

RE: 19-055962T
 ON TOP BUILDERS/03 FLOWERS HILL

Trenco
 818 Soundside Rd
 Edenton, NC 27932

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

Design Code: IRC2015/TPI2014
 Wind Code: ASCE 7-10
 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.2
 Wind Speed: 115 mph
 Floor Load: N/A psf

This package includes 36 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T16665683	a1	4/1/2019	27	T16665709	vc5	4/1/2019
2	T16665684	a2	4/1/2019	28	T16665710	vc6	4/1/2019
3	T16665685	a4	4/1/2019	29	T16665711	vd1	4/1/2019
4	T16665686	a5	4/1/2019	30	T16665712	vd2	4/1/2019
5	T16665687	a6	4/1/2019	31	T16665713	vd3	4/1/2019
6	T16665688	a7	4/1/2019	32	T16665714	vd4	4/1/2019
7	T16665689	a8	4/1/2019	33	T16665715	ve1	4/1/2019
8	T16665690	a9	4/1/2019	34	T16665716	ve2	4/1/2019
9	T16665691	a10	4/1/2019	35	T16665717	ve3	4/1/2019
10	T16665692	a10s	4/1/2019	36	T16665718	ve4	4/1/2019
11	T16665693	b1	4/1/2019				
12	T16665694	b2	4/1/2019				
13	T16665695	c1	4/1/2019				
14	T16665696	c1g	4/1/2019				
15	T16665697	c2	4/1/2019				
16	T16665698	d1	4/1/2019				
17	T16665699	d2	4/1/2019				
18	T16665700	e1	4/1/2019				
19	T16665701	eg1	4/1/2019				
20	T16665702	f2	4/1/2019				
21	T16665703	fg1	4/1/2019				
22	T16665704	mt1	4/1/2019				
23	T16665705	vc1	4/1/2019				
24	T16665706	vc2	4/1/2019				
25	T16665707	vc3	4/1/2019				
26	T16665708	vc4	4/1/2019				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply. Truss Design Engineer's Name: Albani, Thomas My license renewal date for the state of North Carolina is December 31, 2019. North Carolina COA: C-0844



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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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 19-055962T	Truss A1	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665683
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BMC Components Run: 8.220 s Feb 10 2019 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 1 13:06:26 2019 Page 1
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-jyGI2HcZ4JGmMmvmhf4HwBrqMBK94TsmfnLPBoRzV5Dh

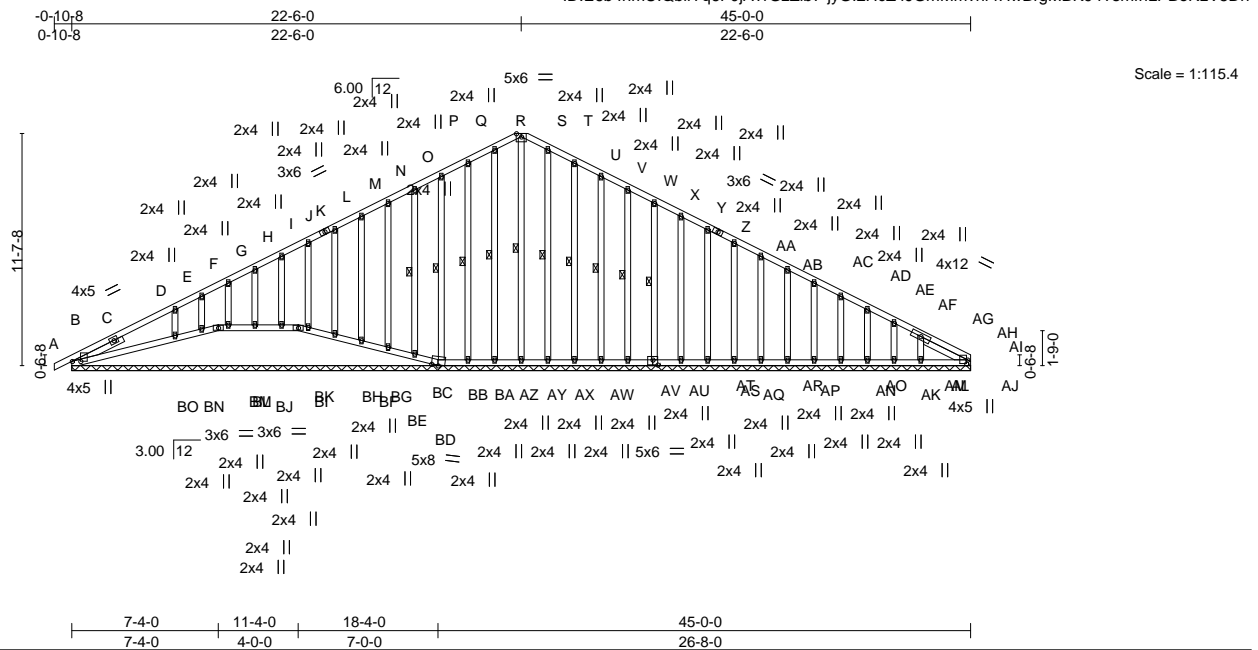


Plate Offsets (X,Y)--	[B:0-0-0,0-5-2], [A:0-2-4,0-0-10], [AT:0-3-0,0-3-0], [BB:0-1-12,0-0-3], [BC:0-0-3,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.24	Vert(LL) -0.00 A n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) 0.01 A n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01 Al n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.00 A n/r 90	Weight: 409 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, Except:
OTHERS 2x4 SP No.3 *Except*	6-0-0 oc bracing: BN-BO.
R-AY, Q-AZ, P-BA, O-BB, N-BD, S-AX, T-AW, U-AV, V-AU: 2x4 SP No.2	WEBS 1 Row at midpt R-AY, Q-AZ, P-BA, O-BB, N-BD, S-AX, T-AW, U-AV, V-AU, W-AT
SLIDER Left 2x4 SP No.3 2-9-10, Right 2x4 SP No.3 2-5-8	

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

REACTIONS. All bearings 45-0-0.
(lb) - Max Horz B=156(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) B, BC, BA, BB, BD, BE, BF, BG, BH, BJ, BK, BL, BO, AW, AV, AU, AT, AS, AR, AQ, AP, AO, AN, AM, AL, AK, AJ except BN=-109(LC 3)
Max Grav All reactions 250 lb or less at joint(s) B, BM, BI, BC, AI, AY, AZ, BA, BB, BD, BE, BF, BG, BH, BJ, BK, BL, BN, AX, AW, AV, AU, AT, AS, AR, AQ, AP, AO, AN, AM, AL, AK, AJ except BO=451(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD P-Q=-117/266, Q-R=-119/276, R-S=-119/276, S-T=-117/266
WEBS D-BO=-317/161

- 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.
 - 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) B, BC, BA, BB, BD, BE, BF, BG, BH, BJ, BK, BL, BO, AW, AV, AU, AT, AS, AR, AQ, AP, AO, AN, AM, AL, AK, AJ except (jt=lb) BN=109.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) BM, BI, BD, BE, BF, BG, BH, BJ, BK, BL, BN, BO.

LOAD CASE(S) Standard



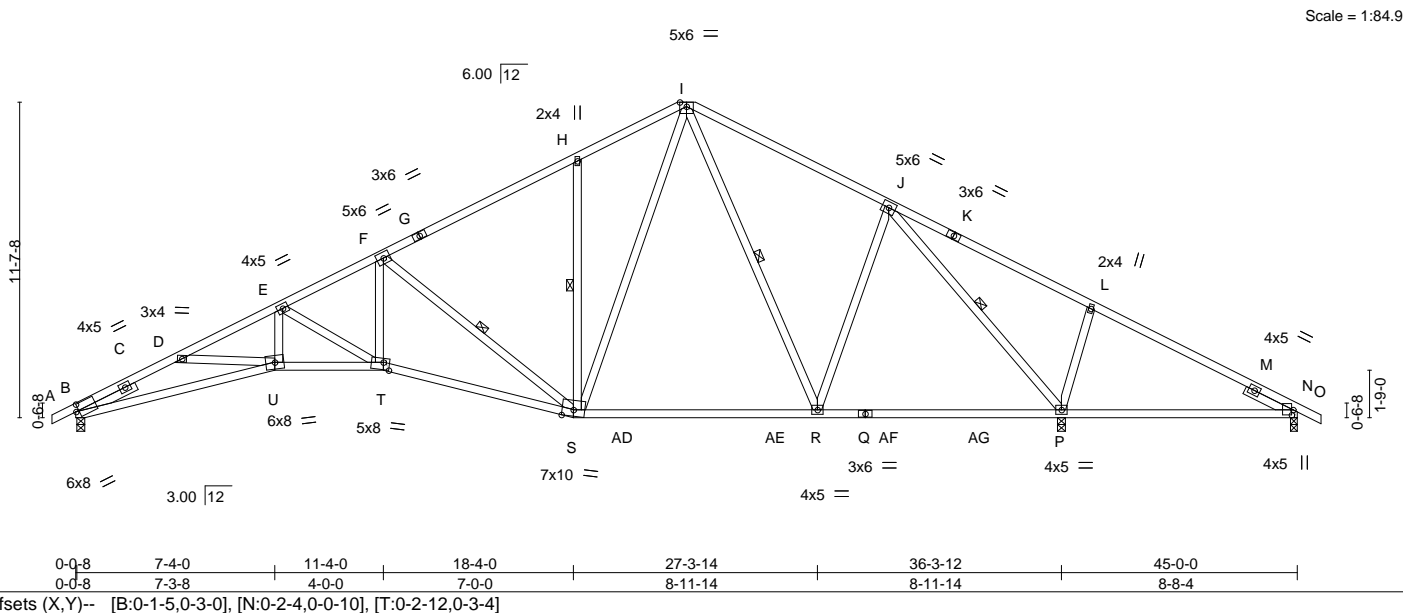
April 1, 2019

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/TPI 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 19-055962T	Truss A2	Truss Type Roof Special	Qty 2	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665684
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BMC Components Run: 8.220 s Feb 10 2019 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 1 13:06:29 2019 Page 1
 ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-8XyRgleSNEeLDEeGKCqdpTimYX2cg?h6TJerPmzV5De



0-0-8	7-4-0	11-4-0	18-4-0	27-3-14	36-3-12	45-0-0
0-0-8	7-3-8	4-0-0	7-0-0	8-11-14	8-11-14	8-8-4

Plate Offsets (X,Y)-- [B:0-1-5,0-3-0], [N:0-2-4,0-0-10], [T:0-2-12,0-3-4]

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 0.68	Vert(LL)	0.17	P-X	>591	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.62	R-S	>704		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.25	P	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						

Weight: 267 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 2-3-11 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, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: N-P.
SLIDER Left 2x4 SP No.3 2-5-0, Right 2x4 SP No.3 1-11-0	WEBS 1 Row at midpt F-S, H-S, I-R, J-P

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

REACTIONS. (lb/size) P=2245/0-3-8, N=33/0-3-0, B=1421/0-3-8
 Max Horz B=-152(LC 11)
 Max Uplift P=-10(LC 10), N=-193(LC 23), B=-60(LC 10)
 Max Grav P=2246(LC 2), N=230(LC 22), B=1421(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1231/43, C-D=-3771/506, D-E=-3989/486, E-F=-2829/410, F-G=-1487/295,
 G-H=-1389/330, H-I=-1446/429, I-J=-1052/350, J-K=-14/895, K-L=-50/745, L-M=-65/787,
 M-N=-252/263
 BOT CHORD B-U=-379/3343, T-U=-310/3497, S-T=-205/2644, S-AD=0/916, AD-AE=0/916, R-AE=0/916,
 R-AF=-13/697, Q-AF=-13/697, Q-AG=-13/697, P-AG=-13/697, N-P=-611/112
 WEBS E-U=-35/858, E-T=-1148/142, F-T=-53/1326, F-S=-1687/236, H-S=-367/173,
 I-S=-199/1019, I-R=-364/87, J-R=0/606, J-P=-2105/67, L-P=-458/223, D-U=0/331

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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; porch 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) Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, B except (jt=lb) N=193.

LOAD CASE(S) Standard



April 1, 2019

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ENGINEERING BY
TRENCO
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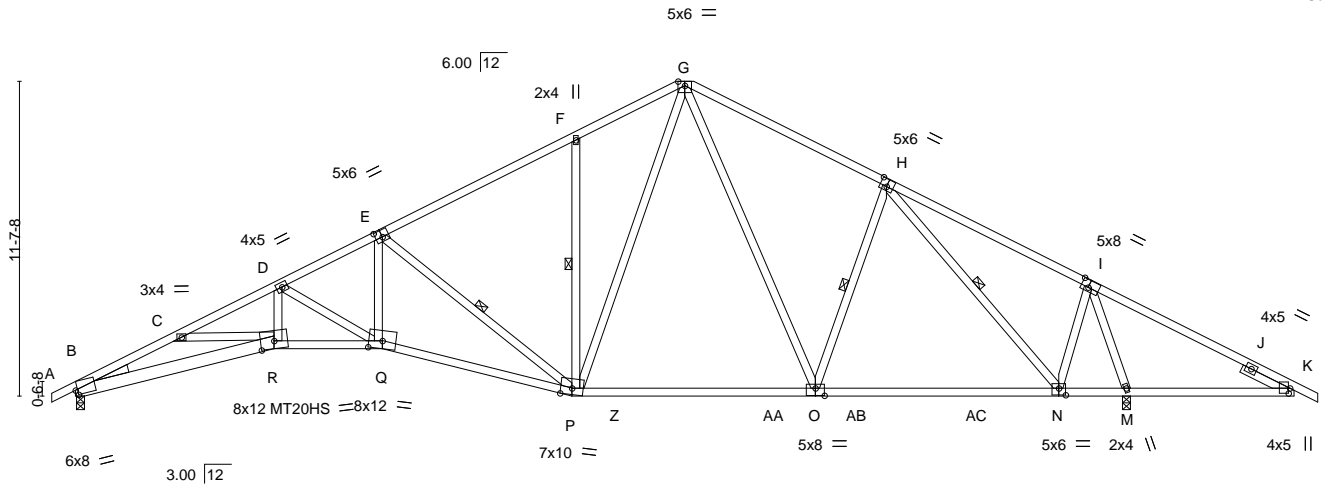
818 Soundside Road
 Edenton, NC 27932

Job 19-055962T	Truss A4	Truss Type Roof Special	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665685
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BMC Components Run: 8.220 s Feb 10 2019 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 1 13:06:31 2019 Page 1
 ID:E6b4hmUIQbiiYq6FOjA?rGzZib7-4v4B5_givrv3SYoeRdt5uuO48Lg?8z1Pxd7yUfzV5Dc

0-10-8	3-11-0	7-4-0	11-4-0	18-4-0	22-6-0	29-11-6	37-4-12	45-0-0	45-10-8
0-10-8	3-11-0	3-5-0	4-0-0	7-0-0	4-2-0	7-5-6	7-5-6	7-7-4	0-10-8

Scale = 1:85.1



0-0-8	7-4-0	11-4-0	18-4-0	27-3-14	36-3-12	38-11-8	45-0-0
0-0-8	7-3-8	4-0-0	7-0-0	8-11-14	8-11-14	2-7-12	6-0-8

Plate Offsets (X,Y)-- [B:0-0-15,0-2-3], [E:0-3-0,0-3-0], [H:0-3-0,0-3-4], [I:0-3-4,0-3-4], [K:0-2-4,0-0-10], [N:0-3-0,0-3-0], [O:0-4-0,0-3-4], [Q:0-6-0,0-3-8], [R:0-6-0,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.80	Vert(LL)	-0.37	O-P	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.67	O-P	>694	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.27	M	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 278 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 *Except*
 B-R: 2x6 SP No.2
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3
 SLIDER Right 2x4 SP No.3 1-11-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 2-2-0 oc bracing: B-R
 6-0-0 oc bracing: K-M.
 WEBS 1 Row at midpt H-O, E-P, F-P, H-N

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

REACTIONS. (lb/size) M=2145/0-3-8, B=1560/0-3-8
 Max Horz B=-152(LC 15)
 Max UpliftM=-70(LC 11), B=-70(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-4693/520, C-D=-4610/436, D-E=-3310/363, E-F=-1809/293, F-G=-1766/392,
 G-H=-1571/294, H-I=-700/92, I-J=-261/670, J-K=-159/330
 BOT CHORD B-R=-406/4210, Q-R=-270/4037, P-Q=-176/3063, P-Z=0/1238, Z-AA=0/1238, O-AA=0/1238,
 O-AB=0/1281, AB-AC=0/1281, N-AC=0/1281, M-N=0/271, K-M=-500/312
 WEBS G-P=-198/1017, G-O=-76/363, D-R=-35/994, D-Q=-1276/138, E-Q=-42/1510,
 E-P=-1851/224, F-P=-357/171, H-N=-1200/215, I-N=-31/1092, I-M=-2063/346

- 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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, B.


