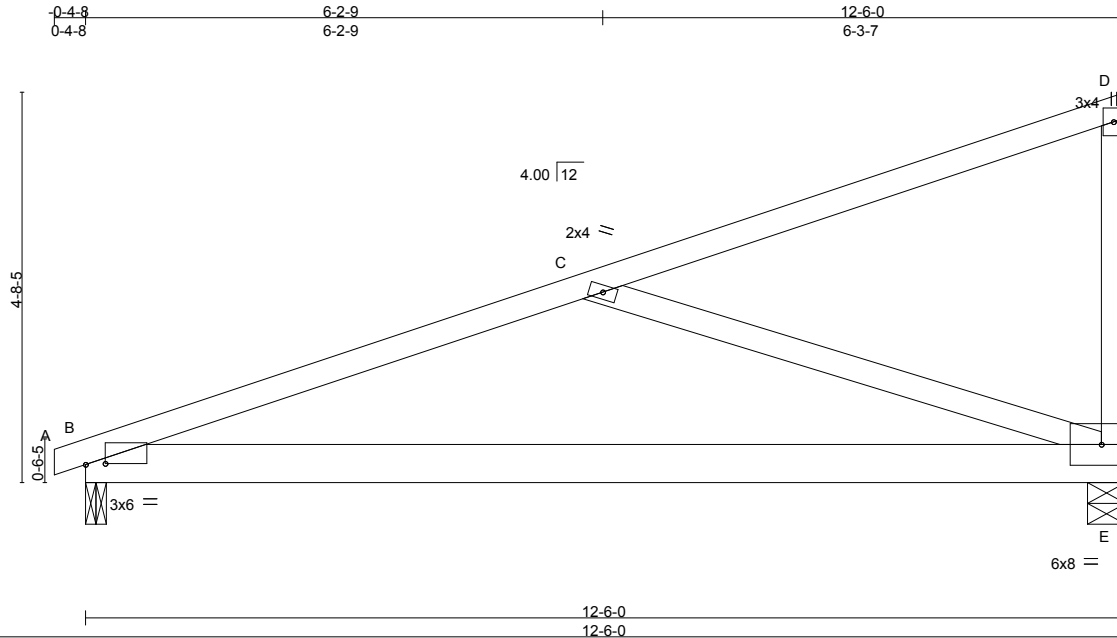


March 3, 2016

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Biltmore	126142310
764156-NC	J06	Monopitch	5	1		

Builders FirstSource, Piney Flats, TN 37686

7.640 s Sep 29 2015 MiTek Industries, Inc. Thu Mar 03 10:54:21 2016 Page 1  
ID:h9G7FShkwdXsXwp5Zi0SNOzktn2-ROZMPXtY8GML5a3gsGetB3n7SUYCoP1YEEtULZef70



Scale = 1:27.7

Plate Offsets (X,Y)-- [B:0-2-13.0-0-2]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	0.61	B-E	>241	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(TL)	-0.50	B-E	>294		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(TL)	-0.01	E	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 65 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP DSS  
WEBS 2x4 SP No.2 \*Except\*  
C-E: 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 5-7-7 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

(lb/size) E=489/0-5-8, B=520/0-3-0  
Max Horz B=278(LC 5)  
Max Uplift E=-521(LC 5), B=-465(LC 5)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-734/733  
BOT CHORD B-E=-962/658  
WEBS C-E=-654/921

**NOTES-**

- Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCCL=6.0psf; h=32ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) E=521, B=465.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 3, 2016

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

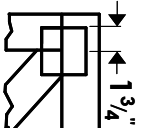
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



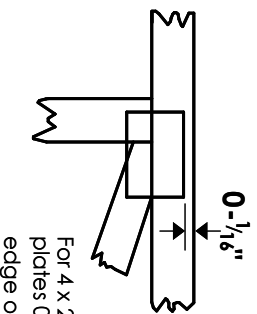
818 Soundside Road  
Edenton, NC 27932

# 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- $\frac{1}{8}$ " from outside edge of truss.



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

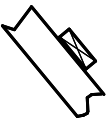
**\* Plate location details available in MITek 20/20 software or upon request.**

## PLATE SIZE

4 X 4

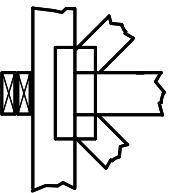
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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



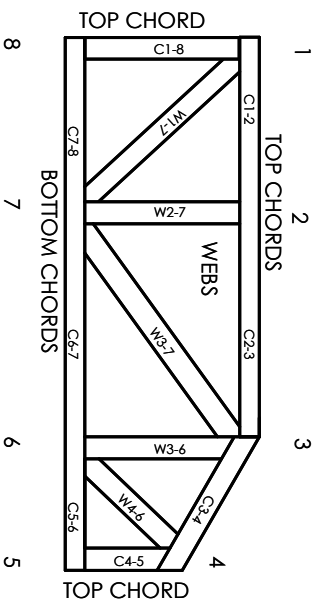
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/FP11: 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 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 stock 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 ware of joint locations are regulated by ANSI/FP11.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP11.
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/TP11 Quality Criteria.