

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 20-011219T
ON TOP BUILDERS/ THE OAKDALE

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

Pages or sheets covered by this seal: T19336560 thru T19336585

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



February 6, 2020

Albani, Thomas

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

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/ THE OAKDALE	T19336560
20-011219T	A01	Piggyback Base	1	1		
Job Reference (optional)						

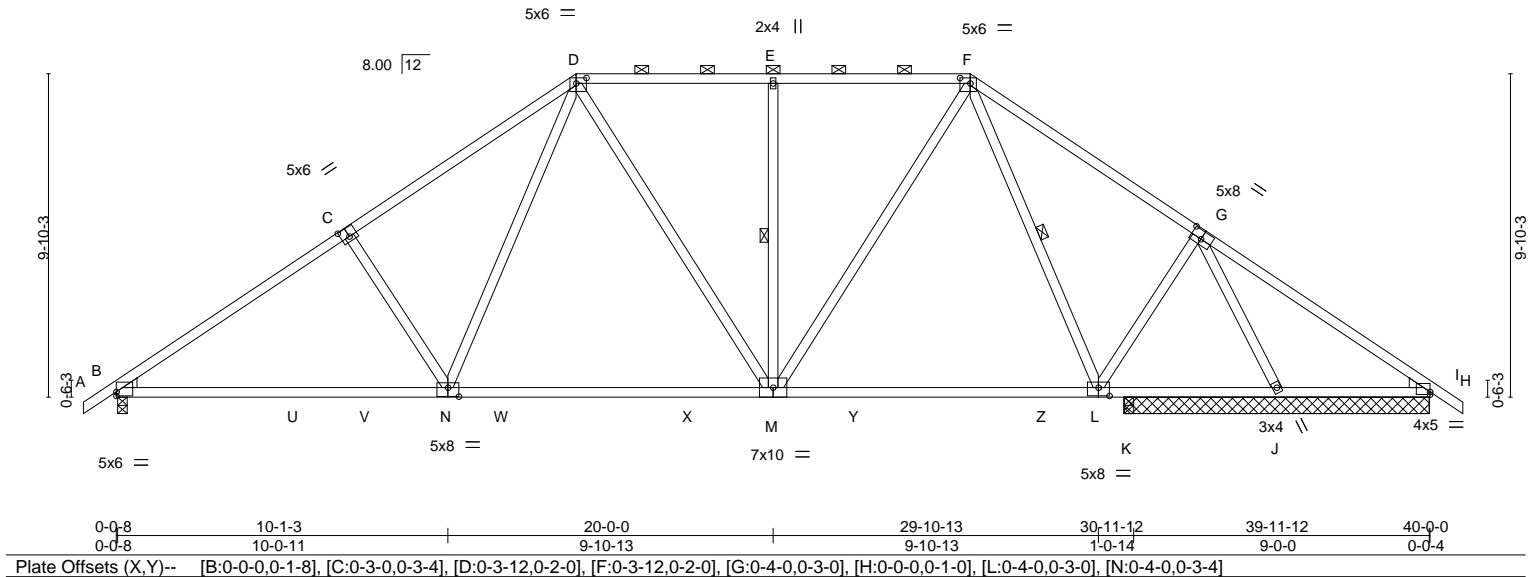
BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:24 2020 Page 1

ID:NMFL59h203ksXTJfZtlfWYUXix-RkqMV4q2eMiWVxJ7qoTLALd6QgXOCpimADYHazznxbp

-1-0-0	7-1-3	14-0-0	20-0-0	26-0-0	32-10-13	40-0-0	41-0-0
1-0-0	7-1-3	6-10-13	6-0-0	6-0-0	6-10-13	7-1-3	1-0-0

Scale = 1:70.2



0-0-8	10-1-3	20-0-0	29-10-13	30-11-12	39-11-12	40-0-0			
0-0-8	10-0-11	9-10-13	9-10-13	1-0-14	9-0-0	0-0-4			
Plate Offsets (X, Y)-- [B:0-0-0,0-1-8], [C:0-3-0,0-3-4], [D:0-3-12,0-2-0], [F:0-3-12,0-2-0], [G:0-4-0,0-3-0], [H:0-0-0,0-1-0], [L:0-4-0,0-3-0], [N:0-4-0,0-3-4]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.00	TC 0.53	Vert(LL)	-0.28	M-N >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.47	L-M >786	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.07	J n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 233 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-8-13 oc purlins, except
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	2-0-0 oc purlins (5-1-6 max.); D-F.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEDGE	6-0-0 oc bracing: H-J.
Left: 2x4 SP No.3, Right: 2x4 SP No.3	WEBS 1 Row at midpt E-M, F-L

REACTIONS. All bearings 9-3-8 except (jt=length) B=0-3-8, K=0-3-8.
 (lb) - Max Horz B=-194(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) B, H, K
 Max Grav All reactions 250 lb or less at joint(s) H, K, H except B=1470(LC 2), J=1710(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2144/187, C-D=-1963/238, D-E=-1373/216, E-F=-1373/216, F-G=-1206/182, G-H=-53/372
 BOT CHORD B-N=-60/1782, M-N=-17/1292, L-M=0/1014, K-L=0/585, J-K=0/585
 WEBS C-N=-401/203, D-N=-58/738, D-M=-113/269, E-M=-403/132, F-M=-66/730, F-L=-422/143, G-L=-12/652, G-J=-1795/70

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H, K, H.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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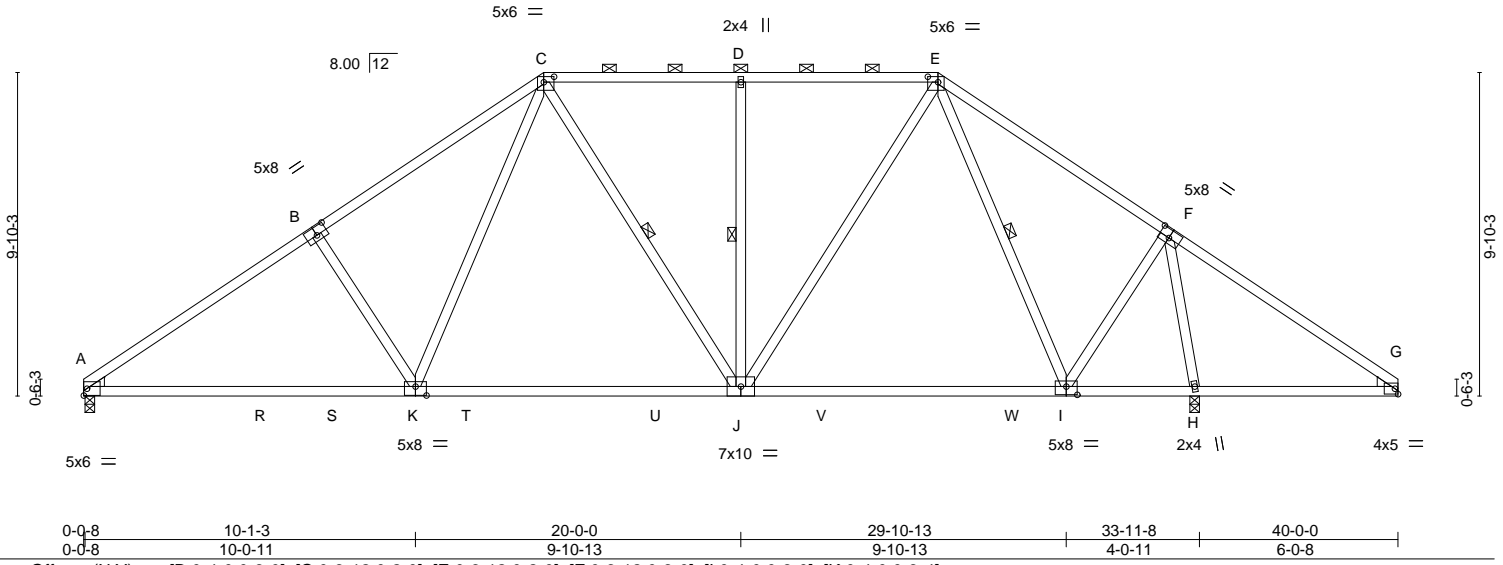
Job 20-011219T	Truss A02	Truss Type Piggyback Base	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336561
					Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:25 2020 Page 1
 ID:NMFL59h203ksXTJIFZtWYUxix-vwOkIPrgPgqN74uJOW_ajZAHV4u3xvJwPtHq6Pznxp



Scale = 1:70.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.57	Vert(LL)	-0.27	I-J >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.47	I-J >871	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.05	H n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 229 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	2-0-0 oc purlins (5-5-7 max.); C-E.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEDGE	WEBS 1 Row at midpt C-J, D-J, E-I
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) A=1309/0-3-8, H=1891/0-3-8
 Max Horz A=-181(LC 6)
 Max Uplift A=-16(LC 10)
 Max Grav A=1339(LC 2), H=1891(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-2008/162, B-C=-1826/213, C-D=-1205/181, D-E=-1205/181, E-F=-793/100, F-G=-139/482
 BOT CHORD A-K=-83/1674, J-K=-50/1183, I-J=-10/809, G-H=-289/158
 WEBS B-K=-406/203, C-K=-60/747, D-J=-404/131, E-J=-43/792, E-I=-669/100, F-I=0/991, F-H=-1804/223

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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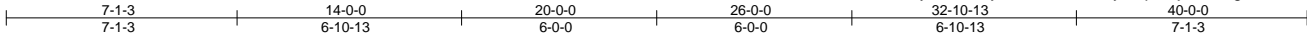
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 20-011219T	Truss A03	Truss Type Piggyback Base	Qty 4	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336562
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BMC (Middlesex, NC), Middlesex, NC - 27557,

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ID:NMFL59h203ksXTJIFZtffWyUXix-N6y6wslAzzEIESVyDVpFmjRbUJ5gKd3eW1OesznpzZ



Scale = 1:70.8

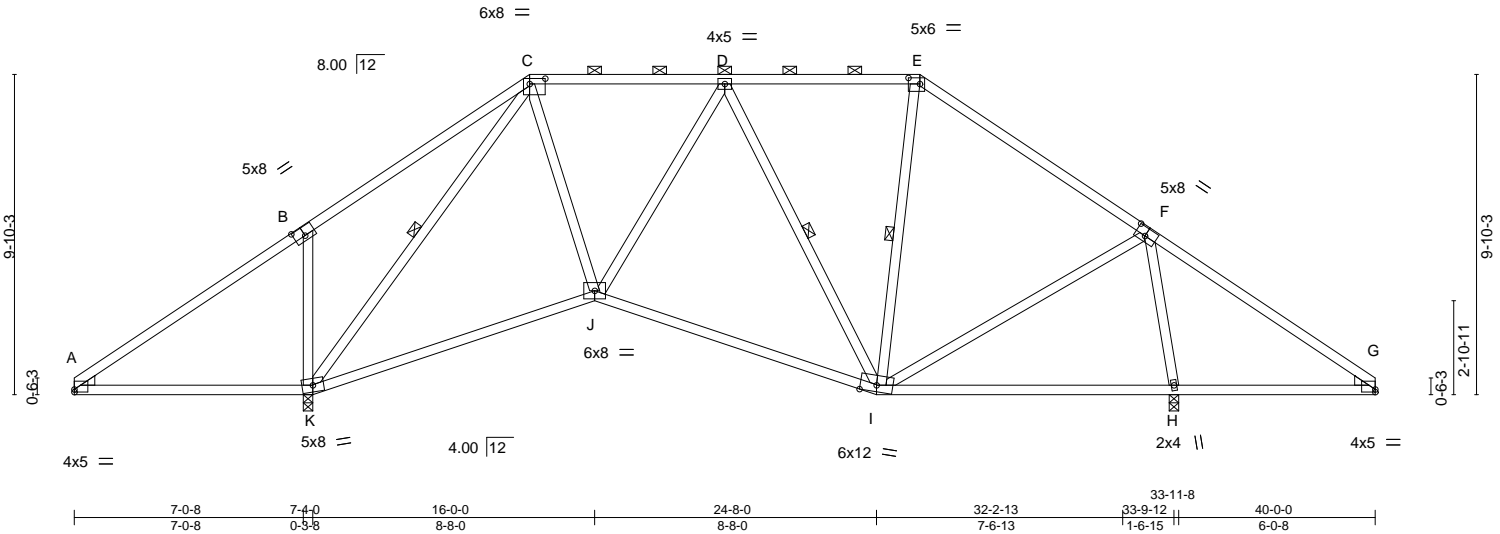


Plate Offsets (X,Y)-- [A:0-0-0,0-1-0], [B:0-4-0,0-3-4], [C:0-5-12,0-2-0], [E:0-4-4,0-2-4], [F:0-3-12,0-3-0], [G:0-0-0,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.61	Vert(LL)	-0.17	I-J >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.36	I-J >881	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.04	H n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 226 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): C-E.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt C-K, D-I, E-I
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) K=1671/0-3-8, H=1529/0-3-8
 Max Horz K=181(LC 7)
 Max Uplift K=-20(LC 10), H=-24(LC 11)
 Max Grav K=1671(LC 1), H=1536(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-179/524, B-C=-18/519, C-D=-648/95, D-E=-492/109, E-F=-728/94, F-G=-167/468
 BOT CHORD A-K=-319/189, J-K=-153/553, I-J=-124/736, G-H=-278/181
 WEBS B-K=-485/240, C-K=-1410/0, C-J=0/621, D-I=-414/171, F-I=-16/632, F-H=-1335/262