LOAD CASE(S) Standard



April 1, 2019

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 19-055962T	Truss A5	Truss Type Roof Special	Qty 3	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665686
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BMC Components Run: 8.220 s Feb 10 2019 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 1 13:06:33 2019 Page 1
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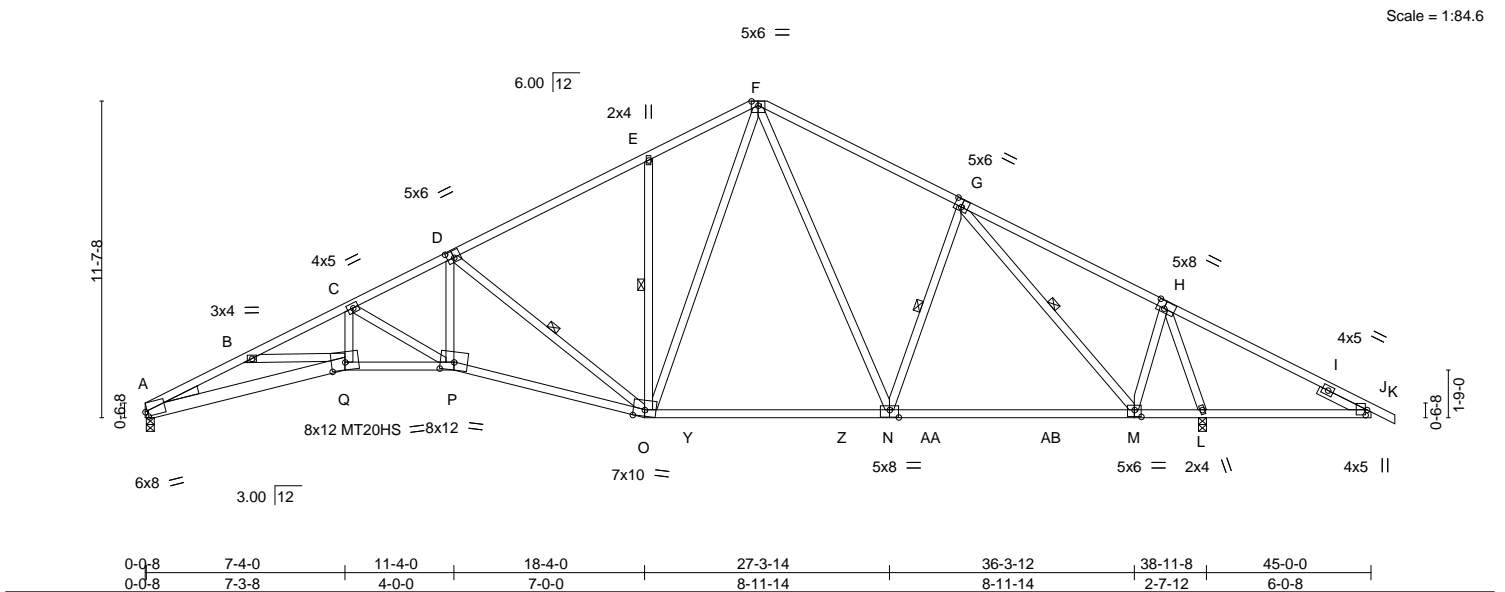
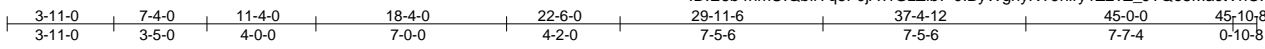


Plate Offsets (X,Y)--	[A:0-0-15,0-2-3], [D:0-3-0,0-3-0], [G:0-3-0,0-3-4], [H:0-3-4,0-3-4], [J:0-2-4,0-0-10], [M:0-3-0,0-3-0], [N:0-4-0,0-3-4], [P:0-6-0,0-3-8], [Q:0-6-0,0-3-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(LL) -0.37 N-O >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Vert(CT) -0.67 N-O >694 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.27 L n/a n/a		
				Weight: 276 lb	FT = 20%

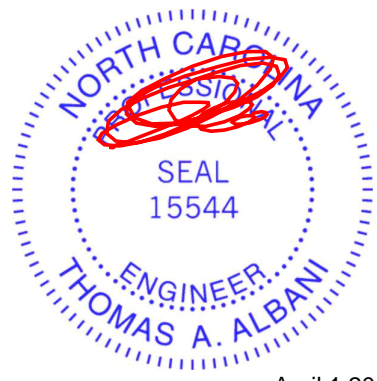
LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS *Except* A-Q: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: A-Q
WEBS 2x4 SP No.2	6-0-0 oc bracing: J-L.
WEDGE Left: 2x4 SP No.3	WEBS 1 Row at midpt G-N, D-O, E-O, G-M
SLIDER Right 2x4 SP No.3 1-11-0	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) L=2146/0-3-8, A=1506/0-3-8
 Max Horz A=-157(LC 11)
 Max Uplift L=-70(LC 11), A=-58(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-4708/531, B-C=-4620/443, C-D=-3314/366, D-E=-1811/294, E-F=-1768/393,
 F-G=-1572/295, G-H=-700/93, H-I=-261/670, I-J=-159/330
 BOT CHORD A-Q=-417/4226, P-Q=-272/4046, O-P=-177/3067, O-Y=0/1238, Y-Z=0/1238, N-Z=0/1238,
 N-AA=0/1282, AA-AB=0/1282, M-AB=0/1282, L-M=0/271, J-L=-500/312
 WEBS F-O=-198/1019, F-N=-76/363, C-Q=-37/1000, C-P=-1281/142, D-P=-45/1514,
 D-O=-1854/226, E-O=-357/171, G-M=-1200/215, H-M=-31/1092, H-L=-2063/347

- 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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) A considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L, A.

LOAD CASE(S) Standard



April 1, 2019

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 19-055962T	Truss A6	Truss Type Roof Special	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665687
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BMC Components Run: 8.220 s Feb 10 2019 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 1 13:06:35 2019 Page 1
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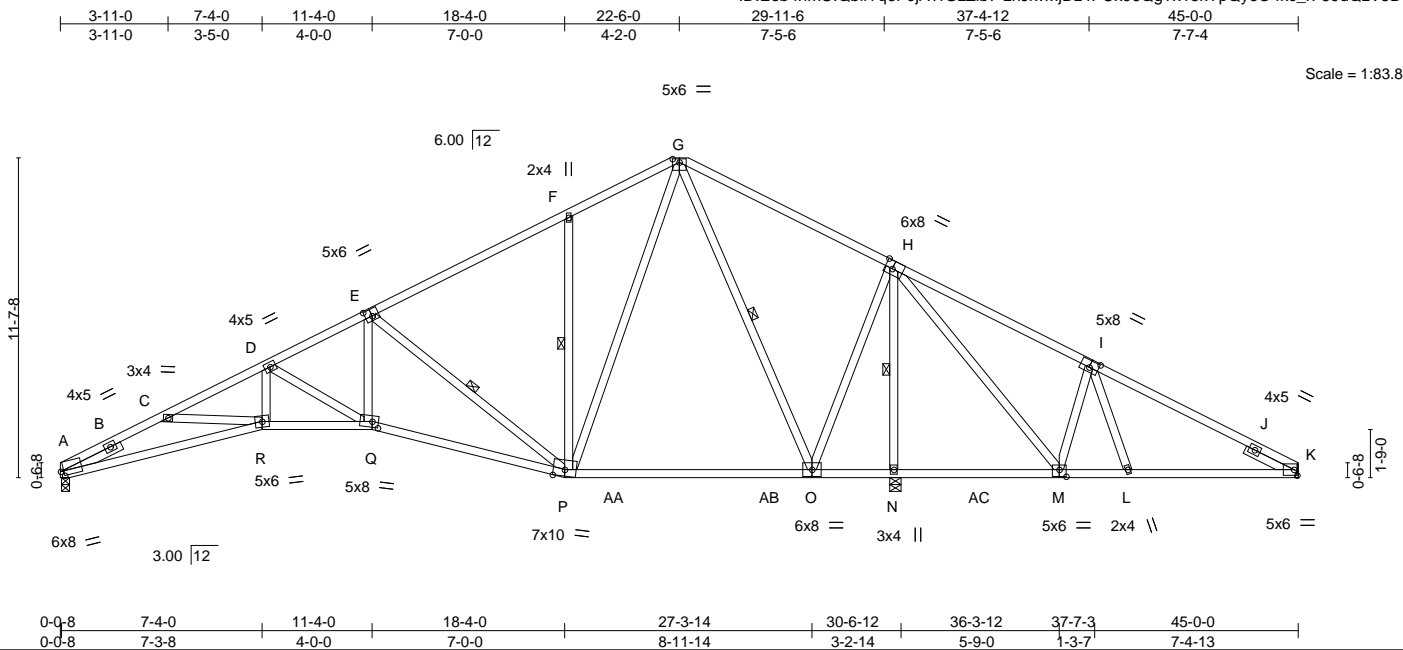


Plate Offsets (X,Y)-- [A:0-1-6,0-2-2], [E:0-3-0,0-3-0], [G:0-3-0,0-1-8], [H:0-3-4,Edge], [I:0-4-0,0-3-0], [K:0-1-6,0-2-8], [M:0-3-0,0-3-0], [Q:0-2-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.65	Vert(LL) -0.31 O-P >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Vert(CT) -0.55 O-P >660 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.15 N n/a n/a		
	Code IRC2015/TPI2014			Weight: 280 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
 SLIDER Left 2x4 SP No.3 2-5-0, Right 2x4 SP No.3 1-11-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-4-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt G-O, E-P, F-P, H-N

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

REACTIONS. (lb/size) K=137/Mechanical, N=2457/0-4-15, A=986/0-3-8
 Max Horz A=-147(LC 11)
 Max Uplift K=-137(LC 21), N=-33(LC 10), A=-36(LC 10)
 Max Grav K=339(LC 22), N=2457(LC 1), A=986(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-1081/50, B-C=-2649/363, C-D=-2645/309, D-E=-1723/254, E-F=-688/207,
 F-G=-653/306, G-H=0/431, H-I=-99/667, I-J=-241/535
 BOT CHORD A-R=-320/2363, Q-R=-215/2299, P-Q=-128/1590, P-AA=0/263, AA-AB=0/263, O-AB=0/263,
 N-O=-813/188, N-AC=-810/188, M-AC=-810/188, L-M=-495/153, K-L=-441/215
 WEBS G-P=-196/1045, G-O=-1256/110, D-R=-25/649, D-Q=-908/121, E-Q=-23/947,
 E-P=-1298/197, F-P=-374/171, H-O=-4/1427, H-M=-132/703, I-M=-558/192,
 H-N=-2361/305

- 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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) A considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N, A except (jt=lb) K=137.

LOAD CASE(S) Standard



April 1, 2019

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 TRESCO
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 818 Soundside Road
 Edenton, NC 27932

Job 19-055962T	Truss A7	Truss Type Roof Special	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665688
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BMC Components Run: 8.220 s Feb 10 2019 Print: 8.220 s Mar 22 2019 MiTek Industries, Inc. Mon Apr 1 13:06:57 2019 Page 1
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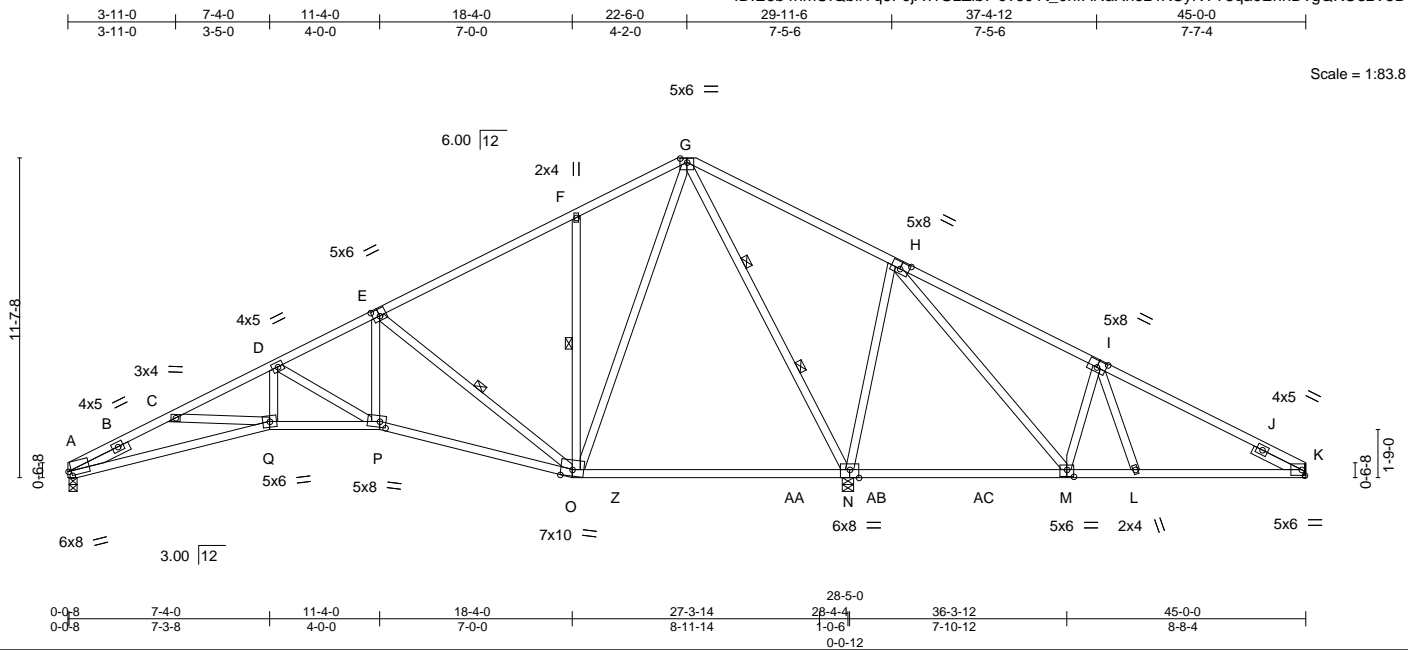


Plate Offsets (X,Y)-- [A:0-1-6,0-2-2], [E:0-3-0,0-3-0], [G:0-3-0,0-1-12], [H:0-4-0,0-3-0], [I:0-4-0,0-3-0], [K:0-1-6,0-2-8], [M:0-3-0,0-3-0], [N:0-4-0,Edge], [P:0-2-12,0-2-8]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.81	Vert(LL) -0.45 N-O >751 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.71 N-O >476 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.12 N n/a n/a		
	Code IRC2015/TPI2014			Weight: 270 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 3-11-5 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 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt E-O, F-O
G-N: 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	2 Rows at 1/3 pts G-N
SLIDER Left 2x4 SP No.3 2-5-0, Right 2x4 SP No.3 1-11-0	

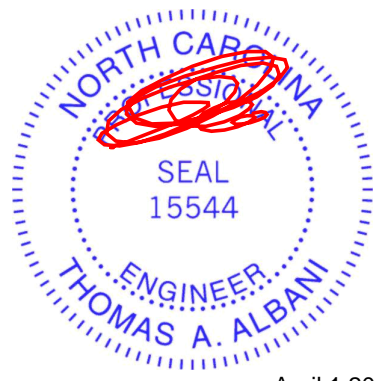
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) N=2596/0-4-15, K=153/Mechanical, A=832/0-3-8
 Max Horz A=-147(LC 11)
 Max Uplift N=-44(LC 10), K=-139(LC 21), A=-31(LC 10)
 Max Grav N=2596(LC 1), K=364(LC 22), A=832(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-951/35, B-C=-2171/309, C-D=-2076/243, D-E=-1259/201, E-F=-355/168,
 F-G=-331/267, G-H=-3/1172, H-I=-156/669, I-J=-291/541
 BOT CHORD A-Q=-306/1943, P-Q=-198/1793, O-P=-114/1160, N-AB=-814/187, AB-AC=-814/187,
 M-AC=-814/187, L-M=-498/201, K-L=-446/260
 WEBS G-O=-191/1060, H-N=-766/279, D-Q=-22/558, D-P=-803/113, E-P=-19/788, E-O=-1144/180,
 F-O=-378/172, H-M=-136/719, I-M=-548/190, G-N=-1848/166

- 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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) A considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N, A except (jt=lb) K=139.

