

Maronda Systems

73

Maronda Systems 4005 Maronda Way Sanford FL 32771 (407) 321-0064 Fax (407) 321-3913
 Engineer/Architect of Record: Tomas Ponce P.E. 367 Medallion PL. Chuluota, FL 32766 FL PE # 50068
 Design Criteria: TPI Design: Matrix Analysis MiTek software

PLAN JOB #	LOT	ADDRESS	DIV/SUB	MODEL
9TM03201	32-1	350 W MULBERRY DR LAKE CITY, FL 32024	JAX-9TM	SRAC32B- RIGHT

SIERRA 'C 3BED revised 10-6-11
 W/10X18 HIP PORCH

This structure was designed in accordance with, and meets the requirements of TPI standards and the FLORIDA BUILDING CODE RESIDENTIAL 2010 for Vult=160 M.P.H., Vasd = 124 M.P.H. Wind Zone.

Truss loading is in accordance with ASCE 7-10. These trusses are designed for an enclosed building.
 Truss Designer/Architect/MiTek.

I, Tomas Ponce P.E. the Engineer of Record for the above referenced lot
 Have reviewed the package and confirmed that it matches the physical and structural
 Parameters found on the set of permit drawings.

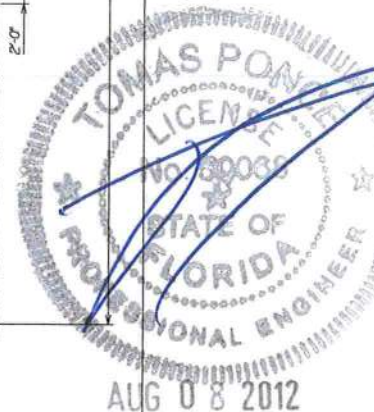
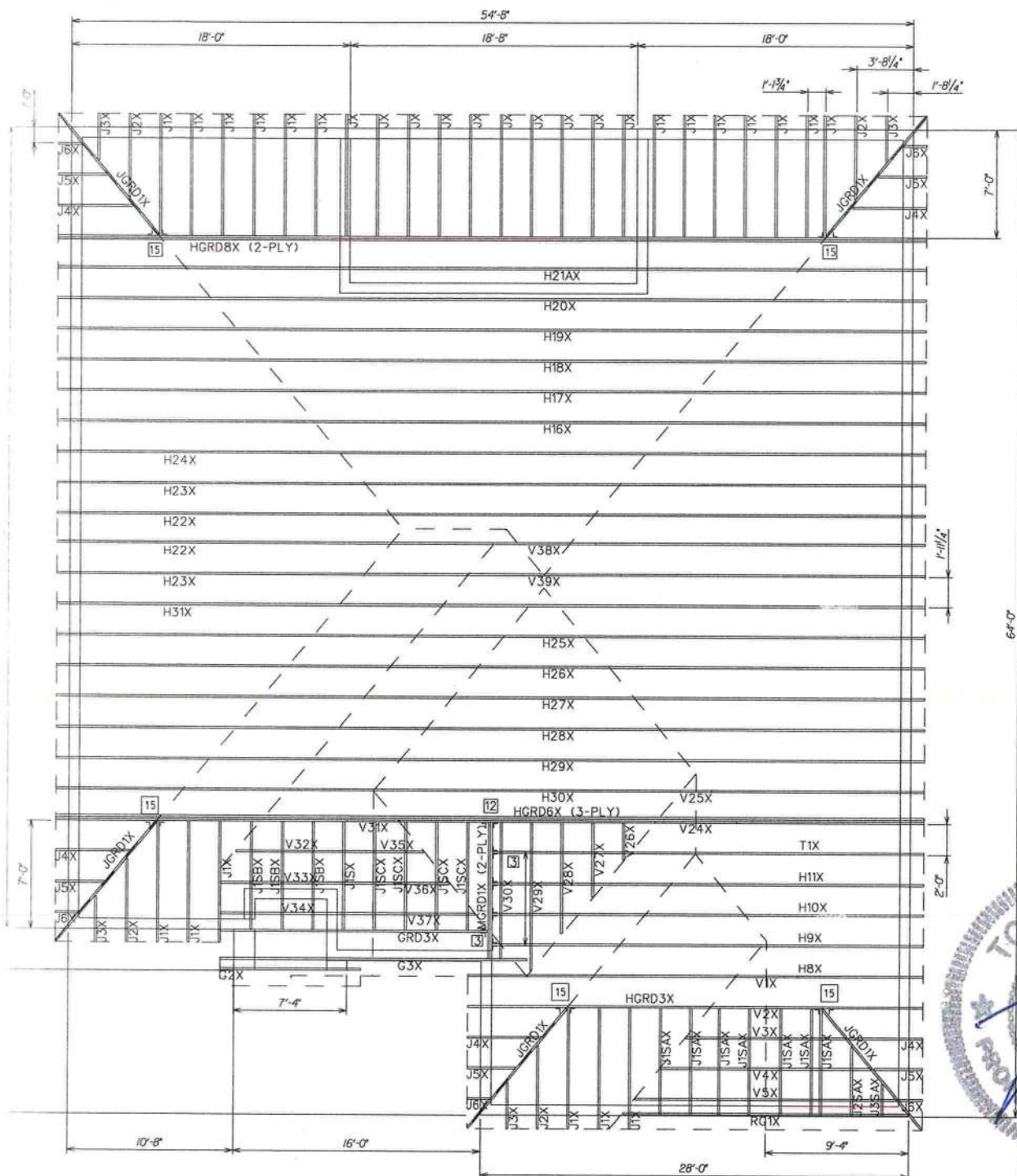


Truss ID	Run Date	Drawing Reviewed	Truss ID	Run Date	Drawing Reviewed	No. of Eng. Dwgs:	75
Layout	10/06/11	10/06/11	J1SAX	07/01/11	10/06/11	Roof Loads-	
BCSI-B1	2008	10/06/11	J1SBX	07/01/11	10/06/11		
B11	2011	10/06/11	J1SCX	10/03/11	10/06/11		
HIP TRUSS	02/09/09	10/06/11	J2X	07/01/11	10/06/11		
TOE NAIL	02/09/09	10/06/11	J2SAX	07/01/11	10/06/11		
VALLEY	12/07/09	10/06/11	J3X	07/01/11	10/06/11	TC Live: 16.0 psf TC Dead: 7.0 psf BC Live: 10.0 psf BC Dead: 10.0 psf Total 43.0 psf	
H22X	07/11/11	10/06/11	J3SAX	07/11/11	10/06/11		
H23X	07/11/11	10/06/11	J4X	07/01/11	10/06/11		
H24X	07/11/11	10/06/11	J5X	07/01/11	10/06/11		
H16X	07/11/11	10/06/11	J6X	07/01/11	10/06/11		
H17X	07/11/11	10/06/11	V1X	09/29/11	10/06/11	DurFac- Lbr: 1.25 DurFac- Plt: 1.25 O.C. Spacing: 24.0"	
H18X	07/11/11	10/06/11	V2X	09/29/11	10/06/11		
H19X	07/11/11	10/06/11	V3X	07/06/11	10/06/11		
H20X	07/11/11	10/06/11	V4X	07/06/11	10/06/11		
H21X	07/11/11	10/06/11	V5X	07/06/11	10/06/11		
H21AX	07/11/11	10/06/11	V24X	09/30/11	10/06/11	Floor Loads-	
H31X	10/04/11	10/06/11	V25X	09/30/11	10/06/11		
H25X	10/03/11	10/06/11	V26X	09/30/11	10/06/11		
H26X	10/03/11	10/06/11	V27X	09/30/11	10/06/11		
H27X	10/03/11	10/06/11	V28X	09/30/11	10/06/11		
H28X	10/03/11	10/06/11	V29X	09/30/11	10/06/11	TC Live: 40.0 psf TC Dead: 10.0 psf BC Live: 0.0 psf BC Dead: 5.0 psf Total 55.0 psf DurFac- Lbr: 1.00 DurFac- Plt: 1.00 O.C. Spacing: 24.0"	
H29X	10/03/11	10/06/11	V30X	09/29/11	10/06/11		
H30X	10/03/11	10/06/11	V31X	09/29/11	10/06/11		
H8X	07/01/11	10/06/11	V32X	09/29/11	10/06/11		
H9X	07/01/11	10/06/11	V33X	09/29/11	10/06/11		
H10X	07/01/11	10/06/11	V34X	09/29/11	10/06/11		
H11X	07/01/11	10/06/11	V35X	09/30/11	10/06/11		
HGRD6X	07/01/11	10/06/11	V36X	09/30/11	10/06/11		
HGRD8X	07/11/11	10/06/11	V37X	09/30/11	10/06/11		
HGRD3X	07/01/11	10/06/11	V38X	09/29/11	10/06/11		
T1X	07/01/11	10/06/11	V39X	09/29/11	10/06/11		
RG1X	07/06/11	10/06/11					
G2X	07/01/11	10/06/11					
G3X	07/01/11	10/06/11					
GRD3X	10/03/11	10/06/11					
JGRD1X	07/01/11	10/06/11	INV #	DESC	QNTY		
MGRD1X	10/03/11	10/06/11	050060.0110	JUS26	5		
JX	07/12/11	10/06/11	050060.0058	THJ26	5		
J1X	07/01/11	10/06/11	050060.0050	THD28-2	1		
J1SX	07/01/11	10/06/11	SEAT PLATES		136		
			FLOOR SEAT PLATES				



DATE: AUG 08 2012

1	HUS26
2	HUS28
3	JUS26
4	MP6F
5	MPA1 & MP
6	SKH26 L/F
7	SKHH26 L,
8	SUS26
9	SUS28
10	THD26
11	THD28
12	THD28-2
13	THDH28-3
14	THD48
15	THJ26**
16	LTW12
47	JL28IF-TZ
68	THD26-2



