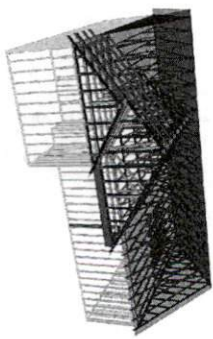


NOTE: TRUSS DESIGNS MAY NOT BE SYMMETRICAL. IT IS THE RESPONSIBILITY OF THE PERSONS ERECTING THE TRUSSES TO ASSURE PROPER TRUSS ORIENTATION, THINGS TO LOOK FOR INCLUDE: WELD HEIGHTS, CONFIGURATIONS, ECT.

SUGGESTED HANGERS FOR TRUSS UPLIFT

- (A) 0-535 LBS (1) H2.5A
- (B) 0-860 LBS (1) MTS12
- (C) 0-1070 LBS (2) H2.5A
- (D) 0-1720 LBS (2) MTS12
- (E) 0-2490 LBS (2) HTS20
- (F) 0-3375 LBS (2) PHD2-SDSS3



FIELD BRACING is not the responsibility of the truss fabricator, truss designer, or plate manufacturer. Persons erecting trusses are cautioned to seek professional advice regarding temporary and erection bracing which is always required to prevent toppling and dominoing during erection, and permanent bracing which may be required in specific applications. Trusses shall be erected and fastened in a straight and plumb position. Where no direct chord sheathing is applied, trusses must be braced at 24" on center maximum. Where no direct bottom chord sheathing is applied trusses must be braced at 10'-0" on center maximum. Trusses must be handled with extreme care during erection to prevent damage or personal injury. Refer to truss engineering for connection and bracing requirements. These calculations are supplied in order for the ENGINEER OF RECORD to adequately provide for connection and integration of the roof assembly to the supporting structure. Designers of supporting connections are SOLELY responsible for the integrity of their product. Trusses remain our property until paid in full. Truss layouts and engineering may not be reproduced in part or in full under any circumstances.



BMC
 8401 Planer Mill Rd.
 Middlesex, NC 27557
 Office: 252.235.4530 | Fax: 252.235.2619
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IRC 2018 - 120 MPH WIND SPEED	CUSTOMER : MCNEIL MASONRY AND CONSTRUCTION	DESIGNER : JPS
TCLL : 20 ROOF	LOT :	DATE : 4/17/2019
TCOL : 10	SUBDIV :	FILE : 19-044285T
BCLL : 0	MODEL : THE WILLIAM	SPACING : 24" O.C.
BCDL : 10		

Job 19-044285T	Truss B01	Truss Type Common	Qty 8	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

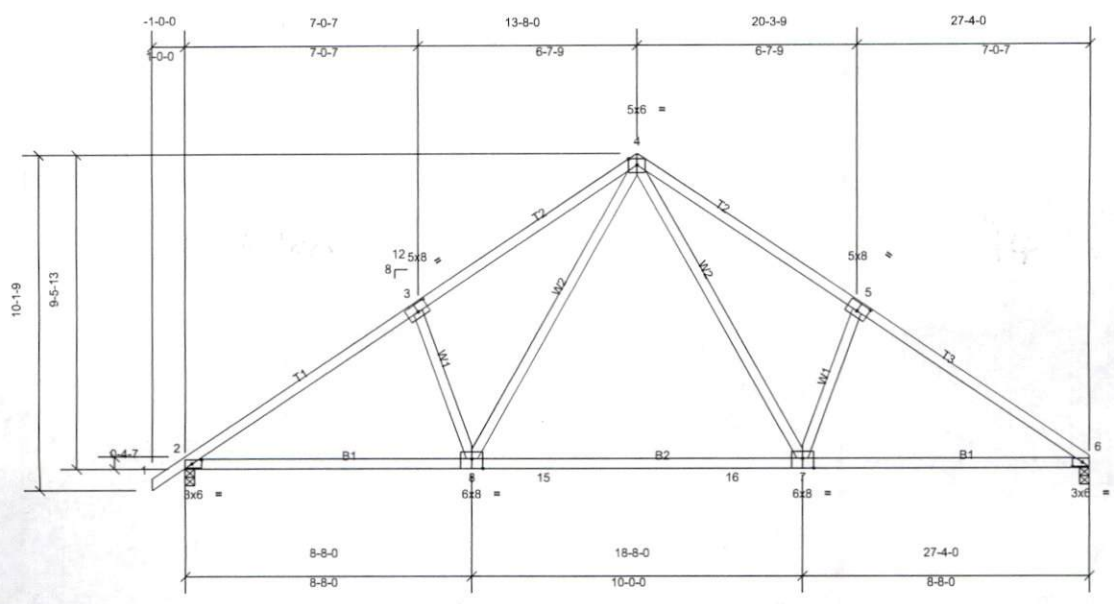


Plate Offsets (X, Y): [2:0-3-9,0-1-8], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-3-9,0-1-8], [7:0-4-0,Edge], [8:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.38	7-8	>859	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.55	7-8	>592	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS								
											Weight: 136 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-2 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 *Except* W1:2x4 SP No.3	

REACTIONS (lb/size) 2=1154/0-3-8, (min. 0-1-9), 6=1092/0-3-8, (min. 0-1-8)
 Max Horiz 2=201 (LC 7)
 Max Uplift 2=-68 (LC 10), 6=-51 (LC 11)
 Max Grav 2=1304 (LC 17), 6=1247 (LC 18)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1787/92, 3-4=-1722/191, 4-5=-1727/193, 5-6=-1791/95
BOT CHORD	2-8=-114/1568, 8-15=0/984, 15-16=0/984, 7-16=0/984, 6-7=0/1432
WEBS	4-7=-123/924, 5-7=-422/229, 4-8=-120/918, 3-8=-420/227

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 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 68 lb uplift at joint 2 and 51 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

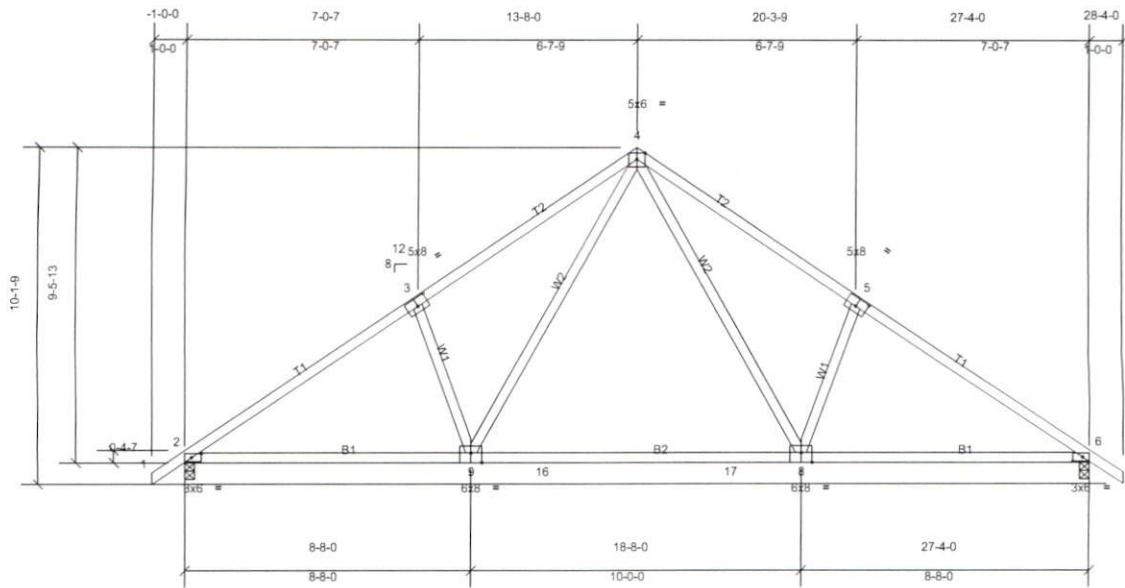
Job 19-044285T	Truss B02	Truss Type Common	Qty 3	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MiTek Industries, Inc. Wed Apr 17 16:55:57