LOAD CASE(S) Standard



April 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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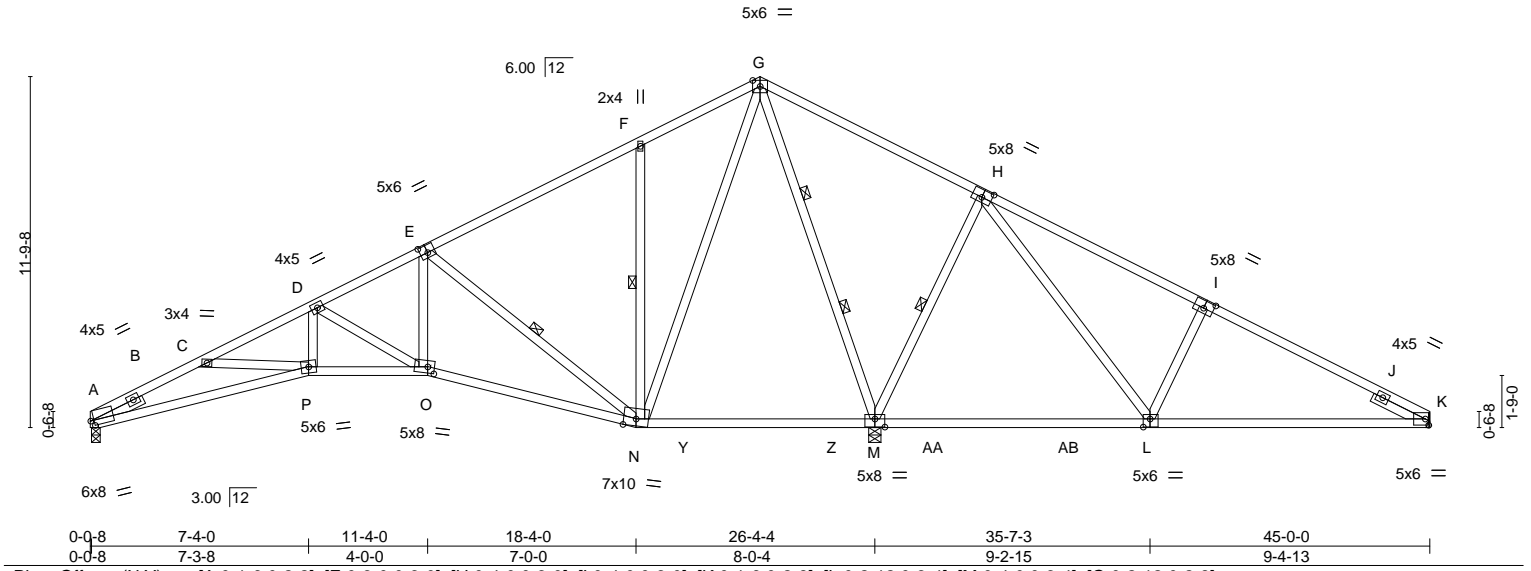
Job 19-055962T	Truss A8	Truss Type Roof Special	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665689
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8,220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:52:47 2019 Page 1
ID:E6b4hmUIQbiiYq6F0JA?rGzZib7-XGHtCsgwxzeQ_SJ?rv8JpNGILBxg4FT6SQWLZPzV5QU

3-11-0	7-4-0	11-4-0	18-4-0	22-6-0	29-11-6	37-4-12	45-0-0
3-11-0	3-5-0	4-0-0	7-0-0	4-2-0	7-5-6	7-5-6	7-7-4

Scale = 1:77.4



0-0-8	7-4-0	11-4-0	18-4-0	26-4-4	35-7-3	45-0-0
0-0-8	7-3-8	4-0-0	7-0-0	8-0-4	9-2-15	9-4-13

Plate Offsets (X,Y)-- [A:0-1-6,0-2-2], [E:0-3-0,0-3-0], [H:0-4-0,0-3-0], [I:0-4-0,0-3-0], [K:0-1-6,0-2-8], [L:0-2-12,0-3-4], [M:0-4-0,0-3-4], [O:0-2-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.58	Vert(LL) -0.19 L-M >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.29 L-S >779 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.10 M n/a n/a		
	Code IRC2015/TPI2014			Weight: 263 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
SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt E-N, F-N, H-M
2 Rows at 1/3 pts G-M

REACTIONS. (lb/size) M=2583/0-4-15, K=280/Mechanical, A=718/0-3-8
Max Horz A=-148(LC 11)
Max Uplift M=-65(LC 10), K=-96(LC 11), A=-20(LC 10)
Max Grav M=2583(LC 1), K=480(LC 22), A=730(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-1861/257, C-D=-1701/183, D-E=-955/151, G-H=-15/1105, H-I=-367/501, I-K=-565/439
BOT CHORD A-P=-276/1661, O-P=-164/1462, N-O=-84/879, M-N=-336/215, L-M=-682/165, K-L=-349/416
WEBS D-P=-16/491, D-O=-733/107, E-O=-5/691, E-N=-1044/162, F-N=-383/179, G-N=-215/1046, G-M=-1799/191, H-M=-776/258, H-L=-92/754, I-L=-432/194

- 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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) A considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, K, A.



April 1, 2019

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.

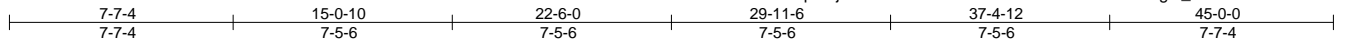
TRESCO
ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

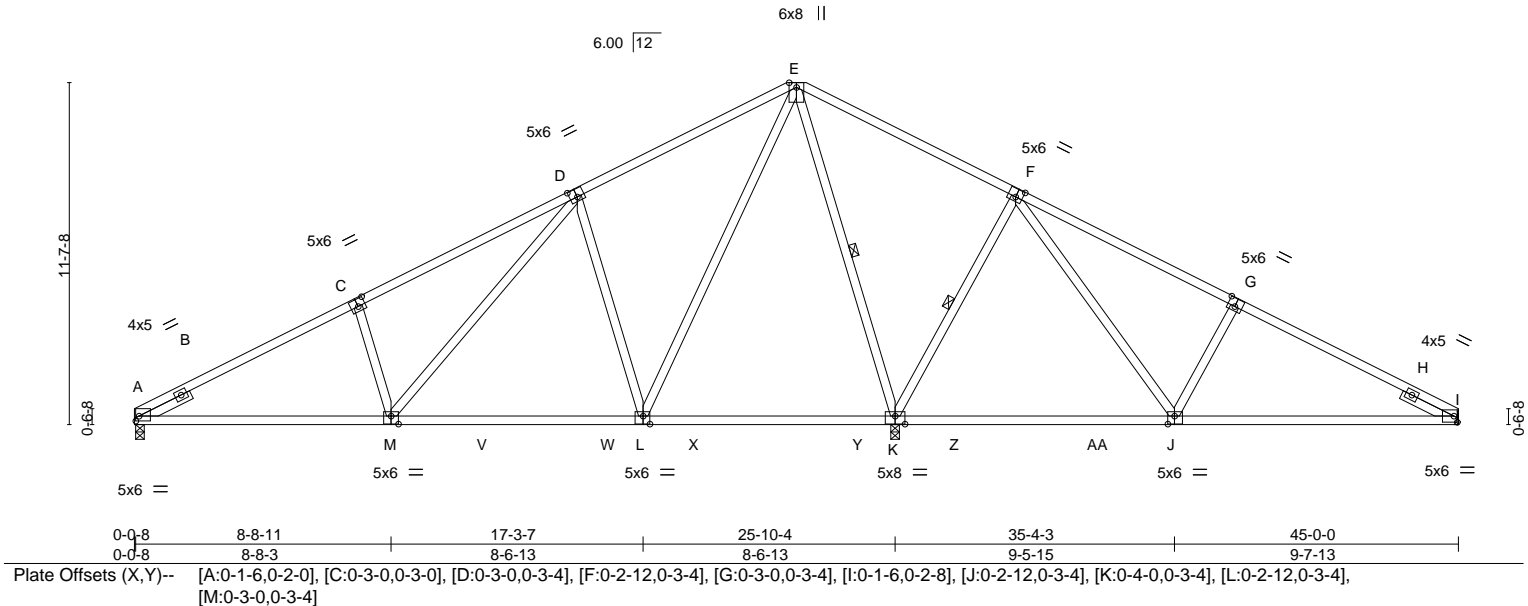
Job 19-055962T	Truss A9	Truss Type Common	Qty 6	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665690
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:52:49 2019 Page 1
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-TePdcYhATbu8EmTNzKBnuoLgO_C7Y9sPvk?SdlzV5QS



Scale = 1:78.3



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 0.55	Vert(LL)	-0.23	J-K	>994	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.32	J-K	>726		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.02	K	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 248 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 4-11-13 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 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt E-K, F-K
SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0	

REACTIONS. (lb/size) K=2162/0-3-8, A=868/0-3-8, I=550/Mechanical
 Max Horz A=-147(LC 11)
 Max Uplift A=-51(LC 10), I=-65(LC 11)
 Max Grav K=2304(LC 2), A=890(LC 21), I=615(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-C=-1301/210, C-D=-1274/284, D-E=-557/262, E-F=0/601, F-G=-623/181, G-I=-756/145
 BOT CHORD A-M=-167/1164, L-M=-66/610, I-J=-53/662
 WEBS C-M=-389/194, D-M=-116/712, D-L=-738/261, E-L=-162/1048, E-K=-1387/136,
 F-K=-774/247, F-J=-76/714, G-J=-419/193

- 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, I.



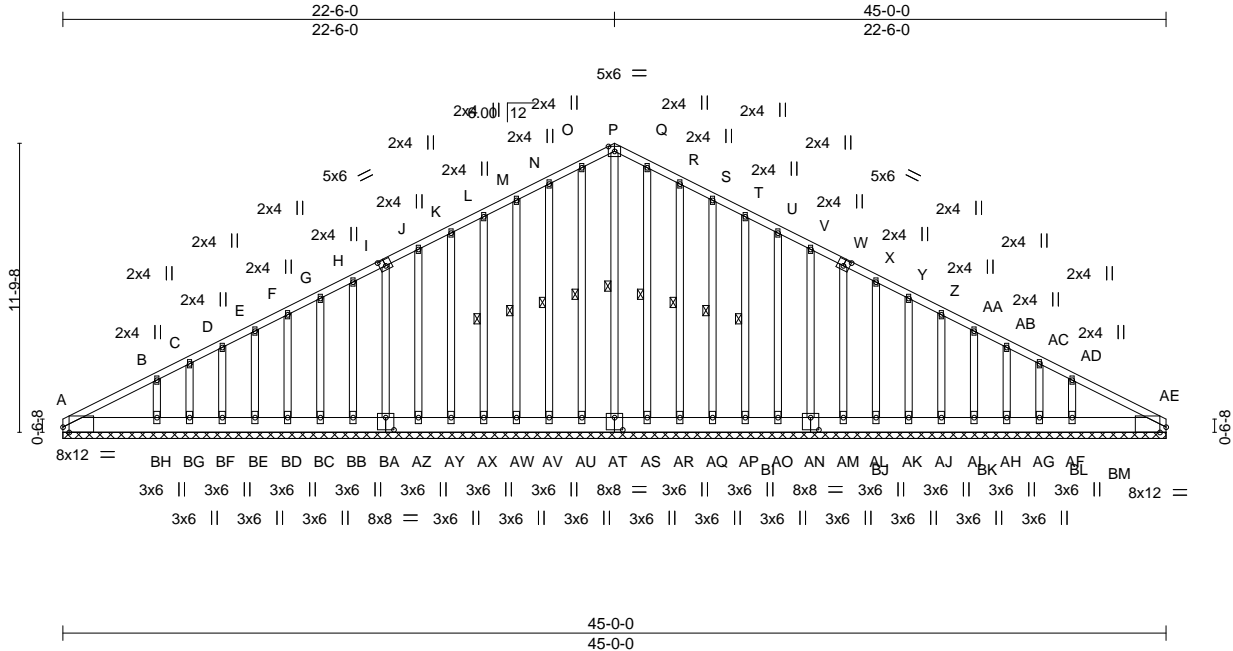
April 1, 2019

<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 19-055962T	Truss A10	Truss Type Common Girder	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665691
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:52:31 2019 Page 1
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Scale = 1:94.0

Plate Offsets (X,Y)--	[A:0-3-1,Edge], [I:0-3-0,0-3-0], [W:0-3-0,0-3-0], [AE:0-3-1,Edge], [AN:0-4-0,0-6-0], [AT:0-4-0,0-6-0], [BA:0-4-0,0-6-0]
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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 0.12	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.09	Horz(CT)	0.00	AE	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 477 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 2x8 SP 2250F 1.9E or 2x8 SP DSS or 2x8 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt
P-AT,O-AU,N-AV,M-AW,L-AX,Q-AS,R-AR,S-AQ,T-AP: 2x4 SP No.2	P-AT, O-AU, N-AV, M-AW, L-AX, Q-AS, R-AR, S-AQ, T-AP

REACTIONS. All bearings 45-0-0.
 (lb) - Max Horz A=148(LC 27)
 Max Uplift All uplift 100 lb or less at joint(s) AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, AR, AQ, AP, AO, AN, AM, AL, AK, AJ, AI, AH, AG except AF=-118(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) A, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, AS, AR, AQ, AP, AO, AN, AM, AL, AK, AJ, AI, AH, AG, AE except BH=329(LC 19), AF=444(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - 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) AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, AR, AQ, AP, AO, AN, AM, AL, AK, AJ, AI, AH, AG except (it=lb) AF=118.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 35 lb up at 26-10-12, 57 lb down and 35 lb up at 28-10-12, 57 lb down and 35 lb up at 30-10-12, 57 lb down and 35 lb up at 32-10-12, 57 lb down and 35 lb up at 34-10-12, 57 lb down and 35 lb up at 36-10-12, 57 lb down and 35 lb up at 38-10-12, and 57 lb down and 35 lb up at 40-10-12, and 57 lb down and 35 lb up at 42-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: A-P=-60, P-AE=-60, A-AE=-20



April 1, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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 TRESCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 19-055962T	Truss A10	Truss Type Common Girder	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL T16665691 Job Reference (optional)
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:52:31 2019 Page 2
ID:E6b4hmUIQbiiYq6F0JA?rGzZib7-?BJqrOTtj3di4?5wwYsYA?bifkCiKDEmmxeV?LzV5Qk

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: AO=-53 AL=-53 AI=-53 AF=-53 BI=-53 BJ=-53 BK=-53 BL=-53 BM=-53

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 19-055962T	Truss A10S	Truss Type Jack-Closed	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665692
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:52:33 2019 Page 1
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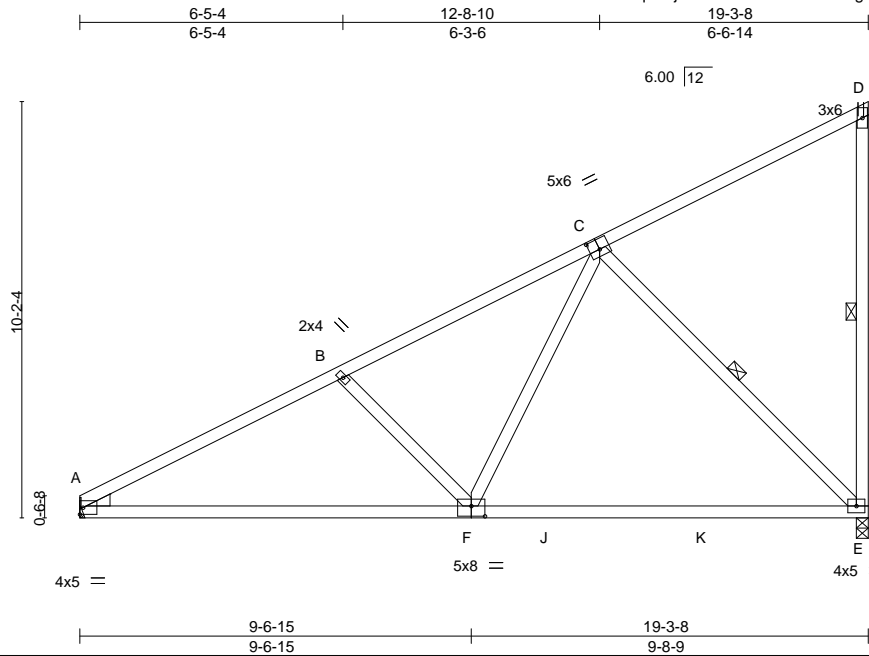


Plate Offsets (X,Y)--	[C:0-3-0,0-3-0], [F:0-4-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.53	Vert(LL) -0.32 E-F >721 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.51 E-F >446 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.02 E n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 106 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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt D-E, C-E


REACTIONS. (lb/size) E=766/0-3-8, A=766/Mechanical
Max Horz A=300(LC 9)
Max Uplift E=-99(LC 10), A=-21(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1193/152, B-C=-935/135
BOT CHORD A-F=-134/998, E-F=-74/533
WEBS B-F=-355/173, C-F=-13/590, C-E=-739/187

- NOTES-**
- 1) 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, A.