* HARDWARE MANUFACTURER
BY SIMPSON

* * HARDWARE MANUFACTURER
BY CLEVELAND

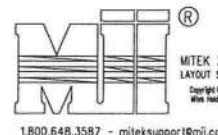
GARAGE: RIGHT

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

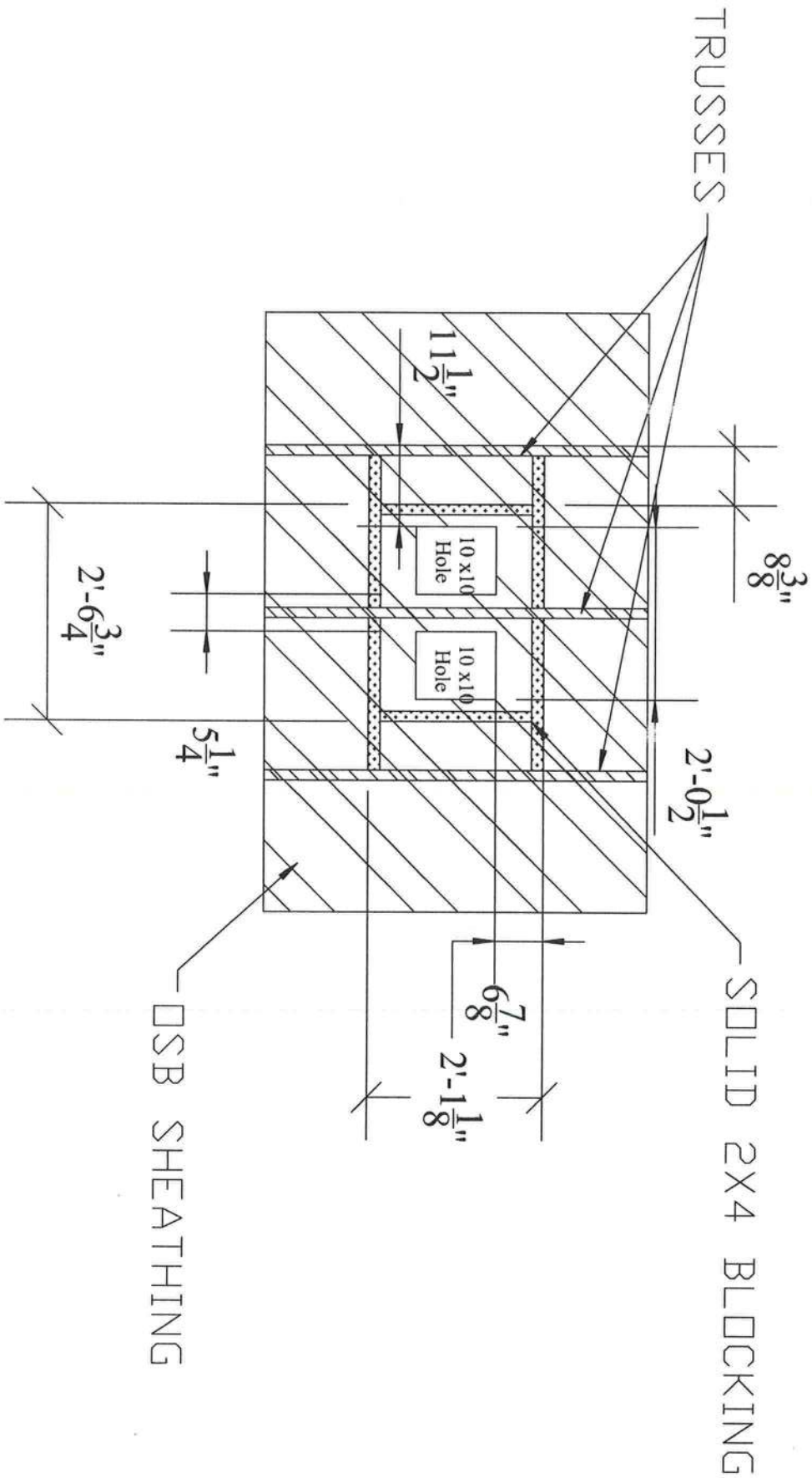
31 JUL 2012

TC LIVE	16.00	SNOW LOAD	0.00
TC DEAD	7.00	LUMBER DOL	1.25
BC LIVE	0.00	PLATE DOL	1.25
BC DEAD	10.00	WIND	160 Vasd/124
TOTAL	33.00	SPACING	2'-0"



1.800.648.3587 - miteksupport@mit.com

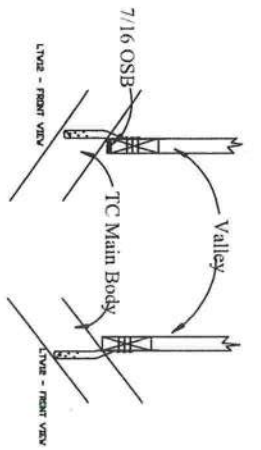
OFF-RIDGE INSTALLATION



LAMAND OFF RIDGE VENT FRAMING DETAIL

SHEET: OR1	TRUSS DETAILS OFF-RIDGE INSTALLATION		Maronda Homes (407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA	REVISIONS:
	DRAWN BY: J.FESSIA	GARAGE:		
	RELEASE DATE: 12/9/09			

NON-BEVELED
BOTTOM CHORD
NON-BEVELED
BOTTOM CHORD
NO-SHEATHING

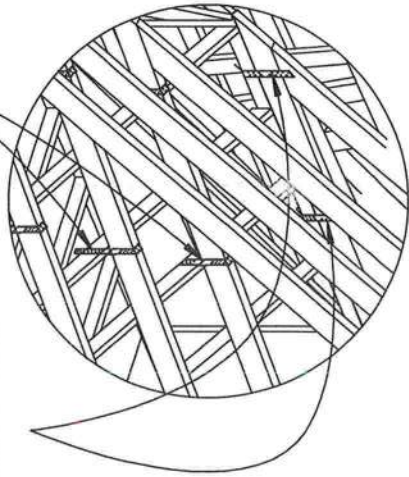


VALLEY CONNECTIONS

(ELEMENTS NOT SHOWN FOR CLARITY)

VALLEY KAT

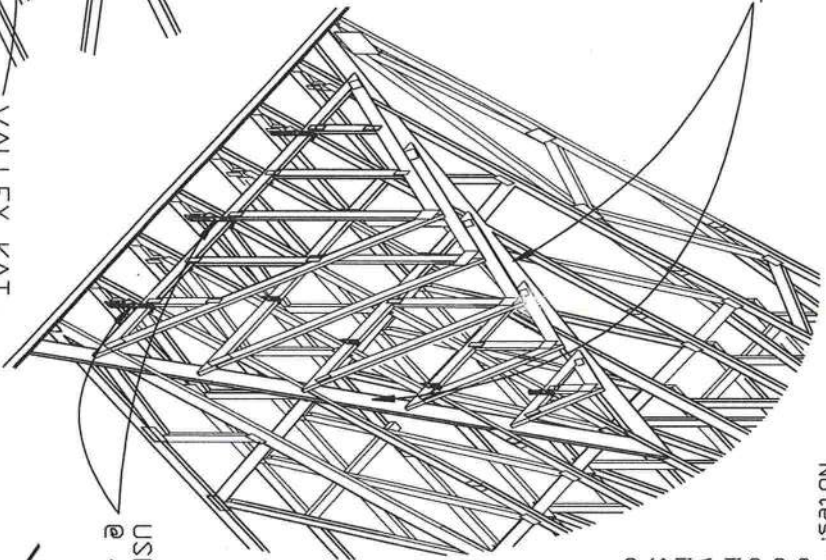
Notes: Valley trusses can be installed either a top main body roof trusses or a top 7/16 sheathing. Connections of strapping remain the same as illustrated. Valley kats are required when a top main body truss option is utilized.
See truss engineering and standard details for truss bracing requirements. Main body trusses 2'OC perpendicular to valley is considered to be continuous bearing. If sheathing exists under valleys, Sheathing is not required to be continuous. See NON BEVELED BOTTOM CHORD Detail



USP / MST12
@ 4'OC, TYP

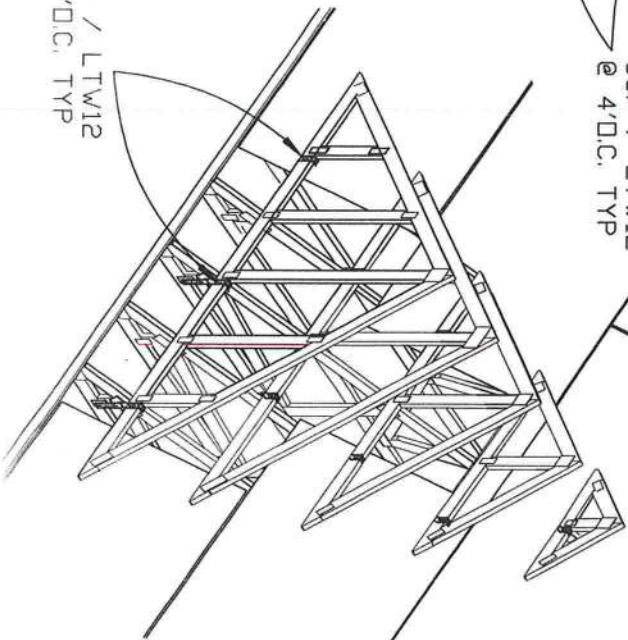
HIP KAT

VALLEY KAT



7/16 Sheathing

USP / LWT12
@ 4'OC, TYP



USP / LWT12
@ 4'OC, TYP

TRUSS DETAILS

VALLEY CONNECTIONS

DRAWN BY: J.FESSIA
RELEASE DATE: 12/7/09

GARAGE:

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(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

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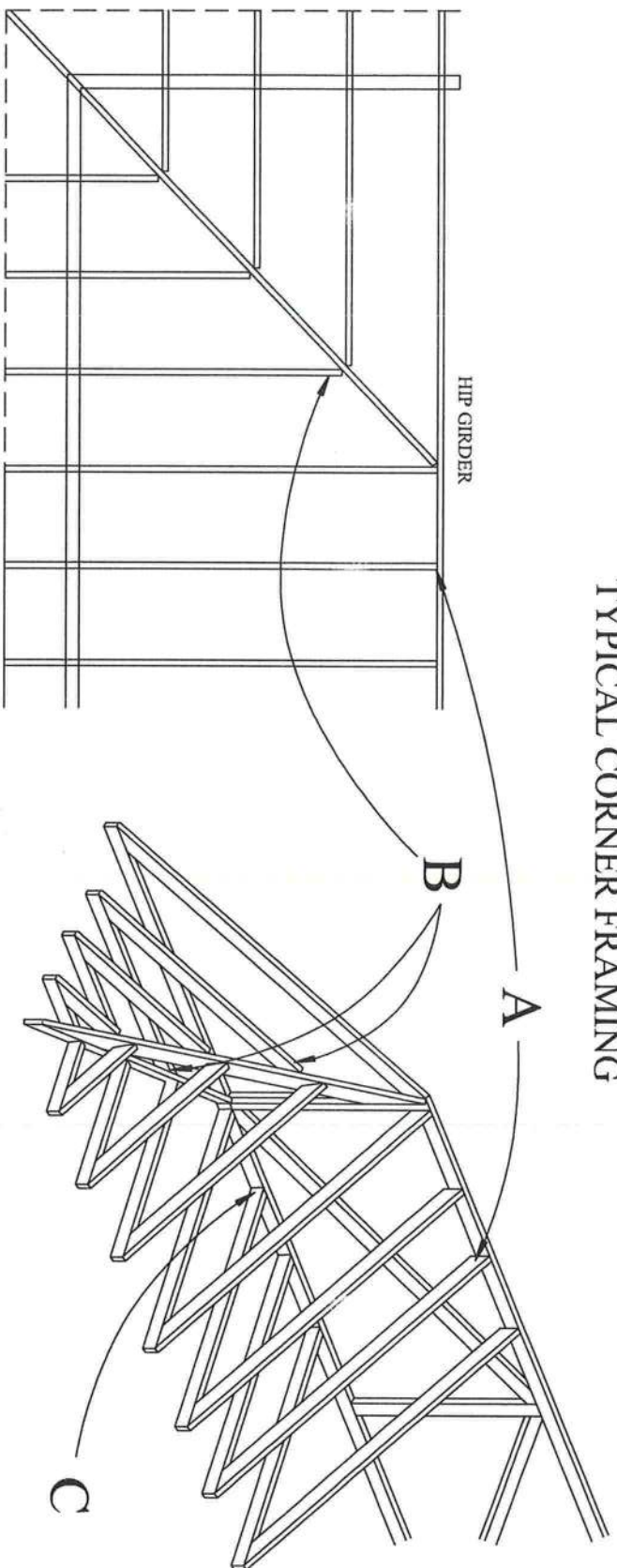
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DATE:

TOE-NAILED CONNECTIONS AT BEARING LOCATIONS

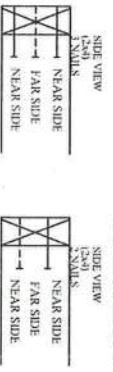
TYPICAL CORNER FRAMING



90 DEGREE ANGLE/SQUARE CUT

Connection at A

Connection at C



10d (0.131" x 3") nails

45 DEGREE ANGLE / SQUARE CUT

Connection at B



10d (0.131" x 3") nails

CONNECTION VALUES:

	GRAVITY	UPLIFT
(3)10D	222	355
(3)16D	383	614

Wind loading: Basic wind speed is 140 MPH.
Exposure category B or C.
Occupancy category II
4.8 psf top chord dead load.
4.2 psf bottom chord dead load.
25' roof height.
MWFRS gable end zone.
Enclosed building (Cond. I)
FBCR-07 TPI-02, ASCE 7-05
Duration of load is 1.60
L= NAIL LENGTH

TRUSS DETAILS

TOE-NAILED CONNECTIONS

DRAWN BY: GARAGE:
RELEASE DATE: 2/9/09

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

REVISIONS:

SHEET

TN1

PS TO SETTING TRUSSES

MEDIDAS DE LA INSTALACIÓN DE LOS TRUSSES

1. Install ground bracing. 2) Set first truss and attach securely to ground bracing. 3) Set next 4 trusses with short member temporary lateral restraint (see below). 4) Install top chord diagonal bracing (see below). 5) Install web member plane diagonal bracing to stabilize the first five trusses (see below). 6) Install bottom chord temporary lateral restraint and diagonal bracing (see below). 7) Repeat process on groups of four trusses until all trusses are set.

1) Instale los arriostres de tierra. 2) Instale el primero truss y ate seguramente al arriostre de tierra. 3) Instale los próximos 4 trusses con restricción lateral temporal de miembro corto (vea abajo). 4) Instale el arriostre diagonal de la cuerda superior (vea abajo). 5) Instale arriostre diagonal para los planos de los miembros secundarios para estabilice los primeros cinco trusses (vea abajo). 6) Instale la restricción lateral temporal y arriostre diagonal para la cuerda inferior (vea abajo). 7) Repita este procedimiento en grupos de cuatro trusses hasta que todos los trusses estén instalados.

Refer to BCSI-B2*** for more information.

Vea el resumen BCSI-B2*** para más información.

PAINT/BRACING FOR ALL PLANES OF TRUSSES

RESTRICCIÓN/ARRIOSTRE PARA TODOS PLANOS DE TRUSSES

The restraint & bracing method is for all trusses except 3x2 and 4x2 parallel chord trusses (PCTs). For top of next column for temporary restraint and bracing of PCTs.

El método de restricción y arriostre es para todo trusses excepto trusses de cuerdas paralelas (PCTs) 3x2 y 4x2. Vea la parte superior de la columna para la restricción y arriostre temporal de PCTs.

TOP CHORD — CUERDA SUPERIOR

Truss Span Longitud de Tramo	Top Chord Temporary Lateral Restraint (TCTLR) Spacing Espaciamiento del Arriostre Temporal de la Cuerda Superior
Up to 30' (9.1 m)	10' (3 m) o.c. max.
30' (9.1 m) – 45' (13.7 m)	8' (2.4 m) o.c. max.
45' (13.7 m) – 60' (18.3 m)	6' (1.8 m) o.c. max.
60' (18.3 m) – 80' (24.4 m)*	4' (1.2 m) o.c. max.

Consult a Registered Design Professional for trusses longer than 60' (18.3 m).
Consulte a un Profesional Registrado de Diseño para trusses más largas.

Refer to BCSI-B2*** for TCTLR options.

Vea el BCSI-B2*** para las opciones de TCTLR.

Refer to BCSI-B3***

for Gable End Frame re-

straint/bracing/ reinforcement

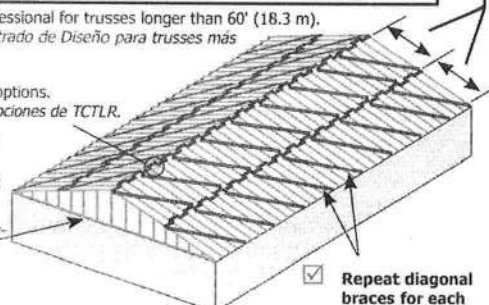
information.

Para información sobre restric-

ción/arriostre/refuerzo para

marcos de cabecera vea el

resumen BCSI-B3***



Note: Ground bracing not shown for clarity.

Repeat diagonal braces for each set of 4 trusses.
Repita los arriostres diagonales para cada grupo de 4 trusses.

WEB MEMBER PLANE — PLANO DE LOS MIEMBROS SECUNDARIOS

GENERAL RESTRAINT

DIAGONAL BRACING

VERY IMPORTANT

RESTRICCIÓN

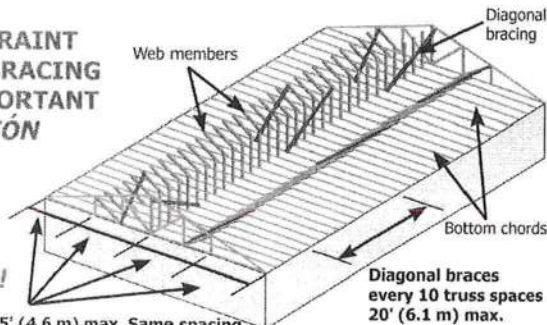
GENERAL Y EL

ARRIOSTRE

DIAGONAL

ES MUY

IMPORTANTES!



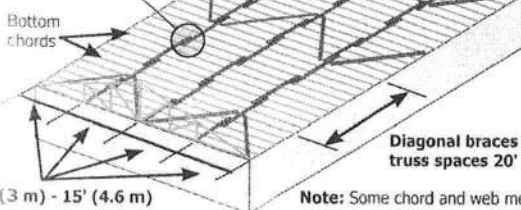
10' (3 m) - 15' (4.6 m) max. Same spacing as bottom chord lateral restraint

Diagonal braces every 10 truss spaces 20' (6.1 m) max.

Note: Some chord and web members not shown for clarity.

BOTTOM CHORD — CUERDA INFERIOR

Temporary Lateral Restraints - 2x4x12' or greater lapped over two trusses.



Diagonal braces every 10 truss spaces 20' (6.1 m) max.

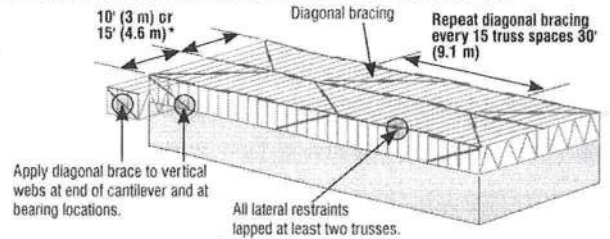
Note: Some chord and web members not shown for clarity.

RESTRAINT & BRACING FOR 3x2 AND 4x2 PARALLEL CHORD TRUSSES

RESTRICCIÓN Y ARRIOSTRE PARA TRUSSES DE CUERDAS PARALELAS 3X2 Y 4X2

NOTICE Refer to BCSI-B7*** for more information.

Vea el resumen BCSI-B7*** para más información.



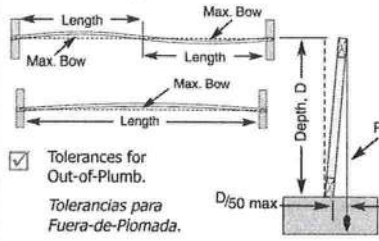
Apply diagonal brace to vertical webs at end of cantilever and at bearing locations.

All lateral restraints lapped at least two trusses.

*Top chord temporary lateral restraint spacing shall be 10' (3 m) o.c. max. for 3x2 chords and 15' (4.6 m) o.c. for 4x2 chords.

INSTALLING — INSTALACIÓN

✓ Tolerances for Out-of-Plane.
Tolerancias para Fuera-de-Plano.



✓ Tolerances for Out-of-Plumb.
Tolerancias para Fuera-de-Plomada.

CONSTRUCTION LOADING

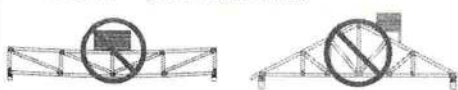
CARGA DE CONSTRUCCIÓN

DO NOT proceed with construction until all lateral restraint and bracing is securely and properly in place.

NO proceda con la construcción hasta que todas las restricciones laterales y los arriostres estén colocados en forma apropiada y segura.

DO NOT exceed maximum stack heights. Refer to BCSI-B4*** for more information.

NO exceda las alturas máximas de montón. Vea el resumen BCSI-B4*** para más información.



DO NOT overload small groups or single trusses.
NO sobrecargue pequeños grupos o trusses individuales.

NEVER stack materials near a peak or at mid-span.
NUNCA amontone los materiales cerca de un pico.

Place loads over as many trusses as possible.
Coloque las cargas sobre tantos trusses como sea posible.

Position loads over load bearing walls.
Coloque las cargas sobre las paredes soportantes.

ALTERATIONS — ALTERACIONES

NOTICE Refer to BCSI-B5.***

Vea el resumen BCSI-B5.***

DO NOT cut, alter, or drill any structural member of a truss unless specifically permitted by the truss design drawing.

NO corte, altere o perforo ningún miembro estructural de un truss, a menos que esté específicamente permitido en el dibujo del diseño del truss.

NOTICE Trusses that have been overloaded during construction or altered without the Truss Manufacturer's prior approval may render the Truss Manufacturer's limited warranty null and void.

Trusses que se han sobrecargado durante la construcción o han sido alterados sin la autorización previa del Fabricante de Trusses, pueden hacer nulo y sin efecto la garantía limitada del Fabricante de Trusses.

***Contact the Component Manufacturer for more information or consult a Registered Design Professional for assistance.
To view a non-printing PDF of this document, visit www.sbciindustry.com/b1.

NOTE: The truss manufacturer and truss designer rely on the presumption that the contractor and crane operator (if applicable) are professionals with the capability to undertake the work they have agreed to do on any given project. If the contractor believes it needs assistance in some aspect of the construction project, it should seek assistance from a competent party. The methods and procedures outlined in this document are intended to ensure that the overall construction techniques employed will put the trusses into place SAFELY. These recommendations for handling, installing, restraining and bracing trusses are based upon the collective experience of leading personnel involved with truss design, manufacture and installation, but must, due to the nature of responsibilities involved, be presented only as a GUIDE for use by a qualified building designer or contractor. It is not intended that these recommendations be interpreted as superior to the building designer's design specification for handling, installing, restraining and bracing trusses and it does not preclude the use of other equivalent methods for restraining/bracing and providing stability for the walls, columns, floors, roofs and all the interrelated structural building components as determined by the contractor. Thus, WTCA and TPI expressly disclaim any responsibility for damages arising from the use, application, or reliance on the recommendations and information contained herein.