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K, H.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/ THE OAKDALE	T19336563
20-011219T	A04	Piggyback Base	8	1		

BMC (Middlesex, NC), Middlesex, NC - 27557,

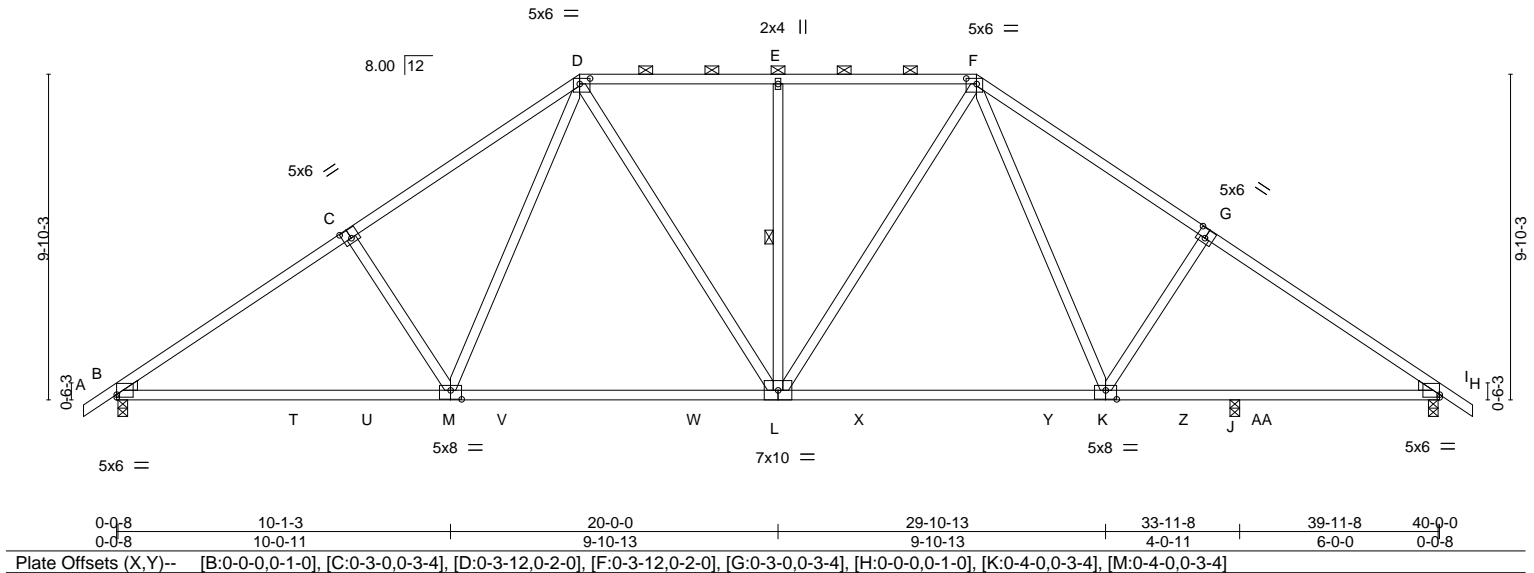
8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:28 2020 Page 1

ID:NMFL59h203ksXTJIFZtffWyUXix-JV4tLRtYhbDy_Ycu3eXHKBomNHu48NLM5qVW/jkznxpX

Job Reference (optional)

-1-0-0	7-1-3	14-0-0	20-0-0	26-0-0	32-10-13	40-0-0	41-0-0
1-0-0	7-1-3	6-10-13	6-0-0	6-0-0	6-10-13	7-1-3	1-0-0

Scale = 1:69.7



0-0-8	10-1-3	20-0-0	29-10-13	33-11-8	39-11-8	40-0-0
0-0-8	10-0-11	9-10-13	9-10-13	4-0-11	6-0-0	0-0-8

Plate Offsets (X,Y)--	[B:0-0-0,0-1-0], [C:0-3-0,0-3-4], [D:0-3-12,0-2-0], [F:0-3-12,0-2-0], [G:0-3-0,0-3-4], [H:0-0-0,0-1-0], [K:0-4-0,0-3-4], [M: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 1.00	TC 0.66	Vert(LL) -0.34 K-L >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.91	Vert(CT) -0.61 K-L >661 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.11 H n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 225 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-5-9 max.): D-F.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt E-L
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) B=1641/0-3-8, H=1558/0-3-8, J=121/0-3-8
 Max Horz B=-194(LC 8)
 Max Uplift B=-20(LC 10), H=-37(LC 11)
 Max Grav B=1668(LC 2), H=1578(LC 2), J=176(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2486/225, C-D=-2305/276, D-E=-1787/260, E-F=-1787/260, F-G=-2214/296, G-H=-2396/245
 BOT CHORD B-M=-71/2040, L-M=-0/1581, K-L=0/1550, J-K=-90/1910, H-J=-90/1910
 WEBS C-M=-396/203, D-M=-59/728, D-L=-100/484, E-L=-400/131, F-L=-77/537, F-K=-82/610, G-K=-378/206

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 6, 2020

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Job 20-011219T	Truss A05	Truss Type Piggyback Base	Qty 4	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336564
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BMC (Middlesex, NC), Middlesex, NC - 27557,

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ID:NMFL59h203ksXTJIFZifWyLXix-ohFYnuASuLpciB4dL2WtPLx3hLhtgbVKUF2FAznxpW

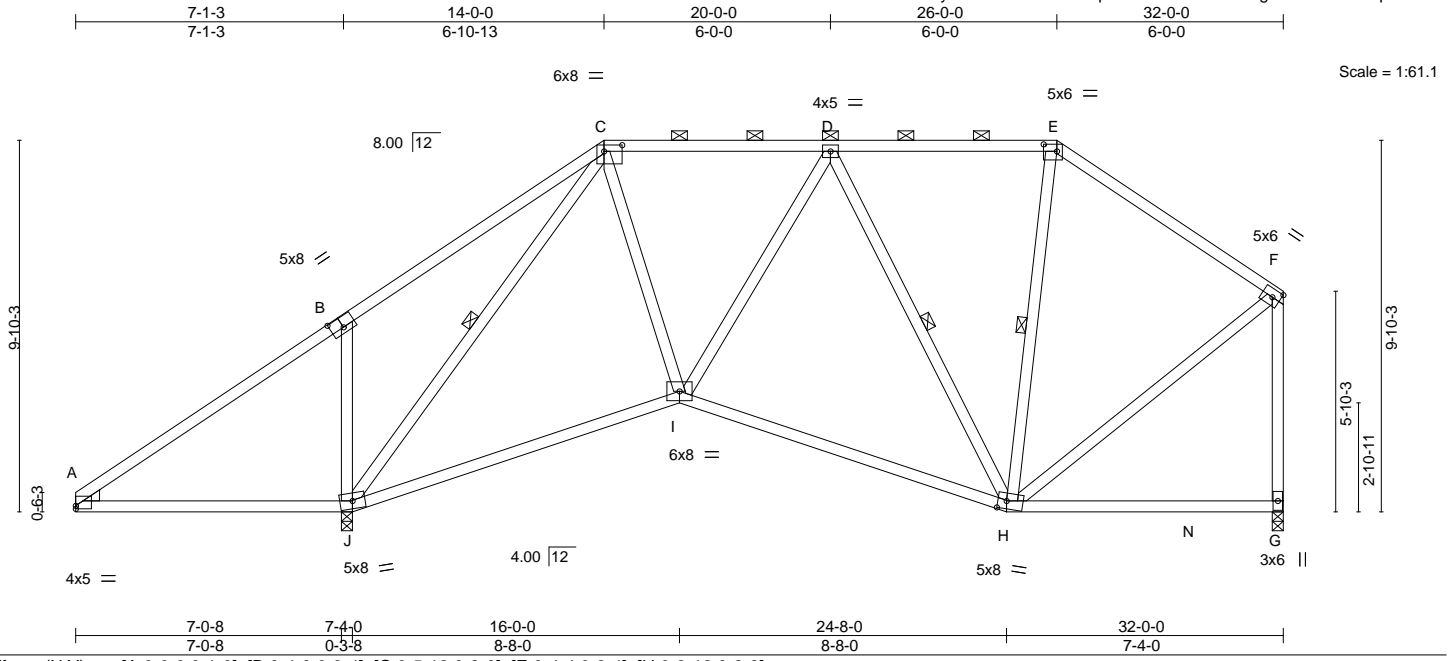


Plate Offsets (X,Y)--	[A:0-0-0,0-1-0], [B:0-4-0,0-3-4], [C:0-5-12,0-2-0], [E:0-4-4,0-2-4], [H:0-2-12,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.66	Vert(LL)	-0.18	H-I >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.37	H-I >803	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.04	G n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 199 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	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-E.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2 *Except* F-G: 2x4 SP No.3	WEBS 6-0-0 oc bracing: A-J. 1 Row at midpt C-J, D-H, E-H
WEDGE Left: 2x4 SP No.3	

REACTIONS. (lb/size) J=1655/0-3-8, G=893/0-3-8
 Max Horz J=240(LC 9)
 Max Uplift J=18(LC 10)
 Max Grav J=1655(LC 1), G=901(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-197/524, B-C=-34/519, C-D=-627/108, D-E=-464/139, E-F=-657/127, F-G=-834/78
 BOT CHORD A-J=-319/203, I-J=-224/507, H-I=-182/710
 WEBS B-J=-485/242, C-J=-1386/35, C-I=0/599, D-H=-427/199, F-H=-55/570

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 6, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 20-011219T	Truss B01	Truss Type Piggyback Base	Qty 6	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336565
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:30 2020 Page 1

ID:NMFL59h203ksXTJIFZlWYUJXix-GuCdM7vpDCtFDsmHB3ZiQct9x5f4cEnfZ8?bndznpV

Job Reference (optional)