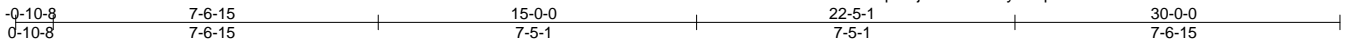
April 1, 2019

<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  A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 19-055962T	Truss B1	Truss Type Roof Special	Qty 6	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665693
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:52:50 2019 Page 1
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Scale = 1:53.7

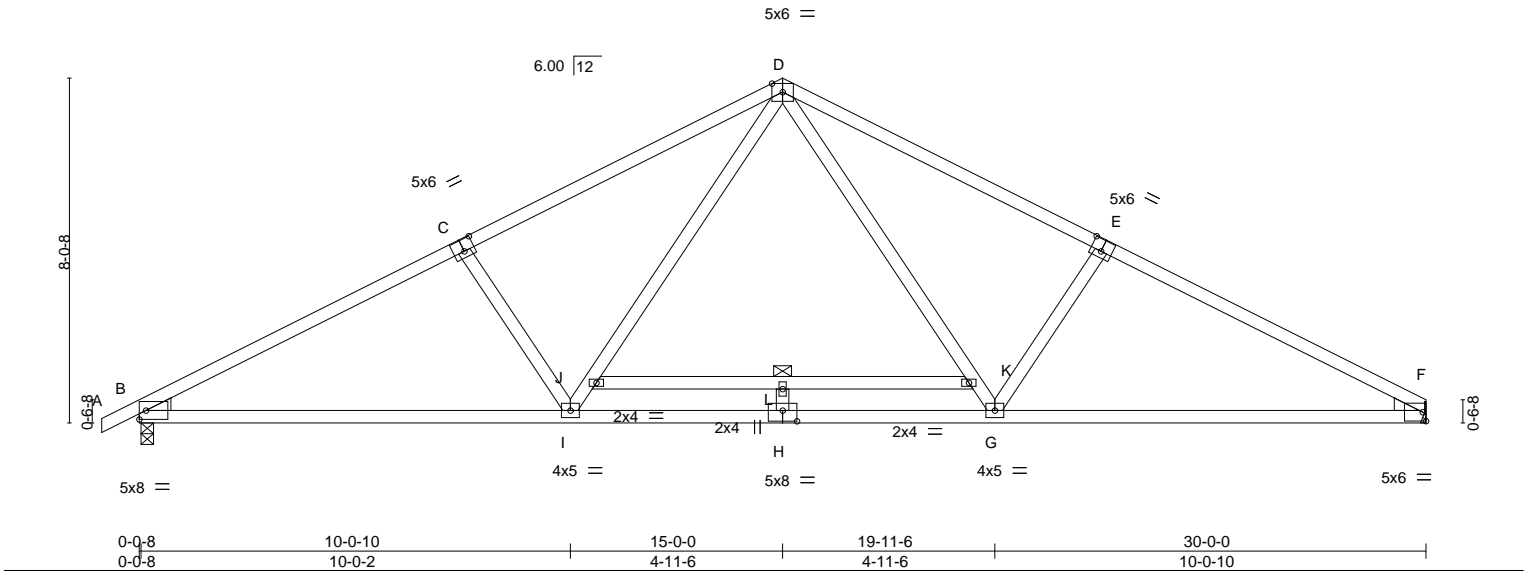


Plate Offsets (X,Y)--	[B:0-0-15,0-0-7], [B:0-6-8,0-0-15], [C:0-3-0,0-3-4], [E:0-3-0,0-3-4], [H:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.92	Vert(LL)	-0.28	H >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.61	H >587	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Horz(CT)	0.08	F n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 152 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.3

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

REACTIONS. (lb/size) B=1434/0-3-8, F=1380/Mechanical
Max Horz B=109(LC 10)
Max Uplift B=-58(LC 10), F=-46(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2441/338, C-D=-2218/357, D-E=-2219/358, E-F=-2459/339
BOT CHORD B-I=-219/2107, H-I=-71/1527, G-H=-71/1527, F-G=-223/2110
WEBS D-K=-93/899, G-K=-81/737, E-G=-430/208, I-J=-80/734, D-J=-92/896, C-I=-425/202

- 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (plf)
Vert: A-D=-60, D-F=-60, M-P=-20, J-K=-40(F)

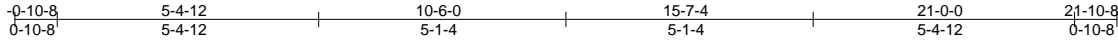


April 1, 2019

Job 19-055962T	Truss C1	Truss Type Common	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665695
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:52:55 2019 Page 1
ID:E6b4hmUIQbiiYq6F0JA?rGzZib7-lomutbmX3RfIyhxXJbIB83bmzPJPy40llgSmryzV5QM



5x6 =

Scale: 1/4"=1'

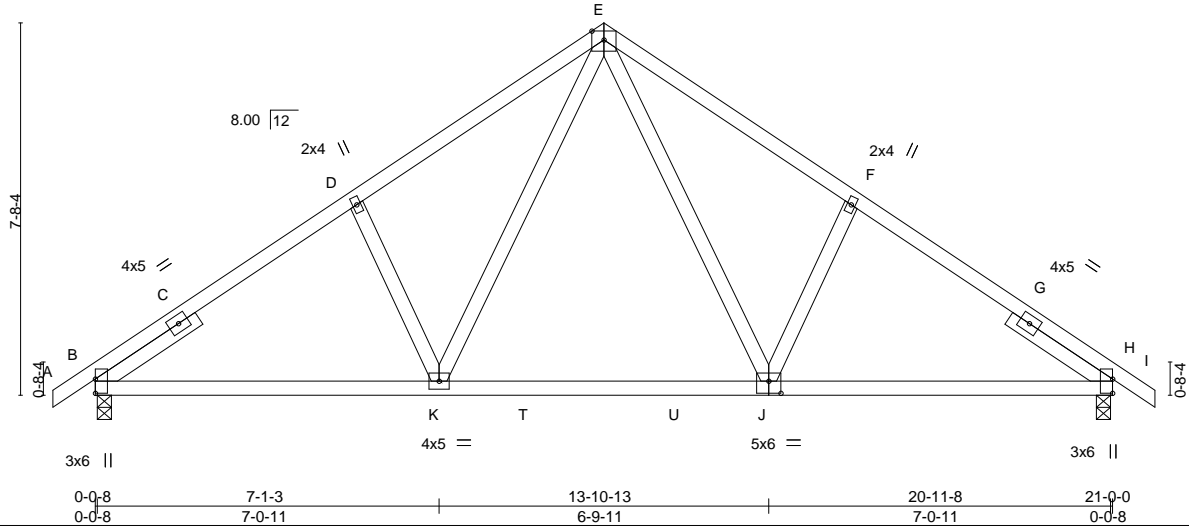


Plate Offsets (X,Y)-- [B:Edge,0-0-0], [H:Edge,0-0-0], [J:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.23	Vert(LL)	-0.09	J-K >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.14	J-K >999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.02	H n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 115 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
SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=893/0-3-8, H=892/0-3-8
Max Horz B=147(LC 9)
Max Uplift B=-27(LC 10), H=-27(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-1041/104, D-E=-1016/160, E-F=-1016/160, F-H=-1041/104
BOT CHORD B-K=-54/944, J-K=0/637, H-J=0/874
WEBS E-J=-67/477, F-J=-268/152, E-K=-67/477, D-K=-268/152

- 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
 - 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.



April 1, 2019

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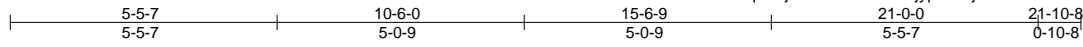


818 Soundside Road
Edenton, NC 27932

Job 19-055962T	Truss C1G	Truss Type Roof Special Girder	Qty 1	Ply 2	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665696
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:52:59 2019 Page 1
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5x6 =

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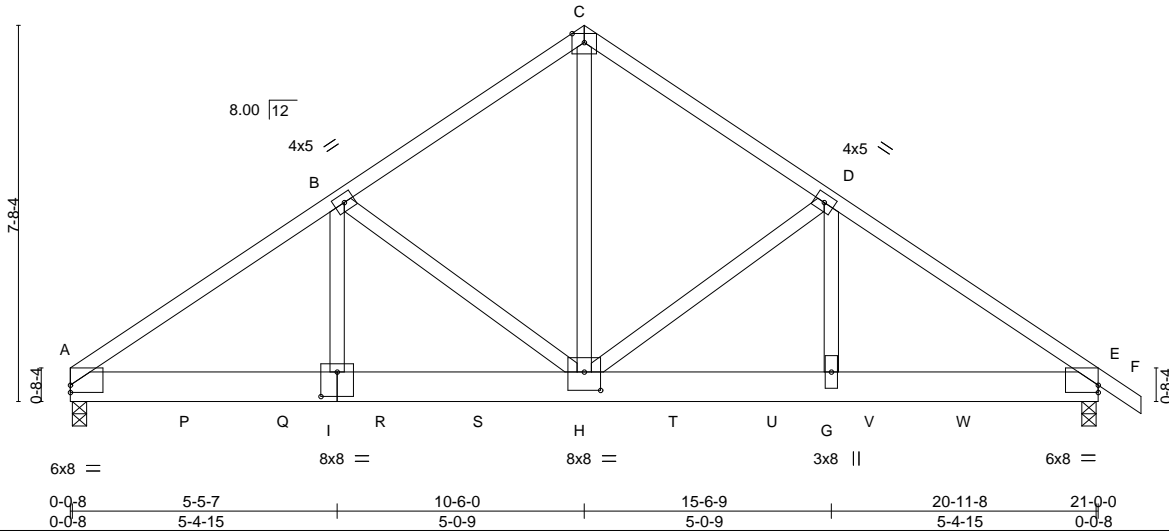


Plate Offsets (X,Y)-- [A:0-0-0,0-1-13], [E:0-0-0,0-1-13], [H:0-4-0,0-4-8], [I:0-4-0,0-6-0]

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 0.21	Vert(LL)	-0.06	G-H >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.11	H-I >999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.45	Horz(CT)	0.02	E n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 284 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x8 SP 2250F 1.9E or 2x8 SP DSS or 2x8 SP SS
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) A=3561/0-3-8, E=3744/0-3-8
 Max Horz A=-143(LC 6)
 Max Uplift A=-506(LC 8), E=-321(LC 9)

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

TOP CHORD A-B=-4890/602, B-C=-3624/450, C-D=-3625/451, D-E=-5236/517
 BOT CHORD A-I=-515/3996, H-I=-515/3996, G-H=-358/4286, E-G=-358/4286
 WEBS C-H=-417/3629, D-H=-1704/226, D-G=-86/1622, B-H=-1339/317, B-I=-184/1213

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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; cantilever left and right exposed; end vertical left and right exposed; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=506, E=321.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 325 lb down and 151 lb up at 0-5-4, 344 lb down and 159 lb up at 2-5-4, 460 lb down and 116 lb up at 4-5-4, 595 lb down and 85 lb up at 6-5-4, 595 lb down and 85 lb up at 8-5-4, 595 lb down and 85 lb up at 10-5-4, 595 lb down and 85 lb up at 12-5-4, 595 lb down and 85 lb up at 14-5-4, and 595 lb down and 85 lb up at 16-5-4, and 746 lb down and 41 lb up at 18-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: A-C=-60, C-F=-60, J-M=-20



April 1, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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.



Job 19-055962T	Truss C1G	Truss Type Roof Special Girder	Qty 1	Ply 2	ON TOP BUILDERS/03 FLOWERS HILL T16665696 Job Reference (optional)
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:52:59 2019 Page 2
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-Ba0PjypR7f9jRIEiYRM7IvISF0i2uphtDIQ__jzV5QI

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: H=-595(B) L=-325(B) P=-344(B) Q=-460(B) R=-595(B) S=-595(B) T=-595(B) U=-595(B) V=-595(B) W=-871(B=-746)

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 19-055962T	Truss C2	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665697
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:01 2019 Page 1
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-7y798eqieHPRgcOhgrPbNKrrGqSbMnGAgcv52bzV5QG

0-10-8 10-6-0 21-0-0 21-10-8
0-10-8 10-6-0 10-6-0 0-10-8

5x6 =

Scale = 1:50.7

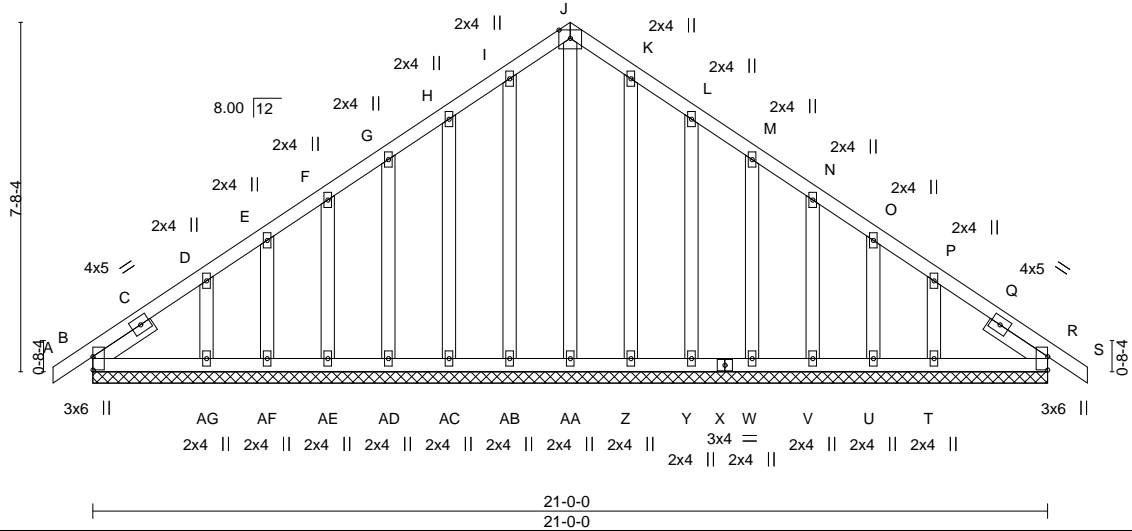


Plate Offsets (X,Y)-- [B:Edge,0-0-0], [R:Edge,0-0-0]

LOADING (psf)	SPACING-	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	R	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00	R	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00	R	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.00	R	n/r	90		
							Weight: 159 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
SLIDER Left 2x4 SP No.3 1-6-7, Right 2x4 SP No.3 1-6-7

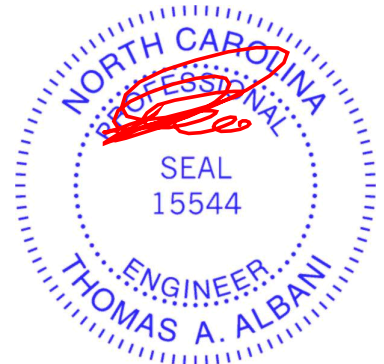
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-0-0.
(lb) - Max Horz B=-147(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) B, AB, AC, AD, AE, AF, AG, Z, Y, W, V, U, T
Max Grav All reactions 250 lb or less at joint(s) B, AA, AB, AC, AD, AE, AF, AG, Z, R, Y, W, V, U, T

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; 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.
- 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) B, AB, AC, AD, AE, AF, AG, Z, Y, W, V, U, T.



