Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	JGRD1X	MONO TRUSS	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

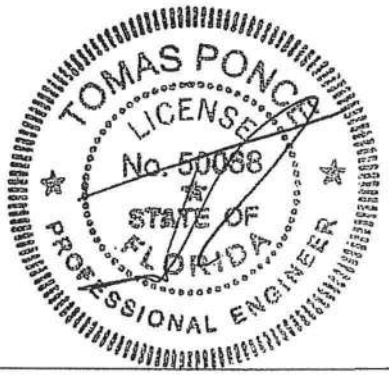
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-38, 3-4=-20

Concentrated Loads (lb)

Vert: 7=15(B) 8=8(B) 9=11(F) 10=9(B) 11=-30(F) 12=-20(B) 13=14(F) 14=12(B) 15=-15(F) 16=-9(B)



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	JX	JACK	10	1	Job Reference (optional)	

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ID:f4UrCDllQNQgonwNQHy58wyym4n-2Ke02HYlbdt0MdyEYo08Pa3N_IWT5X0kxguyzXZe

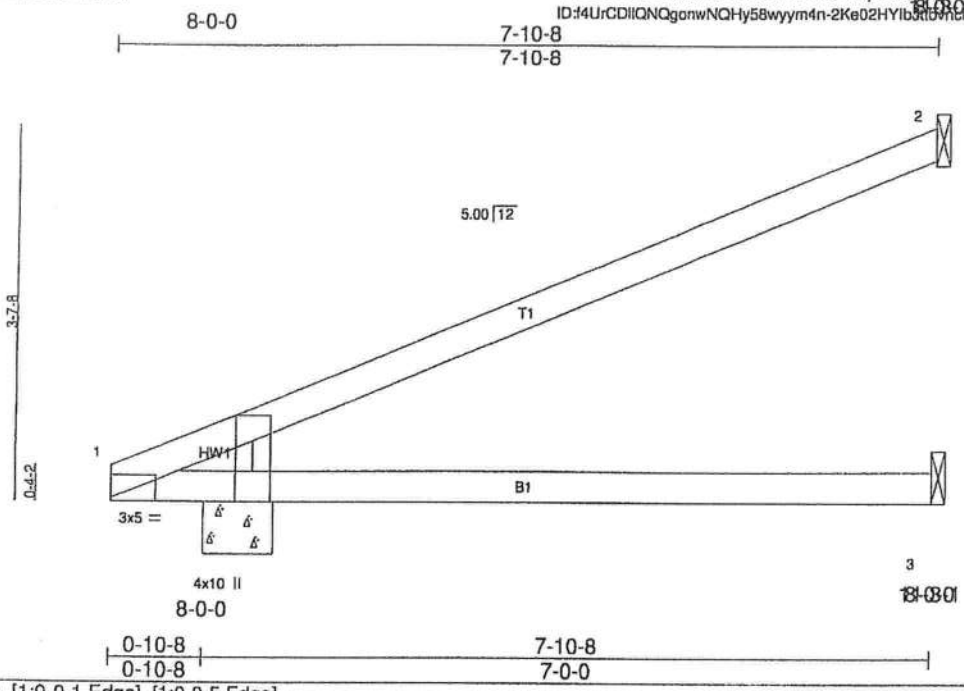


Plate Offsets (X,Y): [1:0-0-1,Edge], [1:0-0-5,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.06	3-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.15	3-7	>620	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.02	2	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix-M)							Weight: 26 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEDGE
Left: 2x4 SP 1500F 1.6E

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

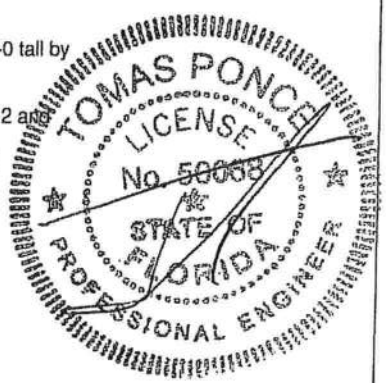
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=106/Mechanical, 3=58/Mechanical, 1=289/0-8-0 (min. 0-1-8)
Max Horz 1=133(LC 10)
Max Uplift2=-109(LC 10), 1=-77(LC 10)
Max Grav 2=128(LC 2), 3=110(LC 3), 1=329(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-555/328
BOT CHORD 1-7=-481/772, 1-4=-94/160, 1-3=0/0

NOTES (6)
1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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 109 lb uplift at joint 2 and 77 lb uplift at joint 1.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	MGRD1X	SPECIAL	1	2	Job Reference (optional)	

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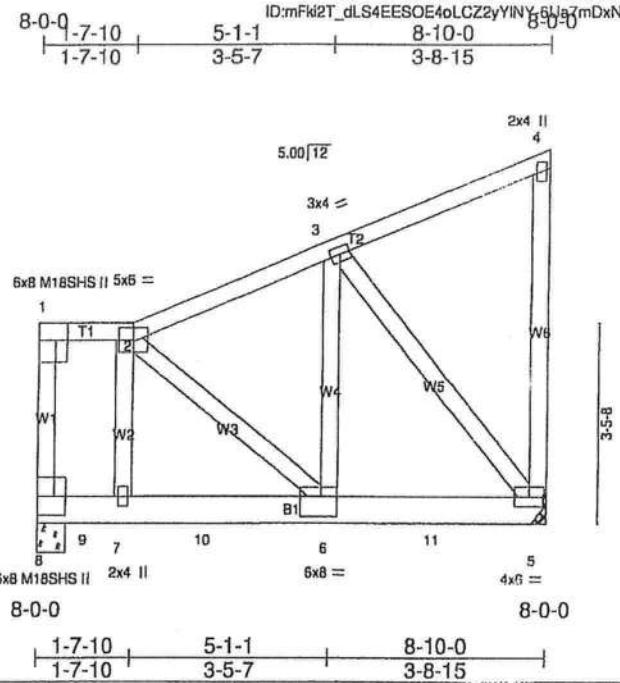


Plate Offsets (X,Y): [6:0-3-8,0-4-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.89	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.59	Vert(TL)	-0.12	6-7	>827	180	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix-M)							Weight: 144 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E *Except*
T1: 2x4 SYP No.2
BOT CHORD 2x6 SYP No.2
WEBS 2x4 SP 1500F 1.6E *Except*
W2: 2x4 SYP No.2

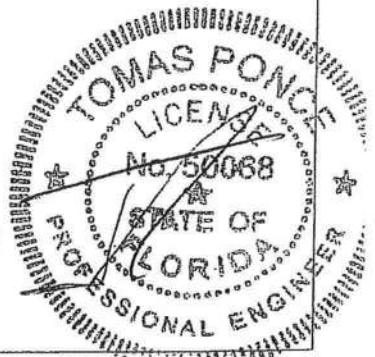
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 8=2635/0-6-0 (min. 0-1-12), 5=1816/Mechanical
Max Horz 8=119(LC 8)
Max Uplift8=-271(LC 8), 5=-492(LC 8)
Max Grav 8=2915(LC 2), 5=1975(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-830/80, 1-2=-556/50, 2-3=-1410/224, 3-4=-61/15, 4-5=-43/58
BOT CHORD 8-9=-169/556, 7-9=-169/556, 7-10=-178/574, 6-10=-178/574, 6-11=-300/1335, 5-11=-300/1335
WEBS 2-7=-379/198, 2-6=-166/1019, 3-6=-317/1832, 3-5=-2117/468

NOTES (12)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 8 and 492 lb uplift at joint 5.

Continued on page 2



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	MGRD1X	SPECIAL	1	2	Job Reference (optional)	

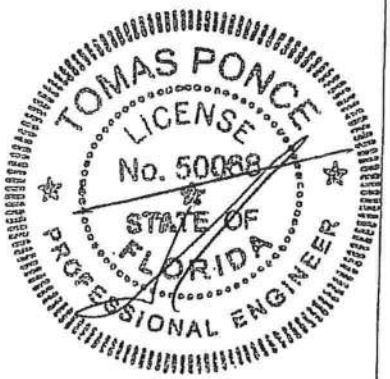
NOTES (12)

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 881 lb down and 193 lb up at 0-10-12, 802 lb down at 1-9-4, 881 lb down and 207 lb up at 2-10-12, and 881 lb down and 219 lb up at 4-10-12, and 881 lb down and 229 lb up at 6-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

12) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-2=-38, 2-4=-38, 5-8=-20
   Concentrated Loads (lb)
      Vert: 7=-711(B) 6=-792(F) 9=-805(F) 10=-800(F) 11=-848(F)



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	RG1X	GABLE	1	1	Job Reference (optional)	

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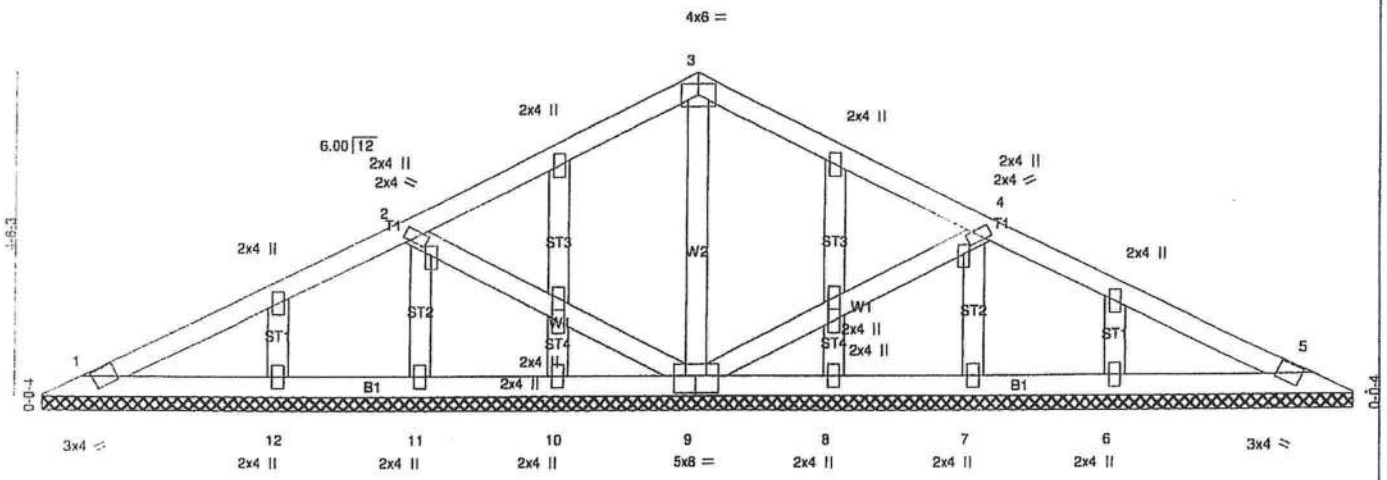
8-9-5 | 5-3-2 | 9-3-14 | 13-4-10 | 18-7-13