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ID:ukzCNGzBHdbdYkEXDnlWqzPmVV-ZMCZ2twsl2215i1P16MP4MzL9JBHQPpVXwUizPmMW



Scale = 1:67.2

Plate Offsets (X, Y): [2:0-3-9,0-1-8], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-3-9,0-1-8], [8:0-4-0,Edge], [9:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.38	8-9	>859	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.55	8-9	>591	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS								Weight: 138 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2 *Except* W1:2x4 SP No.3

REACTIONS (lb/size) 2=1153/0-3-8, (min. 0-1-9), 6=1153/0-3-8, (min. 0-1-9)
 Max Horiz 2=206 (LC 9)
 Max Uplift 2=-68 (LC 10), 6=-68 (LC 11)
 Max Grav 2=1303 (LC 17), 6=1303 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1786/92, 3-4=-1721/190, 4-5=-1721/191, 5-6=-1786/92
 BOT CHORD 2-9=-104/1574, 9-16=0/990, 16-17=0/990, 8-17=0/990, 6-8=0/1435
 WEBS 4-8=-121/918, 5-8=-420/227, 4-9=-121/918, 3-9=-419/227

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 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 68 lb uplift at joint 2 and 68 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 3-8-13 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

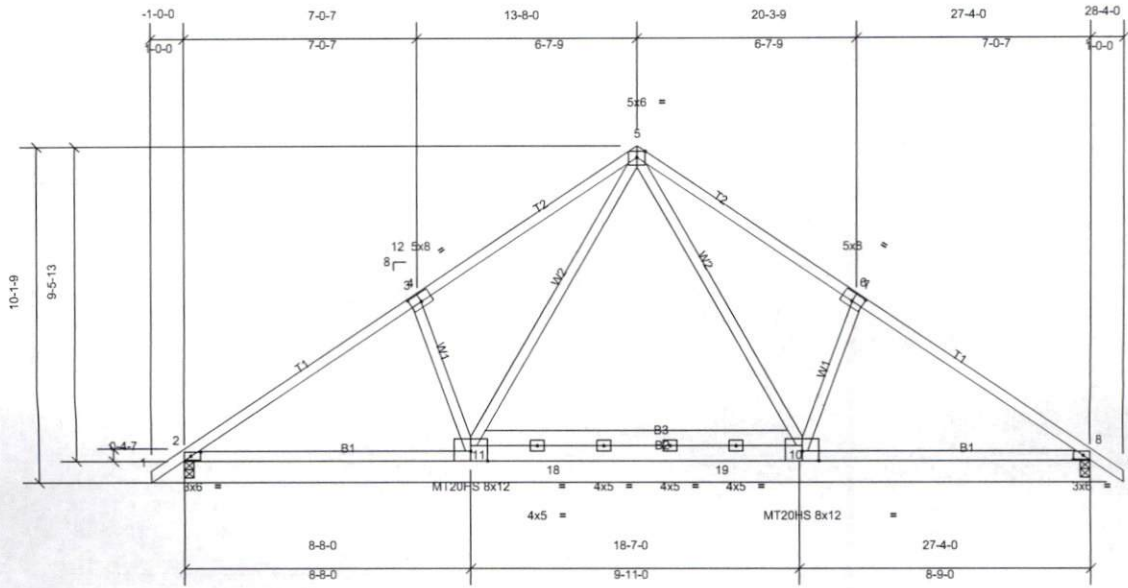
Job 19-044285T	Truss B03	Truss Type Common	Qty 5	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

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ID:e6EpVVQvQITnB3Sjw?VQqzPmXV-ZMC22tws122151P16MP4Mz_L60BHXppVXwUizPmMW



Scale = 1:67.2

Plate Offsets (X, Y): [2:0-3-9,0-1-8], [4:0-4-0,0-3-0], [6:0-4-0,0-3-0], [8:0-3-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.14	11-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.30	11-14	>999	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS								
										Weight: 169 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except* B2,B3:2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* W1:2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 3-6-8 oc purlins.
 Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 2=1153/0-3-8, (min. 0-1-9), 8=1153/0-3-8, (min. 0-1-9)
 Max Horiz 2=206 (LC 9)
 Max Uplift 2=-68 (LC 10), 8=-68 (LC 11)
 Max Grav 2=1299 (LC 17), 8=1299 (LC 18)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1860/105, 3-4=-1771/145, 4-5=-1768/189, 5-6=-1758/180, 6-7=-1761/136, 7-8=-1850/96
 BOT CHORD 2-11=-115/1645, 11-18=0/1019, 18-19=0/1019, 10-19=0/1019, 8-10=0/1498
 WEBS 5-10=-115/944, 7-10=-419/223, 5-11=-120/950, 3-11=-418/223

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 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 68 lb uplift at joint 2 and 68 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

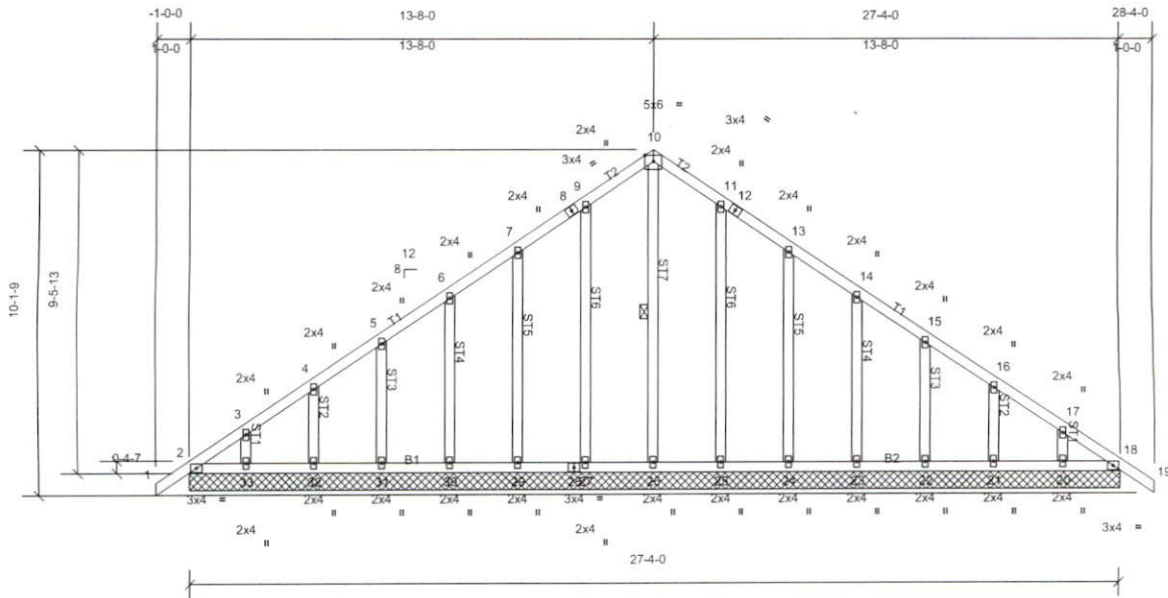
Job 19-044285T	Truss B04	Truss Type Common Supported Gable	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

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Scale = 1:65.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S								
											Weight: 183 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3 *Except* ST7:2x4 SP No.2

BRACING

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 1 Row at midpt 10-26

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

REACTIONS All bearings 27-4-0.