April 1, 2019

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818 Soundside Road
Edenton, NC 27932

Job 19-055962T	Truss D1	Truss Type Roof Special	Qty 5	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665698
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BMC (Middlesex, NC), Middlesex, NC - 27557, 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:03 2019 Page 1
 ID:E6b4hmUIQbiiYq6F0JA?rGzZib7-3LFwYKsyAuf9vwY4nGR3TlwA5d3JqhLT7wOB7UzV5QE

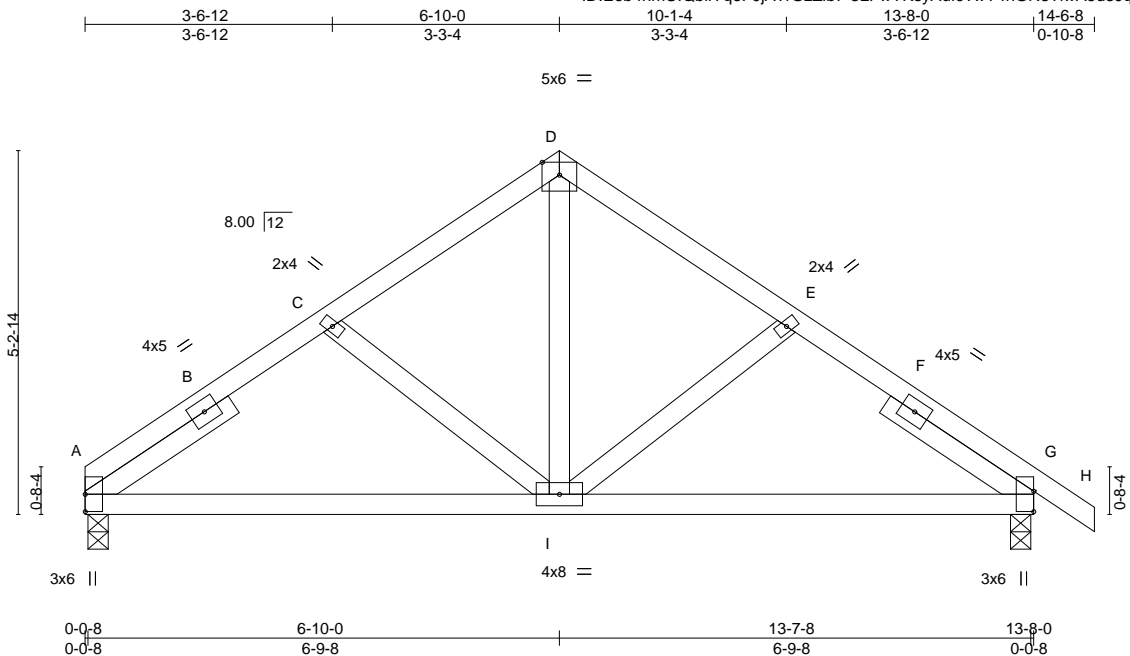


Plate Offsets (X,Y)--	[G:Edge,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.27	Vert(LL) -0.03 I-L >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) -0.06 I-L >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 G n/a n/a		
	Code IRC2015/TPI2014			Weight: 73 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.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0	

REACTIONS. (lb/size) A=545/0-3-8, G=601/0-3-8
 Max Horz A=-96(LC 8)
 Max Uplift A=-9(LC 10), G=-21(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-C=-600/87, C-D=-538/83, D-E=-537/83, E-G=-598/86
 BOT CHORD A-I=-39/537, G-I=0/526
 WEBS D-I=-23/364

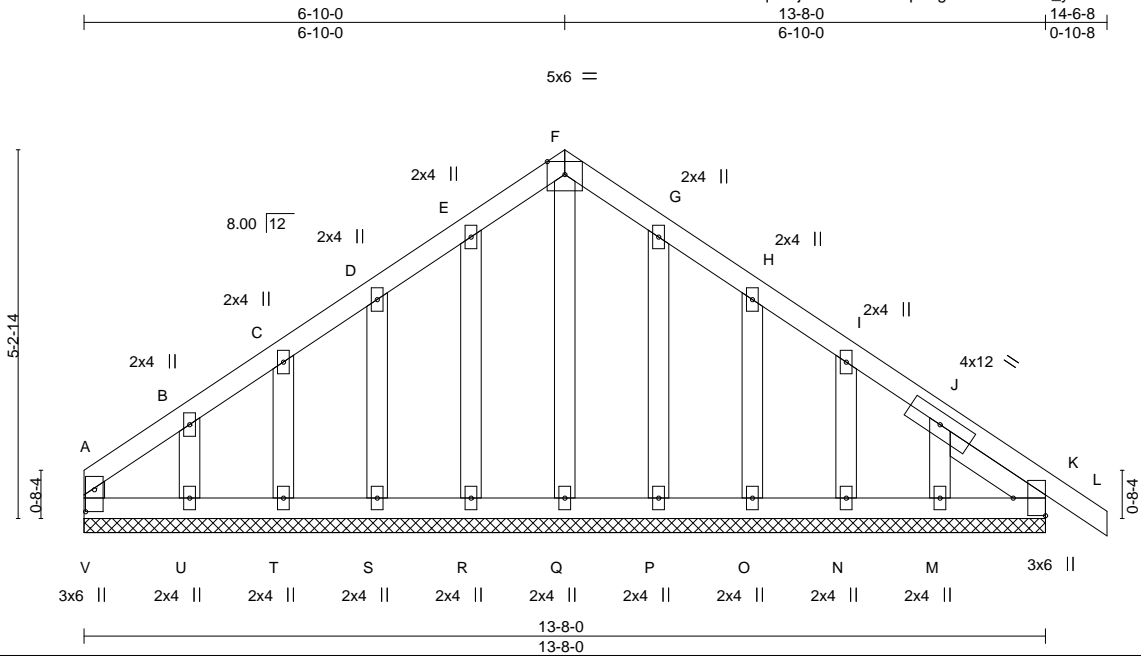
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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, G.



April 1, 2019

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Job 19-055962T	Truss D2	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665699
BMC (Middlesex, NC), Middlesex, NC - 27557,					8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:04 2019 Page 1	
					ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-XXplmgtaxCn0X37GL_y1?zTMi1TUZ9lcMa7fwzV5QD	
					Job Reference (optional)	



Scale = 1:32.8

Plate Offsets (X,Y)-- [K:Edge,0-5-8], [V:0-3-12,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.04	Vert(LL) -0.00 K n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 K n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 K n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.00 K n/r 90	Weight: 86 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
OTHERS	2x4 SP No.3
SLIDER	Right 2x4 SP No.3 1-7-13

BRACING-

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

REACTIONS. All bearings 13-8-0.
 (lb) - Max Horz V=-103(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) V, K, R, S, T, U, P, O, N, M
 Max Grav All reactions 250 lb or less at joint(s) V, K, Q, R, S, T, U, P, O, N, M

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
 - 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) V, K, R, S, T, U, P, O, N, M.

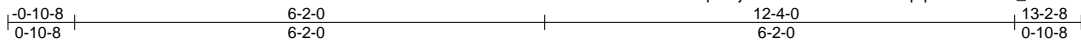


April 1, 2019

Job 19-055962T	Truss E1	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL T16665700
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:06 2019 Page 1
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-Uwx2BMuqTp2kmNGfSP_m4OYiCr9u13zvqcrkpzV5QB



5x6 =

Scale = 1:30.2

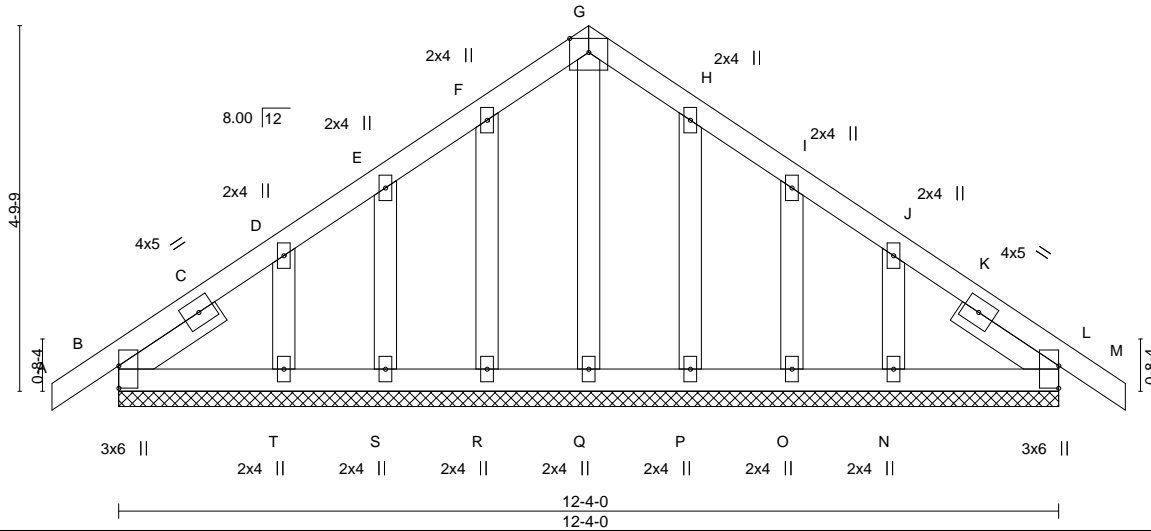


Plate Offsets (X,Y)-- [B:Edge,0-0-0], [L:Edge,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.04	Vert(LL) -0.00	L	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	L	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	L	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.00	L	n/r	90		
							Weight: 77 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
SLIDER Left 2x4 SP No.3 1-6-8, Right 2x4 SP No.3 1-6-8

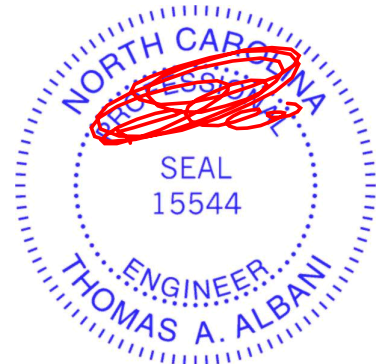
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-4-0.
(lb) - Max Horz B=91(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) B, R, S, T, P, O, N
Max Grav All reactions 250 lb or less at joint(s) B, L, Q, R, S, T, P, O, N

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; 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.
- 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) B, R, S, T, P, O, N.



April 1, 2019

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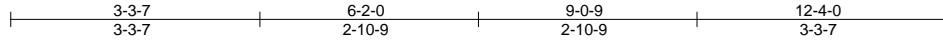


818 Soundside Road
Edenton, NC 27932

Job 19-055962T	Truss EG1	Truss Type Roof Special Girder	Qty 1	Ply 2	ON TOP BUILDERS/03 FLOWERS HILL	T16665701
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:08 2019 Page 1
 ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-QI2pc1w5?QIS0hQ1aq1EApd?belbVtiCHB5yoizV5Q9



Scale = 1:30.4

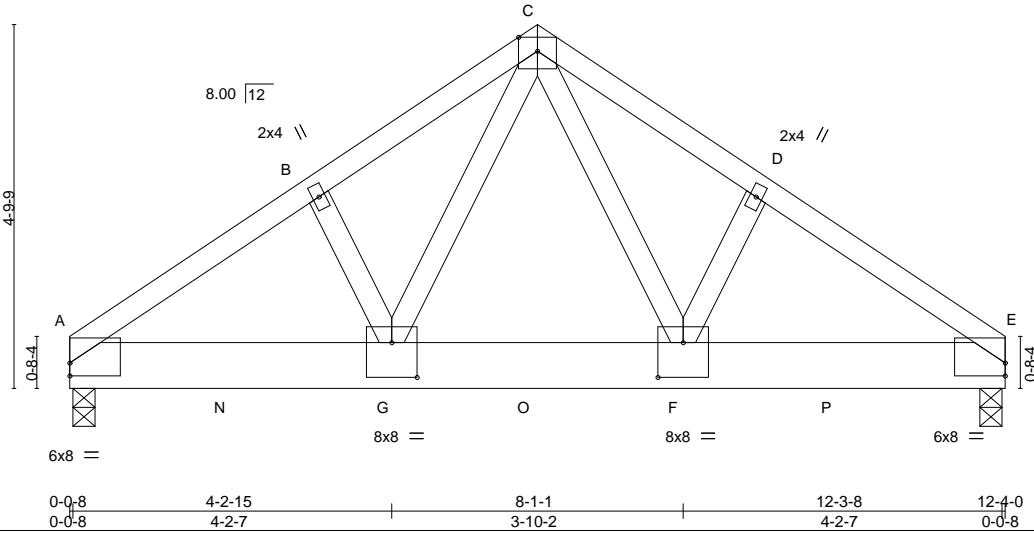


Plate Offsets (X,Y)--	[A:0-0-0,0-2-1], [E:0-0-0,0-2-1], [F:0-4-0,0-5-8], [G:0-4-0,0-5-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.17	Vert(LL)	-0.04	F-G >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.08	F-G >999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.39	Horz(CT)	0.01	E n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 160 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 5-8-5 oc purlins.
BOT CHORD 2x8 SP 2250F 1.9E or 2x8 SP DSS or 2x8 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) A=3959/0-3-8, E=5194/0-3-8
 Max Horz A=-80(LC 23)
 Max Uplift A=-155(LC 8), E=-204(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-5366/225, B-C=-5275/260, C-D=-5395/265, D-E=-5483/230
 BOT CHORD A-G=-198/4405, F-G=-102/3170, E-F=-157/4510
 WEBS C-F=-164/3214, C-G=-154/2973

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=155, E=204.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1360 lb down and 66 lb up at 2-1-4, 1360 lb down and 66 lb up at 4-1-4, 1360 lb down and 66 lb up at 6-1-4, 1360 lb down and 66 lb up at 8-1-4, and 1360 lb down and 66 lb up at 10-1-4, and 1366 lb down and 59 lb up at 11-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: A-C=-60, C-E=-60, H-K=-20



April 1, 2019

Continued on page 2

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Job 19-055962T	Truss EG1	Truss Type Roof Special Girder	Qty 1	Ply 2	ON TOP BUILDERS/03 FLOWERS HILL T16665701 Job Reference (optional)
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:08 2019 Page 2
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-QI2pc1w5?QIS0hQ1aq1EApd?belbVtiCHB5yoizV5Q9

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: F=-1360(B) G=-1360(B) M=-1366(B) N=-1360(B) O=-1360(B) P=-1360(B)

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 19-055962T	Truss F2	Truss Type Roof Special	Qty 6	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665702
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:10 2019 Page 1
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-MhAZ0jxLX2YAF_aQhE3iFEiBISO_zqpVkv3taZV5Q7

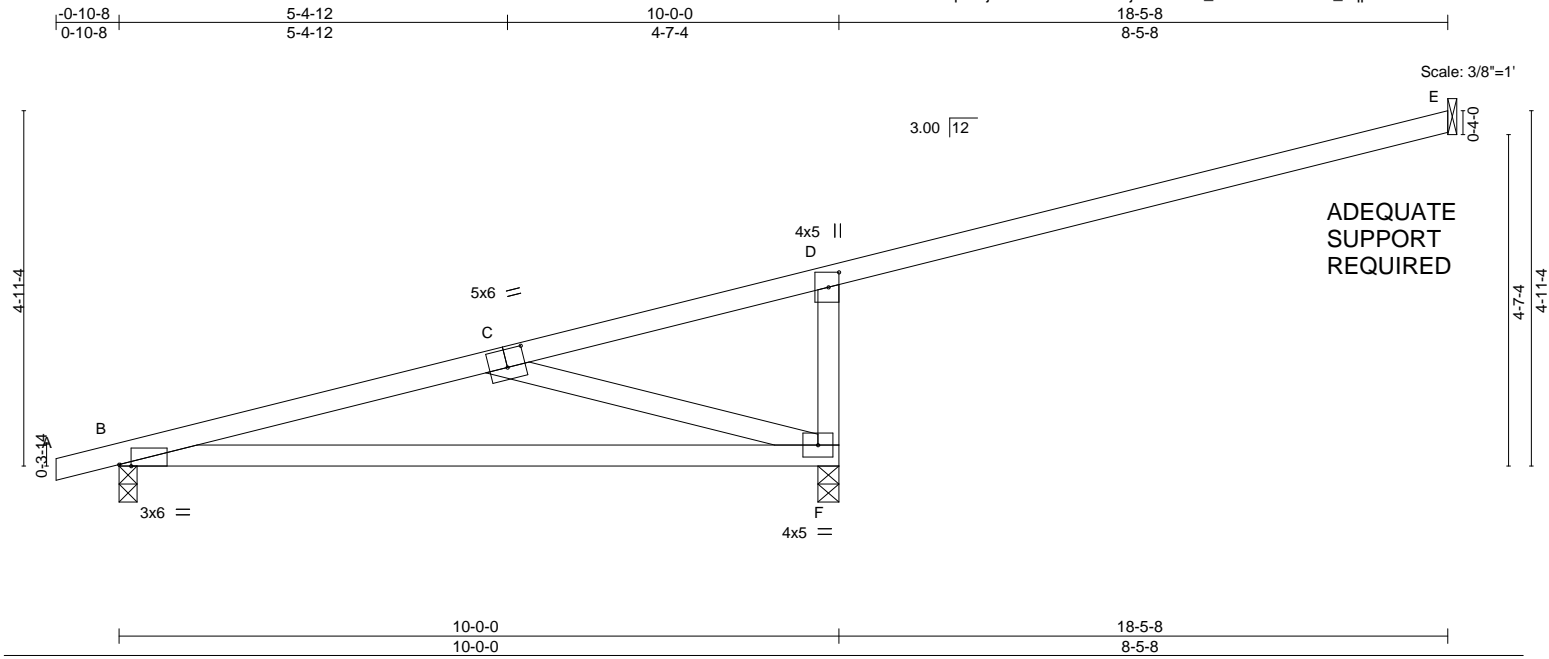


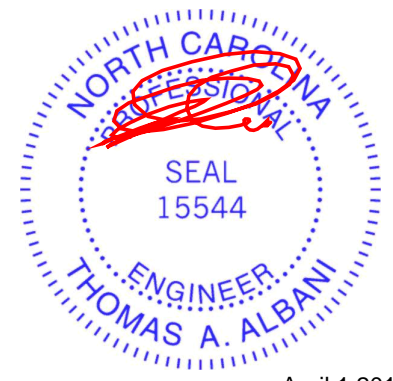
Plate Offsets (X,Y)--	[B:0-2-0,Edge], [C:0-3-0,0-3-0], [D:0-2-8,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.77	Vert(LL) -0.18 F-I >640 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT) -0.40 F-I >297 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.01 F n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 55 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.
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	


REACTIONS. (lb/size) E=203/Mechanical, B=403/0-3-0, F=747/0-3-8
Max Horz B=124(LC 7)
Max Uplift E=-68(LC 6), B=-20(LC 6), F=-155(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-530/2, D-F=-488/253
BOT CHORD B-F=-70/508
WEBS C-F=-572/160

- NOTES-**
- 1) 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, B except (jt=lb) F=155.