4x5 =

4x5 =

4x5 =

Scale = 1:61.6

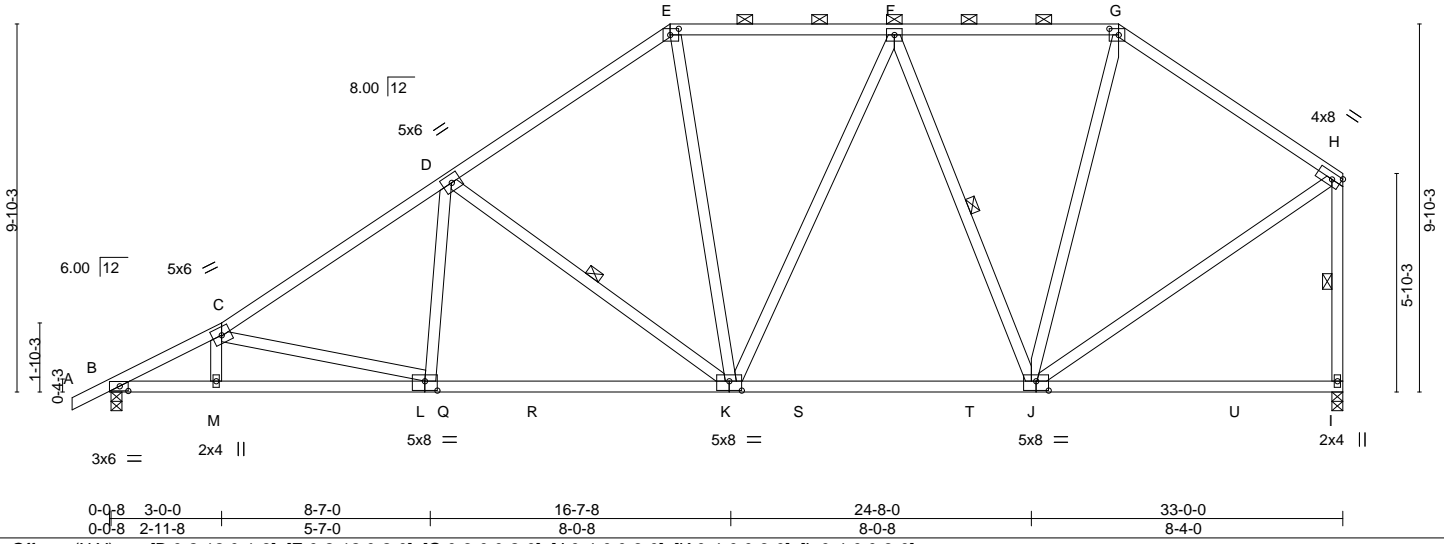


Plate Offsets (X,Y)--	[B:0-2-12,0-1-8], [E:0-2-12,0-2-0], [G:0-3-0,0-2-0], [J:0-4-0,0-3-0], [K:0-4-0,0-3-0], [L:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.46	Vert(LL)	-0.18	J-K	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.28	J-K	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.06	I	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 218 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-10-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-10 max.): E-G.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* H-I: 2x4 SP No.3	WEBS 1 Row at midpt D-K, F-J, H-I

REACTIONS. (lb/size) B=1375/0-3-8, I=1313/0-3-8
 Max Horz B=251(LC 9)
 Max Uplift B=-34(LC 10)
 Max Grav B=1375(LC 1), I=1335(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2620/176, C-D=-2047/173, D-E=-1395/204, E-F=-1132/205, F-G=-846/183,
 G-H=-1051/177, H-I=-1243/139
 BOT CHORD B-M=-156/2319, L-M=-161/2316, K-L=-90/1623, J-K=-90/1058
 WEBS C-L=-707/108, D-L=0/446, D-K=-712/146, E-K=-9/452, F-K=-27/288, F-J=-629/114,
 G-J=0/309, H-J=-31/945

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

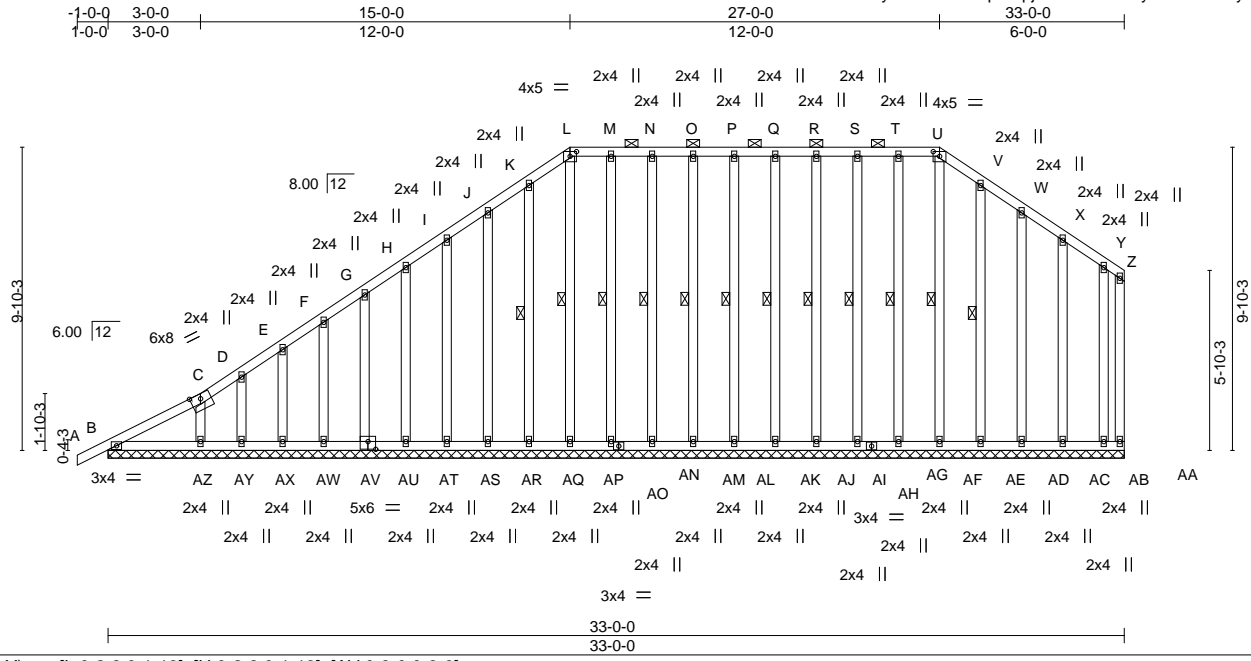


February 6, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 20-011219T	Truss B02	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336566
BMC (Middlesex, NC), Middlesex, NC - 27557,					Job Reference (optional)

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:32 2020 Page 1
 ID:NMFL59h203ksXTJfZIfWYUxix-CGJNApw3lpjNT9wflUcDV1yaQuTN4Dvy0SUISVznxpT



Scale = 1:74.8

Plate Offsets (X,Y)-- [L:0-2-8,0-1-13], [U:0-2-8,0-1-13], [AV:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.06	Vert(LL) -0.00 A n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(CT) 0.00 A n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 AA n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.00 A n/r 90	Weight: 359 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	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.): L-U.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt U-AF, T-AG, S-AI, R-AJ, Q-AK, P-AL, O-AM, N-AN, M-AP, L-AQ, K-AR, V-AE
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 33-0-0.
 (lb) - Max Horz B=250(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) AA, AF, AG, AI, AJ, AK, AL, AM, AN, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, AE, AD, AC, AB, B
 Max Grav All reactions 250 lb or less at joint(s) AA, AF, AG, AI, AJ, AK, AL, AM, AN, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, AE, AD, AC, AB, B

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) AA, AF, AG, AI, AJ, AK, AL, AM, AN, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, AE, AD, AC, AB, B.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 6, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 20-011219T	Truss C01	Truss Type Common	Qty 2	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336567
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:34 2020 Page 1

ID:NMFL59h203ksXTJIFZtlfWYUXix-8fR8bUyJHRz5t42QvehaS2obizlY42FUmpzpwOznxpR



5x6 =

Scale = 1:67.9

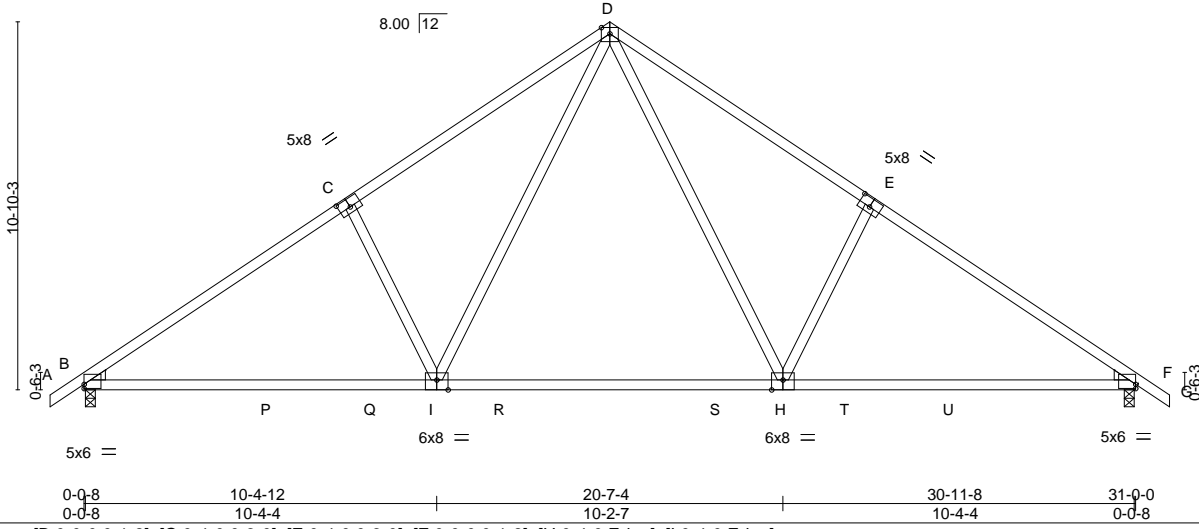


Plate Offsets (X,Y)--	[B:0-0-0,0-1-8], [C:0-4-0,0-3-0], [E:0-4-0,0-3-0], [F:0-0-0,0-1-8], [H:0-4-0,Edge], [I:0-4-0,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.61	Vert(LL) -0.36	H-I >999 240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT) -0.51	H-I >737 180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT) 0.05	F n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS			Weight: 158 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=1300/0-3-8, F=1300/0-3-8
 Max Horz B=-213(LC 8)
 Max Uplift B=-37(LC 10), F=-37(LC 11)
 Max Grav B=1371(LC 17), F=1371(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1900/155, C-D=-1749/233, D-E=-1749/233, E-F=-1900/155
 BOT CHORD B-I=-85/1642, H-I=0/1062, F-H=-6/1496
 WEBS D-H=-93/878, E-H=-448/226, D-I=-93/878, C-I=-448/226

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.