(lb) - Max Horiz 2=-206 (LC 8)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 18, 20, 21, 22, 23, 24, 25, 27, 29, 30, 31, 32, 33
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 18, 20, 21, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

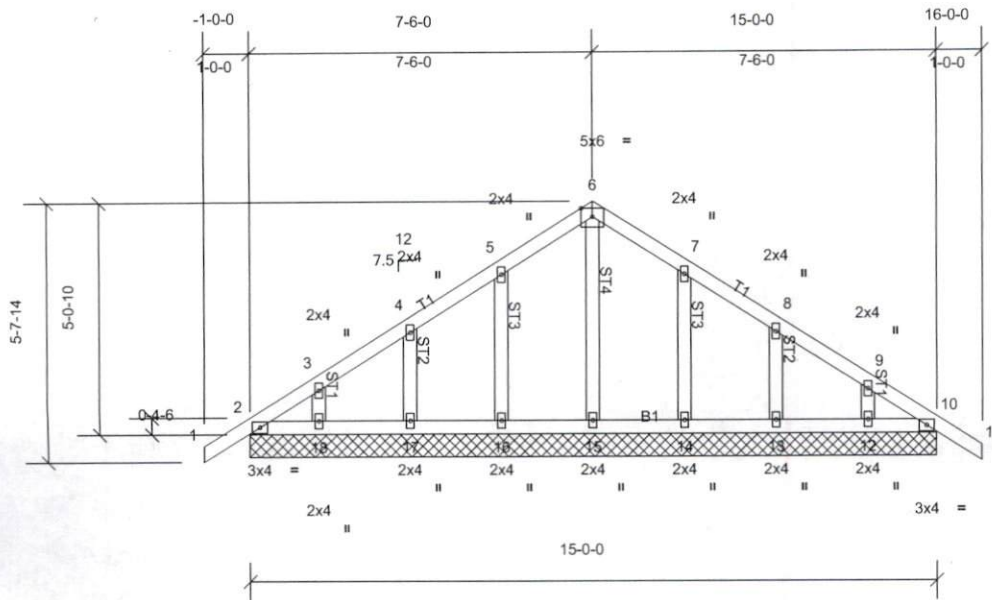
Job 19-044285T	Truss C01	Truss Type Common Supported Gable	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

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Scale = 1:48.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 15-0-0.

(lb) - Max Horiz 2=112 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 12, 13, 14, 16, 17, 18
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 10, 12, 13, 14, 15, 16, 17, 18

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 17, 18, 14, 13, 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

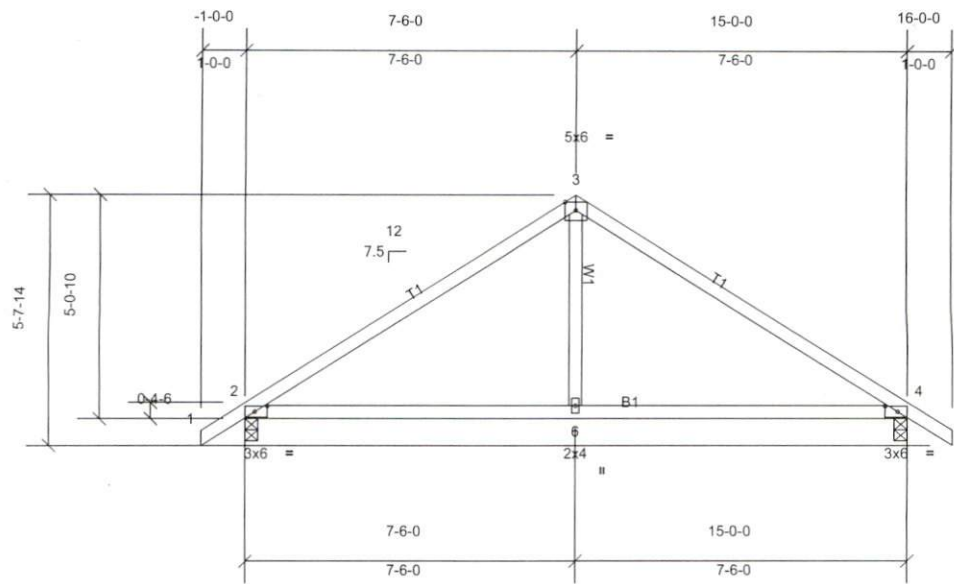
Job 19-044285T	Truss C02	Truss Type Common	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

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Scale = 1:50.3

Plate Offsets (X, Y): [2:0-3-6,0-1-8], [4:0-3-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.10	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.20	6-9	>918	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS						Weight: 59 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

REACTIONS (lb/size) 2=660/0-3-8, (min. 0-1-8), 4=660/0-3-8, (min. 0-1-8)
 Max Horiz 2=-112 (LC 8)
 Max Uplift 2=-46 (LC 10), 4=-46 (LC 11)

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

TOP CHORD 2-3=-759/66, 3-4=-759/66
 BOT CHORD 2-6=-29/553, 4-6=0/553
 WEBS 3-6=0/360

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2 and 46 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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

Job 19-044285T	Truss D01	Truss Type Common Structural Gable	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

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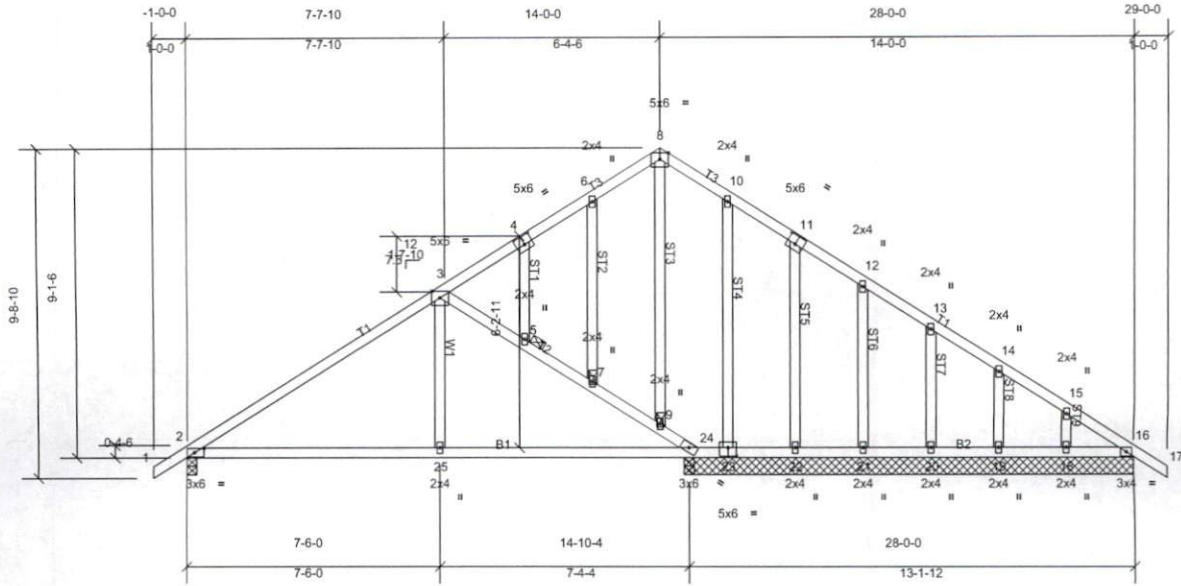