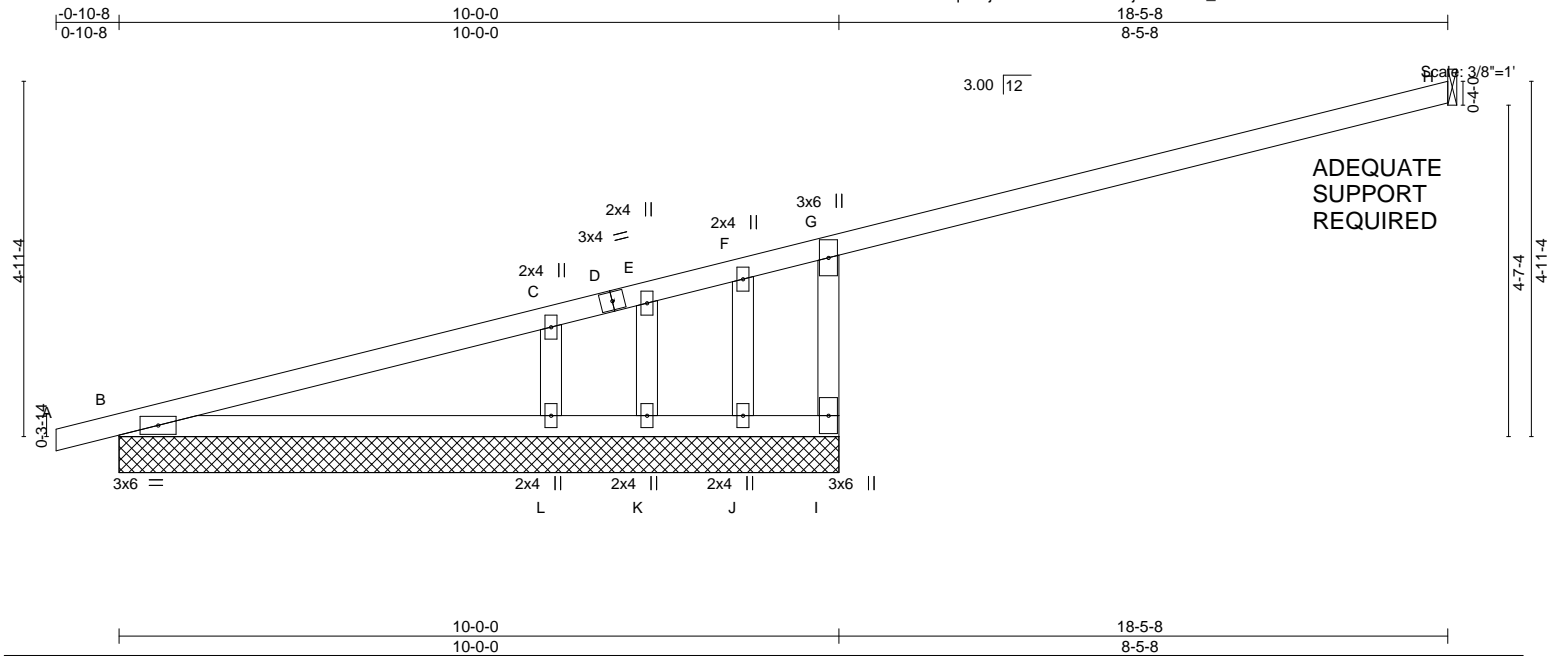
April 1, 2019

<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>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 19-055962T	Truss FG1	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665703
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8,220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:10 2019 Page 1
ID:E6b4hmUIQbiiYq6F0JA?rGzZib7-MhAZ0jxLX2YAF_aQhE3iFEiBGSTzrLVkVa3taZV5Q7



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.21	Vert(LL) -0.03 B-L >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.07 B-L >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 H n/a n/a		
	Code IRC2015/TPI2014			Weight: 55 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
 OTHERS 2x4 SP No.3

BRACING-

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

REACTIONS.

All bearings 10-0-0 except (jt=length) H=Mechanical.
 (lb) - Max Horz B=124(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) H, B, L except I=233(LC 10), J=232(LC 1), K=151(LC 1)
 Max Grav All reactions 250 lb or less at joint(s) H, B, J except I=713(LC 1), L=589(LC 1)

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

TOP CHORD G-I=-730/361
 WEBS F-J=-169/313, C-L=-408/185

NOTES-

- 1) 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, B, L except (jt=lb) I=233, J=232, K=151.



April 1, 2019

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.

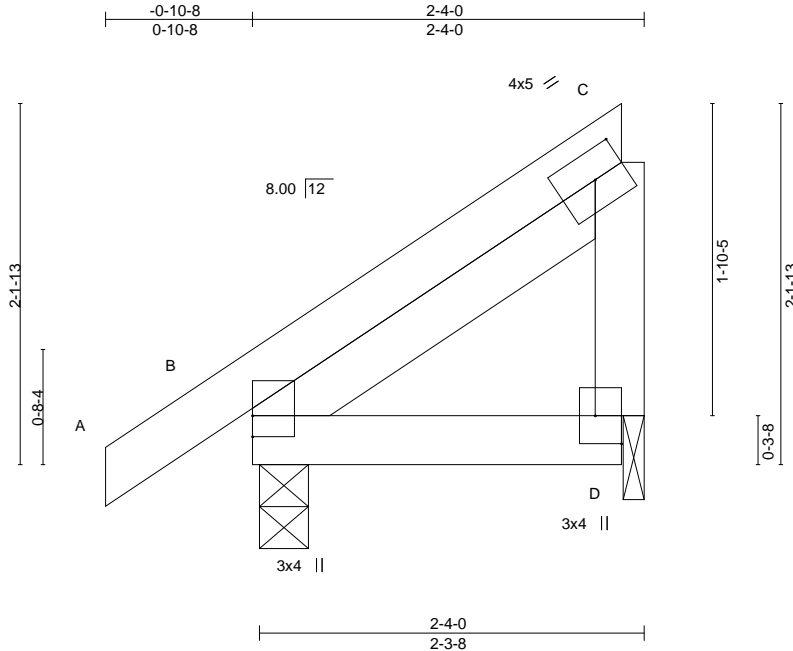


818 Soundside Road
 Edenton, NC 27932

Job 19-055962T	Truss MT1	Truss Type ROOF SPECIAL SUPPORT	Qty 10	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665704
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:12 2019 Page 1
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Scale = 1:13.7

Plate Offsets (X,Y)-- [C:0-2-4,0-2-0], [D:Edge,0-1-14]

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 0.04	Vert(LL)	-0.00	B-D	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	B-D	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	D	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 15 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
SLIDER Left 2x4 SP No.3 2-5-12

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

REACTIONS. (lb/size) B=150/0-3-8, D=73/0-1-8
Max Horz B=55(LC 7)
Max Uplift B=-11(LC 10), D=-15(LC 10)
Max Grav B=150(LC 1), D=81(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D.



April 1, 2019

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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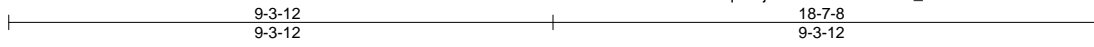


818 Soundside Road
Edenton, NC 27932

Job 19-055962T	Truss VC1	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665705
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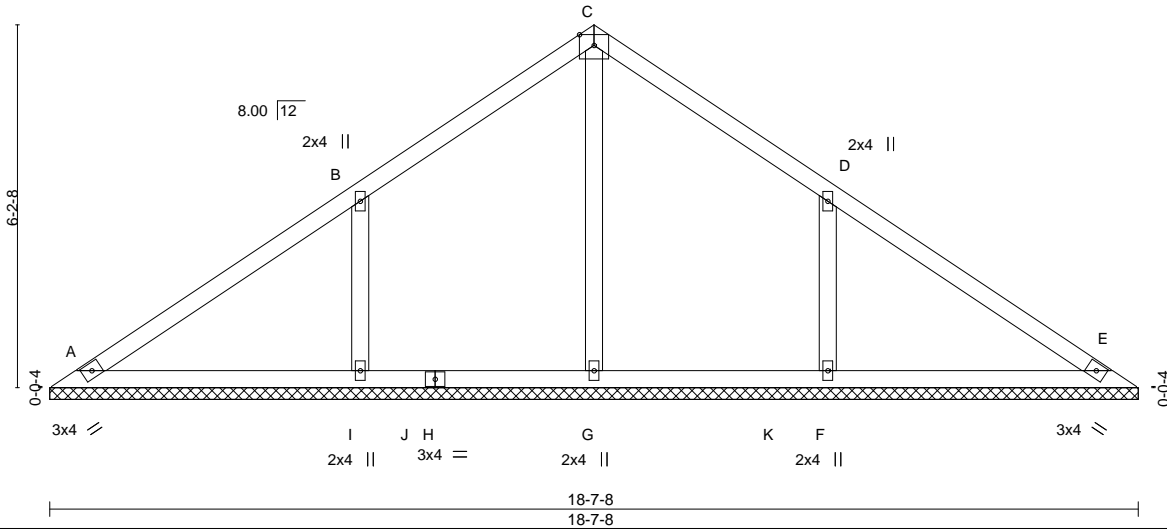
BMC (Middlesex, NC), Middlesex, NC - 27557,

8,220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:14 2019 Page 1
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5x6 =

Scale = 1:39.4



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 0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	E	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 76 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.

All bearings 18-7-8.
 (lb) - Max Horz A=-114(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) except I=-109(LC 10), F=-109(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) A, E except G=337(LC 20), I=470(LC 17), F=470(LC 18)

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

WEBS B-I=-325/163, D-F=-325/163

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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint I and 109 lb uplift at joint F.



April 1, 2019

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.



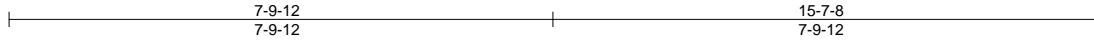
818 Soundside Road
 Edenton, NC 27932

Job 19-055962T	Truss VC2	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL	T16665706
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BMC (Middlesex, NC),

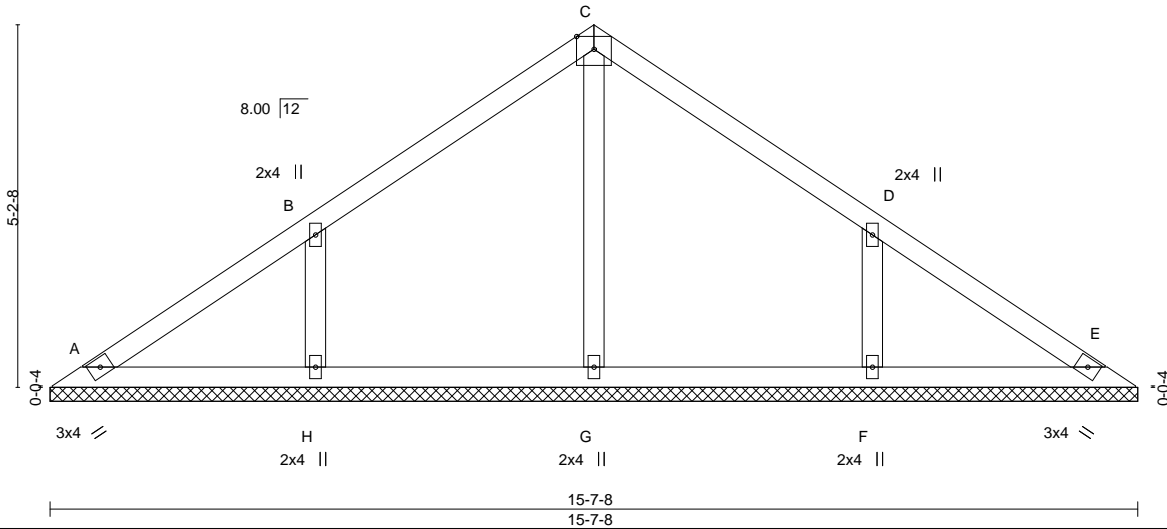
Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:16 2019 Page 1
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5x6 =

Scale = 1:33.1



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 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	E	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 62 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.

All bearings 15-7-8.
 (lb) - Max Horz A=95(LC 9)
 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, G except H=352(LC 17), F=352(LC 18)

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

WEBS B-H=-266/135, D-F=-266/135

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
- 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.



April 1, 2019

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.

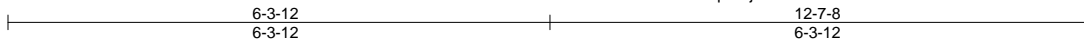


818 Soundside Road
 Edenton, NC 27932

Job 19-055962T	Truss VC3	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665707
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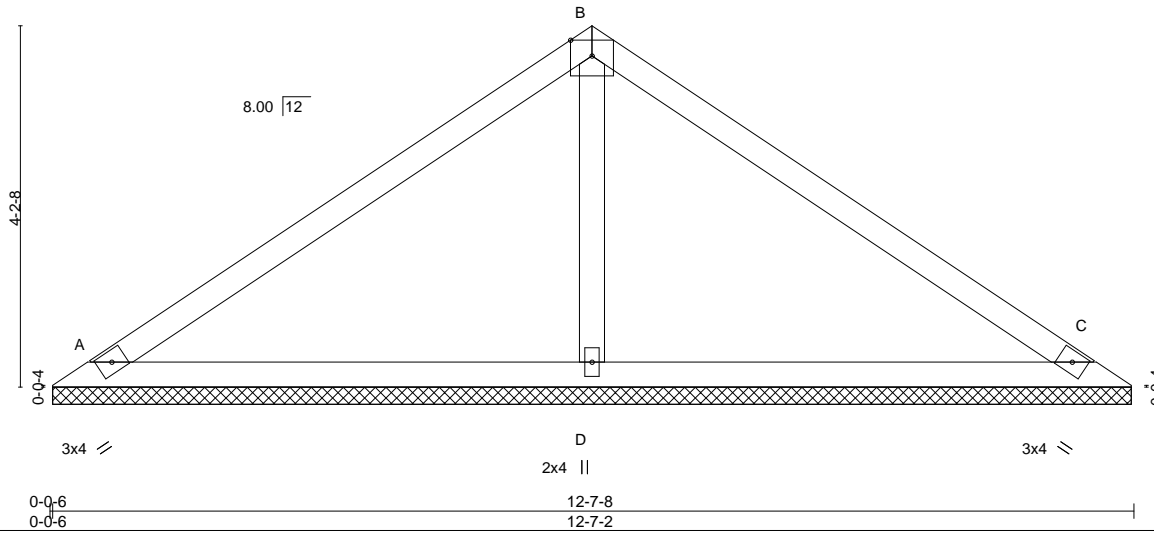
BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:17 2019 Page 1
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5x6 =

Scale = 1:26.8



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	2-0-0	TC 0.37	Vert(LL) n/a	-	n/a	999		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.25	Vert(CT) n/a	-	n/a	999			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.10	Horz(CT) 0.00	C	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 45 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) A=232/12-6-12, C=232/12-6-12, D=470/12-6-12
 Max Horz A=-75(LC 6)
 Max Uplift A=-20(LC 10), C=-30(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS B-D=-297/66

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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.