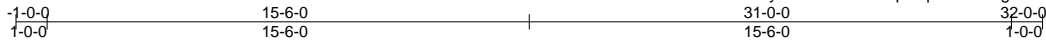
February 6, 2020

Job 20-011219T	Truss C02	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336568
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:36 2020 Page 1

ID:NMFL59h203ksXTJIFZlFwYUxix-42Zu0AzZp2DpxnDQXKg9ft7HsWrq01WXx4Sw?HznxpP



Scale = 1:74.1

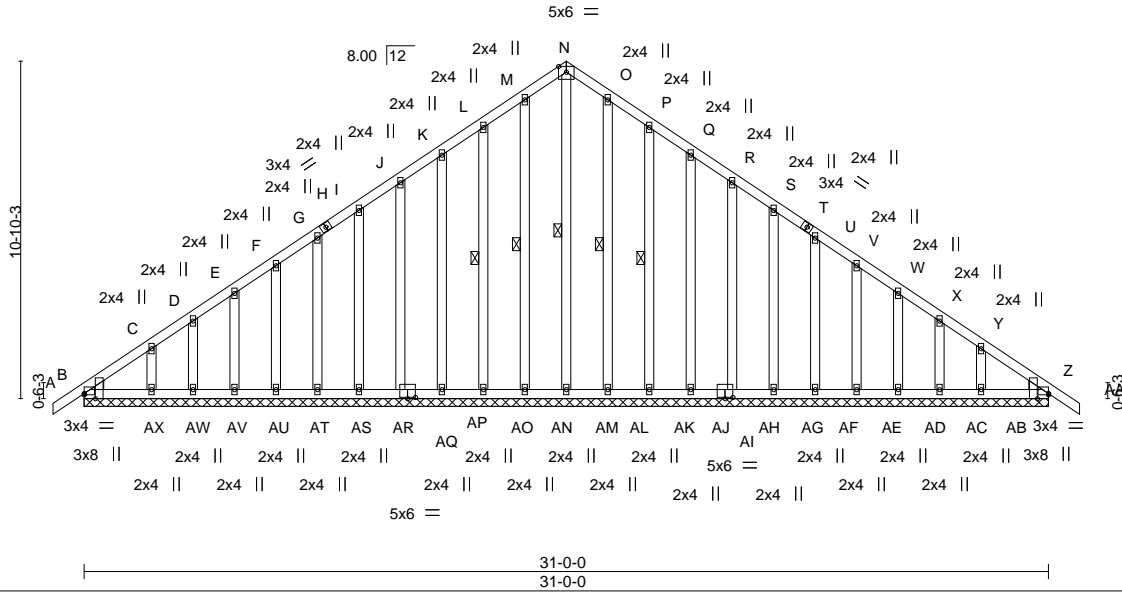


Plate Offsets (X, Y)-- [B:0-1-15,Edge], [B:Edge,0-0-8], [Z:Edge,0-0-8], [Z:0-1-15,Edge], [AH:0-1-12,0-0-0], [AI:0-3-0,0-0-8], [AI:0-0-0,0-1-12], [AQ:0-0-0,0-1-12], [AR:0-1-12,0-0-0], [AR:0-3-0,0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.05	Vert(LL)	-0.00	AA	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	AA	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01	Z	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	Z	n/r		
								Weight: 283 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2, Right: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt N-AM, M-AN, L-AO, O-AL, P-AK

REACTIONS. All bearings 31-0-0.
 (lb) - Max Horz B=-213(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) AN, AO, AP, AR, AS, AT, AU, AV, AW, AX, B, AK, AJ, AH, AG, AF, AE, AD, AC, AB
 Max Grav All reactions 250 lb or less at joint(s) Z, AM, AN, AO, AP, AR, AS, AT, AU, AV, AW, AX, AL, B, AK, AJ, AH, AG, AF, AE, AD, AC, AB

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) AN, AO, AP, AR, AS, AT, AU, AV, AW, AX, B, AK, AJ, AH, AG, AF, AE, AD, AC, AB.



February 6, 2020

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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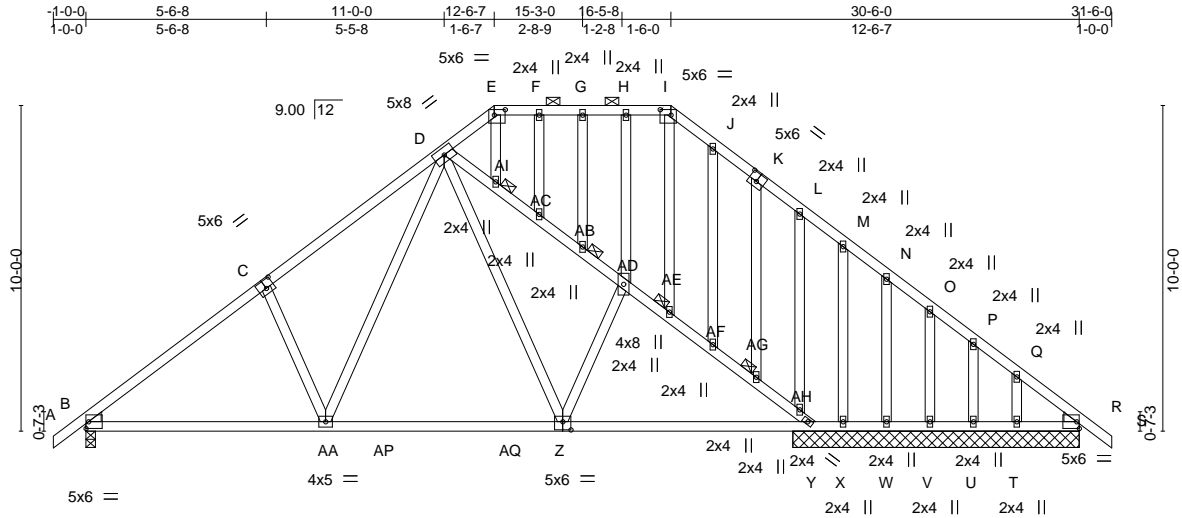
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/ THE OAKDALE	T19336569
20-011219T	D01	FINK	1	1		

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:38 2020 Page 1

ID:NMFL59h203ksXTJFZtffWYUXix-1QhfRs?qLFTXB4NpfjkdICaLJQUUv4qOOx139znpN



Scale = 1:70.7

Plate Offsets (X, Y)--	[B:0-0-8,0-0-6], [B:0-4-1,0-0-11], [C:0-3-0,0-3-0], [E:0-4-0,0-2-0], [I:0-4-0,0-2-0], [K:0-3-0,0-3-0], [R:0-4-1,0-0-11], [R:0-0-8,0-0-6], [Z:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.24	Vert(LL)	-0.13	Z-AA >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.19	Z-AA >999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.03	R n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	2-0-0 oc purlins (6-0-0 max.); E-I.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	JOINTS 1 Brace at Jt(s): AB, AE, AG, AI
Left: 2x4 SP No.2, Right: 2x4 SP No.2	

REACTIONS. All bearings 8-9-8 except (jt=length) B=0-3-8.
 (lb) - Max Horz B=-197(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) B, V, U, T except X=-221(LC 3)
 Max Grav All reactions 250 lb or less at joint(s) X, W, V, U, T except B=1001(LC 1), Y=885(LC 1), R=321(LC 22), R=313(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1243/82, C-D=-1126/156, D-E=-280/127, J-K=-252/81, K-L=-321/78, L-M=-261/15, N-O=-268/14, O-P=-265/19, P-Q=-278/20, Q-R=-316/50
 BOT CHORD B-AA=-56/1012, Z-AA=-41/702, Y-Z=-32/873, X-Y=-32/258, W-X=-32/258, V-W=-32/258, U-V=-32/258, T-U=-32/258, R-T=-32/258
 WEBS D-AI=-789/62, AC-AI=-771/42, AB-AC=-803/50, AB-AD=-812/56, AD-AE=-833/68, AE-AF=-824/55, AF-AG=-848/71, AG-AH=-825/65, Y-AH=-913/118, C-AA=-283/167, D-AA=-79/512, D-Z=0/349

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, V, U, T except (jt=lb) X=221.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 6, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 20-011219T	Truss D02	Truss Type Piggyback Base	Qty 5	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336570
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:39 2020 Page 1
 ID:NMFL59h203ksXTJfZtIfWYUXix-VcE1fC0S6zbOpEy?CSEsHWIi3jlbDJY_d2gabbznxpM

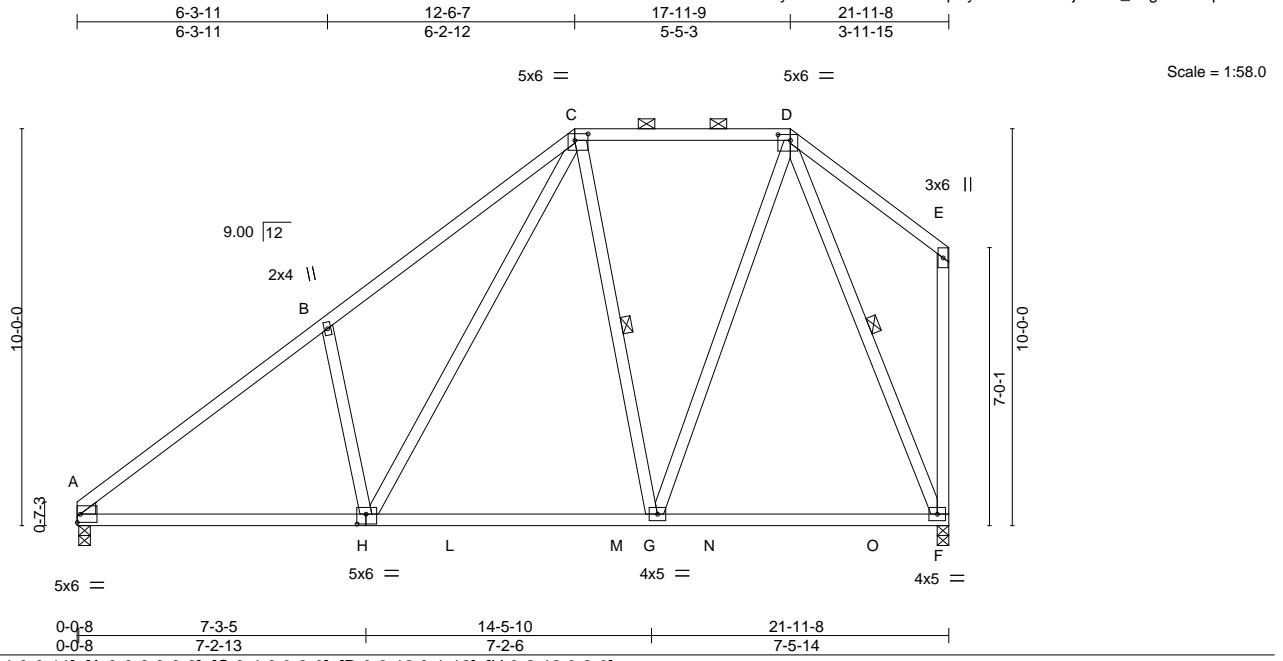


Plate Offsets (X,Y)--	[A:0-4-1,0-0-11], [A:0-0-8,0-0-6], [C:0-4-0,0-2-0], [D:0-3-12,0-1-12], [H:0-2-12,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.44	Vert(LL)	-0.10	F-G	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.18	F-G	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.02	F	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 150 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-D.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* E-F: 2x4 SP No.3	WEBS 1 Row at midpt C-G, D-F
WEDGE Left: 2x4 SP No.2	

REACTIONS.	FORCES.
(lb/size) A=872/0-3-8, F=872/0-3-8 Max Horz A=255(LC 9) Max Uplift A=-12(LC 10), F=-3(LC 10) Max Grav A=872(LC 1), F=932(LC 2)	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD A-B=-1130/110, B-C=-1101/241, C-D=-479/156 BOT CHORD A-H=-109/942, G-H=-87/562, F-G=-65/320 WEBS B-H=-380/218, C-H=-158/641, C-G=-286/112, D-G=-17/581, D-F=-790/75

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, F.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 6, 2020

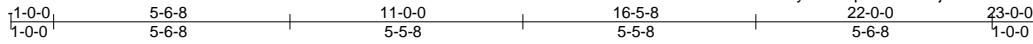
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 20-011219T	Truss E01	Truss Type Common	Qty 6	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336571
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BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:40 2020 Page 1
ID:NMFL59h203ksXTJfZifWyUXix-zpoPsY14tHjFQOXCm9l5qjlvK762yrv7siQ782zxnpl