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703/683-1010 • www.tpinet.org

B1WARN11x17 090928

- WARNING!** Disregarding Permanent Restraint/Bracing is a major cause of truss field performance problems and has been known to lead to roof or floor systems collapse.
- ADVERTENCIA!** Descuidar el Arriostre/Restricción Permanente es una causa principal de problemas de rendimiento del truss en campo y había conocido a llevar al derrumbamiento del sistema del techo o piso.
- CAUTION!** Spans over 60' may require complex permanent bracing. Please always consult a Registered Design Professional.
- ¡CUIDADO!** Tramos sobre 60 pies pueden requerir arriostre permanente complejo. Por favor, siempre consulte a un Profesional Registrado de Diseño.

RESTRAINT/BRACING MATERIALS & FASTENERS MATERIALES Y CIERRES DE RESTRICCIÓN/ARRIOSTRE

- Common restraint/bracing materials include wood structural panels, gypsum board sheathing, stress-graded lumber, proprietary metal products, and metal purlins and straps.
- Materiales comunes de arriostar/restringir incluyen paneles estructurales de madera, entablado de yeso, madera graduada por esfuerzo, productos de metal patentados, y vigas de soporte y tiras de metal.

MINIMUM ATTACHMENT REQUIREMENTS FOR LUMBER RESTRAINT/BRACING ^{1,2}		
Lumber Size	Minimum Nail Size	Minimum Number of Nails per Connection
2x4 stress-graded	10d (0.128x3") 12d (0.128x3.25") 16d (0.131x3.5")	2
2x6 stress-graded	10d (0.128x3") 12d (0.128x3.25") 16d (0.131x3.5")	3

¹ Other attachment requirements may be specified by the Truss Designer or Building Designer.
² The size and attachment for bracing materials such as wood structural panels, gypsum board sheathing, proprietary metal restraint/bracing products, and metal purlins and straps are provided by the Building Designer.

PERMANENT BRACING FOR THE VARIOUS PLANES OF A TRUSS ARRIOSTRE PERMANENTE PARA VARIOS PLANOS DE UN TRUSS

- Permanent Bracing is important because it,
- prevents out-of-plane buckling of truss members,
 - helps maintain proper truss spacing, and
 - resists and transfers lateral loads from wind and seismic forces.
- El arriostre Permanente es importante porque,
- impide el torcer fuera-de-plano de los miembros del truss,
 - ayuda en mantener espaciamento apropiado de los trusses, y
 - resiste y pasa las cargas laterales de viento y fuerzas sísmicas aplicadas al sistema del truss.

- Trusses require Permanent Bracing within ALL of the following planes:
- Top Chord Plane
 - Bottom Chord Plane
 - Web Member Plane
- Trusses requieren Arriostre Permanente dentro de TODOS los siguientes planos:
- Plano de la Cuerda Superior
 - Plano de la Cuerda Inferior
 - Plano del Miembro Secundario

- CAUTION!** Without Permanent Bracing the truss, or a portion of its members, will buckle (i.e., fail) at loads far less than design.
- ¡CUIDADO!** Sin el Arriostre Permanente, del truss, o un parte de los miembros, torcerán (ej. fallarán) de cargas muchas menos que las cargas que el truss es diseñado a llevar.

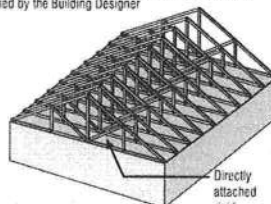
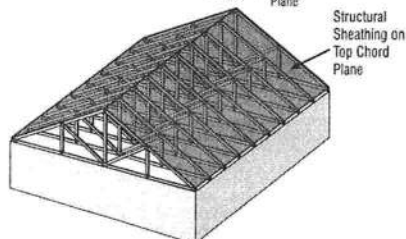
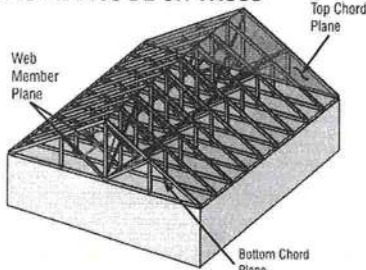
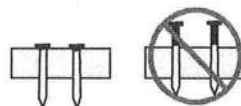
1. PERMANENT BRACING FOR THE TOP CHORD PLANE 1. ARRIOSTRE PERMANENTE PARA EL PLANO DE LA CUERDA SUPERIOR

- Use plywood, oriented strand board (OSB), or wood or metal structural purlins that are properly braced.
- Use contrachapado, panel de fibras orientadas (OSB), o vigas de soporte de madera o metal que son arriostrados apropiadamente.
- The Truss Design Drawing (TDD) provides information on the assumed support for the top chord.
- El Dibujo del Diseño de Truss (TDD) provee información sobre el soporte supuesto para la cuerda superior.

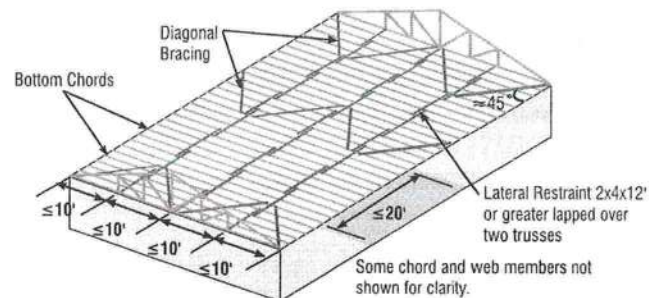
- Fastener size and spacing requirements and grade for the sheathing, purlins and bracing are provided in the building code and/or by the Building Designer.
- El tamaño de cierre y requisitos de espaciamento y grado para el entablado, vigas de soporte y arriostre son provistos en el código del edificio y/o por el Diseñador del Edificio.

2. PERMANENT BRACING FOR THE BOTTOM CHORD PLANE 2. ARRIOSTRE PERMANENTE PARA EL PLANO DE LA CUERDA INFERIOR

- Use rows of continuous Lateral Restraint with Diagonal Bracing, gypsum board sheathing or rigid ceiling.
- Use filas de Restricción Lateral Continua con Arriostre Diagonal, entablado de yeso o techo rígido.



- ✓ The TDD provides information on the assumed support for the bottom chord.
El TDD provee información sobre el soporte supuesto para la cuerda inferior.
- ✓ Install bottom chord permanent Lateral Restraint at the spacing indicated on the TDD and/or by the Building Designer with a maximum of 10' on center.
- Instale Restricción Lateral permanente de la cuerda inferior al espaciamento indicado en el TDD y/o por el Diseñador del Edificio con un máximo de 10 pies en centro.



Lateral Restraint and Diagonal Bracing used to brace the Bottom Chord Plane.

3. PERMANENT BRACING FOR THE WEB MEMBER PLANE
3. ARRIOSTRE PERMANENTE PARA EL PLANO DEL MIEMBRO SECUNDARIO
- Web Member Permanent Bracing collects and transfers buckling restraint forces and/or lateral loads from wind and seismic forces. The same bracing can often be used for both functions.
- Arriostre Permanente de los Miembros Secundarios recogen y pasan fuerzas de restricción y/o cargas laterales de viento y fuerzas sísmicas. A menudo el mismo arriostre puede ser usado para ambas funciones.

Individual Web Member Permanent Restraint & Bracing Restricción y Arriostre Permanente de Miembros Secundarios Individuales

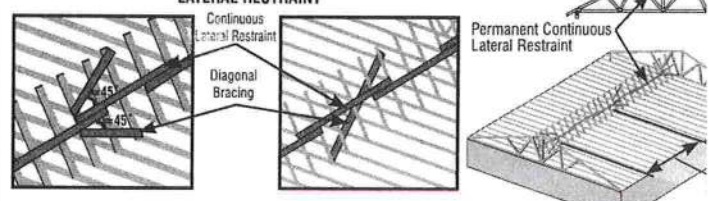
- ✓ Check the TDD to determine which web members (if any) require restraint to resist buckling.
Revisa el TDD para determinar cuales miembros secundarios (si algunos) requieren restricción para resistir el torcer.
- ✓ Restrain and brace with,
- Continuous Lateral Restraint & Diagonal Bracing, or
 - Individual Member Web Reinforcement.
- Restrinja y arriostre con,
- Restricción Lateral Continua y Arriostre Diagonal, o
 - Refuerzo de Miembros Secundarios Individuales.

A. Continuous Lateral Restraint (CLR) & Diagonal Bracing

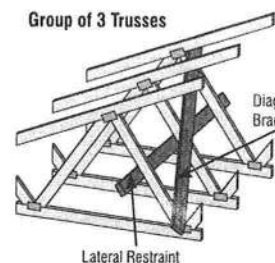
A. Restricción Lateral Continua (CLR) y Arriostre Diagonal

- ✓ Attach the CLR at the locations shown on the TDD.
Sujete el CLR en las ubicaciones mostrados en el TDD.
- ✓ Install the Diagonal Bracing at approximately 45° to the CLR and position so that it crosses web in close proximity to the CLR. Attach the Diagonal Brace as close to the Top and Bottom Chords as possible and to each web it crosses. Repeat every 20' or less.
- Instale el Arriostre Diagonal a aproximadamente 45 grados al CLR y lo coloque para que cruce la cuerda muy cerca del CLR. Sujete el Arriostre Diagonal como cercano a las cuerdas inferior superior como sea posible y a cada cuerda que lo cruza. Repita cada 20 pies o menos.

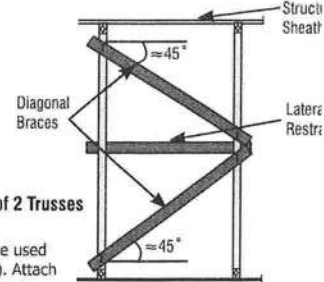
EXAMPLES OF DIAGONAL BRACING WITH CONTINUOUS LATERAL RESTRAINT



Group of 3 Trusses



Group of 2 Trusses



- ✓ Lateral Restraint & Diagonal Bracing can also be used with small groups of trusses (i.e., three or less). Attach the Lateral Restraint & Diagonal Brace to each web member that they cross.
- Restricción Lateral y Arriostre Diagonal también puede ser usado con grupos pequeños de trusses (ej. tres o menos). Sujete la Restricción Lateral y el Arriostre Diagonal a cada miembro secundario que los cruzan.

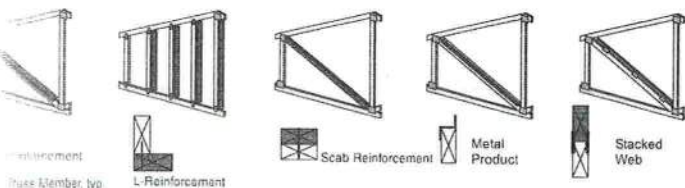
DIAGONALLY BRACE THE CONTINUOUS LATERAL RESTRAINT!
ARRIOSTRE LA RESTRICCIÓN LATERAL CONTINUA DIAGONALMENTE!