5-3-2 | 4-0-12 | 4-0-12 | 5-3-2

Scale = 1:29.7



8-9-5 | 9-3-14 | 18-7-13

9-3-14 | 9-3-14

Plate Offsets (X,Y): [2:0-1-11,0-1-0], [4:0-1-11,0-1-0], [9:0-4-0,0-3-0], [13:0-1-15,0-1-0], [17:0-1-15,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 94 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 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 (lb/size) 1=120/18-7-13 (min. 0-1-9), 5=120/18-7-13 (min. 0-1-9), 9=468/18-7-13 (min. 0-1-9), 10=45/18-7-13 (min. 0-1-9), 11=24/18-7-13 (min. 0-1-9), 12=84/18-7-13 (min. 0-1-9), 8=45/18-7-13 (min. 0-1-9), 7=24/18-7-13 (min. 0-1-9), 6=84/18-7-13 (min. 0-1-9)
Max Horz 1=71(LC 7)
Max Uplift 1=-59(LC 10), 5=-71(LC 11), 9=-267(LC 10), 12=-1(LC 10), 6=-1(LC 11)
Max Grav 1=163(LC 24), 5=163(LC 25), 9=558(LC 2), 10=84(LC 3), 11=66(LC 3), 12=119(LC 3), 8=84(LC 3), 7=66(LC 3), 6=119(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-196/89, 2-3=-54/171, 3-4=-52/171, 4-5=-196/99
BOT CHORD 1-12=-78/137, 11-12=-78/137, 10-11=-78/137, 9-10=-78/137, 8-9=-37/137, 7-8=-37/137, 6-7=-37/137, 5-6=-37/137
WEBS 3-9=-340/192, 4-9=-298/244, 2-9=-298/244

NOTES (9)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Builder's "Gable End Wall Bracing / Connection Details"
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 1, 71 lb uplift at joint 5, 267 lb uplift at joint 9, 1 lb uplift at joint 12 and 1 lb uplift at joint 6.
9) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_
SIERRA	RG1X	GABLE	1	1	Job Reference (optional)

Tomas Ponce, MSCE, PE
FL PE# 50068
367 Medallion Place
Chuluta, FL 32766
407-484-6037

LOAD CASE(S) Standard

TOMAS PONCE
LICENSE
No. 50068
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_
SIERRA	T1X	COMMON	1	1	Job Reference (optional)

Tomas Ponce, MSCE, PE
FL PE# 50068
367 Medallion Place
Chuluta, FL 32766
407-484-0037

Maronda Homes Inc., Sanford, FL

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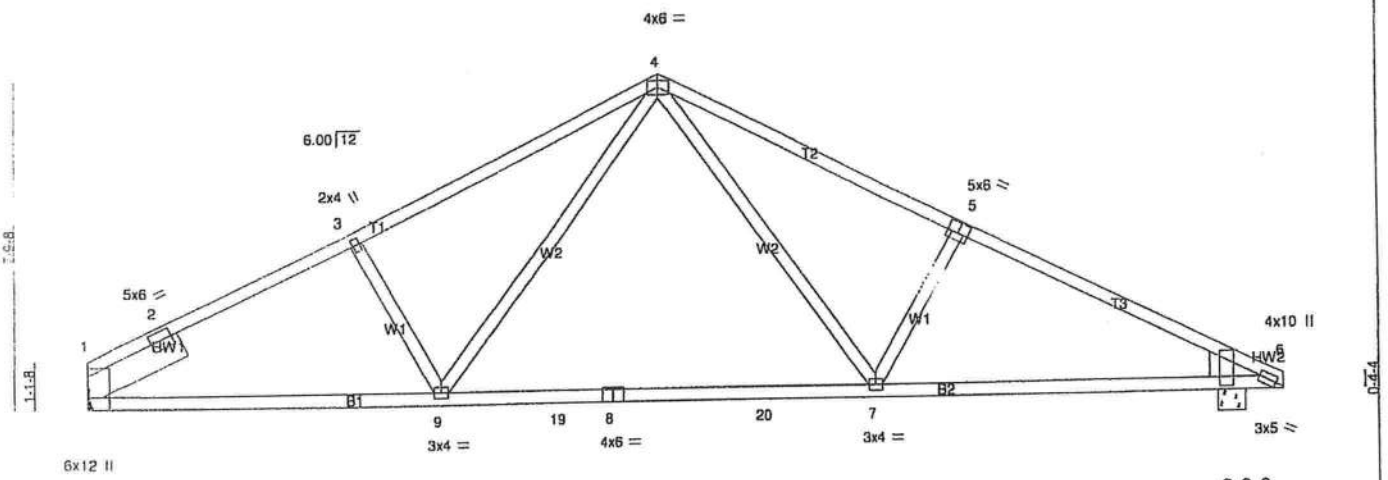
ID:jyZxNxDrQ4WrMpXTOKtAY5z0UhO-eZYA6h8PH3w3LHSrV15ol87XvPcb?A59ZTMUL6yzXYu

8-0-0 | 6-1-15 | 13-4-0 | 20-6-1 | 28-2-8 | 8-0-0
6-1-15 | 7-2-1 | 7-2-1 | 7-8-7

Scale = 1:49.0



8-0-0 | 8-1-6 | 18-6-10 | 27-4-0 | 28-2-8
8-1-6 | 10-5-4 | 8-9-6 | 0-10-8

Plate Offsets (X,Y): [5:0-3-0,0-3-0], [6:0-2-5,0-1-8], [6:0-0-11,1-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.67	Vert(LL)	-0.47	7-9	>719	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.92	7-9	>368	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(TL)	-0.06	1	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix-M)							Weight: 139 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E *Except*
W2: 2x4 SYP No.2
WEDGE
Right: 2x8 SYP No.2
SLIDER Left 2x8 SYP No.2 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

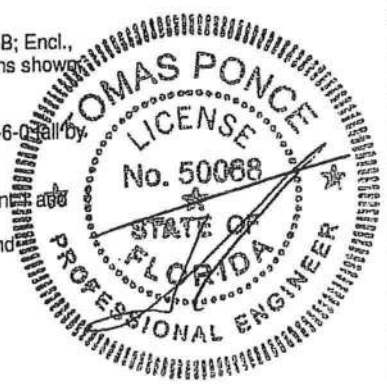
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=868/Mechanical, 6=917/0-8-0 (min. 0-1-8)
Max Horz 1=-131(LC 11)
Max Uplift1=-209(LC 10), 6=-232(LC 11)
Max Grav 1=901(LC 2), 6=961(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-168/389, 2-3=-1504/556, 3-4=-1427/579, 4-5=-1513/609, 5-6=-1619/587, 6-17=-5/13
BOT CHORD 1-9=-368/1242, 9-19=-187/894, 8-19=-187/894, 8-20=-187/894, 7-20=-187/894, 6-7=-410/1356, 6-18=0/0
WEBS 3-9=-217/247, 4-9=-116/452, 4-7=-160/558, 5-7=-308/282

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 1 and 232 lb uplift at joint 6.
7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V1X	VALLEY	1	1	Job Reference (optional)	

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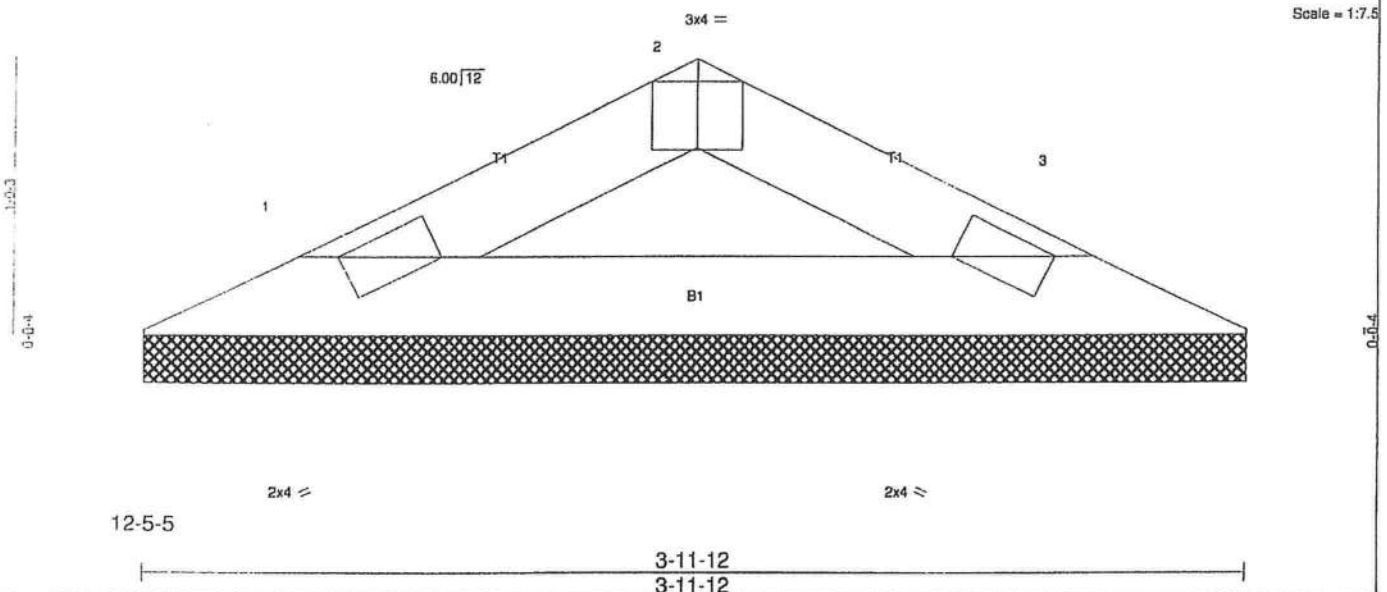


Plate Offsets (X,Y): [2:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 11 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