5x6 =

Scale = 1:54.0

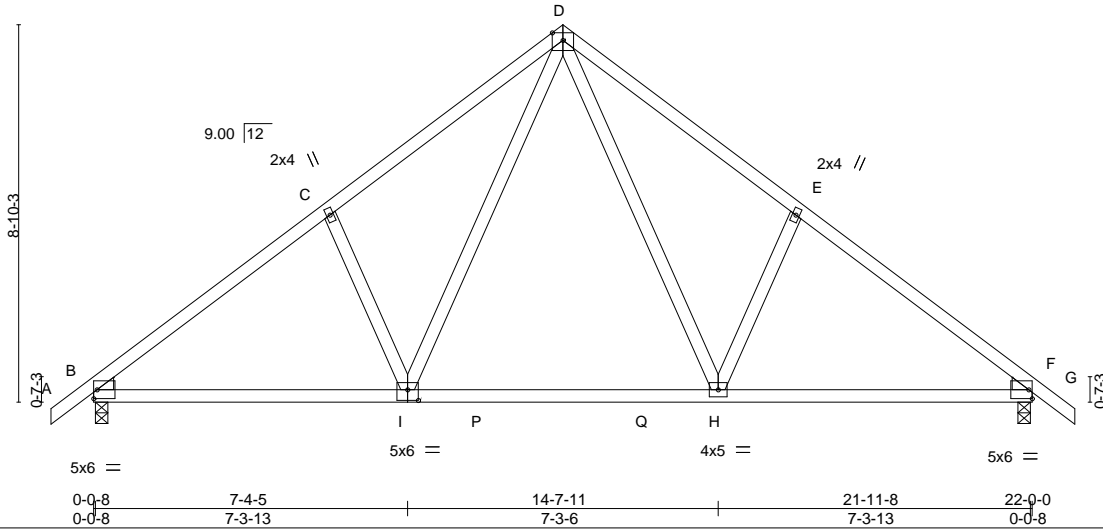


Plate Offsets (X,Y)--	[B:0-0-8,0-0-6], [B:0-4-1,0-0-11], [F:0-4-1,0-0-11], [F:0-0-8,0-0-6], [I:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.27	Vert(LL)	-0.14	H-I >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.19	H-I >999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.02	F n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 119 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2, Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=940/0-3-8, F=940/0-3-8
Max Horz B=-174(LC 8)
Max Uplift B=-25(LC 10), F=-25(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1148/105, C-D=-1037/181, D-E=-1037/181, E-F=-1148/105
BOT CHORD B-I=-56/948, H-I=0/624, F-H=0/852
WEBS D-H=-84/529, E-H=-294/174, D-I=-84/529, C-I=-294/174

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.



February 6, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 20-011219T	Truss E02	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336572
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:41 2020 Page 1
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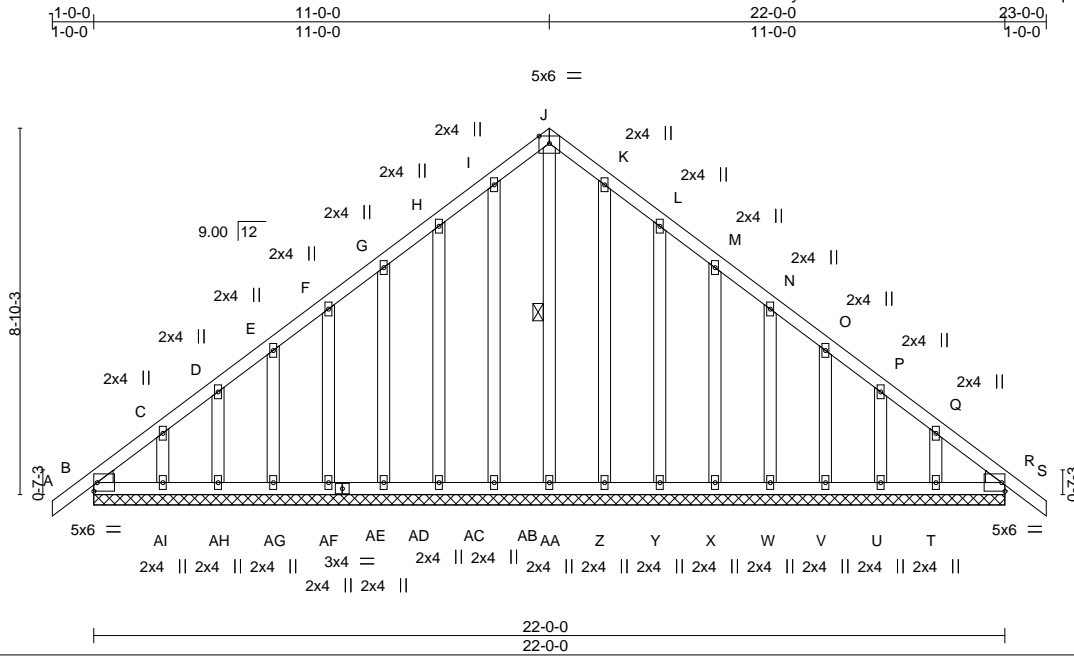


Plate Offsets (X, Y)-- [B:0-0-8,0-0-6], [B:0-4-1,0-0-11], [R:0-0-8,0-0-6], [R:0-4-1,0-0-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.05	Vert(LL)	-0.00	S	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	S	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	R	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	S	n/r	Weight: 181 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2, Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt J-AA

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz B=174(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) B, AB, AC, AD, AF, AG, AH, AI, R, Z, Y, X, W, V, U, T
Max Grav All reactions 250 lb or less at joint(s) B, AA, AB, AC, AD, AF, AG, AH, AI, R, Z, Y, X, W, V, U, T

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 1-4-0 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) B, AB, AC, AD, AF, AG, AH, AI, R, Z, Y, X, W, V, U, T.



February 6, 2020

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.

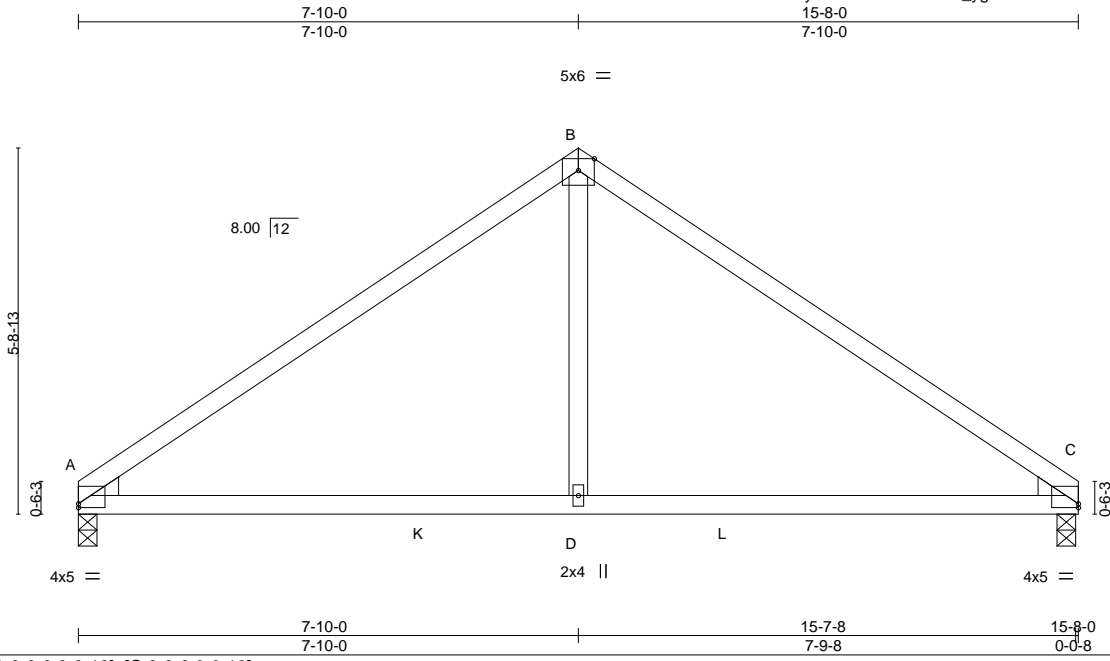
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 20-011219T	Truss F01	Truss Type Common	Qty 2	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336573
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:42 2020 Page 1
ID:NMFL59h203ksXTJfZtffWYUxix-vBw9HD2KOu_yghauanZv8N9vwn_Ql_QJ0vECwznpj



Scale = 1:36.1

Plate Offsets (X,Y)--	[A:0-0-0,0-0-12], [C:0-0-0,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.65	Vert(LL) -0.10 D-J >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.19 D-J >970 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.02 A n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 61 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

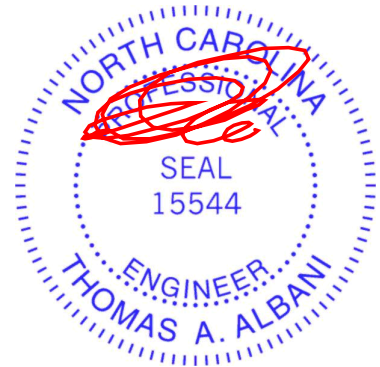
(lb/size) A=627/0-3-8, C=627/0-3-8
 Max Horz A=-101(LC 6)
 Max Uplift A=-11(LC 10), C=-11(LC 11)
 Max Grav A=642(LC 17), C=642(LC 18)

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

TOP CHORD A-B=-808/84, B-C=-808/84
 BOT CHORD A-D=0/604, C-D=0/604
 WEBS B-D=0/370

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



February 6, 2020

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.



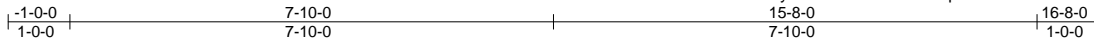
818 Soundside Road
 Edenton, NC 27932

Job 20-011219T	Truss F02	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336574
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:43 2020 Page 1

ID:NMFL59h203ksXTJIFZifWyUXix-NOUYUZ3z9C6pHsGmRlloRMwU5KDL9DyZYgenINznxpI



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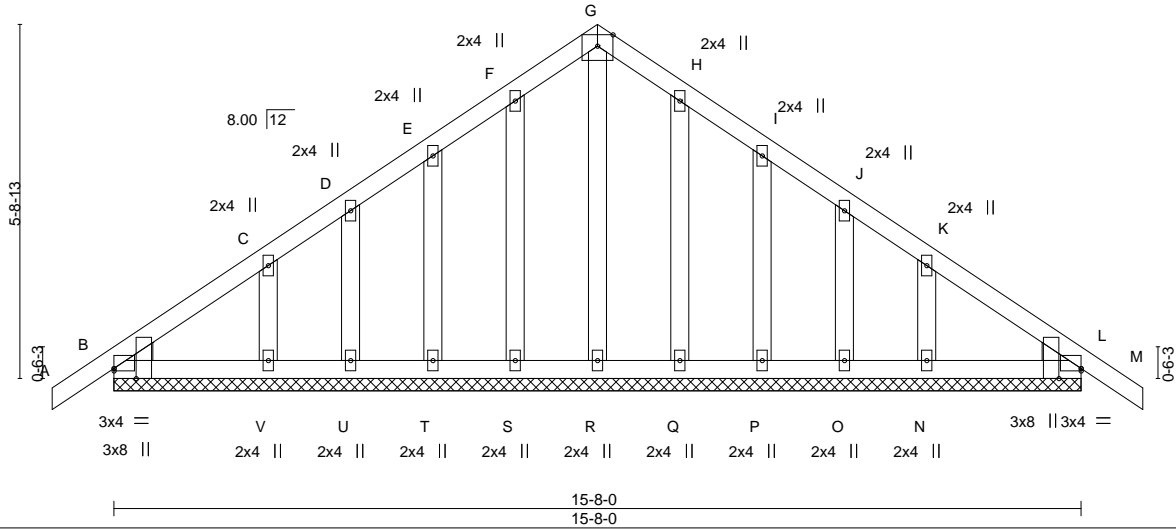


Plate Offsets (X,Y)--	[B:0-0-0,0-0-8], [B:0-1-15,Edge], [L:0-0-0,0-0-8], [L:0-1-15,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.05	Vert(LL)	-0.00	L	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	L	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	L	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	L	n/r	Weight: 100 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2, Right: 2x4 SP No.2	

REACTIONS. All bearings 15-8-0.
 (lb) - Max Horz B=114(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) B, S, T, U, V, Q, P, O, N
 Max Grav All reactions 250 lb or less at joint(s) B, L, R, S, T, U, V, Q, P, O, N

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 1-4-0 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) B, S, T, U, V, Q, P, O, N.