Individual Web Member Reinforcement

Refuerzo de Miembros Secundarios Individuales

Scab, I-, U-Reinforcement, proprietary metal reinforcement and stacked web products provide an alternative for resisting web buckling.

Arriostre, I-, U-Refuerzo, refuerzo de metal patentando y productos de miembros secundarios apilados proveen una alternativa para resistir el torcer de los miembros secundarios.



The following table may be used unless more specific information is provided.

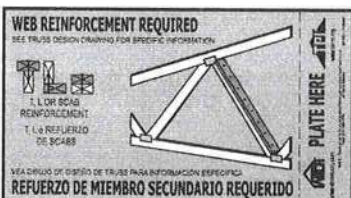
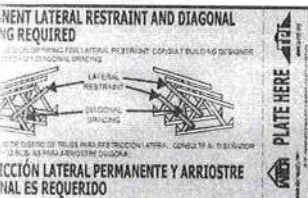
La siguiente tabla puede ser usada a menos que información más específica está provista.

WEB REINFORCEMENT FOR SINGLE PLY TRUSSES*

Reinforced CLR	Size of Truss Web	Type & Size of Web Reinforcement				Grade of Web Reinforcement	Minimum Length of Web Reinforcement	Minimum Connection of Web Reinforcement to Web
		T	L	Scab ²	I			
Same	2x4	2x4	2x4	2x4		Same species and grade or better than web member	90% of web or extend to within 6" (150 mm) of end of web member, whichever is greater	16d Gun nails (0.131x3.5") @ 6" (150 mm) on-center ²
	2x6	2x6	2x6	2x6				
Diff.	2x6	2x8	2x8	2x8				
	2x4	---	---	---	2-2x4			
Diff.	2x6	---	---	---	2-2x6			
	2x8	---	---	---	2-2x8			

* Reinforcement use 2 rows of 10d Gun nails (0.126x3") at 6" (150 mm) on-center to attach reinforcement to web

* Reinforcement use 2 rows of 10d Gun nails (0.126x3") at 6" (150 mm) on-center to attach reinforcement to web



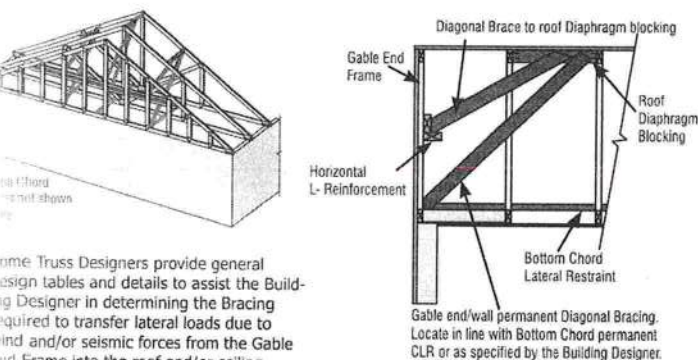
Some Truss Manufacturers mark the locations of the web Lateral Restraint or reinforcement on the truss using tags similar to those above.

Algunos Fabricantes de Trusses marcan en la truss las ubicaciones de refuerzo o Restricción lateral de miembros secundarios con etiquetas similares a las arriba.

Member Plane Permanent Building Stability Bracing to Transfer Wind & Seismic Forces
Arriostre de Estabilidad Permanente del Edificio del Plano de Miembros Secundarios para Pasaar Fuerzas de Viento y Fuerzas Sísmicas

The web member restraint or reinforcement specified on a TDD is required to resist buckling under vertical loads. Additional restraint and bracing is typically required to transfer lateral loads due to wind and/or seismic forces. This restraint and bracing is typically provided by the Building Designer.

La restricción o refuerzo de miembros secundarios especificada en un TDD es requerido a resistir el torcer bajo cargas verticales. Restricción y arriostre adicional es requerido típicamente para pasar cargas laterales debidas a fuerzas de viento y/o fuerzas sísmicas. Esta restricción y arriostre es típicamente provisto por el Diseñador del Edificio.



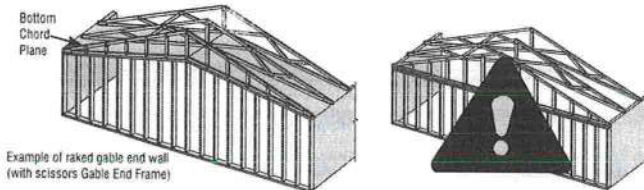
Some Truss Designers provide general Design tables and details to assist the Building Designer in determining the Bracing required to transfer lateral loads due to wind and/or seismic forces from the Gable End Frame into the roof and/or ceiling diaphragm.

Algunos Diseñadores de Trusses proveen tablas y detalles de diseño generales para asistir el Diseñador del Edificio en determinar el Arriostre requerido para pasar cargas laterales debidas a fuerzas de viento y/o fuerzas sísmicas del Armazón Hastial al diafragma del techo.

Gable End Frames and Sloped Bottom Chords
Armazones Hastiales Y Cuerdas Inferiores Pendientes

The Gable End Frame should always match the profile of the adjacent trusses to permit installation of proper Bottom Chord Plane restraint & bracing unless special bracing is designed to support the end wall.

El Armazón Hastial siempre debe encajar el perfil de los trusses contiguos para permitir la instalación de restricción y arriostre apropiada de la Cuerda Inferior a menos que arriostre especial es diseñado para soportar la pared de extremo.



CAUTION! Using a flat Bottom Chord Gable End Frame with adjacent Trusses that have sloped Bottom Chords is prohibited by some building codes as adequate bracing of this condition is difficult and sometimes impossible. Special end wall bracing design considerations are required by the Building Designer if the Gable End Frame profile does not match the adjacent Trusses.

¡CUIDADO! El uso de un Armazón Hastial de la Cuerda Inferior con Trusses contiguos cuales tienen Cuerdas Inferiores pendientes es prohibido por algunos códigos de edificios porque arriostre adecuado de esta condición es difícil y a veces imposible. Consideraciones especiales de diseño para el arriostre de la pared de extremo son requeridos por el Diseñador del Edificio si el perfil del Armazón Hastial no hace juego con los Trusses contiguos.

PERMANENT BRACING FOR SPECIAL CONDITIONS
ARRIOSTRE PERMANENTE PARA CONDICIONES ESPECIALES

Sway Bracing—Arriostre de "Sway"

"Sway" bracing is installed at the discretion of the Building Designer to help stabilize the truss system and minimize the lateral movement due to wind and seismic loads.

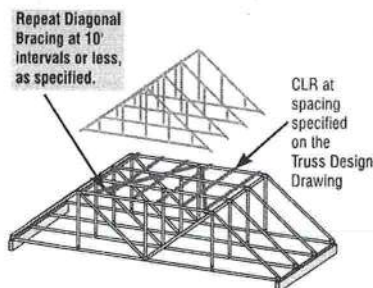
Arriostre de "Sway" está instalada por la discreción del Diseñador del Edificio para ayudar en estabilizar el sistema de trusses y para minimizar el movimiento lateral debido a cargas de viento y cargas sísmicas.

Sway bracing installed continuously across the building also serves to distribute gravity loads between trusses of varying stiffness.

Arriostre de "Sway" que es instalada continuamente a través del edificio también es usado para distribuir las cargas de gravedad entre trusses de rigidez variando.

Permanent Restraint/Bracing for the Top Chord in a Piggyback Assembly
Restricción/Arriostre Permanente para la Cuerda Superior en un Ensamblaje de Piggyback

- Provide restraint and bracing by:
 - using rows of 4x2 stress-graded lumber CLR and Diagonal Bracing, or
 - connecting the CLR into the roof diaphragm, or
 - adding Structural Sheathing or Bracing Frames, or
 - some other equivalent means.
- Provee restricción y arriostre por:
 - usando filas de 4x2 CLR madera graduada por esfuerzo y Arriostre Diagonal, o
 - conectando el CLR al diafragma del techo, o
 - añadiendo Entablado Estructural o Armazones de Arriostre, o
 - algunos otros métodos equivalentes.

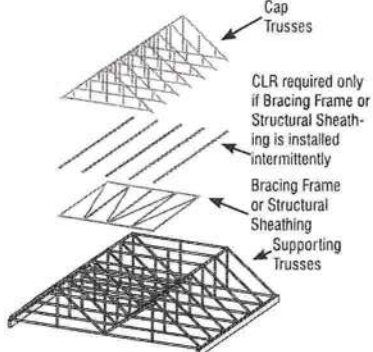


Refer to the TDD for the maximum assumed spacing for attaching the Lateral Restraint to the top chord of the supporting truss.

Refiere al TDD para el espaciamento máximo supuesto para sujetar la Restricción Lateral a la cuerda superior del truss soportante.

The TDD provides the assumed thickness of the restraint and minimum connection requirements between the cap and the supporting truss or restraint.

El TDD provee el grosor supuesto de la restricción y los requisitos de conexión mínimos entre la capa y el truss soportante o la restricción.



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B11 Fall Protection & Trusses

Protección de Caída y Trusses

Regulations and information on fall protection and erection/installation of trusses in residential construction is contained in Standard 29 CFR 1926 Subpart M from the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA). Section 1926.501(b)(13) of the OSHA Construction Standard states in part: "Each employee engaged in residential construction activities 6 feet or more above lower levels shall be protected by guardrail systems, scaffolding, a safety net system or a personal fall arrest system."

Las regulaciones e información sobre protección para caídas y levantamiento/instalación de entramados en construcción residencial vienen contenidos en Standard 29 CFR 1926 Subparte M del Departamento de Empleo (U.S. Department of Labor), Administración de Seguridad e Higiene Ocupacional (Occupational Safety and Health Administration, OSHA). La Sección 1926.501(b)(13) de OSHA Construction Standard establece en parte: "Cada empleado que participe en actividades de construcción residencial a 6 pies o más por encima de niveles inferiores deberán estar protegidos por sistemas de rampas de protección, andamiaje, un sistema de red de seguridad o un sistema de protección personal para detención de caídas".