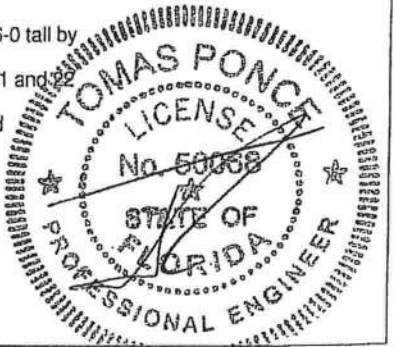
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=82/3-11-12 (min. 0-1-8), 3=82/3-11-12 (min. 0-1-8)
Max Horz 1=-12(LC 6)
Max Uplift1=-22(LC 10), 3=-22(LC 11)
Max Grav 1=93(LC 2), 3=93(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-107/69, 2-3=-107/69
BOT CHORD 1-3=-42/79

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 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 22 lb uplift at joint 1 and 22 lb uplift at joint 3.
7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V2X	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:40:43 2012 Page 1
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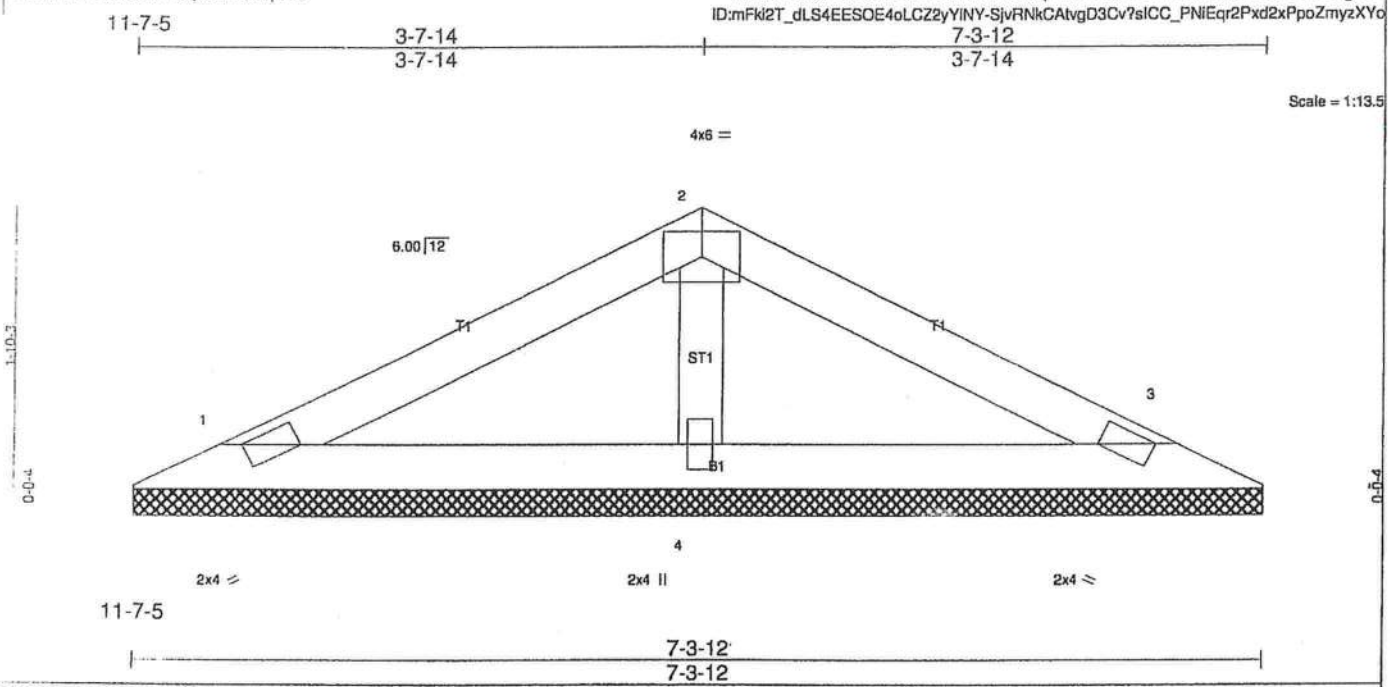


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 23 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

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

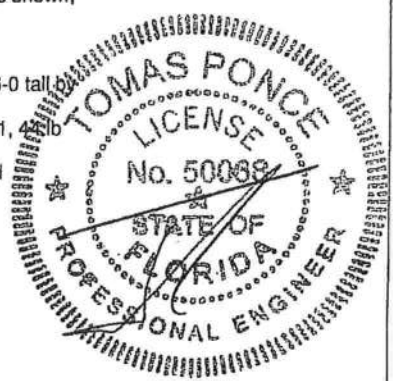
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=87/7-3-12 (min. 0-1-8), 3=87/7-3-12 (min. 0-1-8), 4=183/7-3-12 (min. 0-1-8)
Max Horz 1=25(LC 7)
Max Uplift 1=-39(LC 10), 3=-44(LC 11), 4=-18(LC 10)
Max Grav 1=101(LC 2), 3=101(LC 2), 4=205(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-48/35, 2-3=-48/34
BOT CHORD 1-4=-3/19, 3-4=-3/19
WEBS 2-4=-161/100

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 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 39 lb uplift at joint 1, 44 lb uplift at joint 3 and 18 lb uplift at joint 4.
7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V3X	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:40:45 2012 Page 1
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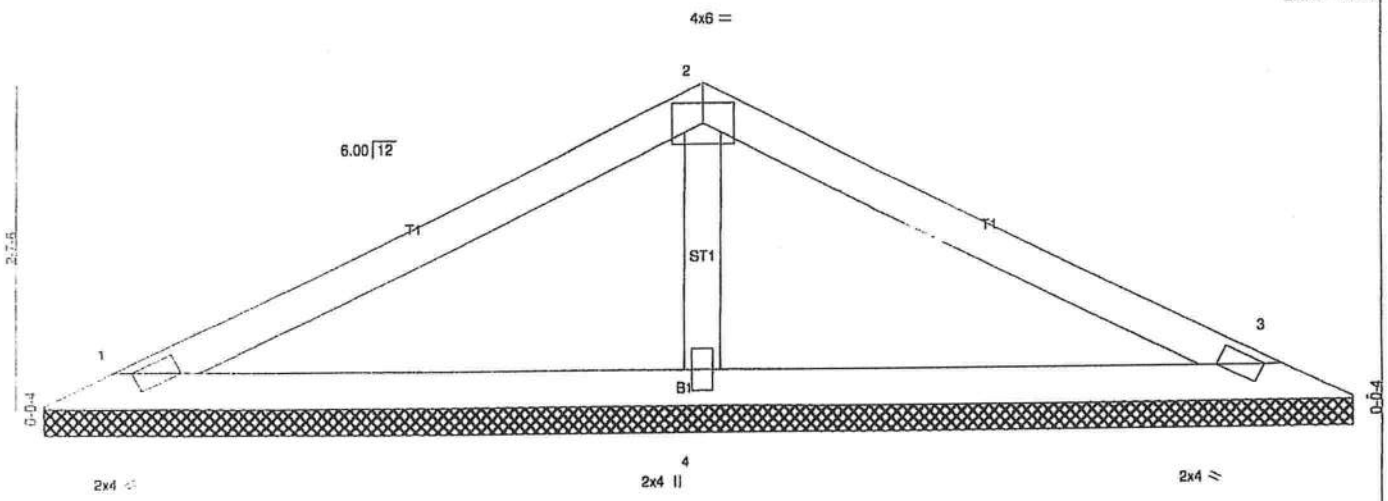

10-10-2 | 10-4-8 | 10-4-8

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 34 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

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

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

REACTIONS (lb/size) 1=112/10-4-8 (min. 0-1-8), 3=112/10-4-8 (min. 0-1-8), 4=311/10-4-8 (min. 0-1-8)
Max Horz 1=-38(LC 6)
Max Uplift1=-41(LC 10), 3=-47(LC 11), 4=-63(LC 10)
Max Grav1=133(LC 24), 3=133(LC 25), 4=353(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-77/53, 2-3=-77/51
BOT CHORD 1-4=-3/33, 3-4=-3/33
WEBS 2-4=-269/161

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 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 41 lb uplift at joint 1, 47 lb uplift at joint 3 and 63 lb uplift at joint 4.
7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V4X	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:40:49 2012 Page 1
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10-0-2 | 6-10-4 | 6-10-4

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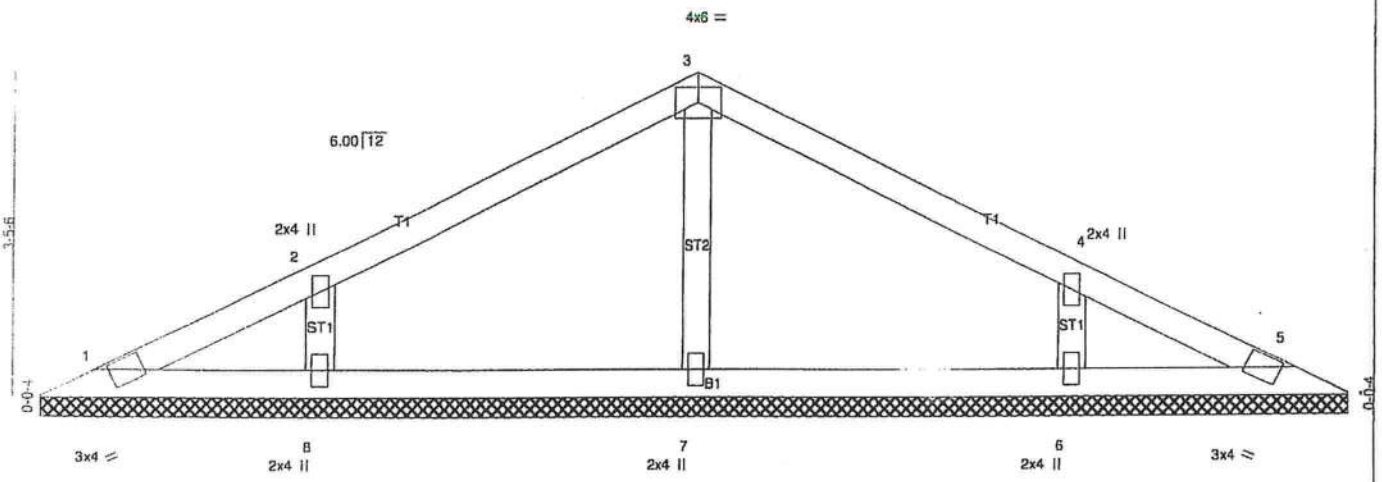

10-0-2 | 13-8-8
13-8-8

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 48 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