Plate Offsets (X, Y): [2:0-3-6,0-1-8], [3:0-2-14,Edge], [4:0-3-0,0-3-0], [11:0-3-0,0-3-0], [23:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	0.08 25-28	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.17 25-28	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01 29	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS							
										Weight: 176 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD
 JOINTS

Structural wood sheathing directly applied or 5-7-1 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Brace at Jt(s): 9, 7, 5

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

REACTIONS

All bearings 13-3-8, except 2=0-3-8, 24=0-3-8
 (lb) - Max Horiz 2=-198 (LC 8)
 Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 20, 21, 22, 2 except 23=-113 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 16 except 2=669 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-778/52, 3-5=-624/153, 5-7=-645/165, 7-9=-684/190, 9-24=-751/173
 BOT CHORD 2-25=-63/647, 24-25=-63/647
 WEBS 3-25=0/326

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 21, 20, 19, 18, 24 except (it=lb) 23=112.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

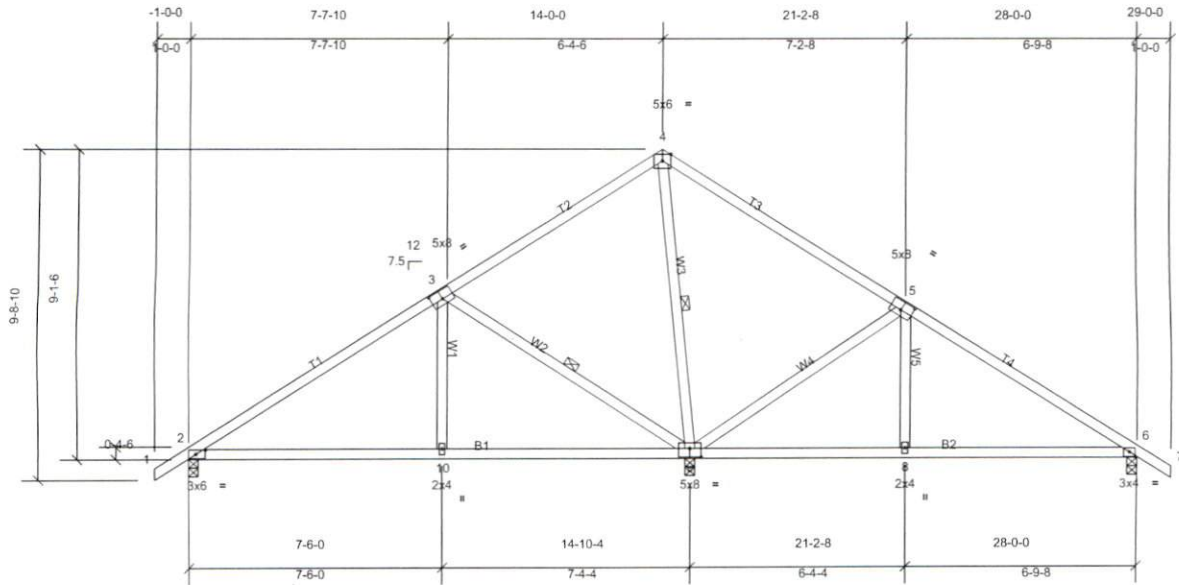
Job 19-044285T	Truss D02	Truss Type Common	Qty 2	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

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Scale = 1:65.6

Plate Offsets (X, Y): [2:0-3-6,0-1-8], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-2-0,0-1-10], [9:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	0.08	10-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.17	10-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS								Weight: 143 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* W2,W3:2x4 SP No.2

REACTIONS (lb/size) 2=529/0-3-8, (min. 0-1-8), 6=445/0-3-8, (min. 0-1-8), 9=1386/0-3-8, (min. 0-1-10)
 Max Horiz 2=198 (LC 9)
 Max Uplift 2=-49 (LC 10), 6=-70 (LC 11), 9=-48 (LC 10)
 Max Grav 2=555 (LC 23), 6=482 (LC 24), 9=1386 (LC 1)

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

TOP CHORD 2-3=-566/51, 3-4=-9/290, 4-5=0/363, 5-6=-442/96
 BOT CHORD 2-10=-76/444, 9-10=-75/447, 8-9=0/322, 6-8=0/325
 WEBS 3-9=-649/171, 4-9=-602/29, 5-9=-612/181, 5-8=0/283, 3-10=0/330

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 2, 48 lb uplift at joint 9 and 70 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 1 Row at midpt 3-9, 4-9

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

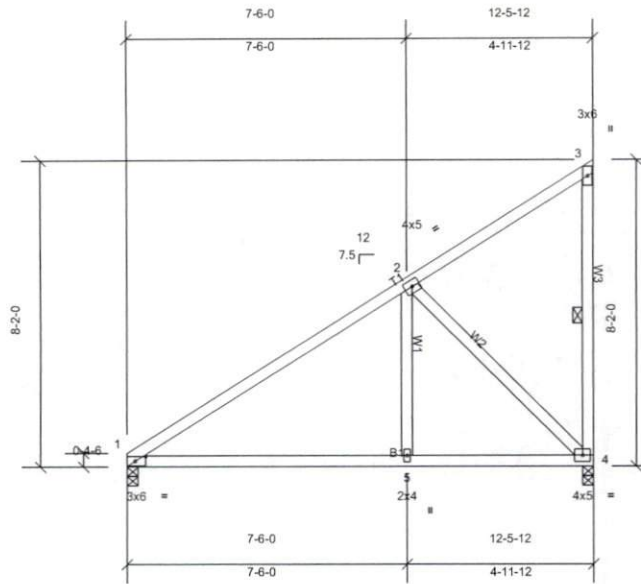
Job 19-044285T	Truss E01	Truss Type Monopitch	Qty 2	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MiTek Industries, Inc. Wed Apr 17 16:55:59

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Scale = 1:59.4

Plate Offsets (X, Y): [1:0-3-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	0.09	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.19	5-8	>779	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS							Weight: 68 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=493/0-3-8, (min. 0-1-8), 4=493/0-3-8, (min. 0-1-8)
 Max Horiz 1=249 (LC 9)
 Max Uplift 1=-14 (LC 10), 4=-96 (LC 10)
 Max Grav 1=493 (LC 1), 4=523 (LC 17)

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

TOP CHORD 1-2=-562/36
 BOT CHORD 1-5=-74/430, 4-5=-63/430
 WEBS 2-5=0/305, 2-4=-568/153

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 96 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt 3-4

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

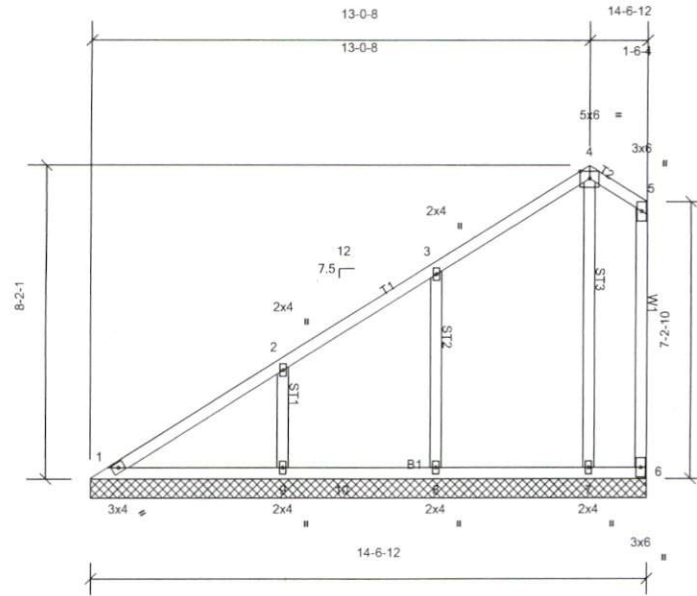
Job 19-044285T	Truss V01	Truss Type Valley	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MITek Industries, Inc. Wed Apr 17 16:55:59

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ID:D8oFMs8Xa7cSz?GZo_yD4zPmRP-VkKKTZy7OvIIgPrQWS8qUVRL68?6fAn6Gp01ZezPmMU



Scale = 1:58

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 79 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS All bearings 14-6-12.