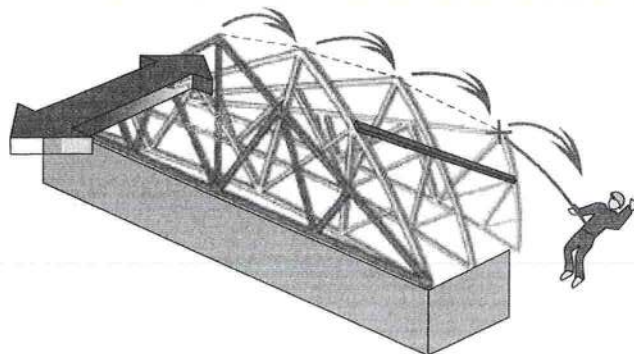
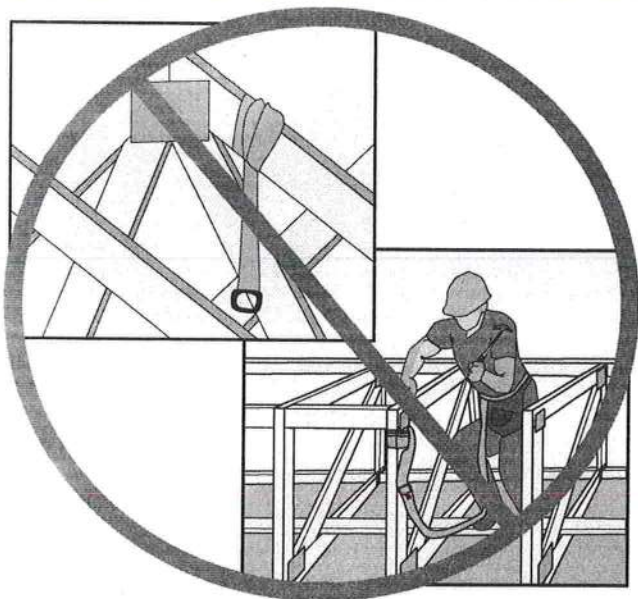
TRUSS SYSTEMS – SISTEMAS DE ENTRAMADO

⚠ DANGER Inadequately braced and sheathed truss systems used as an anchorage point for any type of personal fall arrest system is dangerous and will increase the risk of serious injury or death.

¡PELIGRO! Los sistemas de entramado apuntalados y forrados de forma inadecuada que se utilicen como punto de anclaje para cualquier tipo de sistema de protección personal para detención de caídas son peligrosos y aumentarán el riesgo de lesiones de gravedad o la muerte.

⚠ WARNING Trusses are not designed to resist lateral impact loads associated with falls. A falling worker attached to an inadequately braced and sheathed truss system could cause all the trusses in the system to collapse in a domino effect.

¡ADVERTENCIA! Los entramados no están diseñados para resistir las cargas de impacto lateral asociadas con las caídas. Un trabajador que se caiga que esté sujetado a un sistema de entramado apuntalado y forrado inadecuadamente podría provocar que todos los entramados en el sistema se colapsen con un efecto dominó.



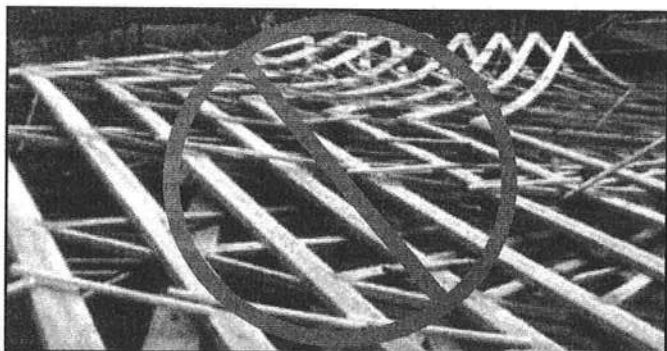
☑ Refer to BCSI-B1*** and BCSI-B2*** for recommendations on proper temporary restraint/bracing of trusses.

Consulte las recomendaciones que vienen en BCSI-B1*** y BCSI-B2*** sobre restricción/apuntalamiento apropiado de entramados.



⚠ DANGER Do not walk on unbraced trusses.

¡PELIGRO! No camine sobre entramados no apuntalados.





⚠ DANGER Do not walk on trusses or gable end frames lying flat.

¡PELIGRO! No camine sobre entramados ni estructuras de muro piñón dispuestos horizontalmente.



SITE-SPECIFIC JOB HAZARD ASSESSMENT

Fall protection and safety measures are jobsite and building specific. The appropriate fall protection method must be determined through a site-specific job hazard assessment (JHA) conducted by a qualified person (1) who can design, install, and use fall protection systems and is authorized to correct any problems. The JHA is intended to assist in identifying risks and identify the least hazardous way to install trusses for a particular job.

Fall protection hazards identified in the JHA shall be addressed with conventional methods whenever possible, including: guardrails, scaffolding, safety nets, personal fall arrest systems or catch platforms.

Employers must consider whether it is safer to design and install a safe work platform/system around a hazard.

EVALUACIÓN DE PELIGROS DE TRABAJOS EN SITIOS ESPECÍFICOS

La protección contra caídas y las medidas de seguridad son específicas para cada sitio de trabajo o edificio. El método apropiado para la protección contra caídas deberá determinarse siguiendo una evaluación de peligros en el trabajo (JHA) específicos, realizados por una persona que esté calificada (1) que pueda diseñar, instalar y utilizar sistemas de protección para caídas, y que esté autorizada para corregir cualquier problema. La JHA tiene el propósito de ayudar en la detección de riesgos e identificar la forma menos peligrosa para instalar entramados para un trabajo en particular.

Los peligros sobre protección de caídas identificados en la JHA serán tratados con métodos convencionales cuando sea posible como, por ejemplo: rampas de protección, andamiaje, redes de seguridad, sistema de protección personal para detención de caídas o plataformas de agarre.

Los empleados deberán considerar si es seguro diseñar e instalar una plataforma/sistema de trabajo seguro alrededor de un peligro.

⚠ WARNING All fall protection solutions come with their own inherent hazards during use.

¡ADVERTENCIA! Todas las soluciones de protección contra caídas vienen con sus propios peligros durante el uso

⚠ CAUTION Addressing fall protection hazards may be obvious, but other hazards must also be considered when choosing the appropriate site-specific fall protection systems. This includes tripping hazards from:

1. electrical cords;
2. pneumatic nail gun lines;
3. lumber used for wall and truss bracing; and,
4. truss storage approaches.

¡CAUCIÓN! La solución de peligros para la protección contra caídas puede ser obvia, pero deberán considerarse otros peligros al elegir los sistemas de protección contra caídas apropiados para un sitio específico. Esto incluye peligro de tropiezos a causa de:

1. cables eléctricos;
2. líneas de pistola engrapadora neumática;
3. madera utilizada para apuntalamiento de paredes y entramados; y
4. disposiciones de almacenamiento en entramados.

FALL PROTECTION EQUIPMENT INSTALLATION – INSTALACIÓN DE EQUIPO DE PROTECCIÓN CONTRA CAÍDAS

⚠ DANGER Trusses alone are NOT designed to SUPPORT fall protection equipment.

¡PELIGRO! Los entramados por sí solos NO están diseñados para SOSTENER el equipo de protección contra caídas.

- ☑ Refer to ANSI/ASSE Z359.2-2007, *Minimum Requirements for a Comprehensive Managed Fall Protection Program*, for guidance in meeting minimum fall protection equipment installation and use requirements. This standard refers to equipment only, and does not apply to the underlying structure to which the equipment is attached (2).

Consulte ANSI/ASSE Z359.2-2007, *Minimum Requirements for a Comprehensive Managed Fall Protection Program* (Requisitos mínimos para un programa completo de protección contra caídas) si desea información para el cumplimiento de los requisitos mínimos para la instalación y uso de equipo de protección contra caídas. Esta norma se refiere a equipo solamente, y no es aplicable a la estructura subyacente a la que esté acoplado el equipo. (2)

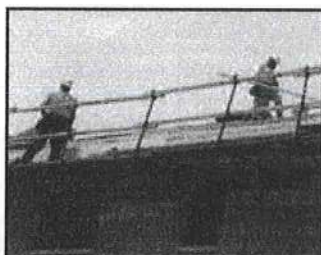
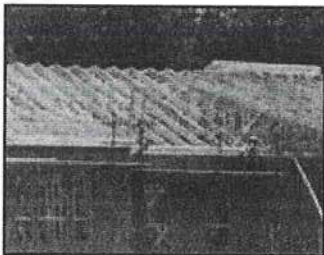
CAUTION While the equipment itself may resist the required fall forces, it is up to a qualified design professional to determine whether the structural system the fall protection equipment is attached to meets or exceeds this standard as well.

¡CAUCIÓN! Aunque el equipo en sí pueda resistir las fuerzas de caída requeridas, será responsabilidad de un profesional de diseño calificado determinar si el sistema estructural del equipo de protección contra caídas al que esté acoplado cumple o supera esta norma también.

Scaffolding – Andamiaje

Use of interior or exterior scaffolding as a fall arrest system is permitted, but installation and use must adhere to OSHA's requirements in 29 CFR 1926.500.

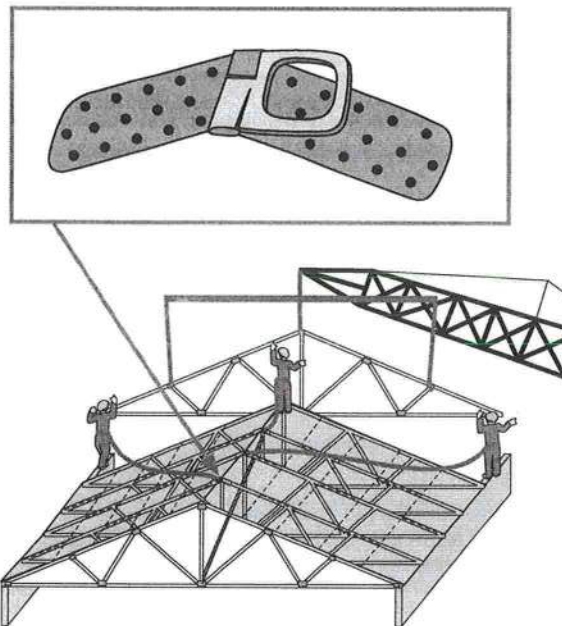
El uso de andamiaje interior o exterior como sistema para detención de caídas está permitido, pero la instalación y el uso deberá adherirse a los requisitos 29 CFR 1926.500 de OSHA.



Guard Rails – Rampas de protección

Use of guard rails along the perimeter of the work area as a fall arrest system is permitted, but installation and use must adhere to OSHA's requirements in 29 CFR 1926.500.

El uso de rampas de protección a lo largo del perímetro del área de trabajo como sistema para detención de caídas está permitido, pero la instalación y el uso deberá adherirse a los requisitos 29 CFR 1926.500 de OSHA.



Roof Peak Anchors – Anclajes de tejado

WARNING Completely laterally restrain and diagonally brace per *BCSI-B1**** and *BCSI-B2**** before installing a roof anchor for use as personal fall restraint system. Installation and use must adhere to OSHA's requirements in 29 CFR 1926.500

¡ADVERTENCIA! Debe restringirse lateralmente por completo y apuntalar diagonalmente, según *BCSI-B1**** y *BCSI-B2**** antes de instalar un anclaje de tejado para uso como sistema personal de restricción de caídas. La instalación y el uso deberá adherirse a los requisitos 29 CFR 1926.500 de OSHA.

WARNING It is always safest to sheath a section of the truss roof system before installing a roof anchor for use as a personal fall restraint system. Installation and use must adhere to OSHA's requirements in 29 CFR 1926.500.

¡ADVERTENCIA! Lo más seguro es forrar siempre una sección del sistema de tejado de entramado antes de instalar un anclaje de tejado para uso como sistema personal de restricción de caídas. La instalación y el uso deberá adherirse a los requisitos 29 CFR 1926.500 de OSHA.