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

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

REACTIONS (lb/size) 1=48/13-8-8 (min. 0-1-8), 5=48/13-8-8 (min. 0-1-8), 7=228/13-8-8 (min. 0-1-8), 8=202/13-8-8 (min. 0-1-8), 6=202/13-8-8 (min. 0-1-8)
Max Horz 1=51(LC 7)
Max Uplift 1=-15(LC 11), 5=-6(LC 10), 7=-17(LC 10), 8=-113(LC 10), 6=-112(LC 11)
Max Grav 1=56(LC 19), 5=55(LC 2), 7=258(LC 2), 8=241(LC 24), 6=241(LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-56/39, 2-3=-82/83, 3-4=-82/83, 4-5=-41/19
BOT CHORD 1-8=-8/37, 7-8=-8/37, 6-7=-8/37, 5-6=-8/37
WEBS 3-7=-193/96, 2-8=-210/171, 4-6=-210/171

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 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 15 lb uplift at joint 1, 6 lb uplift at joint 5, 17 lb uplift at joint 7, 113 lb uplift at joint 8 and 112 lb uplift at joint 6.
7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V5X	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:40:52 2012 Page 1
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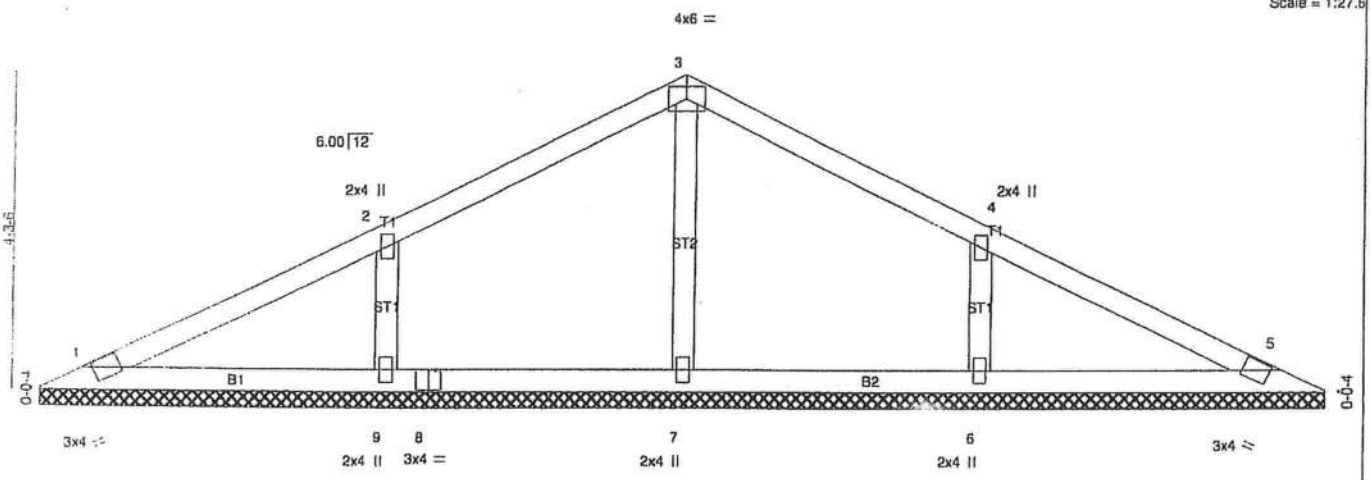


9-2-2

17-0-8

17-0-8

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 62 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

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

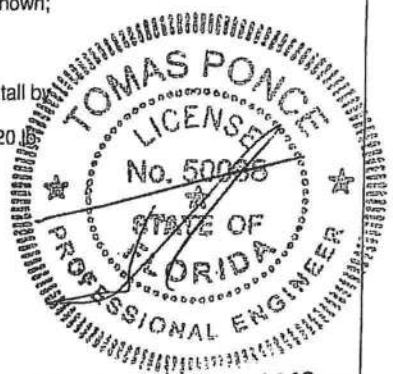
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=97/17-0-8 (min. 0-1-8), 5=97/17-0-8 (min. 0-1-8), 7=202/17-0-8 (min. 0-1-8), 9=263/17-0-8 (min. 0-1-8), 6=263/17-0-8 (min. 0-1-8)
Max Horz 1=65(LC 7)
Max Uplift1=-22(LC 11), 5=-20(LC 11), 9=-142(LC 10), 6=-142(LC 11)
Max Grav 1=111(LC 2), 5=111(LC 2), 7=229(LC 2), 9=306(LC 24), 6=306(LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-70/54, 2-3=-91/109, 3-4=-91/109, 4-5=-54/34
BOT CHORD 1-9=-16/53, 8-9=-16/53, 7-8=-16/53, 6-7=-16/53, 5-6=-16/53
WEBS 3-7=-162/57, 2-9=-256/204, 4-6=-256/204

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 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 22 lb uplift at joint 1, 20 lb uplift at joint 5, 142 lb uplift at joint 9 and 142 lb uplift at joint 6.
7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V24X	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:41:29 2012 Page 1

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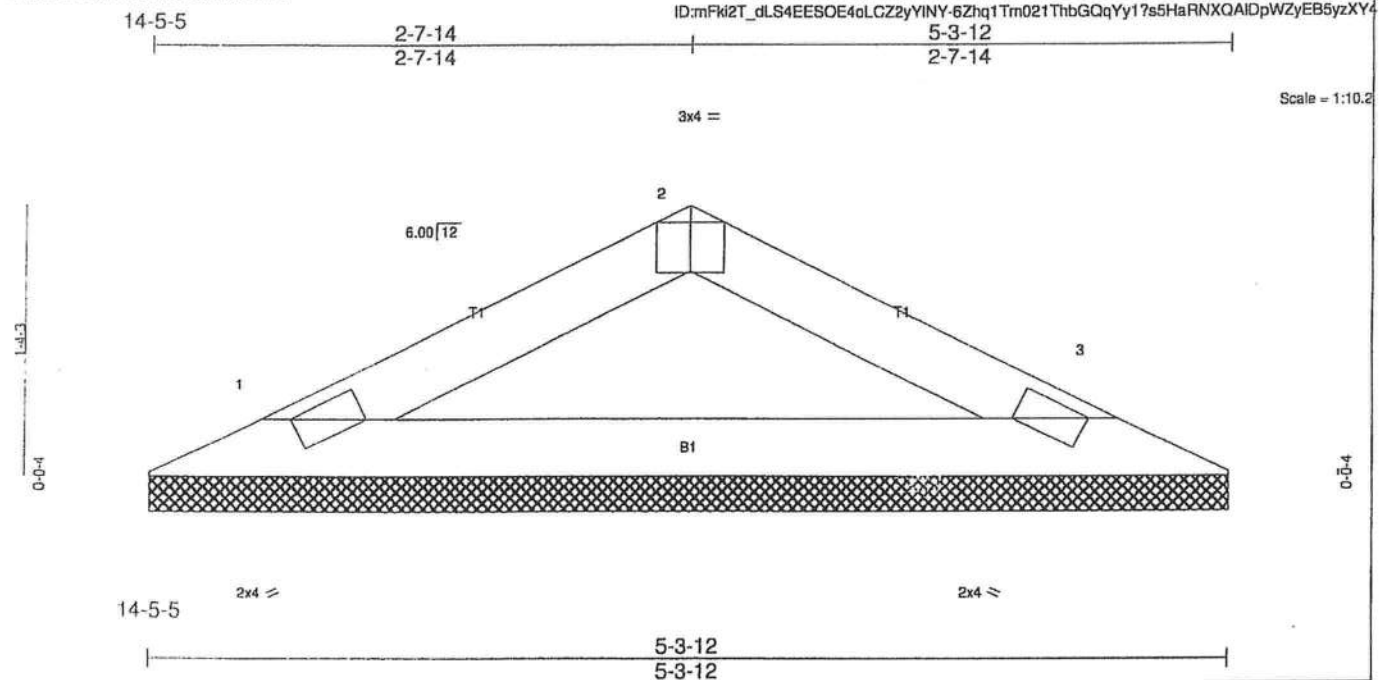

Plate Offsets (X,Y): [2:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 15 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=121/5-3-12 (min. 0-1-8), 3=121/5-3-12 (min. 0-1-8)
Max Horz 1=17(LC 9)
Max Uplift1=-33(LC 10), 3=-33(LC 11)
Max Grav 1=137(LC 2), 3=137(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-158/101, 2-3=-158/101
BOT CHORD 1-3=-61/116

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 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 33 lb uplift at joint 1 and 33 lb uplift at joint 3.
7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V25X	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:41:30 2012 Page 1

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15-3-5

0-11-14 | 1-11-12

0-11-14 | 0-11-14

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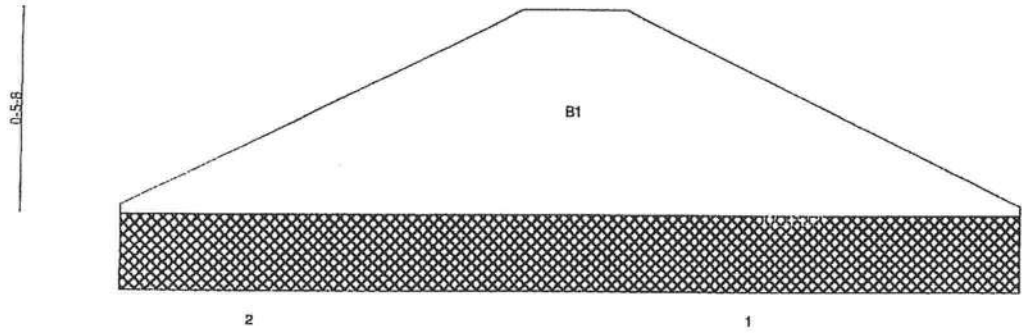


15-3-5

1-11-12

1-11-12

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	0.90	TC	0.00	Vert(LL)	n/a	-	n/a	999		
TCDL	7.0	Plt. Metal Increase	0.90	BC	0.00	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Lumber Increase	0.90	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Rep Stress Incr	YES	(Matrix)							Weight: 5 lb	FT = 0%
		Code FRC2010/TPI2007										

LUMBER
BOT CHORD 2x6 SYP No.2

BRACING
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

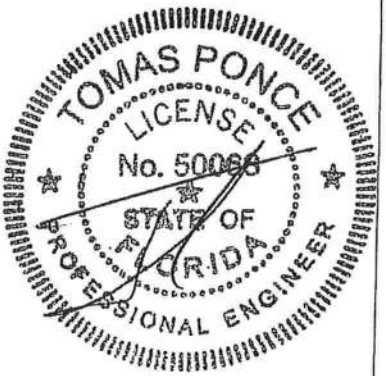
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=11/1-11-12 (min. 0-1-8), 1=11/1-11-12 (min. 0-1-8)
Max Grav 2=22(LC 3), 1=22(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
BOT CHORD 1-2=0/0