April 1, 2019

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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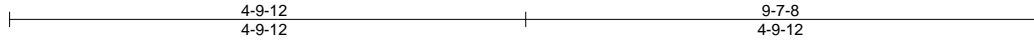


818 Soundside Road
 Edenton, NC 27932

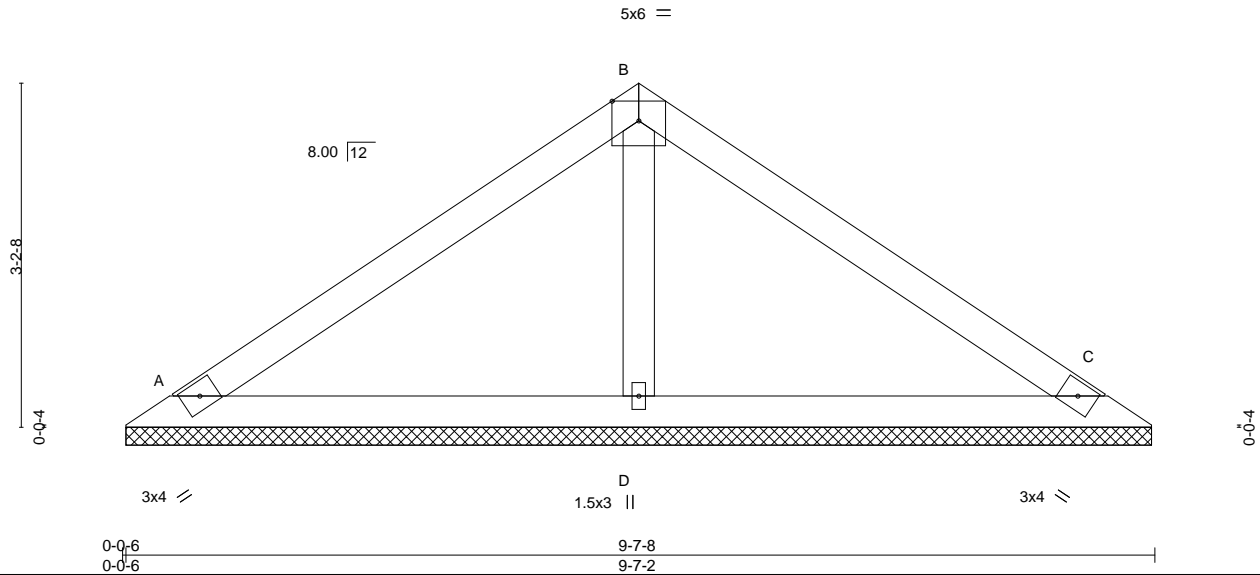
Job 19-055962T	Truss VC4	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665708
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:19 2019 Page 1
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-bQDzvo2_PpguqNm8jdjp67atU4Z8aymqpPG2hZzV5Q_



Scale = 1:21.5



LOADING (psf)	SPACING-	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	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	C	n/a	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.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) A=172/9-6-12, C=172/9-6-12, D=349/9-6-12
 Max Horz A=-56(LC 6)
 Max Uplift A=-15(LC 10), C=-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; 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
- 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.



April 1, 2019

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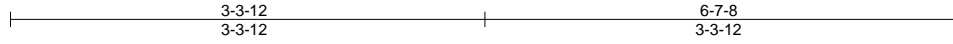


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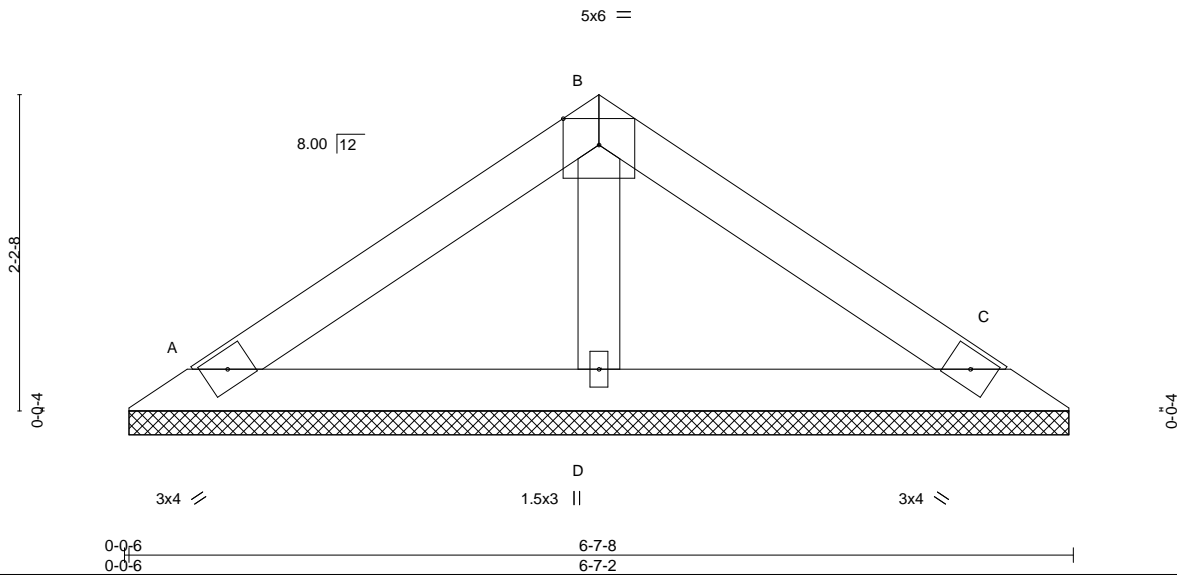
Job 19-055962T	Truss VC5	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665709
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:20 2019 Page 1
ID:E6b4hmUIQbiiYq6F0JA?rGzZib7-3cnL783cA6olSxLLHLE2fL74ZUxbJOOz23?bC?zV5Pz



Scale: 3/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 22 lb	FT = 20%
	Code IRC2015/TPI2014							

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-

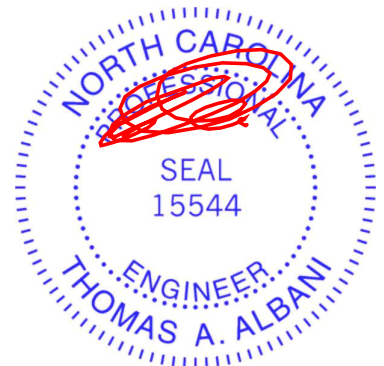
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=123/6-6-12, C=123/6-6-12, D=207/6-6-12
 Max Horz A=37(LC 9)
 Max Uplift A=-14(LC 10), C=-19(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; 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
- 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.



April 1, 2019

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.

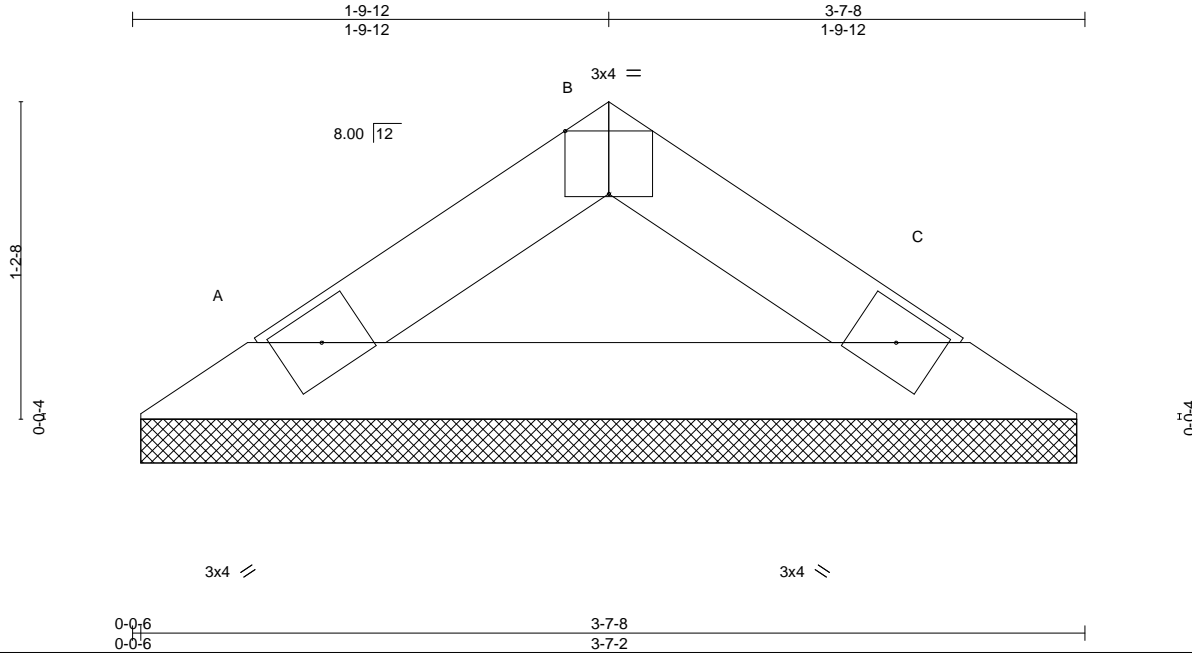


818 Soundside Road
 Edenton, NC 27932

Job 19-055962T	Truss VC6	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665710
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:21 2019 Page 1
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Scale = 1:8.8

Plate Offsets (X,Y)--		[B:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.00	TC 0.02
TCDL 10.0	Lumber DOL	1.15	BC 0.06
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
DEFL.	in	(loc)	l/defl
Vert(LL)	n/a	-	n/a
Vert(CT)	n/a	-	n/a
Horz(CT)	0.00	C	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 10 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 3-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) A=106/3-6-12, C=106/3-6-12
Max Horz A=-17(LC 6)
Max Uplift A=-2(LC 10), C=-2(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.



April 1, 2019

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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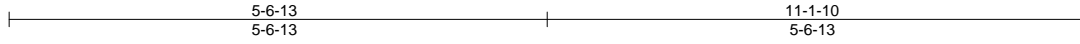
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 19-055962T	Truss VD1	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665711
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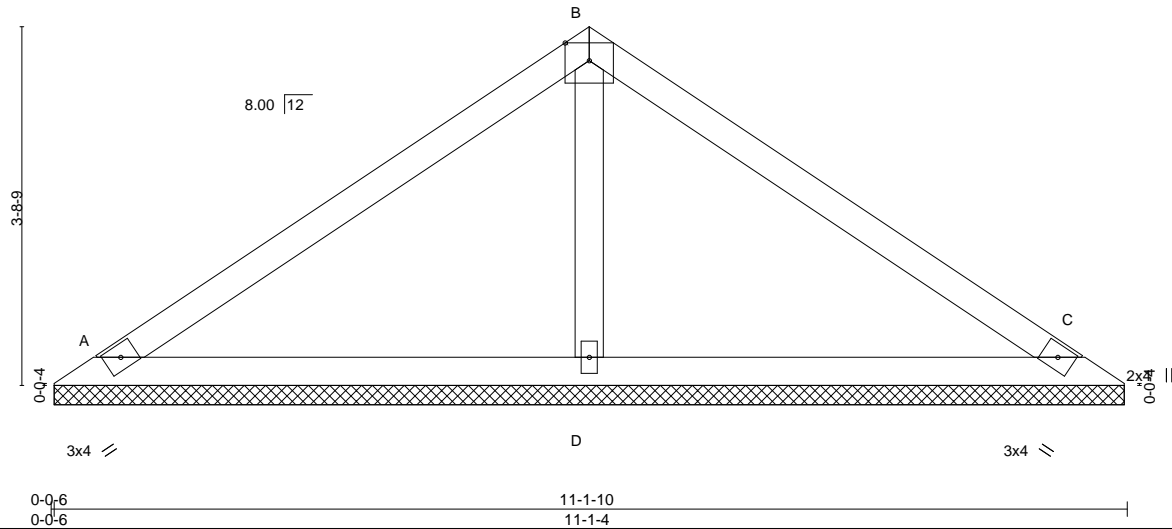
BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:22 2019 Page 1
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5x6 =

Scale: 1/2"=1'



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00		TC 0.27	Vert(LL) n/a	-	n/a	999		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.19	Vert(CT) n/a	-	n/a	999			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.07	Horz(CT) 0.00	C	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 39 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) A=202/11-0-14, C=202/11-0-14, D=410/11-0-14
Max Horz A=66(LC 7)
Max Uplift A=-17(LC 10), C=-26(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-D=-259/60

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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.



April 1, 2019

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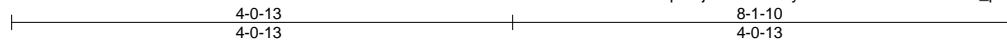
818 Soundside Road
Edenton, NC 27932

Job 19-055962T	Truss VD2	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665712
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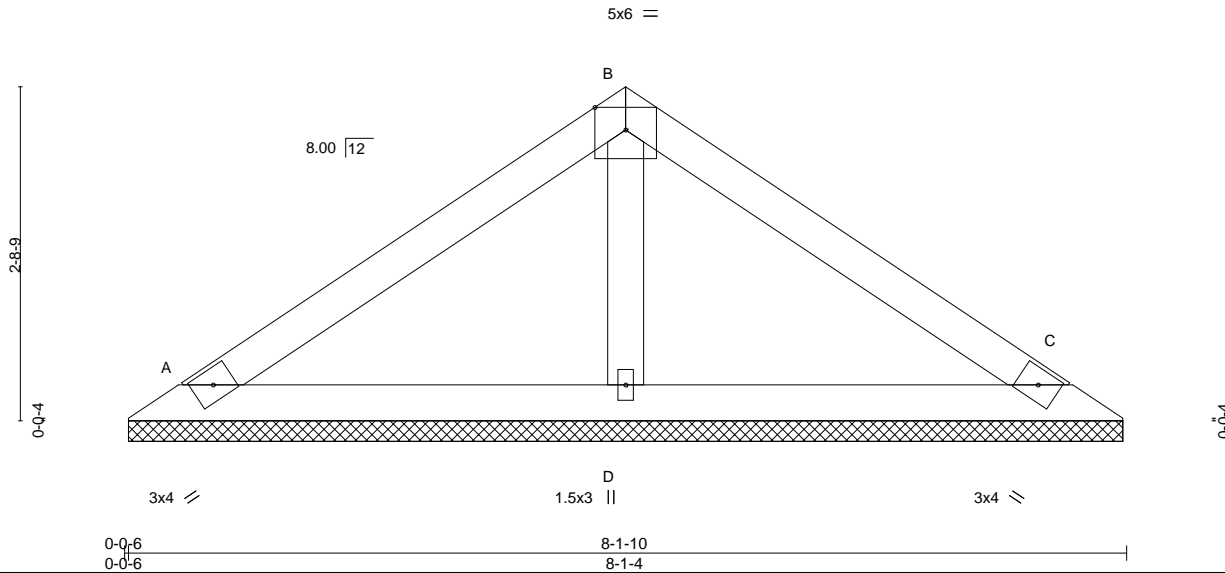
BMC (Middlesex, NC),

Middlesex, NC - 27557,

8,220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:24 2019 Page 1
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Scale = 1:18.7



LOADING (psf)	SPACING-	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	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00	C	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 28 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) A=156/8-0-14, C=156/8-0-14, D=262/8-0-14
 Max Horz A=-46(LC 6)
 Max Uplift A=-18(LC 10), C=-24(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; 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
- 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.