ALTERNATIVE FALL PROTECTION PLANS – PLANES ALTERNATIVOS DE PROTECCIÓN CONTRA CAÍDAS

After conducting a JHA, if the qualified person is able to demonstrate that conventional fall protection measures are infeasible (3) or present a greater hazard (4) to a particular worker or the entire crew, an employer may implement a written alternative fall protection plan in compliance with residential construction fall protection under 29 CFR 1926.501(b)(13).

Después de realizar una evaluación JHA, si el evaluador calificado es capaz de demostrar que las medidas convencionales de protección contra caídas son irrealizables (3) o presentan un mayor peligro (4) para un trabajador en particular o la cuadrilla entera, un empleador puede implementar un plan de protección contra caídas alternativo por escrito en cumplimiento con 29 CFR 1926.501(b)(13) para protección contra caídas en construcción residencial.

The fall protection plan's alternative measures must apply to sufficiently trained and experienced workers (5), and the plan must meet the requirements of 29 CFR 1926.502(k) and be site-specific. The use of alternative measures shall be used in conjunction with conventional fall protection systems (6), and the use of alternative methods shall be as limited as possible.

Las medidas alternativas del plan de protección contra caídas deberán aplicarse a trabajadores suficientemente capacitados y experimentados(5), y el plan deberá cumplir los requisitos de 29 CFR 1926.502(k) y ser específicas para cada sitio. El uso de medidas alternativas se utilizará en conjunción con sistemas de protección contra caídas (6), y el uso de métodos alternativos será lo más limitado posible.

Ground Assembly – Montaje en el terreno

Pre-assemble a truss system on the ground. Fully laterally restrain and diagonally brace the bottom chord and web member planes and diagonally brace and sheath the top chord plane, per BCSI-B1*** and BCSI-B2***, for adequate stability. Lift and set in place. This pre-assembled section may then be used as a personal fall restraint anchorage point.

*Realice el montaje previo de un sistema de entramado en el terreno. Restrinja lateralmente por completo y apunte diagonalmente la cuerda inferior y los planos de la pieza de enrejado, y apunte diagonalmente y forre el plano de la cuerda superior, según BCSI-B1*** y BCSI-B2***, para conseguir la estabilidad adecuada. Alce y establezca en su lugar. Esta sección montada previamente podrá entonces utilizarse como un punto de anclaje de restricción personal.*



DEFINITIONS

(1) Under 29 CFR 1926.503(a)(2), a qualified person is one who should have knowledge, and be able to provide training to others, in the following areas: "the nature of fall hazards in the work area; the correct procedures for erecting, maintaining, disassembling, and inspecting the fall protection systems to be used; the use and operation of guardrail systems, personal fall arrest systems, safety net systems, warning line systems, safety monitoring systems, controlled access zones, and other protection to be used; the role of each employee in the safety monitoring system when this system is used; the limitations on the use of mechanical equipment during the performance of roofing work on low-sloped roofs; the correct procedures for the handling and storage of equipment and materials and the erection of overhead protection; and, the role of employees in fall protection plans."

(2) Commentary E5.4.2.2 of ANSI/ASSE Z359.2-2007 states, "The impact of fall forces on beams, columns and their supports other than anchorages are not addressed by this standard."

(3) Under 29 CFR 1926.500(b), infeasible means "that it is impossible to perform the construction work using a conventional fall protection system (i.e., guardrail system, safety net system, or personal fall arrest system) or that it is technologically impossible to use any one of these systems to provide fall protection."

(4) Under 29 CFR 1926.501(b)(13) it states, "there is a presumption that it is feasible and will not create a greater hazard to implement at least one of the [listed] fall protection systems. Accordingly, the employer has the burden of establishing that it is appropriate to implement a fall protection plan which complies with 1926.502(k) for a particular workplace situation, in lieu of implementing any of those systems."

(5) Under 29 CFR 1926.503(a)(1) it states, "the employer program shall enable each employee to recognize the hazards of falling and shall train each employee in the procedures to be followed in order to minimize these hazards."

(6) Under 29 CFR 1926.500(b), conventional fall protection systems are: "guardrail system, safety net system, or personal fall arrest system."

DEFINICIONES

(1) Bajo 29 CFR 1926.503(a)(2), una persona calificada es aquella que debe tener conocimientos y aptitud para proporcionar capacitación a otros, en las áreas siguientes: "la naturaleza de los peligros de caída en el área de trabajo; los procedimientos correctos para levantar, mantener, desmontar e inspeccionar los sistemas de protección contra caídas a utilizarse; el uso y la operación de sistemas de rampas de protección, sistemas personales para detención de caídas, sistemas de redes de seguridad, sistemas de líneas de advertencias, sistemas de monitoreo de seguridad, zonas de acceso controlado y otra protección a utilizarse; la función de cada empleado en el sistema de monitoreo de seguridad cuando se utilice este sistema; las limitaciones sobre el uso de equipos mecánicos durante la realización de trabajo en tejados de baja pendiente; los procedimientos correctos para el manejo y almacenamiento de equipo y materiales, y la construcción de protección superior; y la función de los empleados en planes de protección contra caídas".

(2) El comentario E5.4.2.2 de ANSI/ASSE Z359.2-2007 establece, "El impacto de las fuerzas de caída sobre vigas, columnas y sus soportes que no sean anclajes no se tratan en esta norma".

(3) Bajo 29 CFR 1926.500(b), irrealizable significa "que es imposible llevar a cabo el trabajo de construcción usando un sistema convencional de protección contra caídas (por ejemplo, sistemas de rampas de protección, sistema de red de seguridad o sistema de protección personal para detención de caídas), o que es tecnológicamente imposible usar cualquiera de estos sistemas para proporcionar protección contra caídas".

(4) Bajo 29 CFR 1926.501(b)(13) se establece, "hay una suposición de que es realizable y que no se creará un peligro mayor al implementar al menos uno de los sistemas de protección contra caídas [indicados]. Por consiguiente, el empleador tiene la responsabilidad de establecer que es apropiado implementar un plan de protección contra caídas que se adhiera a 1926.502(k) para una situación particular en el lugar de trabajo, en lugar de implementar cualquiera de esos sistemas".

(5) Bajo 29 CFR 1926.503(a)(1) se establece, "el programa del empleador permitirá a cada empleado poder reconocer los peligros de caídas y capacitará a cada empleado en los procedimientos a seguir para minimizar estos peligros".

(6) Bajo 29 CFR 1926.500(b), los sistemas convencionales de protección contra caídas son: "sistema de rampas de protección, sistema de red de seguridad o sistema de protección personal para detención de caídas".

***Contact the component manufacturer for more information or consult a Professional Engineer for assistance.



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To view a non-printing PDF of this document, visit www.sbcindustry.com/b11.

This document summarizes the information provided in Section B11 of the 2011 Edition of Building Component Safety Information BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses. Copyright © 2004-2011 Structural Building Components Association and Truss Plate Institute. All Rights Reserved. This guide or any part thereof may not be reproduced in any form without the written permission of the publishers. Printed in the United States of America.

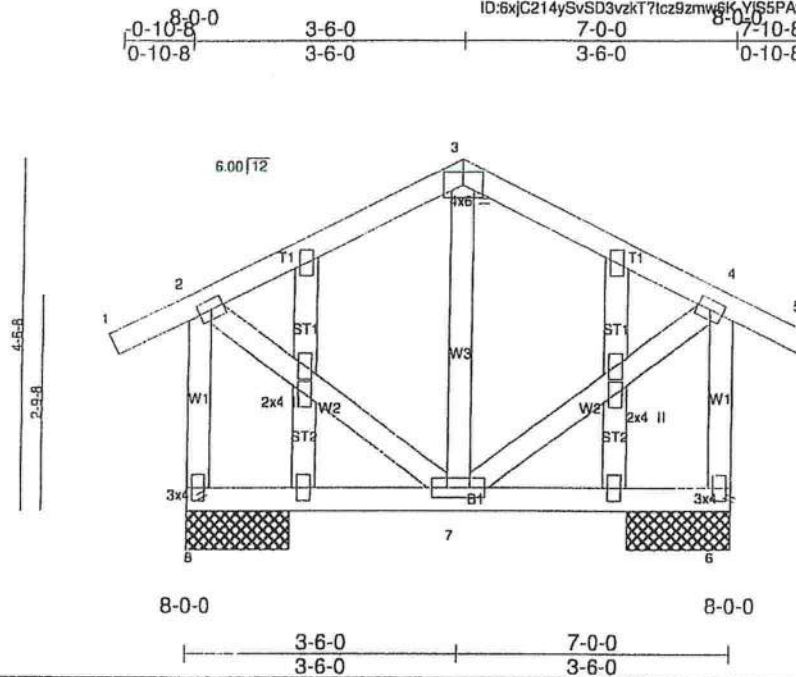


TRUSS PLATE INSTITUTE
218 North Lee Street, Ste. 312
Alexandria, VA 22314
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Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluota, FL 32766 407-484-0037
SIERRA	G2X	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:29:17 2012 Page 1
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Scale = 1:26.5

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)	-0.00	7-8	>999	240	MT20
TCDL 7.0	Lumber Increase	1.25	BC 0.09	Vert(TL)	-0.01	7-8	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(TL)	0.00	6	n/a	n/a	
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						
								Weight: 58 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 2x4 II
 BOT CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
 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.

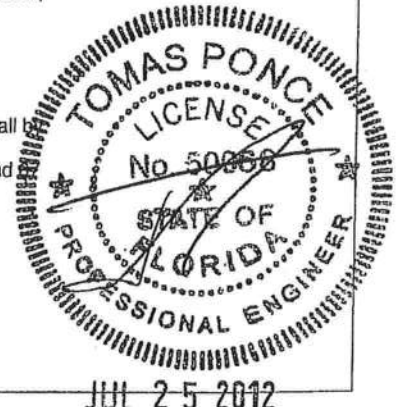
REACTIONS (lb/size) 8=236/1-4-0 (min. 0-1-8), 6=236/1-4-0 (min. 0-1-8)
 Max Horz 8=-33(LC 11)
 Max Uplift 8=67(LC 10), 6=67(LC 11)
 Max Grav 8=271(LC 2), 6=271(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/22, 2-3=-138/100, 3-4=-138/100, 4-5=0/22, 2-8=-245/215, 4-6=-245/215
 BOT CHORD 7-8=-33/33, 6-7=0/0
 WEBS 3-7=-116/41, 2-7=-13/164, 4-7=-13/164

NOTES (8)

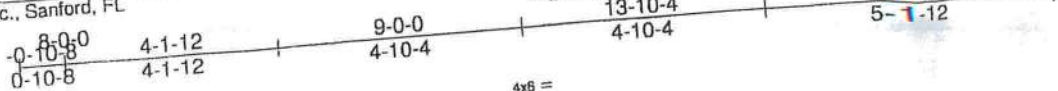
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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"
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall & 1'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 8 and 1b uplift at joint 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
SIERRA	G3X	GABLE	1	1	
Job Reference (optional)					
7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:29:27 2012 Page 1					
ID:jyZxNxDrQ4WmPXTOKIAY5z0Uho-Fg3IVb184-W7JE4GK4hbrNBhK62076SYVE30ryyzXjV					
Maronda Homes Inc., Sanford, FL					