(lb) - Max Horiz 1=243 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 7, 8 except 9=107 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 6 except 7=355 (LC 17), 8=449 (LC 17), 9=485 (LC 17)

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

WEBS 3-8=-254/139, 2-9=-298/156

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7, 8 except (jt=lb) 9=107.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

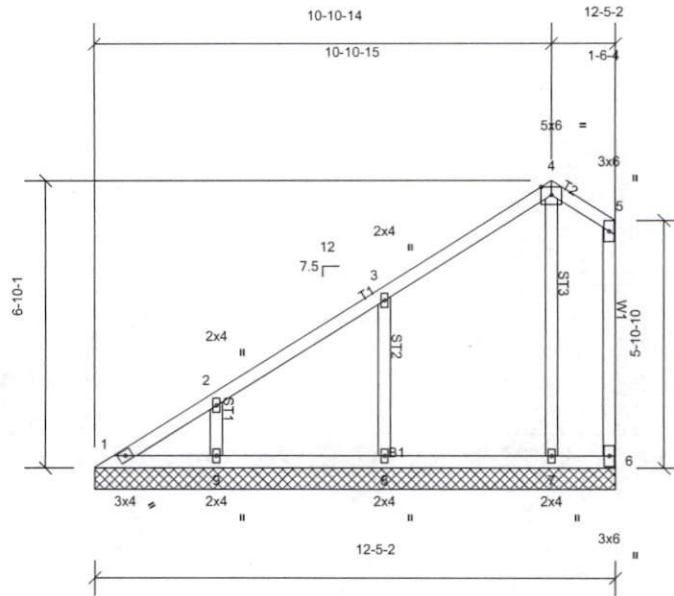
Job 19-044285T	Truss V02	Truss Type Valley	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MiTek Industries, Inc. Wed Apr 17 16:55:59

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Scale = 1:53

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S						Weight: 65 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 12-5-2.

(lb) - Max Horiz 1=200 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 7, 8, 9
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 6 except 7=345 (LC 17), 8=457 (LC 17), 9=337 (LC 17)

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

WEBS 3-8=-276/149

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7, 8, 9.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

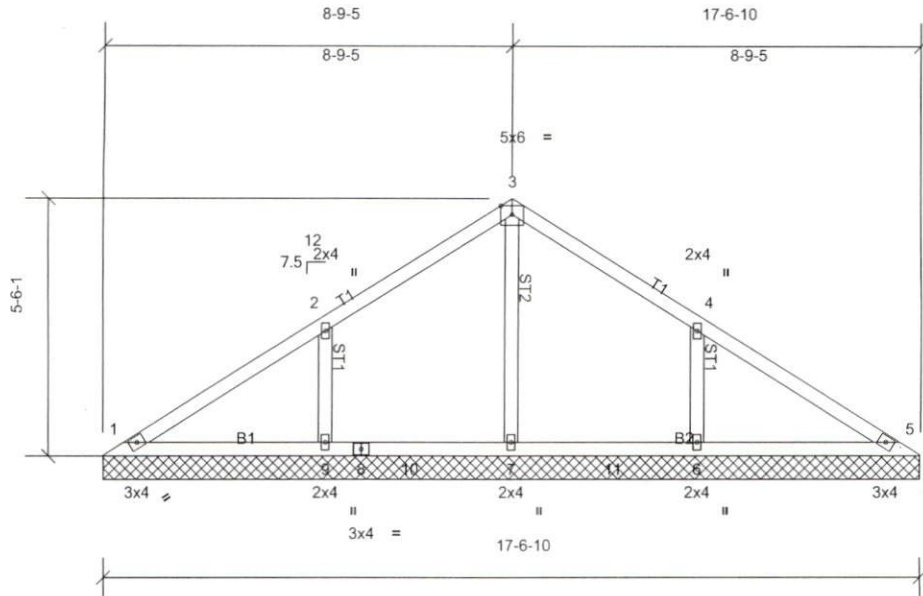
Job 19-044285T	Truss V03	Truss Type Valley	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

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Scale = 1:47.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 70 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 17-6-10.

- (lb) - Max Horiz 1=109 (LC 7)
- Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-113 (LC 11), 9=-113 (LC 10)
- Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=488 (LC 18), 7=332 (LC 17), 9=488 (LC 17)

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

WEBS 4-6=-307/162, 2-9=-308/163

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=113, 9=113.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

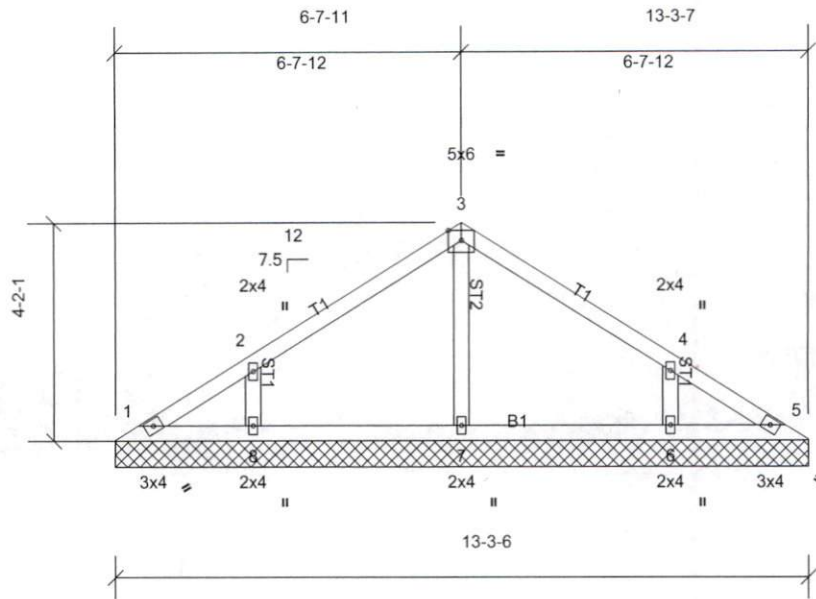
Job 19-044285T	Truss V04	Truss Type Valley	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MiTek Industries, Inc. Wed Apr 17 16:56:00

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Scale = 1:42.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 50 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 13-3-6.