February 6, 2020

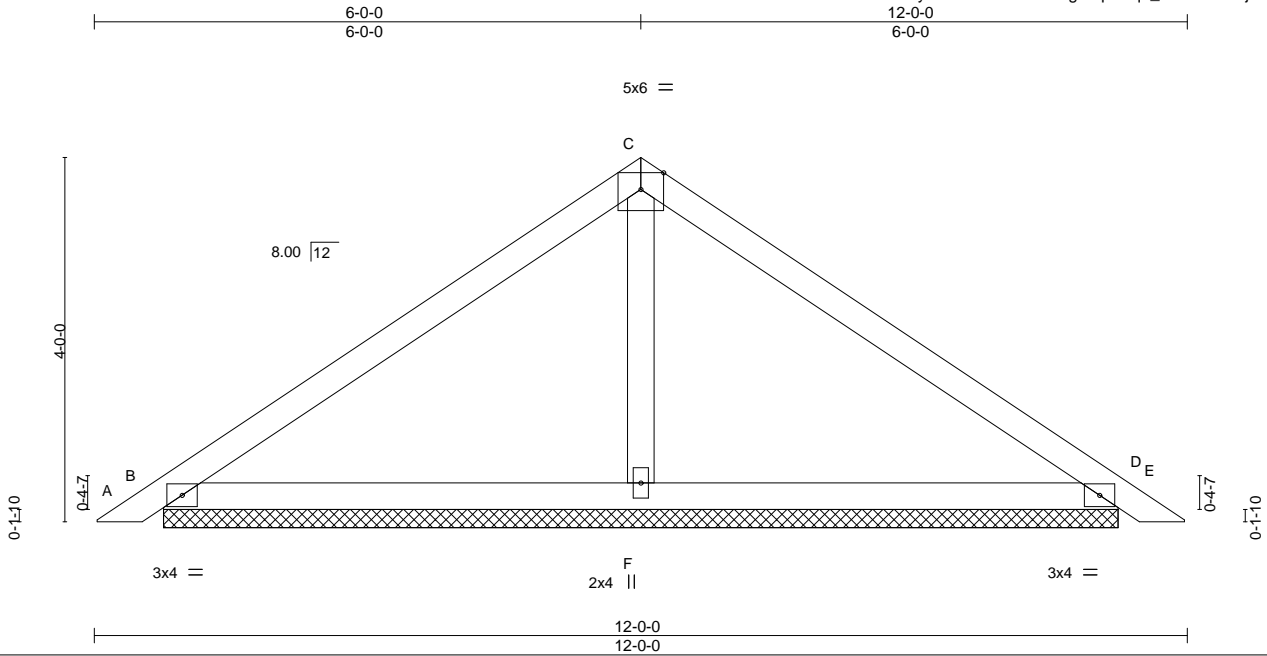
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 20-011219T	Truss PB01	Truss Type Piggyback	Qty 24	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336575
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:44 2020 Page 1

ID:NMFL59h203ksXTJfZlFwYUxix-ra2wiv4bwVEgv?qz??q1_ZSblkWxufjnkOLHpznxpH



Scale = 1:25.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.00	TC 0.28	Vert(LL)	0.01	E	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	0.02	E	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	D	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.01	E	n/r	90	Weight: 42 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) B=238/10-5-12, D=238/10-5-12, F=421/10-5-12
 Max Horz B=-74(LC 8)
 Max Uplift B=-24(LC 10), D=-34(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS C-F=-259/52

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 6, 2020

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.

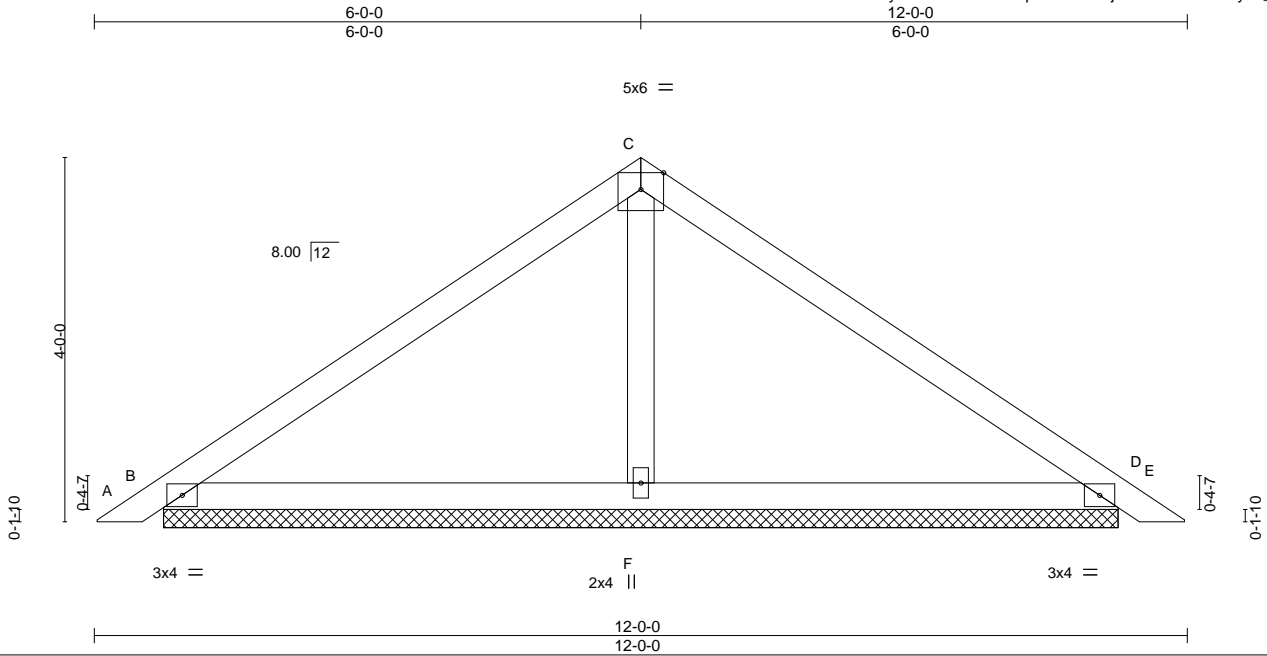


818 Soundside Road
 Edenton, NC 27932

Job 20-011219T	Truss PB012	Truss Type Piggyback	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336576
					Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:45 2020 Page 1
ID:NMFL59h203ksXTJIFZlfWYUJix-KrncivF4DhpMXX9P9ZjLGXn?m28sAd5ys?_7upFznxpG



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.00	TC 0.28	Vert(LL)	0.01	E	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	0.02	E	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	D	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.01	E	n/r	90	Weight: 42 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) B=238/10-5-12, D=238/10-5-12, F=421/10-5-12
 Max Horz B=-74(LC 8)
 Max Uplift B=-24(LC 10), D=-34(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-259/52

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 6, 2020

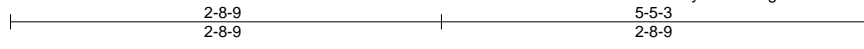
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 20-011219T	Truss PB016	Truss Type Piggyback	Qty 5	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336577
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BMC (Middlesex, NC),

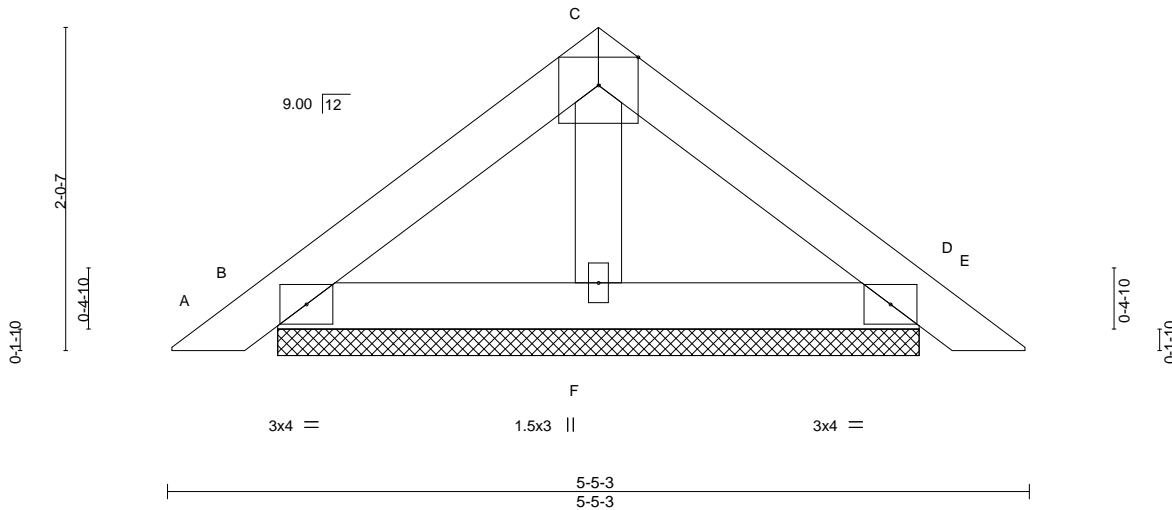
Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:46 2020 Page 1
ID:NMFL59h203ksXTJfZtlfWYUXix-oz9g7b5rS7UO8J_L7QsV3_Y?MYF3MZ60EetSLhznxpF



5x6 =

Scale = 1:14.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.00	TC 0.05	Vert(LL)	0.00	D	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	E	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	D	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	-0.00	E	n/r	90		
									Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=120/4-0-8, D=120/4-0-8, F=137/4-0-8
 Max Horz B=36(LC 9)
 Max Uplift B=-18(LC 10), D=-22(LC 11)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) B, D.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 6, 2020

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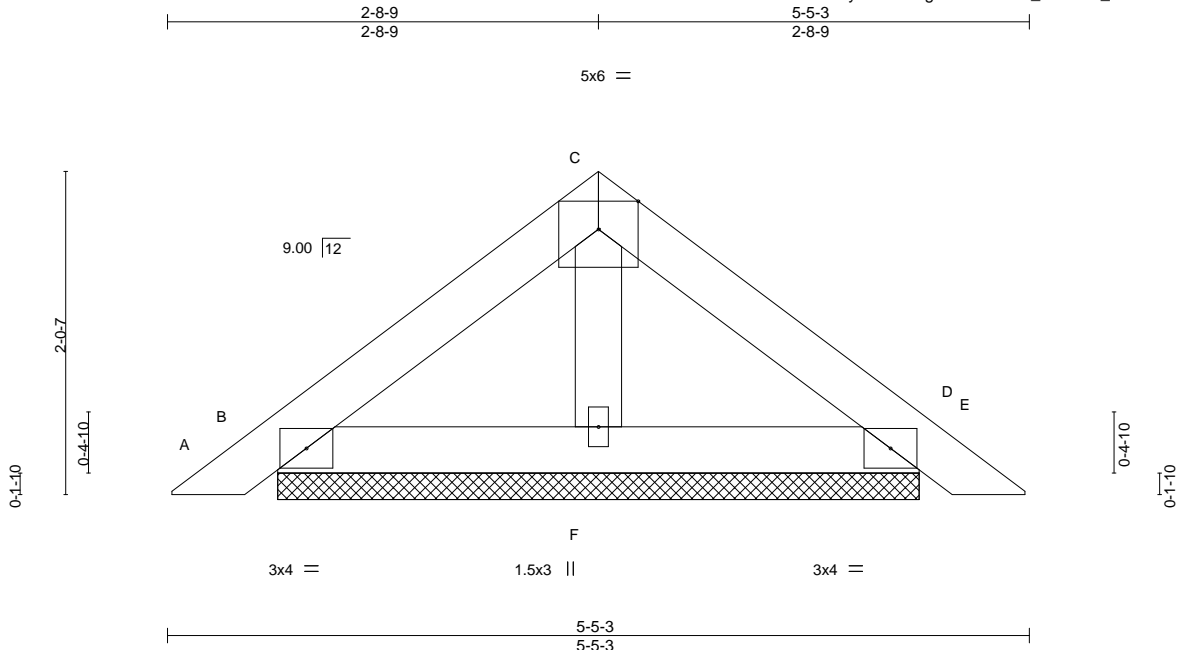
818 Soundside Road
 Edenton, NC 27932