NOTES (4)
1) Gable requires continuous bottom chord bearing.
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 1-0-0 wide will fit between the bottom chord and any other members.
4) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V26X	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:41:31 2012 Page 1

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13-5-8
2-4-3
2-4-3

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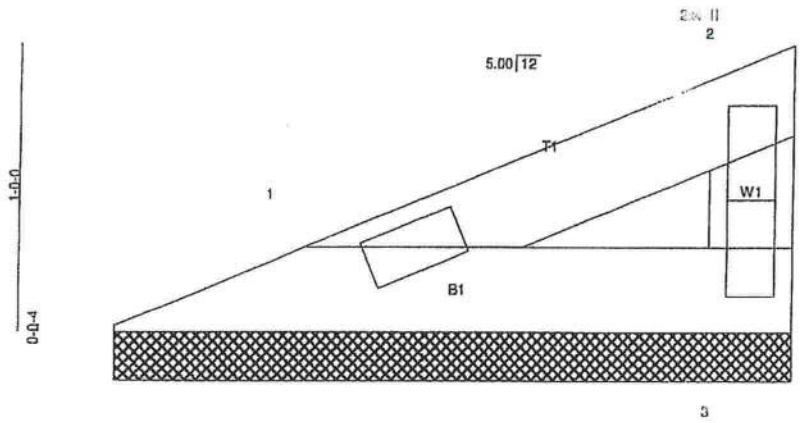


13-5-8
2-4-3
2-4-3

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 7 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

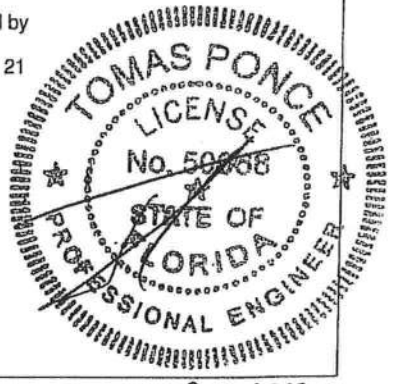
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=44/2-4-3 (min. 0-1-8), 3=44/2-4-3 (min. 0-1-8)
Max Horz 1=26(LC 10)
Max Uplift 1=-10(LC 10), 3=-21(LC 10)
Max Grav 1=50(LC 2), 3=50(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-19/17, 2-3=-50/39
BOT CHORD 1-3=0/0

NOTES (6)
1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 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 10 lb uplift at joint 1 and 21 lb uplift at joint 3.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V27X	VALLEY	1	1	Job Reference (optional)	

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12-5-8

4-9-0

4-9-0

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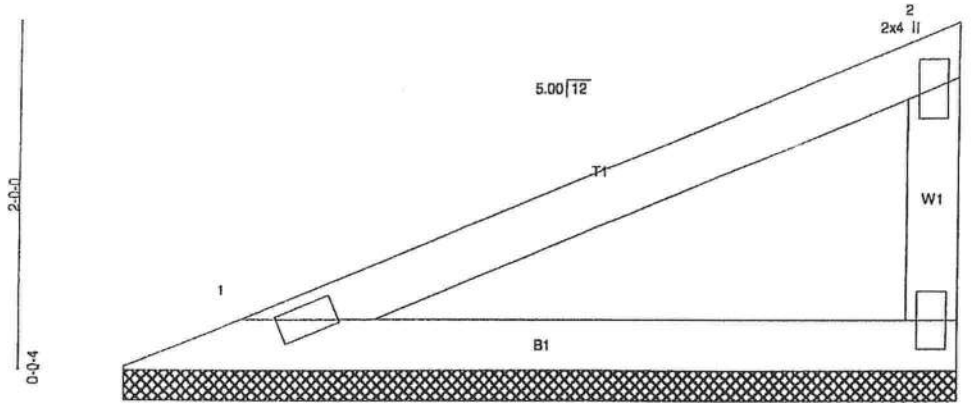

12-5-8

4-9-0

4-9-0

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 16 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=114/4-9-0 (min. 0-1-8), 3=114/4-9-0 (min. 0-1-8)
Max Horz 1=67(LC 10)
Max Uplift1=-26(LC 10), 3=-54(LC 10)
Max Grav 1=130(LC 2), 3=130(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-50/44, 2-3=-130/100
BOT CHORD 1-3=0/0

NOTES (6)

1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 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 26 lb uplift at joint 1 and 54 lb uplift at joint 3.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V28X	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:41:34 2012 Page 1

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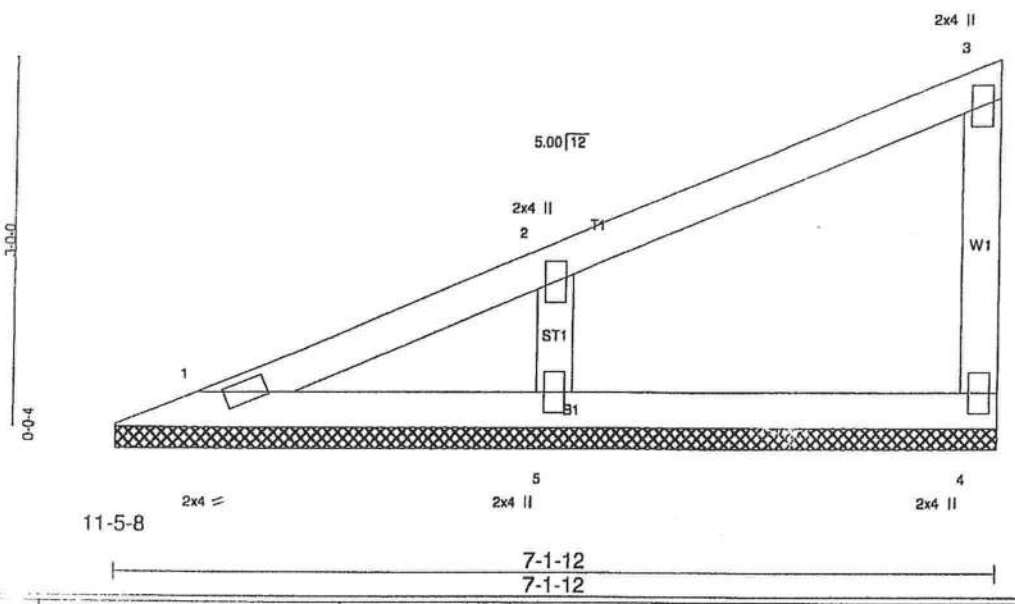


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 26 lb	FT = 0%

LUMBER

TOP CHORD	2x4 SP 1500F 1.6E
BOT CHORD	2x4 SP 1500F 1.6E
WEBS	2x4 SP 1500F 1.6E
OTHERS	2x4 SP 1500F 1.6E

BRACING

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

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

REACTIONS (lb/size) 1=57/7-1-12 (min. 0-1-8), 4=79/7-1-12 (min. 0-1-8), 5=231/7-1-12 (min. 0-1-8)
Max Horz 1=107(LC 10)
Max Uplift4=-37(LC 10), 5=-109(LC 10)
Max Grav 1=65(LC 2), 4=90(LC 2), 5=263(LC 2)

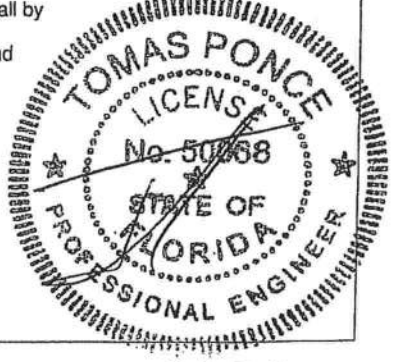
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-121/82, 2-3=-42/28, 3-4=-87/67
BOT CHORD	1-5=0/0, 4-5=0/0
WEBS	2-5=-255/198

NOTES (6)

1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 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 37 lb uplift at joint 4 and 109 lb uplift at joint 5.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V29X	GABLE	1	1	Job Reference (optional)	

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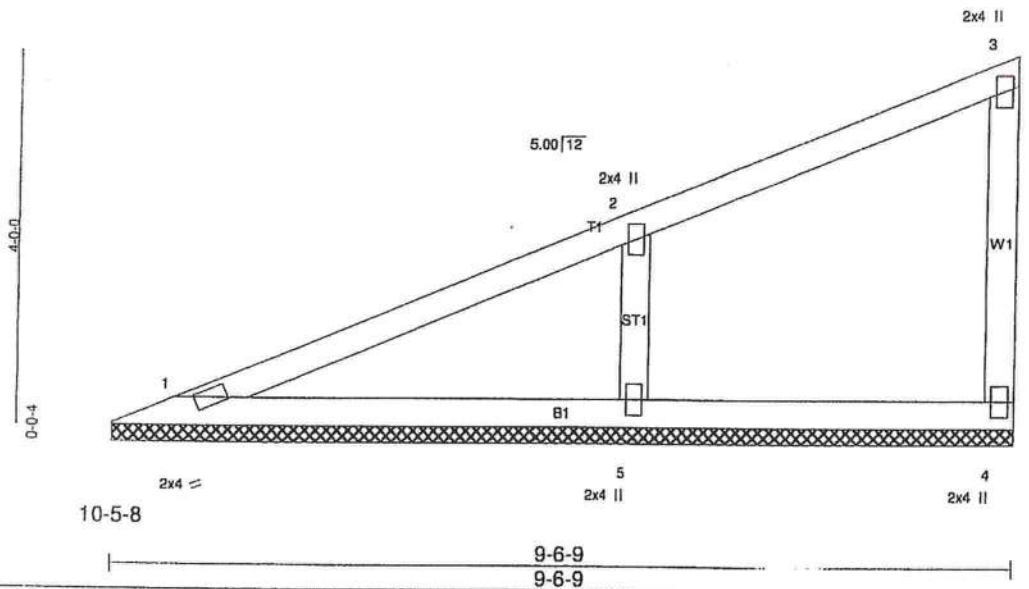

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 36 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

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

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

REACTIONS (lb/size) 1=116/9-6-9 (min. 0-1-8), 4=80/9-6-9 (min. 0-1-8), 5=310/9-6-9 (min. 0-1-8)
Max Horz 1=148(LC 10)
Max Uplift4=-38(LC 10), 5=-145(LC 10)
Max Grav 1=132(LC 2), 4=91(LC 2), 5=352(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-142/89, 2-3=-52/24, 3-4=-88/72
BOT CHORD 1-5=-6/11, 4-5=-6/11
WEBS 2-5=-316/236