April 1, 2019

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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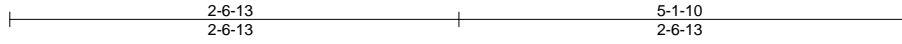


818 Soundside Road
 Edenton, NC 27932

Job 19-055962T	Truss VD3	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665713
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:25 2019 Page 1
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3x4 =

Scale = 1:13.2

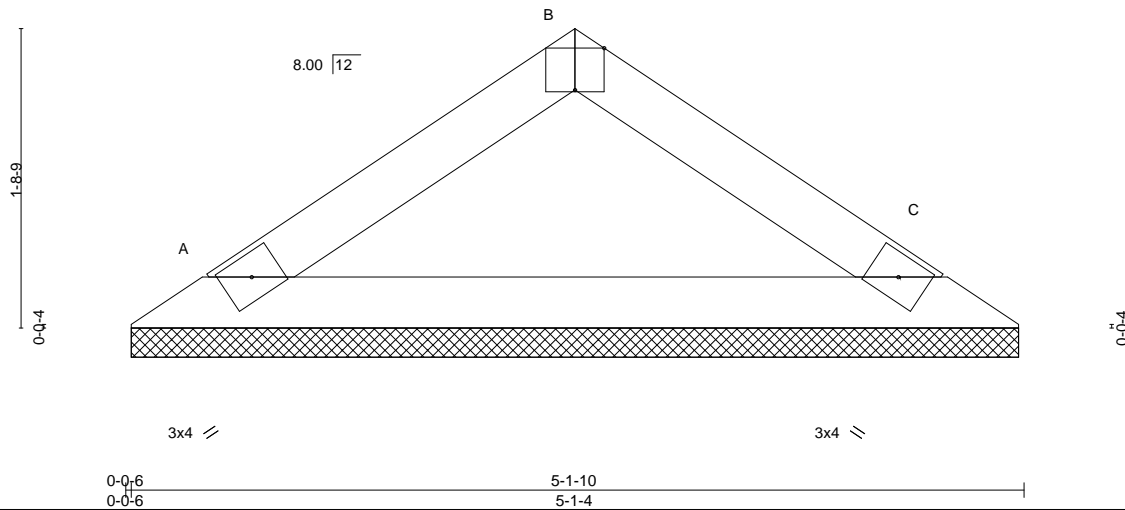


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING-	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 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 15 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-

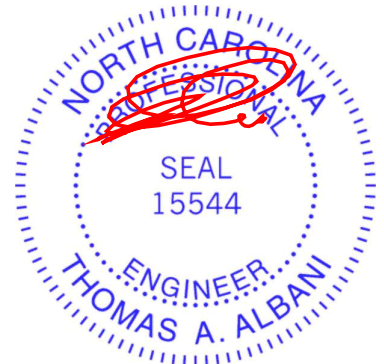
TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=167/5-0-14, C=167/5-0-14
Max Horz A=27(LC 9)
Max Uplift A=-3(LC 10), C=-3(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.



April 1, 2019

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.



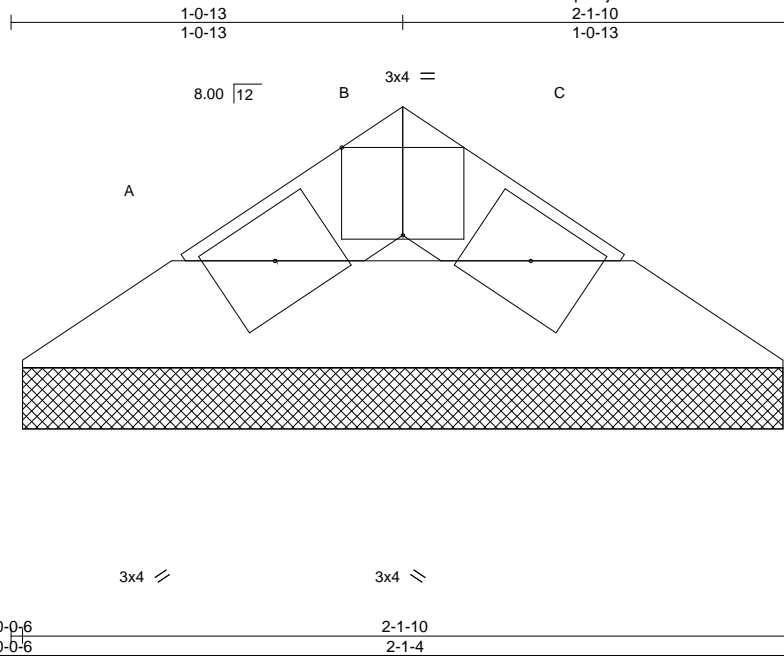
818 Soundside Road
Edenton, NC 27932

Job 19-055962T	Truss VD4	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665714
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BMC (Middlesex, NC),

Middlesex, NC - 27557,

8,220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:26 2019 Page 1
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-um8cNB8NmyZuASoVdclSucN6gv_lj6JsQ?SvQzV5Pt



Scale = 1:6.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.00	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 5 lb	FT = 20%
	Code IRC2015/TPI2014							

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 2-1-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) A=47/2-0-14, C=47/2-0-14
Max Horz A=-8(LC 8)
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.



April 1, 2019

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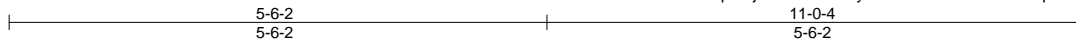


818 Soundside Road
Edenton, NC 27932

Job 19-055962T	Truss VE1	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665715
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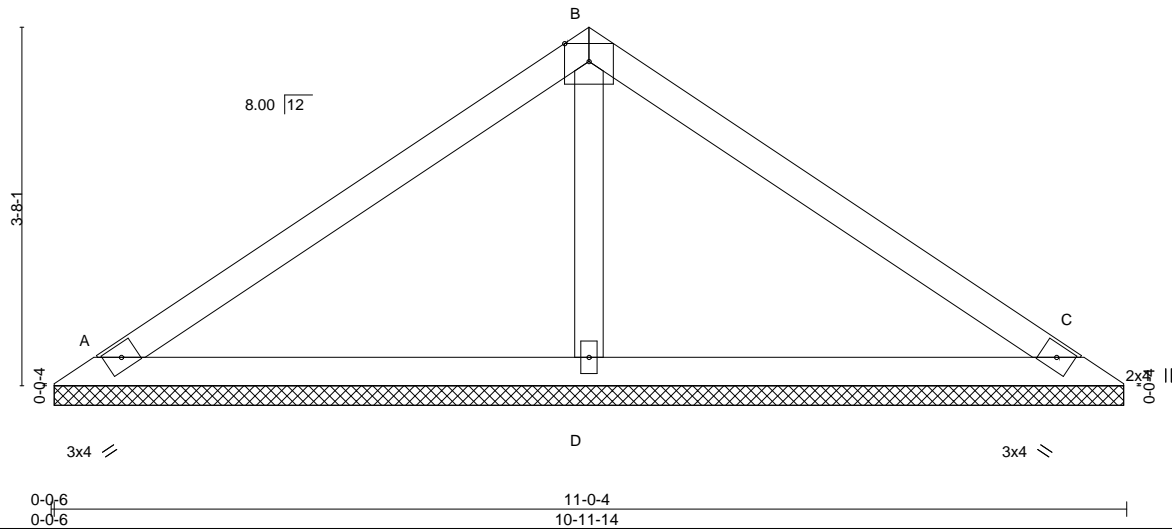
BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:27 2019 Page 1
ID:E6b4hmUIQbiiYq6F0JA?rGzZib7-Myi?bX9?XGhlocNhBjshRpwDJJHGSYT?ffCTy5zV5Ps



5x6 =

Scale = 1:23.6



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)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 39 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) A=200/10-11-8, C=200/10-11-8, D=405/10-11-8
 Max Horz A=65(LC 7)
 Max Uplift A=-17(LC 10), C=-26(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS B-D=-256/59

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
- 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.



April 1, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

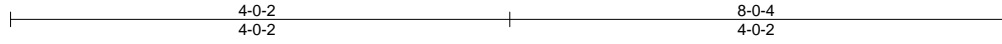


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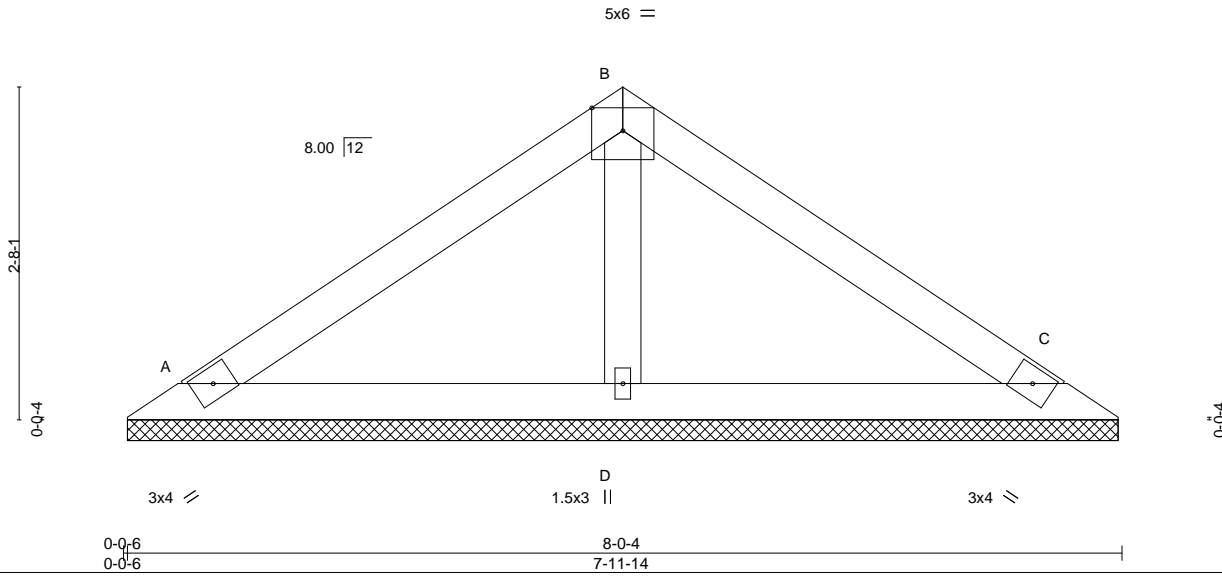
Job 19-055962T	Truss VE2	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665716
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8,220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:28 2019 Page 1
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Scale = 1:18.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.09	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a n/a	Weight: 28 lb	FT = 20%
	Code IRC2015/TPI2014				

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) A=153/7-11-8, C=153/7-11-8, D=258/7-11-8
 Max Horz A=46(LC 9)
 Max Uplift A=-18(LC 10), C=-24(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; TC DL=6.0psf; BC DL=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.



April 1, 2019

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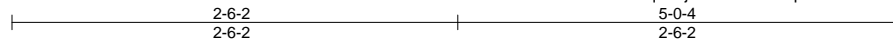


818 Soundside Road
 Edenton, NC 27932

Job 19-055962T	Truss VE3	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665717
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:29 2019 Page 1
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3x4 =

Scale = 1:13.0

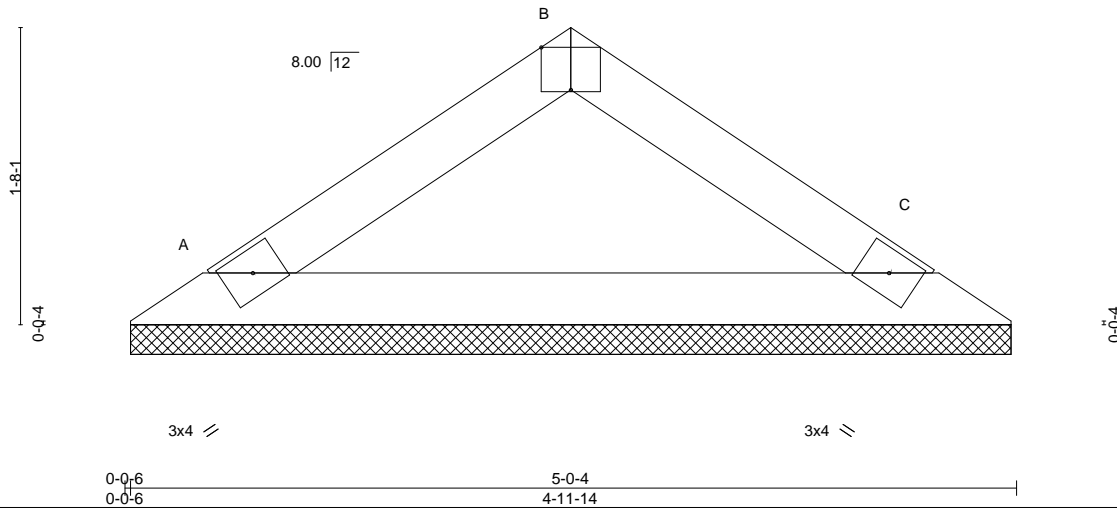


Plate Offsets (X,Y)--		[B:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.00	TC 0.05
TCDL 10.0	Lumber DOL	1.15	BC 0.15
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 C n/a n/a
			PLATES
			MT20
			GRIP
			244/190
			Weight: 15 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 5-0-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) A=162/4-11-8, C=162/4-11-8
Max Horz A=-26(LC 8)
Max Uplift A=-3(LC 10), C=-3(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.



April 1, 2019

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ENGINEERING BY
TRENCO
A MiTek Affiliate

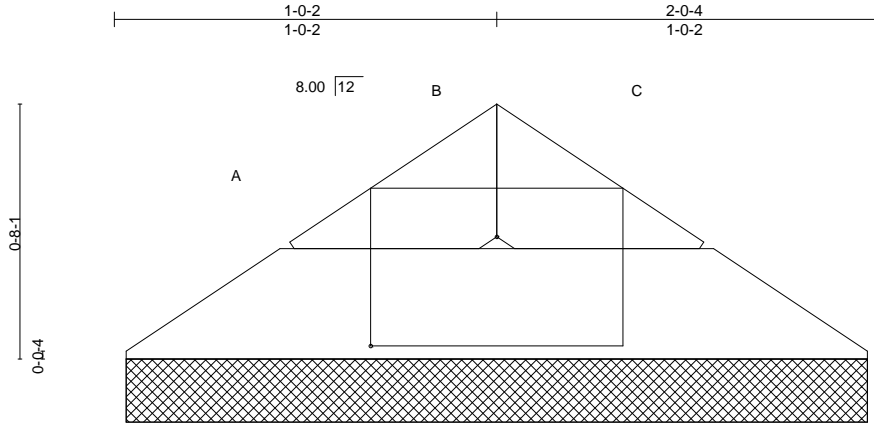
818 Soundside Road
Edenton, NC 27932

Job 19-055962T	Truss VE4	Truss Type Valley	Qty 1	Ply 1	ON TOP BUILDERS/03 FLOWERS HILL Job Reference (optional)	T16665718
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BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 1 11:53:30 2019 Page 1
ID:E6b4hmUIQbiiYq6F0jA?rGzZib7-nXN7DZBupB3Kf36GsRQO3SYofWLjwJRLdR7ZQzV5Pp



Scale = 1:6.1

Plate Offsets (X,Y)--	[A:0-2-15,0-0-0], [A:0-4-0,0-3-7], [B:0-0-0,0-2-2], [C:0-2-15,0-0-0]				
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 0.00	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 C n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 5 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 2-0-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) A=42/1-11-8, C=42/1-11-8
Max Horz A=-7(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.



April 1, 2019

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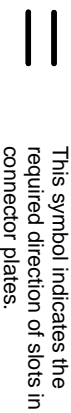
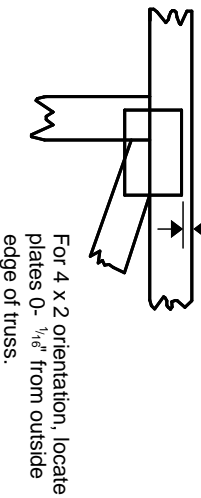
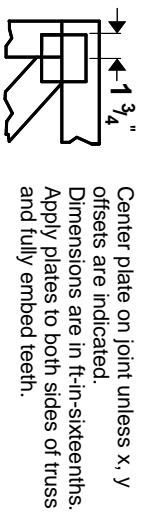
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

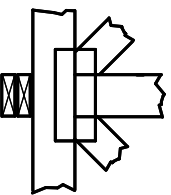
4 X 4

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

LATERAL BRACING LOCATION



BEARING

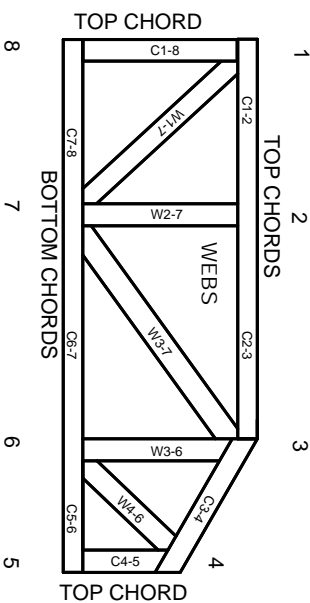


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.