Job 20-011219T	Truss PB017	Truss Type Piggyback	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336578
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BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:46 2020 Page 1
ID:NMFL59h203ksXTJfZtlfWYUxix-oz9g7b5rS7UO8J_L7QsV3_Y?MYF3MZ60EetSLhznxpF



Scale = 1:14.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.00	TC 0.05	Vert(LL)	0.00	D	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	E	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	D	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	-0.00	E	n/r	90	Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=120/4-0-8, D=120/4-0-8, F=137/4-0-8
 Max Horz B=36(LC 9)
 Max Uplift B=-18(LC 10), D=-22(LC 11)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 6, 2020

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818 Soundside Road
 Edenton, NC 27932

Job 20-011219T	Truss V01	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336579
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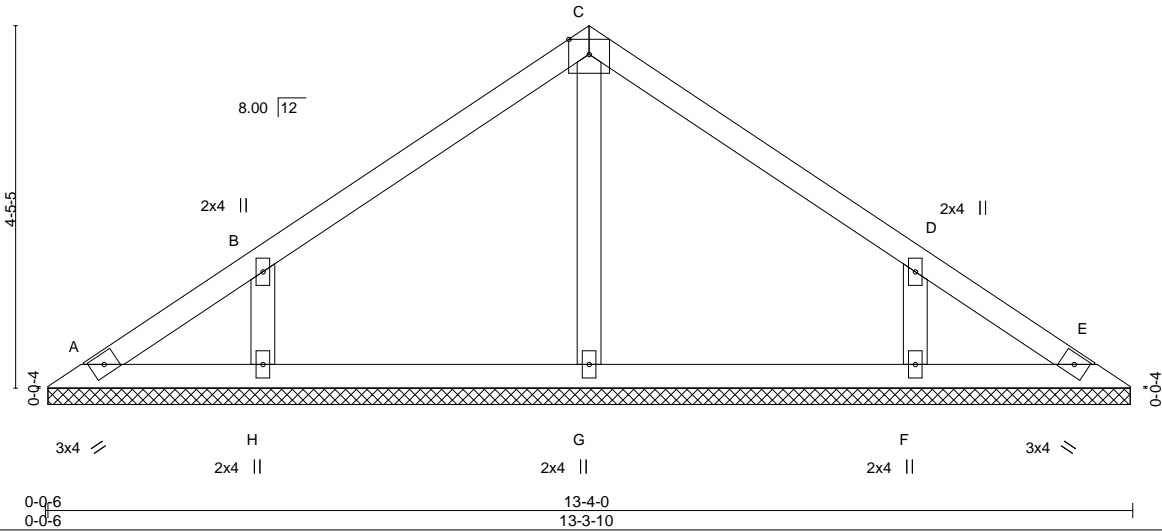
BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:47 2020 Page 1
ID:NMFL59h203ksXTJIFZifWYUix-G9j2Kx6TDQcFmTZyg7NkcC49sxaO50n9Tic?u8znpE



5x6 =

Scale = 1:28.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	E	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 51 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 13-3-4.
 (lb) - Max Horz A=-80(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) A, H, F
 Max Grav All reactions 250 lb or less at joint(s) A, E except G=266(LC 1), H=306(LC 17), F=306(LC 18)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) A, H, F.



February 6, 2020

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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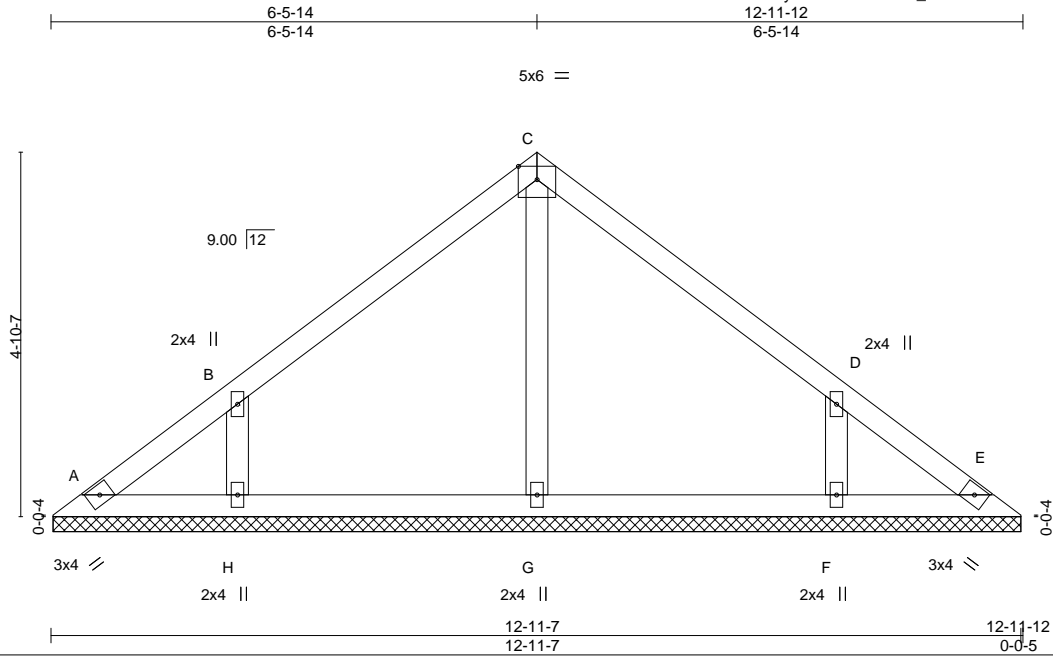


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/ THE OAKDALE	T19336580
20-011219T	V011	Valley	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:48 2020 Page 1
 ID:NMFL59h203ksXTJIFZlfWYUxix-kLHRXH75_kk6Od8kEruz8PdJbLwcqTwilyMYQaznxd



Scale = 1:30.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	E	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 52 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

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

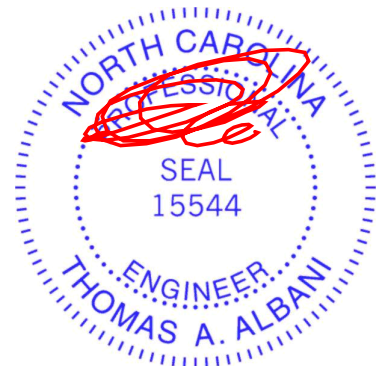
REACTIONS.

All bearings 12-11-2.
 (lb) - Max Horz A=-88(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) A, E, H, F
 Max Grav All reactions 250 lb or less at joint(s) A, E except G=255(LC 1), H=307(LC 17), F=307(LC 18)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) A, E, H, F.



February 6, 2020

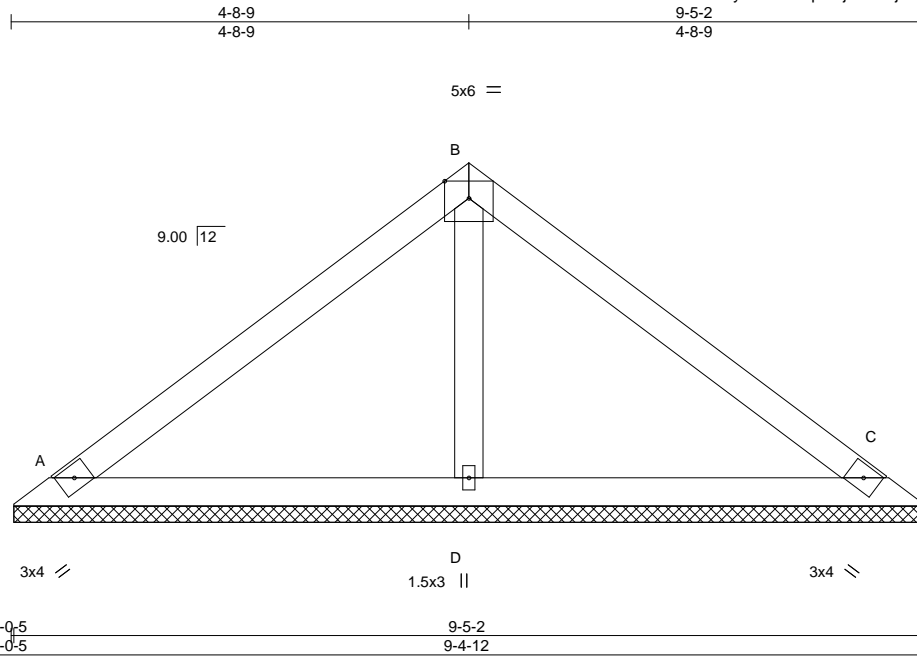
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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 20-011219T	Truss V013	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336581
BMC (Middlesex, NC), Middlesex, NC - 27557,					8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:49 2020 Page 1
ID:NMFL59h203ksXTJIFZtlfWyUXix-CYrpld7jl2sz?njwoYPChdATPIE8ZwUSwb56y0znxpC					Job Reference (optional)



Scale = 1:23.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 34 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

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

REACTIONS. (lb/size) A=175/9-4-7, C=175/9-4-7, D=335/9-4-7
 Max Horz A=-62(LC 6)
 Max Uplift A=-13(LC 10), C=-22(LC 11)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



February 6, 2020

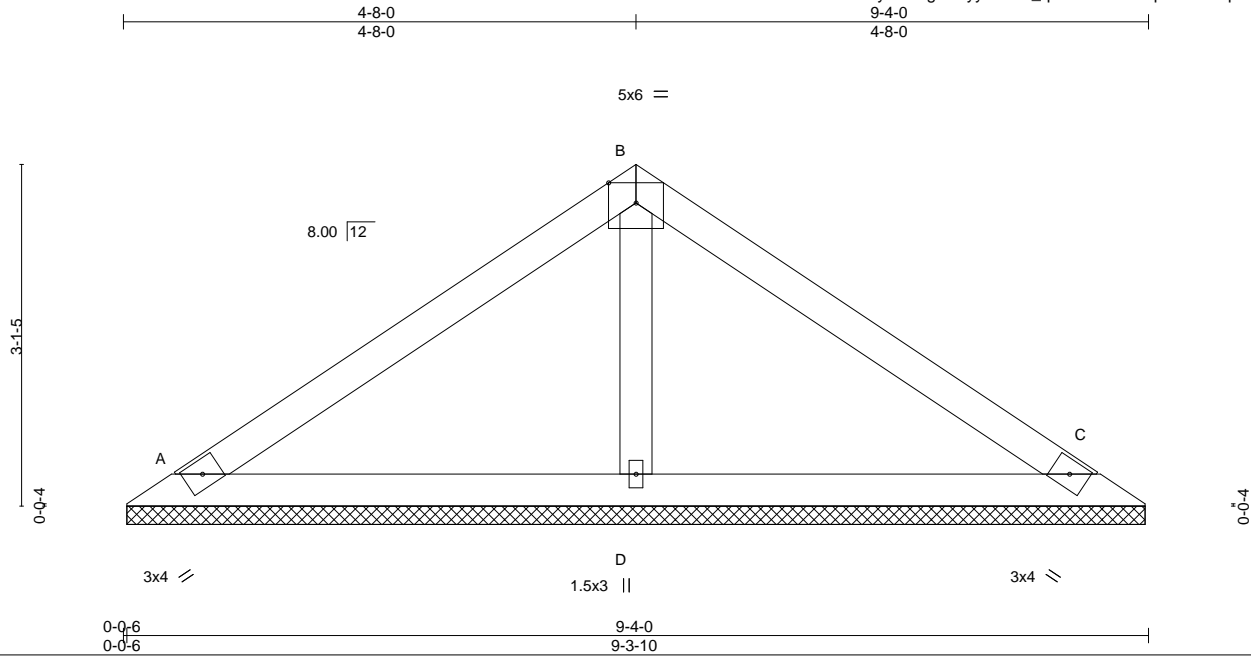
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 20-011219T	Truss V014	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE	T19336582
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:50 2020 Page 1
ID:NMFL59h203ksXTJfZifWyUXix-gkPByy8MWL_qdw17MGwREqjeH9aTINpb9FrfUTznxpB