NOTES (6)
1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 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 38 lb uplift at joint 4 and 145 lb uplift at joint 5.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V30X	GABLE	1	1	Job Reference (optional)	

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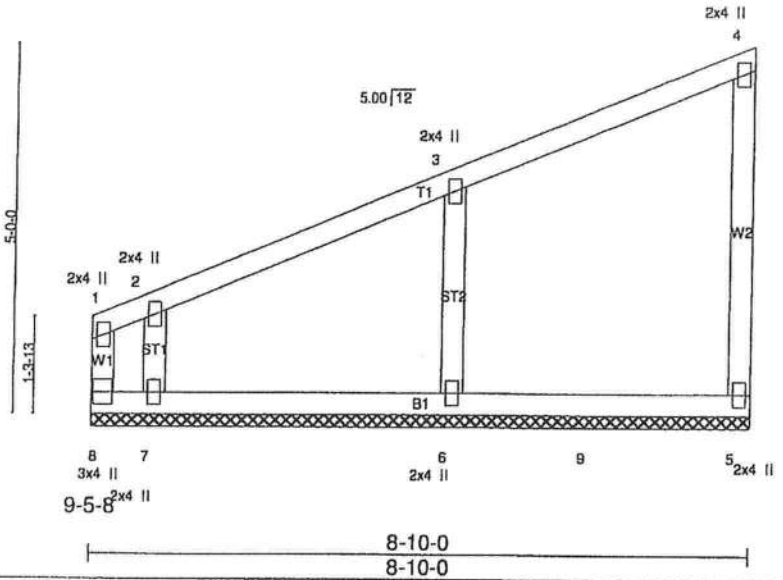


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 41 lb	FT = 0%

LUMBER

TOP CHORD	2x4 SP 1500F 1.6E
BOT CHORD	2x4 SP 1500F 1.6E
WEBS	2x4 SP 1500F 1.6E
OTHERS	2x4 SP 1500F 1.6E

BRACING

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

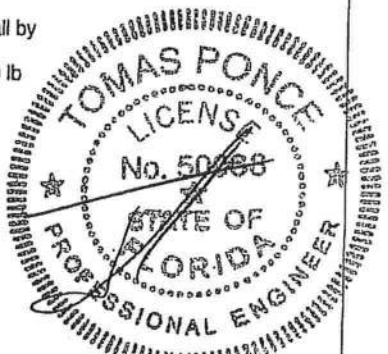
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 8=-38/8-10-0 (min. 0-1-8), 5=141/8-10-0 (min. 0-1-8), 6=263/8-10-0 (min. 0-1-8), 7=189/8-10-0 (min. 0-1-8)
Max Horz 8=145(LC 10)
Max Uplift 8=-58(LC 2), 5=-49(LC 10), 6=-108(LC 10), 7=-339(LC 10)
Max Grav 8=322(LC 10), 5=141(LC 1), 6=280(LC 2), 7=233(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-257/160, 1-2=-251/147, 2-3=-127/74, 3-4=-50/26, 4-5=-101/80
BOT CHORD 7-8=-8/14, 6-7=-8/14, 6-9=-8/14, 5-9=-8/14
WEBS 3-6=-266/206, 2-7=-283/315

NOTES (6)
1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 8, 49 lb uplift at joint 5, 108 lb uplift at joint 6 and 339 lb uplift at joint 7.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V31X	VALLEY	1	1	Job Reference (optional)	

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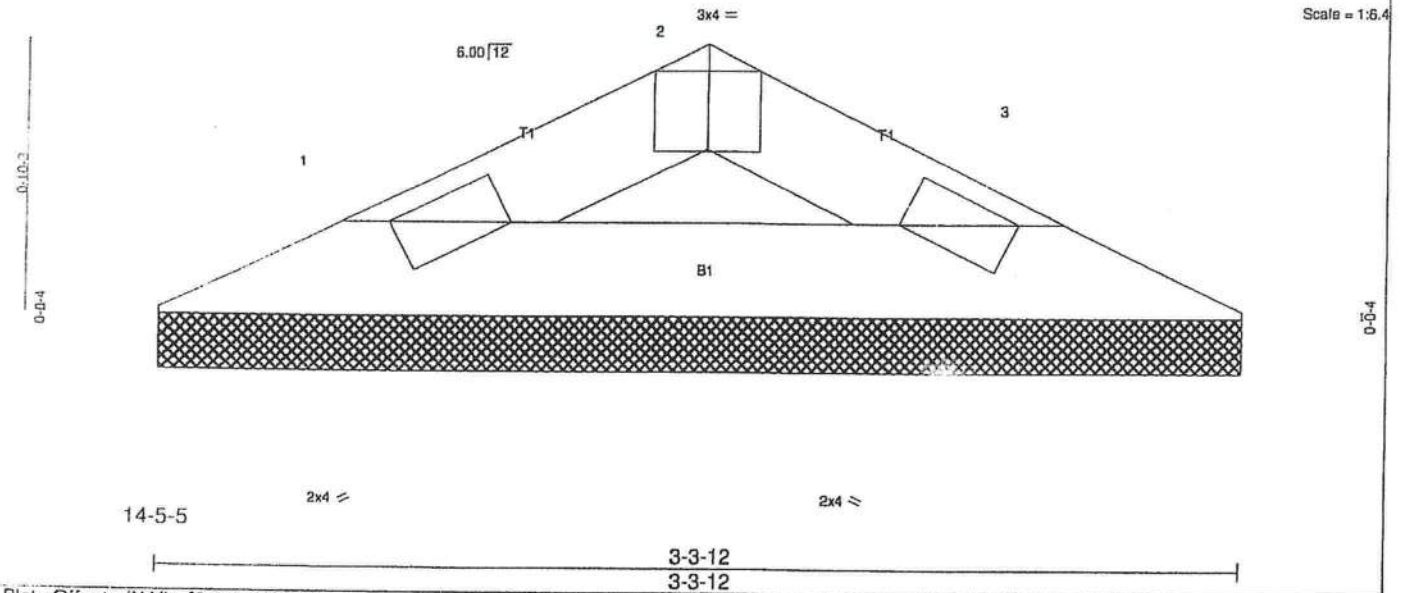

Plate Offsets (X,Y): [2:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 9 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=63/3-3-12 (min. 0-1-8), 3=63/3-3-12 (min. 0-1-8)
Max Horz 1=-9(LC 6)
Max Uplift1=-17(LC 10), 3=-17(LC 11)
Max Grav 1=71(LC 2), 3=71(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-82/53, 2-3=-82/53
BOT CHORD 1-3=-32/60

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 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 17 lb uplift at joint 1 and 17 lb uplift at joint 3.
7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V32X	GABLE	1	1	Job Reference (optional)	

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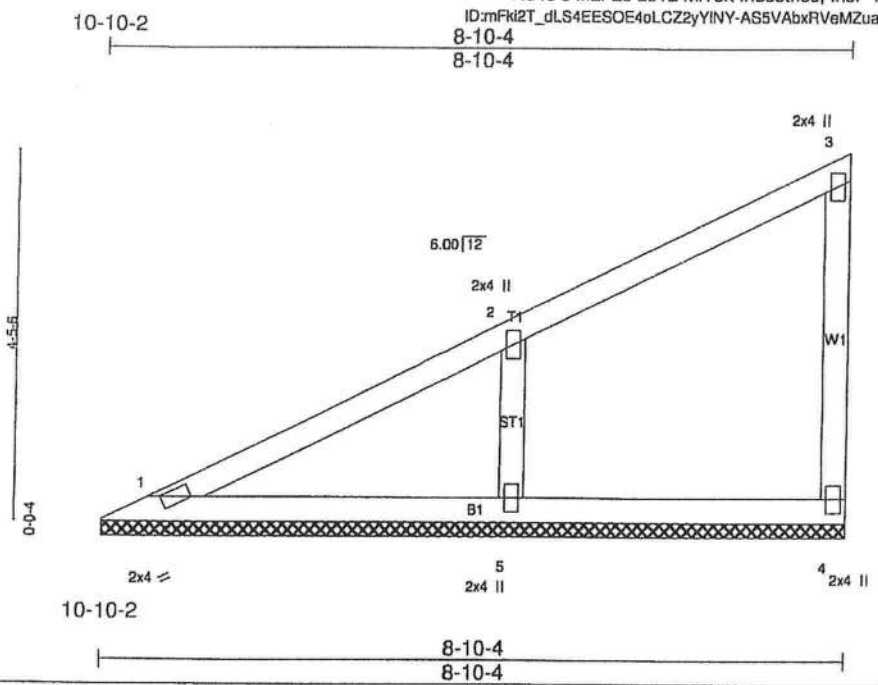


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 36 lb	FT = 0%

LUMBER

TOP CHORD	2x4 SP 1500F 1.6E
BOT CHORD	2x4 SP 1500F 1.6E
WEBS	2x4 SP 1500F 1.6E
OTHERS	2x4 SP 1500F 1.6E

BRACING

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

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

REACTIONS (lb/size) 1=96/8-10-4 (min. 0-1-8), 4=81/8-10-4 (min. 0-1-8), 5=295/8-10-4 (min. 0-1-8)
Max Horz 1=166(LC 10)
Max Uplift4=-42(LC 10), 5=-155(LC 10)
Max Grav 1=109(LC 2), 4=92(LC 2), 5=336(LC 2)

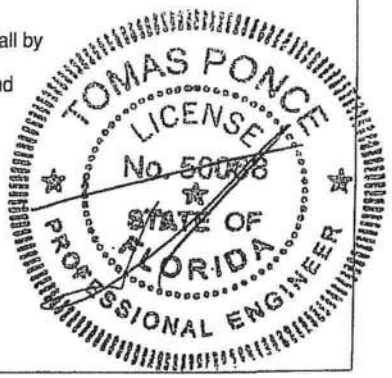
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-181/120, 2-3=-56/33, 3-4=-89/73
BOT CHORD	1-5=0/0, 4-5=0/0
WEBS	2-5=-327/267

NOTES (6)

1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 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 42 lb uplift at joint 4 and 155 lb uplift at joint 5.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V33X	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:41:47 2012 Page 1