(lb) - Max Horiz 1=81 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 8
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=309 (LC 18), 7=272 (LC 1), 8=309 (LC 17)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

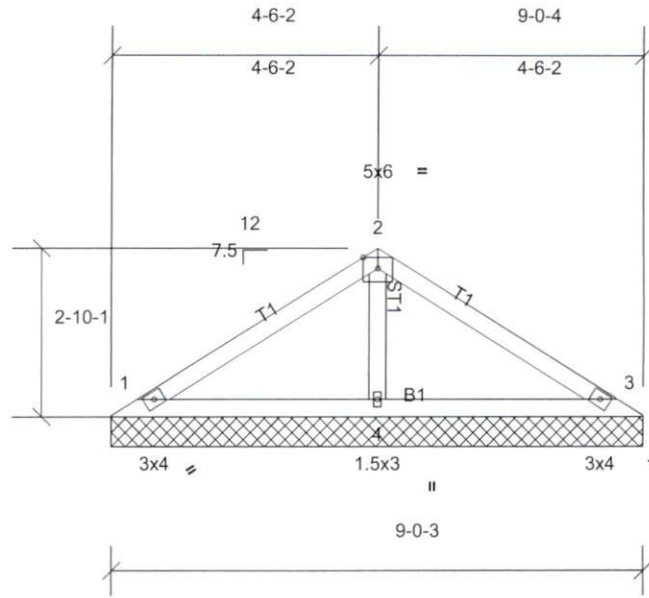
Job 19-044285T	Truss V05	Truss Type Valley	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MiTek Industries, Inc. Wed Apr 17 16:56:00

Page: 1

ID: AoRQLMNS6z7lvDXBlqPV4zPmR6-zwuihvzI9DQcuZQc4Af31j_acYLXOg3GVTma54zPmMT



Scale = 1:37.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 31 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

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

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

REACTIONS (lb/size) 1=156/9-0-3, (min. 0-1-8), 3=156/9-0-3, (min. 0-1-8),
4=334/9-0-3, (min. 0-1-8)

Max Horiz 1=53 (LC 7)

Max Uplift 1=-19 (LC 10), 3=-26 (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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 3 and 19 lb uplift at joint 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 19-044285T	Truss V06	Truss Type Valley	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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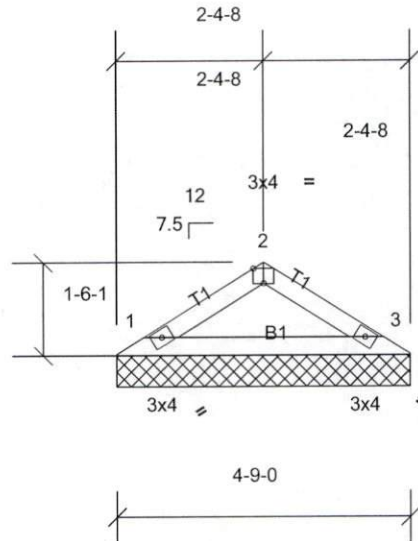
BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MiTek Industries, Inc. Wed Apr 17 16:56:00

Page: 1

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4-9-0



Scale = 1:36

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-9-13 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=152/4-9-0, (min. 0-1-8), 3=152/4-9-0, (min. 0-1-8)
Max Horiz 1=-25 (LC 8)
Max Uplift 1=-8 (LC 10), 3=-8 (LC 11)

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 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 8 lb uplift at joint 3 and 8 lb uplift at joint 1.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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

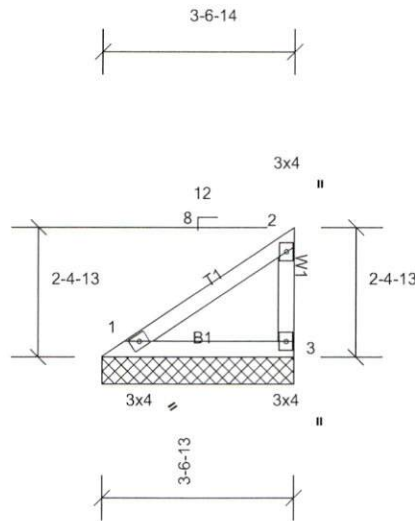
Job	Truss	Truss Type	Qty	Ply	MCNEIL MASONRY - THE WILLIAM
19-044285T	VM01	Valley	1	1	Job Reference (optional)

BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MiTek Industries, Inc. Wed Apr 17 16:56:00

Page: 1

ID:j9suC7FdshVMoGVx36Cv1gzPmV8-zwuihvzI9DQcuZQc4Af31j_bbYMWGgpGVTma54zPmMT



Scale = 1:41.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 3-7-3 oc purlins, except end verticals.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=119/3-6-13, (min. 0-1-8), 3=119/3-6-13, (min. 0-1-8)
 Max Horiz 1=64 (LC 9)
 Max Uplift 1=-2 (LC 10), 3=-24 (LC 10)
 Max Grav 1=119 (LC 1), 3=127 (LC 17)

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

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

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 24 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

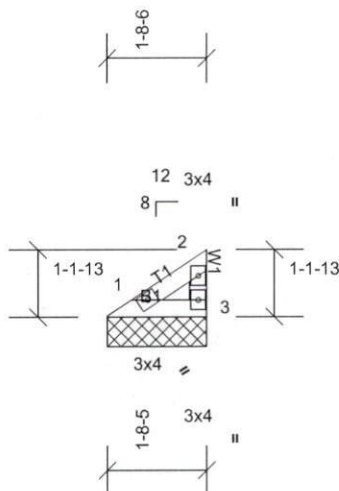
Job	Truss	Truss Type	Qty	Ply	MCNEIL MASONRY - THE WILLIAM
19-044285T	VM02	Valley	1	1	Job Reference (optional)

BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MiTek Industries, Inc. Wed Apr 17 16:56:00

Page: 1

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Scale = 1:37.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 1-8-11 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=44/1-8-5, (min. 0-1-8), 3=44/1-8-5, (min. 0-1-8)
 Max Horiz 1=23 (LC 7)
 Max Uplift 1=-1 (LC 10), 3=-9 (LC 10)
 Max Grav 1=44 (LC 1), 3=47 (LC 17)

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

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

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1 and 9 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



BMC TRUSS & COMPONENTS
 8401 PLANER MILL ROAD
 MIDDLESEX, NC 27557
 (252)235-4530

Quote # : 19-044285T

Date : 04/17/19

Ordered by Date : / /

(JOB WILL NEED TO BE RE-QUOTED BEYOND THIS DATE)

Delivery Taken By : / /

Quoted To: **BMC TRIANGLE QUOTE - NC**
 Project Name: McNEIL MASONRY AND CONSTRUCTIO**THE WILLIAM**

Ship To:

SALES TAX NOT INCLUDED IN TOTAL PRICE

Total Price: \$ 3,055.00

Price Includes:

Purchaser shall purchase truss(es) it orders from BMC upon manufacture. BMC will fabricate the trusses for Purchaser in accordance with dimensions shown on quotation and/or truss engineering and layout documents unless otherwise notified by Purchaser. If Purchaser notifies BMC of any changes to the trusses after BMC has commenced manufacturing, Purchaser shall be liable for any resulting increase in price. Engineering or shop drawings supplied by BMC do not constitute a roof system design supplied or approved by BMC. This responsibility remains with the Purchaser. The presence of an engineering stamp on such drawings or layout diagram does not constitute engineering approval of the roof or floor system by BMC. BMC EXPRESSLY DISCLAIMS ALL WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE concerning the fitness of the materials delivered other than the trusses will be manufactured in accordance with the terms of this quote and as otherwise expressly provided herein. Wood products have naturally occurring latent defects that are not ascertainable by inspection, including insects and similar natural conditions. Any items not manufactured by BMC are warranted only as warranted by the manufacturers of such items, otherwise all such items are sold on an "AS IS" basis. If any defect in materials delivered is discovered within one (1) year after delivery, BMC will repair or replace such defective materials. BMC shall have no liability for any defects discovered more than one (1) year after delivery. BMC assumes no liability, whether in contract, tort, or negligence, under any warranty, or otherwise, for any special, indirect, incidental, consequential or other damages. Any recommendation or advice made by a BMC salesperson is strictly for purpose of assisting the Purchaser and in no way constitutes a representation of warranty. BMC shall deliver the manufactured trusses at a time and place as agreed upon by the parties. Purchaser shall provide a safe and clear access to the delivery location and to all the BMC delivery persons ("driver") in unloading the trusses. The driver may refuse to unload the trusses if the driver determines any condition is unsatisfactory for delivery. BMC will deliver the trusses to building sites when accessible and safe and shall not be liable for any damage to sidewalk, curbs, driveways, or other improvements. Purchaser shall pay the cost of towing any BMC or other delivery vehicle delivering the trusses if towing becomes necessary due to delivery site conditions. Site conditions shall consist of dry level ground, 100' of driveway or ability to not impede traffic, minimum 20' wide passage, minimum 15' either side clearance for outriggers, minimum 20' from power lines and all materials removed from ingress to building. If any of these conditions cannot be met, a site inspection by a qualified representative from BMC must be made prior to delivery to assess the site conditions as satisfactory. Purchaser shall pay the cost of delivery if the job site or installation conditions are deemed unsatisfactory. Immediately upon delivery to the specified delivery location, all risks of loss and responsibility for the trusses shall pass to Purchaser. Purchaser shall be responsible for handling, storing, and bundling the trusses and connections to the supporting structure. The bracing material is not supplied unless otherwise specified. BMC shall provide Purchaser with a publication detailing suggested industry standard procedures for handling, storing, installing, and bracing the trusses. BMC shall have no responsibility to inspect the trusses after installation or to verify dimensions or adequacy of work done by other trades that may relate to the trusses. Use of the trusses by the Purchaser constitutes an acceptance of such materials. Any claims Purchaser may have for defective trusses must be made within five (5) days of delivery. If no claim is made within such five (5) day period, the trusses delivered will be deemed to be accepted by Purchaser. The credit terms for trusses manufactured pursuant to this agreement shall be as specified and controlled by the Credit Application of Purchaser. Should BMC be required to hold an order for ten (10) days or more beyond the agreed upon delivery date for any reason not caused by BMC, the Purchaser shall pay the purchase price. The provisions of this Agreement shall not be modified or waived with the express written consent of BMC. All discussions or documents regarding the trusses are merged into and superseded by the terms of this Agreement. Additional terms shall become part of this Agreement only with the express written consent of BMC. This Truss Manufacturing Agreement may be completed and returned to BMC by electronic transmission, including but not limited to facsimile or e-mail. Electronic submission of this Agreement to BMC shall constitute a "signed" or "executed" agreement by the submitting party or parties.

WARNING: TRUSS TOP CHORDS, BOTTOM CHORDS AND WEBS MUST BE Laterally AND Diagonally BRACED DURING ERECTION TO PREVENT PERSONAL INJURY OR PROPERTY DAMAGE. SEE BRACING INSTRUCTION DELIVERED WITH TRUSSES.

DO NOT CUT TRUSSES.

BMC IS NOT RESPONSIBLE FOR ANY ALTERATION TO THE TRUSSES MADE AT THE JOBSITE WITHOUT SPECIFIC WRITTEN APPROVAL FROM BMC.

BMC SHALL NOT BE RESPONSIBLE FOR ANY ADDITIONAL COST INCURRED FOR EQUIPMENT NECESSARY TO INSTALL TRUSSES.

BMC is not the structural engineer of record for this project. Wood trusses shall be designed in accordance with approved engineering practice. The design and manufacture of metal-plate-connected wood trusses shall comply with ANSI/TPI 1. The truss design drawings shall be prepared by a registered professional where required by the statutes of the jurisdiction in which the project is to be constructed in accordance with Section R106.1. We strongly encourage you to engage a structural engineer. If there is no engineer of record, owner/builder assumes that responsibility.

Accepted by: _____ Date of Acceptance: _____

Title: _____ Requested Del Date: _____

We appreciate the opportunity to quote this project.

Designer: JUSTIN SALYARDS Sales Rep: TERRY WARD



8401 PLANER MILL ROAD
MIDDLESEX, NC 27557
PH: (252)235-4530

BMC TRIANGLE QUOTE - NC
TRIANGLE MARKET NC
RALEIGH, NC
PH-(919) 828-7471 FAX-

WORLD HO
SOUTH HO

QUOTE ESTIMATE

ORDER # **19-044285T**
PAGE 1
DATE 04/17/19
DESIGNER: JUSTIN SALYARDS

JOB NAME: McNEIL MASONRY AND CONSTRUCTIO TAG: ROOF TRUSSES
MODEL: THE WILLIAM LOT #: SUBDIV:

DELIVERY INSTRUCTIONS:
FROM MIDDLESEX:

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY PLY	PITCH		TYPE ID	BASE SPAN	O/A SPAN	LUMBER		HEEL HEIGHT		OVERHANG		CANTILEVER	
		TOP	BOT				TOP	BOT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	1	8.00	0.00	COMMON A01	27-04-00	23-06-12	2 X 4	2 X 4	00-04-07	02-10-10	01-00-00			
	6	8.00	0.00	COMMON A02	27-04-00	23-06-12	2 X 4	2x4	00-04-07	02-10-10	01-00-00			
	8	8.00	0.00	COMMON B01	27-04-00	27-04-00	2 X 4	2x4	00-04-07	00-04-07	01-00-00			
	3	8.00	0.00	COMMON B02	27-04-00	27-04-00	2 X 4	2x4	00-04-07	00-04-07	01-00-00	01-00-00		
	5	8.00	0.00	COMMON B03	27-04-00	27-04-00	2 X 4	2 X 4	00-04-07	00-04-07	01-00-00	01-00-00		
	1	8.00	0.00	COMMON B04	27-04-00	27-04-00	2 X 4	2 X 4	00-04-07	00-04-07	01-00-00	01-00-00		
	1	7.50	0.00	COMMON C01	15-00-00	15-00-00	2 X 4	2 X 4	00-04-06	00-04-06	01-00-00	01-00-00		
	1	7.50	0.00	COMMON C02	15-00-00	15-00-00	2 X 4	2 X 4	00-04-06	00-04-06	01-00-00	01-00-00		
	1	7.50	0.00	COMMON D01	28-00-00	28-00-00	2 X 4	2 X 4	00-04-06	00-04-06	01-00-00	01-00-00		
	2	7.50	0.00	COMMON D02	28-00-00	28-00-00	2 X 4	2 X 4	00-04-06	00-04-06	01-00-00	01-00-00		
	2	7.50	0.00	MONOPIT E01	12-05-12	12-05-12	2 X 4	2 X 4	00-04-06	08-02-00				
	1	7.50	0.00	VALLEY V01	14-06-12	14-06-12	2 X 4	2 X 4	00-00-04	07-02-11				
	1	7.50	0.00	VALLEY V02	12-05-02	12-05-02	2 X 4	2 X 4	00-00-04	05-10-11				
	1	7.50	0.00	VALLEY V03	17-06-10	17-06-10	2 X 4	2 X 4	00-00-04	00-00-00				17-06-1



8401 PLANER MILL ROAD
MIDDLESEX, NC 27557
PH: (252)235-4530

BMC TRIANGLE QUOTE - NC
TRIANGLE MARKET NC
RALEIGH, NC
PH-(919) 828-7471 FAX-

QUOTE ESTIMATE

ORDER # **19-044285T**
 PAGE **2**
 DATE **04/17/19**
 DESIGNER: **JUSTIN SALYARDS**

JOB NAME: McNEIL MASONRY AND CONSTRUCTIO **TAG:** ROOF TRUSSES **DELIVERY INSTRUCTIONS:**
MODEL: THE WILLIAM **LOT #:** **SUBDIV:** FROM MIDDLESEX:

ROOF TRUSSES **LOADING INFORMATION** **TCLL-TCDL-BCLL-BCDL** **STRESS INCR.** **ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)**

20.0,10.0,0.0,0.10,0 1.15

PROFILE	QTY PLY	PITCH		TYPE ID	BASE SPAN	O/A SPAN	LUMBER		HEEL HEIGHT		OVERHANG		CANTILEVER	
		TOP	BOT				TOP	BOT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	1	7.50	0.00	VALLEY V04	13-03-06	13-03-06	2 X 4	2 X 4	00-00-04	00-00-04			13-03-0	
	1	7.50	0.00	VALLEY V05	09-00-03	09-00-03	2 X 4	2 X 4	00-00-04	00-00-04			09-00-0	
	1	7.50	0.00	VALLEY V06	04-09-00	04-09-00	2 X 4	2 X 4	00-00-04	00-00-04			04-09-0	
	1	8.00	0.00	VALLEY VM01	03-06-13	03-06-13	2 X 4	2 X 4	00-00-04	02-04-13				
	1	8.00	0.00	VALLEY VM02	01-08-05	01-08-05	2 X 4	2 X 4	00-00-04	01-01-13				

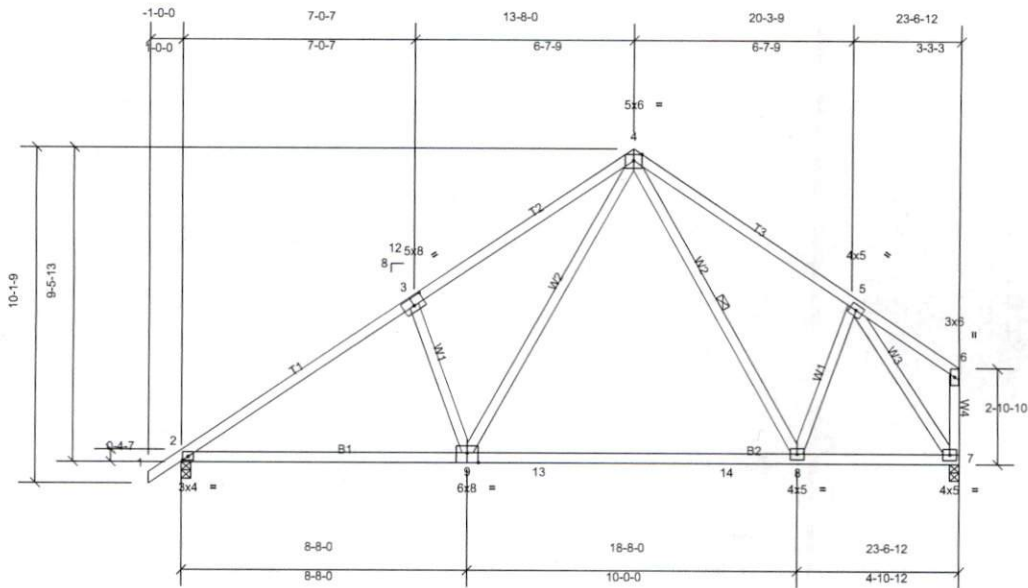
Job 19-044285T	Truss A02	Truss Type Common	Qty 6	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

Run: 8.22 S Feb 10 2019 Print: 8.220 S Feb 10 2019 MiTek Industries, Inc. Wed Apr 17 16:55:57

Page: 1

ID: EIBpjYPL6Uo91fhX6Tk7zPmWD-ZMC22twts12215i1P16MP4Mz3LAR9uppVXwUlzPmMW



Scale = 1:67.2

Plate Offsets (X, Y): [3:0-4-0,0-3-0], [9:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.37	8-9	>753	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.56	8-9	>506	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS								
											Weight: 135 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
- WEBS 2x4 SP No.2 *Except* W1,W3;2x4 SP No.3
- REACTIONS (lb/size) 2=998/0-3-8, (min. 0-1-8), 7=935/0-3-8, (min. 0-1-8)
- Max Horiz 2=231 (LC 9)
- Max Uplift 2=-67 (LC 10), 7=-29 (LC 11)
- Max Grav 2=1131 (LC 17), 7=1056 (LC 18)

- FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-1482/89, 3-4=-1417/187, 4-5=-1012/138
- BOT CHORD 2-9=-117/1312, 9-13=0/723, 13-14=0/723, 8-14=0/723, 7-8=-40/670
- WEBS 4-8=-78/251, 5-8=-12/291, 4-9=-118/929, 3-9=-419/227, 5-7=-1216/50

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 3-06-00 tall by 2-00-00 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 67 lb uplift at joint 2 and 29 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

- TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- WEBS 1 Row at midpt 4-8

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

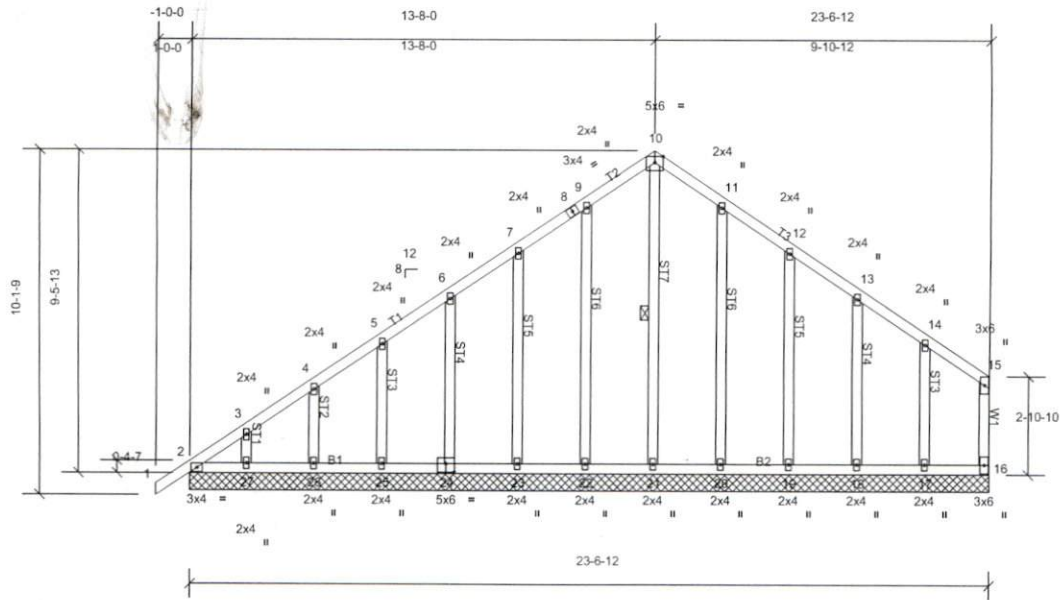
Job 19-044285T	Truss A01	Truss Type Common Supported Gable	Qty 1	Ply 1	MCNEIL MASONRY - THE WILLIAM Job Reference (optional)
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BMC Components

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Scale = 1:65.4

Plate Offsets (X, Y): [24:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S								
											Weight: 168 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3 *Except* ST7:2x4 SP No.2

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.
WEBS	1 Row at midpt 10-21

REACTIONS

- All bearings 23-6-12.
 (lb) - Max Horiz 2=231 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 21, 22, 23, 24, 25, 26, 27, 20, 19, 18, 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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