Scale = 1:21.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 32 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS. (lb/size) A=165/9-3-4, C=165/9-3-4, D=340/9-3-4
 Max Horz A=54(LC 7)
 Max Uplift A=-14(LC 10), C=-21(LC 11)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



February 6, 2020

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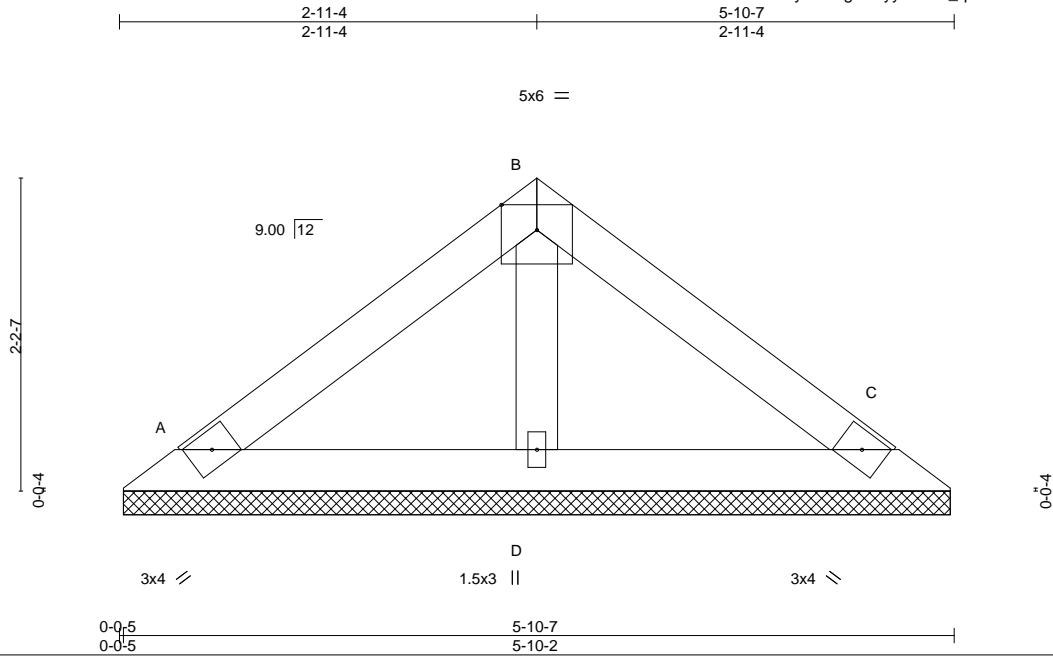


818 Soundside Road
 Edenton, NC 27932

Job 20-011219T	Truss V015	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336583 Job Reference (optional)
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:50 2020 Page 1
ID:NMFL59h203ksXTJfZtffWyUXix-gkPByy8MWL_qdwI7MGwREqifo9clN8b9FrfUTznpB



Scale = 1:16.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	C	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS. (lb/size) A=111/5-9-12, C=111/5-9-12, D=177/5-9-12
 Max Horz A=-36(LC 6)
 Max Uplift A=-12(LC 10), C=-17(LC 11)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) A, C.



February 6, 2020

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

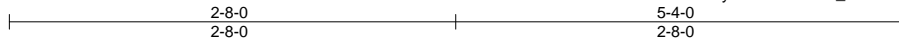
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



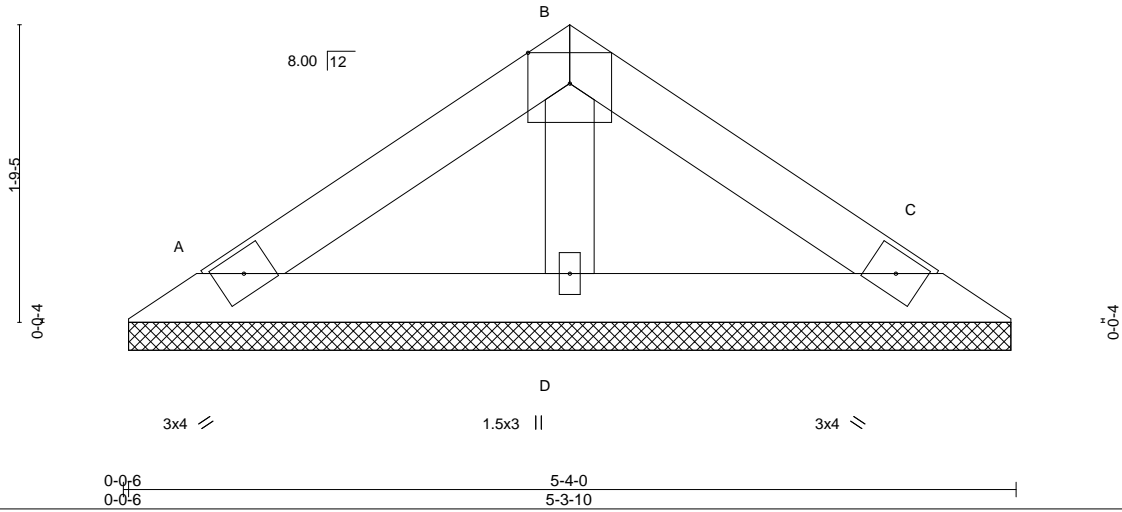
818 Soundside Road
 Edenton, NC 27932

Job 20-011219T	Truss V018	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336584
BMC (Middlesex, NC), Middlesex, NC - 27557,					Job Reference (optional)

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:51 2020 Page 1
ID:NMFL59h203ksXTJfZlFwYUxix-8wzZAI9_Hf6hF4tJvzSgm2FrtZy91qQIOvaD1vznxpA



Scale = 1:13.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

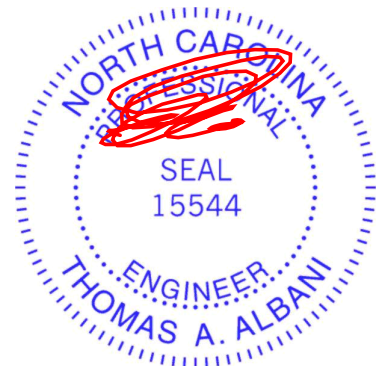
TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=94/5-3-4, C=94/5-3-4, D=161/5-3-4
 Max Horz A=-28(LC 6)
 Max Uplift A=-11(LC 10), C=-15(LC 11)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



February 6, 2020

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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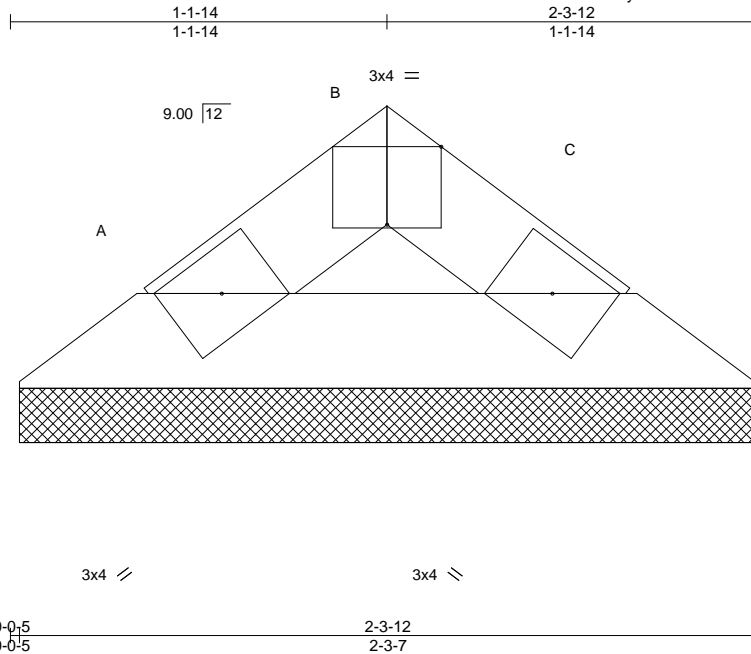


818 Soundside Road
 Edenton, NC 27932

Job 20-011219T	Truss V019	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/ THE OAKDALE T19336585 Job Reference (optional)
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 6 06:16:52 2020 Page 1
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Scale = 1:7.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.01	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a		
	Code IRC2015/TPI2014			Weight: 6 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS

BRACING-

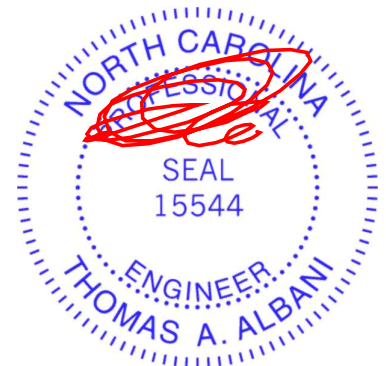
TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=58/2-3-2, C=58/2-3-2
Max Horz A=-10(LC 6)
Max Uplift A=-1(LC 10), C=-1(LC 11)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) A, C.



February 6, 2020

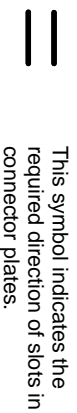
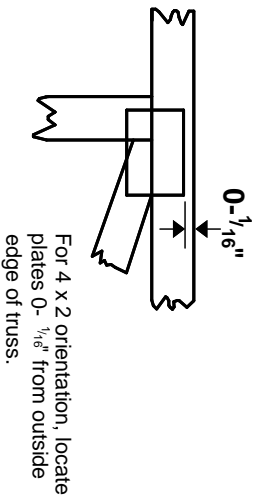
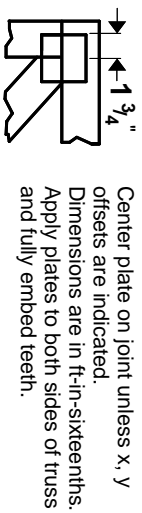
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



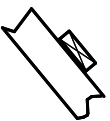
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

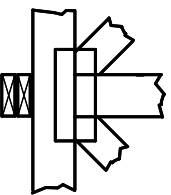
4 X 4

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

LATERAL BRACING LOCATION



BEARING

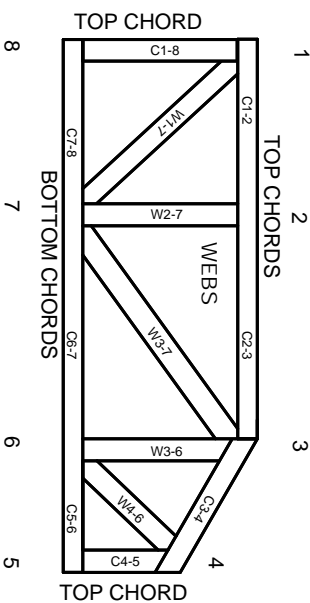


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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