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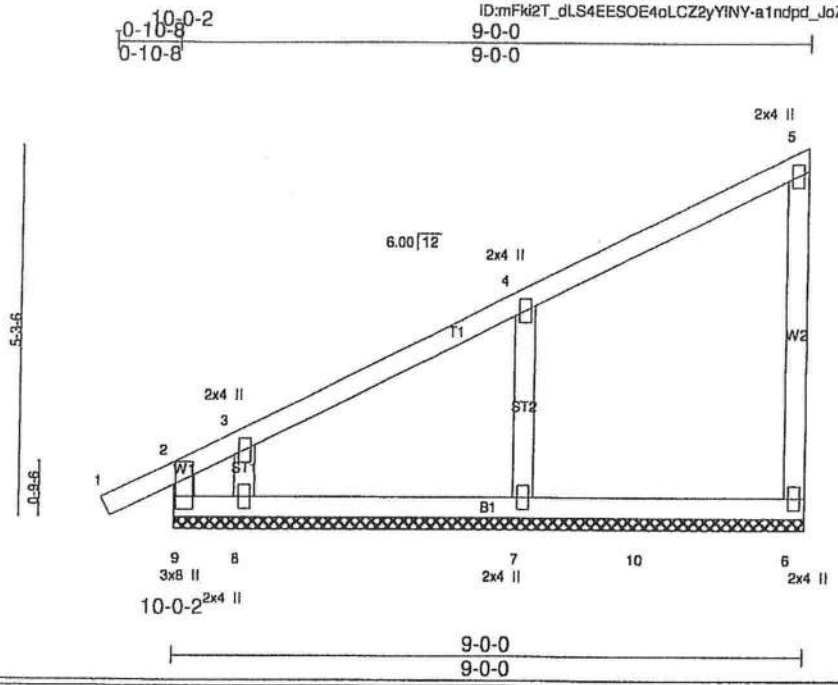

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.12	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 43 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

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

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

REACTIONS (lb/size) 9=43/9-0-0 (min. 0-1-8), 6=142/9-0-0 (min. 0-1-8), 7=268/9-0-0 (min. 0-1-8), 8=158/9-0-0 (min. 0-1-8)
Max Horz 9=195(LC 10)
Max Uplift 9=-72(LC 8), 6=-52(LC 10), 7=-124(LC 10), 8=-219(LC 10)
Max Grav 9=193(LC 10), 6=142(LC 1), 7=281(LC 2), 8=205(LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-9=-143/271, 1-2=0/22, 2-3=-259/182, 3-4=-161/93, 4-5=-59/35, 5-6=-103/84
BOT CHORD 8-9=-7/13, 7-8=-7/13, 7-10=-7/13, 6-10=-7/13
WEBS 4-7=-273/224, 3-8=-273/212

NOTES (6)
1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 9, 52 lb uplift at joint 6, 124 lb uplift at joint 7 and 219 lb uplift at joint 8.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluota, FL 32766 407-484-0037
SIERRA	V34X	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:41:50 2012 Page 1

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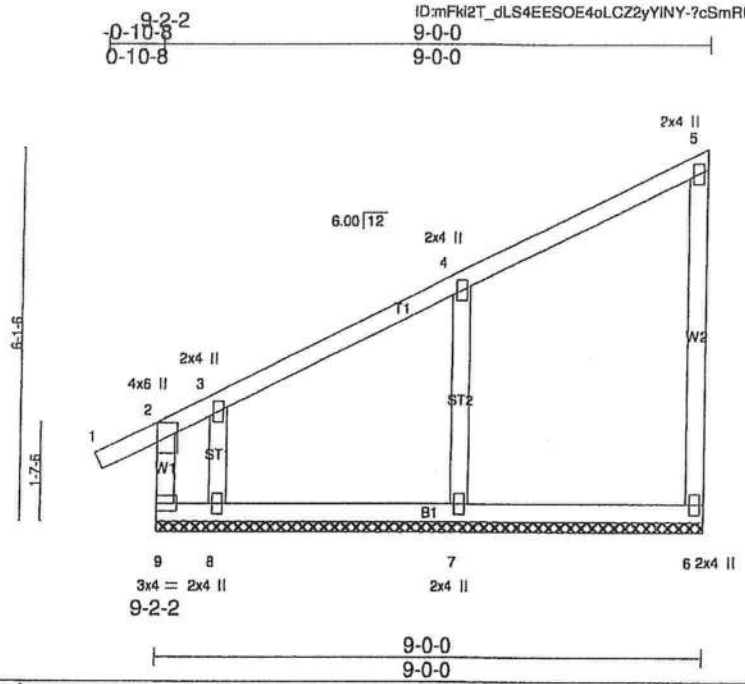


Plate Offsets (X,Y): [2:0-3-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.22	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	0.00	2	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 48 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

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

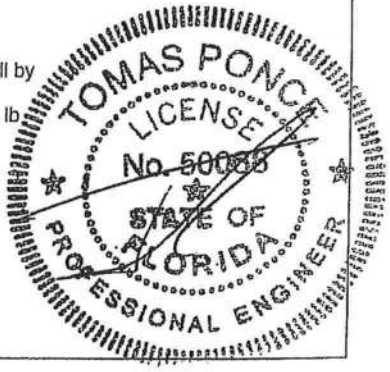
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=60/9-0-0 (min. 0-1-8), 6=151/9-0-0 (min. 0-1-8), 7=315/9-0-0 (min. 0-1-8), 8=136/9-0-0 (min. 0-1-8)
Max Horz 9=195(LC 10)
Max Uplift 9=-66(LC 8), 6=-57(LC 10), 7=-114(LC 10), 8=-423(LC 10)
Max Grav 9=390(LC 10), 6=151(LC 1), 7=315(LC 1), 8=196(LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-9=-231/305, 1-2=0/22, 2-3=-309/198, 3-4=-158/95, 4-5=-57/37, 5-6=-103/86
BOT CHORD 8-9=-9/11, 7-8=-9/11, 6-7=-9/11
WEBS 4-7=-273/219, 3-8=-292/331

NOTES (6)
1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 9, 57 lb uplift at joint 6, 114 lb uplift at joint 7 and 423 lb uplift at joint 8.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V35X	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:41:53 2012 Page 1

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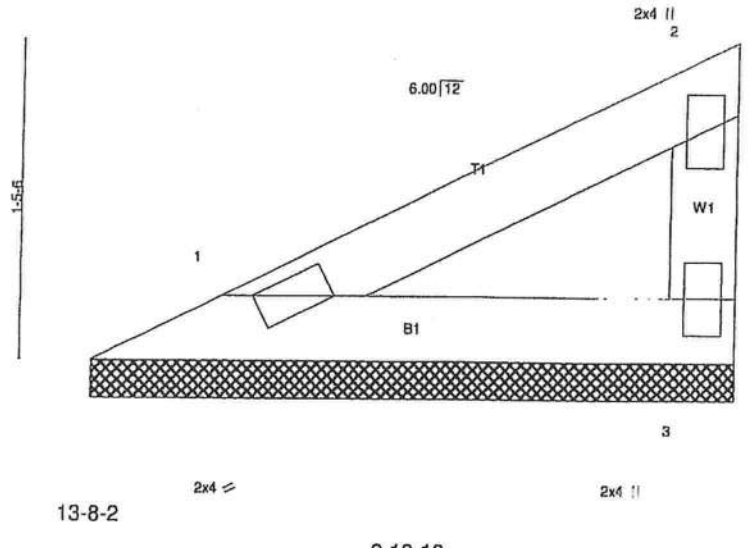


Scale = 1:9.2

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 9 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

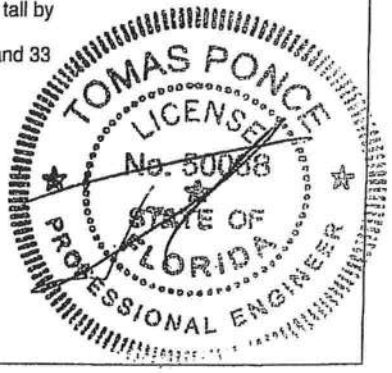
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=62/2-10-12 (min. 0-1-8), 3=62/2-10-12 (min. 0-1-8)
Max Horz 1=43(LC 10)
Max Uplift 1=-11(LC 10), 3=-33(LC 10)
Max Grav 1=70(LC 2), 3=70(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-33/29, 2-3=-72/58
BOT CHORD 1-3=0/0

NOTES (6)
1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 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 11 lb uplift at joint 1 and 33 lb uplift at joint 3.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V36X	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:41:56 2012 Page 1
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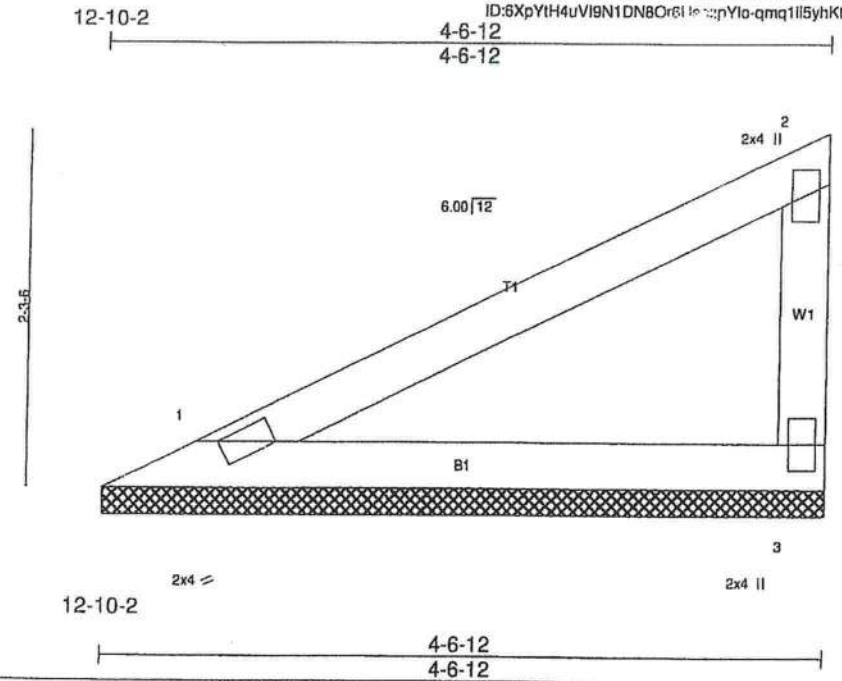

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 16 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=110/4-6-12 (min. 0-1-8), 3=110/4-6-12 (min. 0-1-8)
Max Horz 1=77(LC 10)
Max Uplift 1=-19(LC 10), 3=-58(LC 10)
Max Grav 1=125(LC 2), 3=125(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-59/51, 2-3=-129/104
BOT CHORD 1-3=0/0

NOTES (6)
1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 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 19 lb uplift at joint 1 and 58 lb uplift at joint 3.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V37X	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:41:59 2012 Page 1

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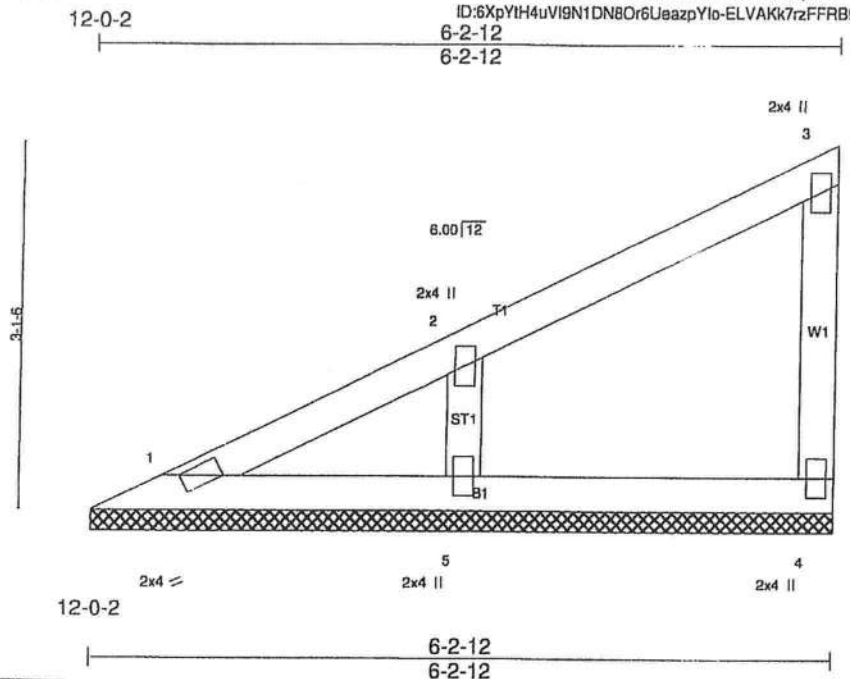


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 24 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

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

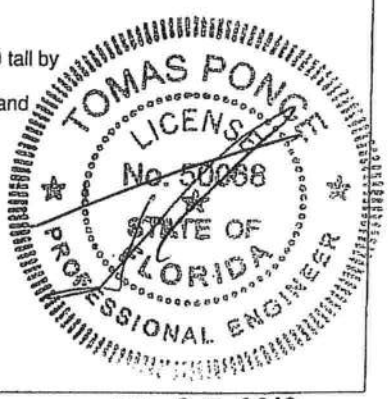
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=50/6-2-12 (min. 0-1-8), 4=68/6-2-12 (min. 0-1-8), 5=199/6-2-12 (min. 0-1-8)
Max Horz 1=111(LC 10)
Max Uplift4=-36(LC 10), 5=-105(LC 10)
Max Grav 1=57(LC 2), 4=77(LC 2), 5=227(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-131/89, 2-3=-42/30, 3-4=-78/63
BOT CHORD 1-5=0/0, 4-5=0/0
WEBS 2-5=-229/186

NOTES (6)
1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 tall by 1-0-0 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 36 lb uplift at joint 4 and 105 lb uplift at joint 5.
6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V38X	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:42:03 2012 Page 1

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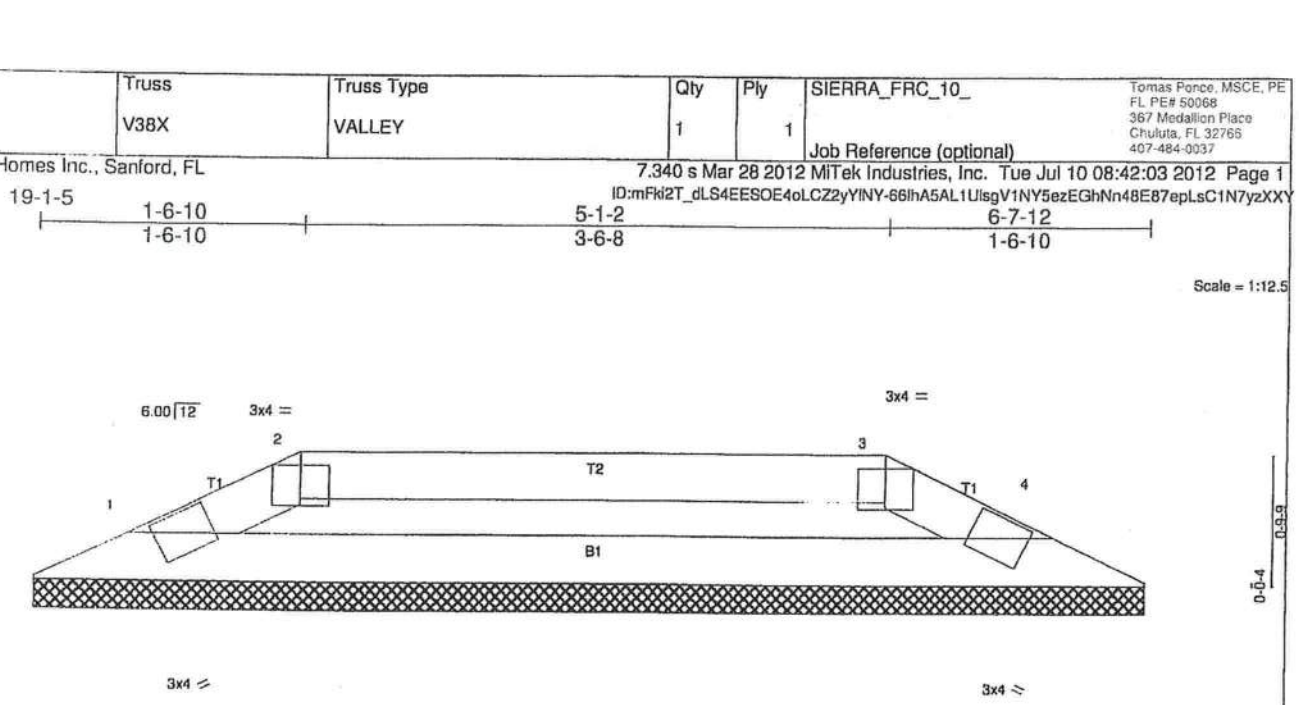

Plate Offsets (X,Y): [2:0-2-0,0-2-8], [3:0-2-0,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 19 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E

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

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

REACTIONS (lb/size) 1=159/6-7-12 (min. 0-1-8), 4=159/6-7-12 (min. 0-1-8)
Max Horz 1=-8(LC 8)
Max Uplift1=-43(LC 7), 4=-43(LC 6)
Max Grav 1=181(LC 2), 4=181(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-411/224, 2-3=-394/211, 3-4=-411/224
BOT CHORD 1-4=-185/382

NOTES (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1 and 43 lb uplift at joint 4.
8) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	V39X	GABLE	1	1	Job Reference (optional)	

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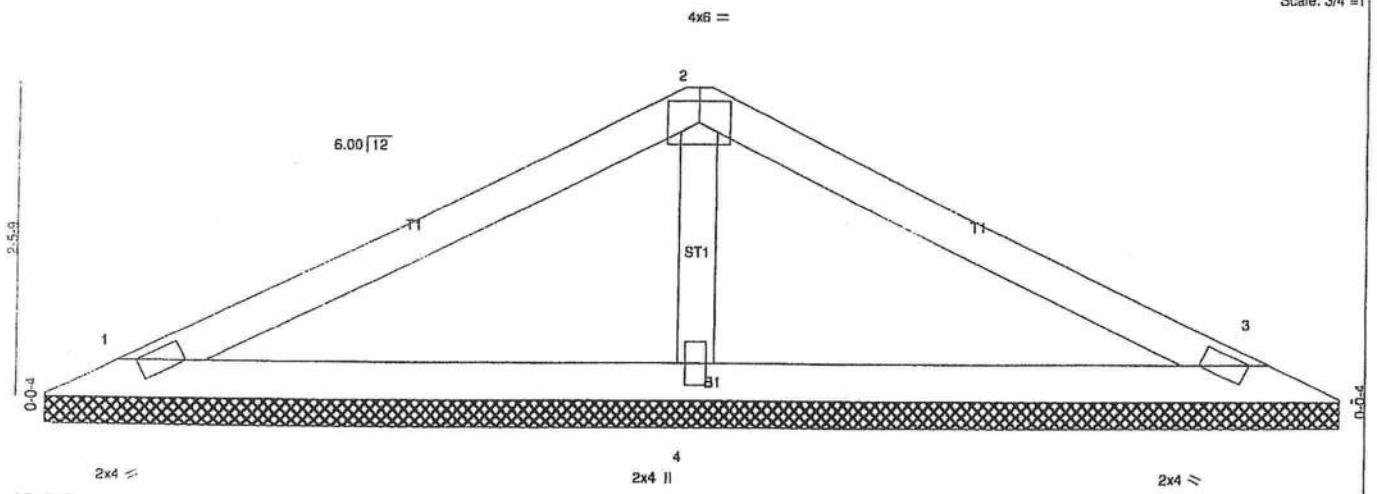
18-3-5

4-10-10 | 5-1-2 | 9-11-12

4-10-10 | 0-2-8 | 4-10-10

Scale: 3/4"=1'



18-3-5

9-11-12

9-11-12

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FRC2010/TPI2007		(Matrix)							Weight: 32 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E

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

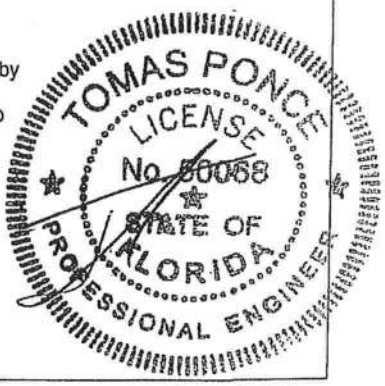
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=107/9-11-12 (min. 0-1-8), 3=107/9-11-12 (min. 0-1-8), 4=298/9-11-12 (min. 0-1-8)
Max Horz 1=36(LC 7)
Max Uplift 1=-39(LC 10), 3=-45(LC 11), 4=-60(LC 10)
Max Grav 1=127(LC 24), 3=127(LC 25), 4=338(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-74/50, 2-3=-74/49
BOT CHORD 1-4=-3/31, 3-4=-3/31
WEBS 2-4=-259/155

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 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 39 lb uplift at joint 1, 45 lb uplift at joint 3 and 60 lb uplift at joint 4.
7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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