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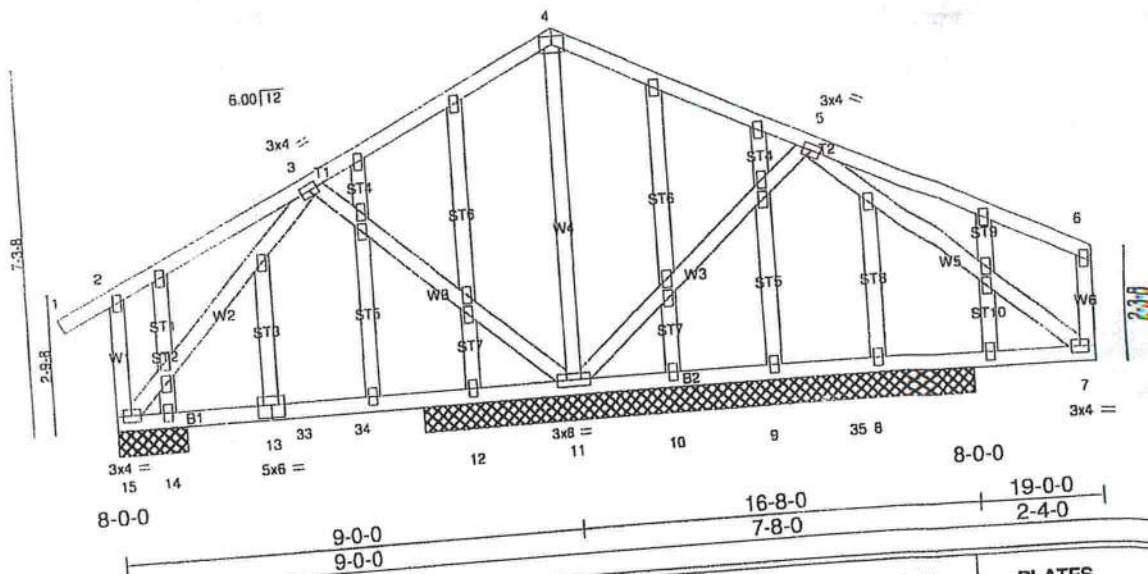


Plate Offsets (X,Y): [13:0-3-0,0-3-0]

LOADING (psf)	
TCLL	16.0
TCDL	7.0
BCLL	0.0
BCDL	10.0

SPACING	
Plates Increase	2-0-0
Lumber Increase	1.25
Rep Stress Incr	NO
Code FRC2010/TPI2007	

CSI	
TC	0.24
BC	0.19
WB	0.34
(Matrix-M)	

DEFL	in (loc)	l/defl	L/d
Vert(LL)	-0.02 12-14	>999	240
Vert(TL)	-0.05 12-14	>999	180
Horz(TL)	-0.00 8	n/a	n/a

PLATES
MT20

GRIP
244/190

Weight: 162 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
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.

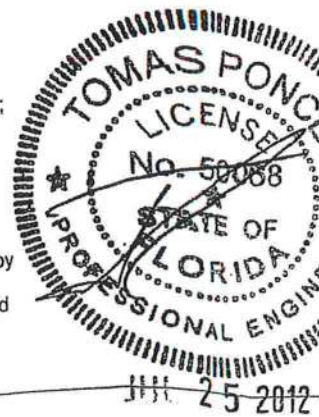
REACTIONS (lb/size) 11=793/10-8-0 (min. 0-1-10), 15=127/1-4-0 (min. 0-1-8), 12=137/10-8-0 (min. 0-1-10), 14=197/1-4-0 (min. 0-1-8), 10=56/10-8-0 (min. 0-1-10), 9=41/10-8-0 (min. 0-1-10), 8=110/10-8-0 (min. 0-1-10)
Max Horz 15=85(LC 9)
Max Uplift 11=478(LC 11), 15=276(LC 25)
Max Grav 11=966(LC 2), 15=79(LC 24), 12=211(LC 3), 14=296(LC 3), 10=108(LC 3), 9=60(LC 16), 8=156(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-34/104, 3-4=-146/453, 4-5=-144/453, 5-6=-102/94, 2-15=-125/212, 6-7=-152/122
BOT CHORD 14-15=-211/143, 13-14=-211/143, 13-33=-211/143, 33-34=-211/143, 12-34=-211/143, 11-12=-211/143, 10-11=-155/80, 9-10=-155/80, 9-35=-155/80, 8-35=-155/80, 7-8=-155/80
WEBS 3-11=-360/280, 4-11=-639/310, 5-11=-371/283, 3-15=-161/315, 5-7=-140/263

NOTES (9)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCCL=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) All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 478 lb uplift at joint 11 and 276 lb uplift at joint 15.
- 9) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R502.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2



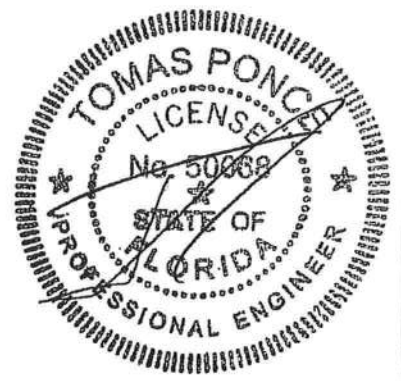
JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chulula, FL 32766 407-484-0037
SIERRA	G3X	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

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LOAD CASE(S) Standard

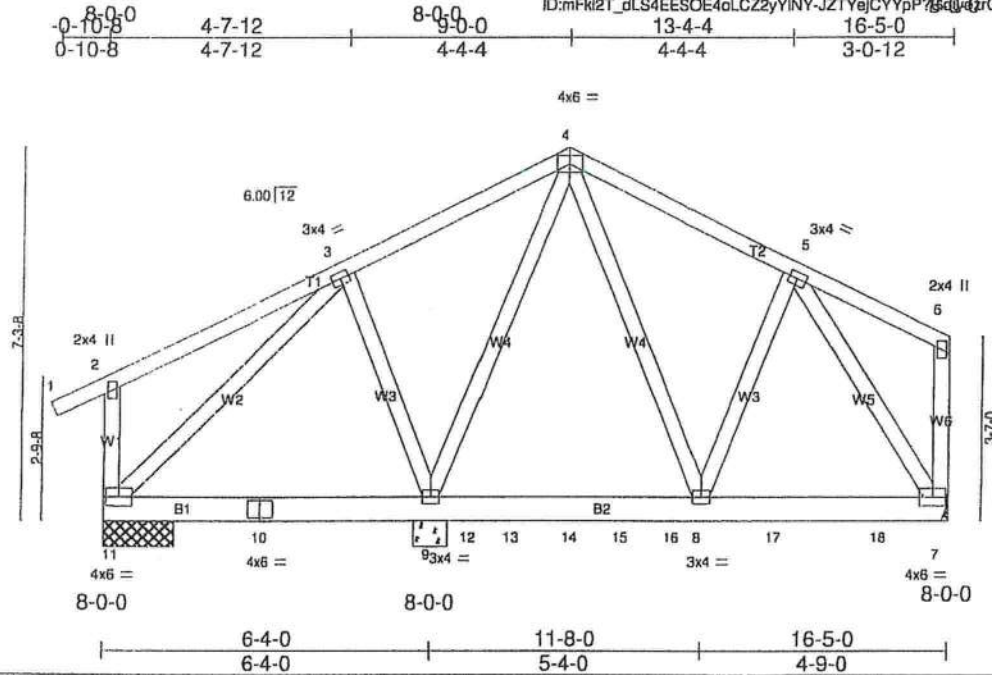


JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chulula, FL 32766 407-484-0037
SIERRA	GRD3X	COMMON	1	1	Job Reference (optional)	

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7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:29:42 2012 Page 1
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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.28	Vert(LL) -0.02 8-9 >999 240		
BCLL 0.0	Lumber Increase 1.25	WB 0.31	Vert(TL) -0.04 8-9 >999 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) 0.00 7 n/a n/a		
	Code FRC2010/TPI2007			Weight: 126 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x6 SYP No.2
WEBS 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=967/0-8-0 (min. 0-1-8), 11=228/1-4-0 (min. 0-1-8), 7=731/Mechanical

Max Horz 11=104(LC 8)
Max Uplift 9=91(LC 8), 11=53(LC 8)
Max Grav 9=1045(LC 2), 11=268(LC 2), 7=822(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

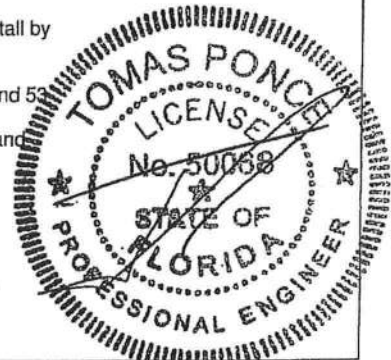
TOP CHORD 1-2=0/22, 2-3=-63/85, 3-4=-92/86, 4-5=-514/47, 5-6=-64/23, 2-11=-157/127, 6-7=-78/37
BOT CHORD 10-11=-72/98, 9-10=-72/98, 9-12=0/228, 12-13=0/228, 13-14=0/228, 14-15=0/228, 15-16=0/228,
8-16=0/228, 8-17=0/357, 17-18=0/357, 7-18=0/357
WEBS 3-9=-160/201, 4-9=-515/4, 4-8=0/555, 5-8=0/234, 3-11=-112/5, 5-7=-623/0

NOTES (9)

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 9 and 53 lb uplift at joint 11.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 204 lb down and 57 lb up at 7-1-0, 204 lb down at 9-1-0, 204 lb down at 11-1-0, and 204 lb down at 13-1-0, and 204 lb down at 15-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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

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 Chuluto, FL 32766 407-484-0037
SIERRA	GRD3X	COMMON	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

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LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-38, 2-4=-38, 4-6=-38, 11-13=-20, 13-15=-50, 7-15=-20
- Concentrated Loads (lb)
 - Vert: 12=-177(B) 14=-177(B) 16=-177(B) 17=-177(B) 18=-177(B)



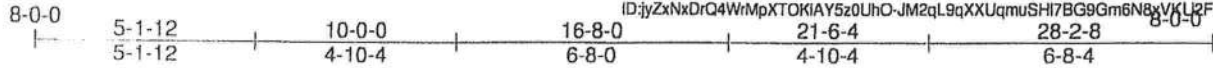
JUL 25 2012

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	H10X	HIP	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:30:33 2012 Page 1

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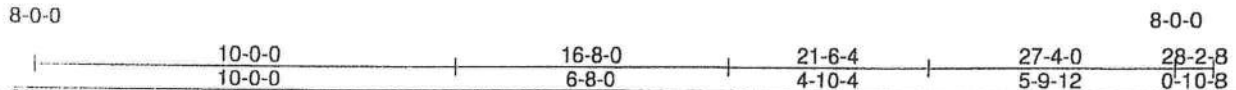
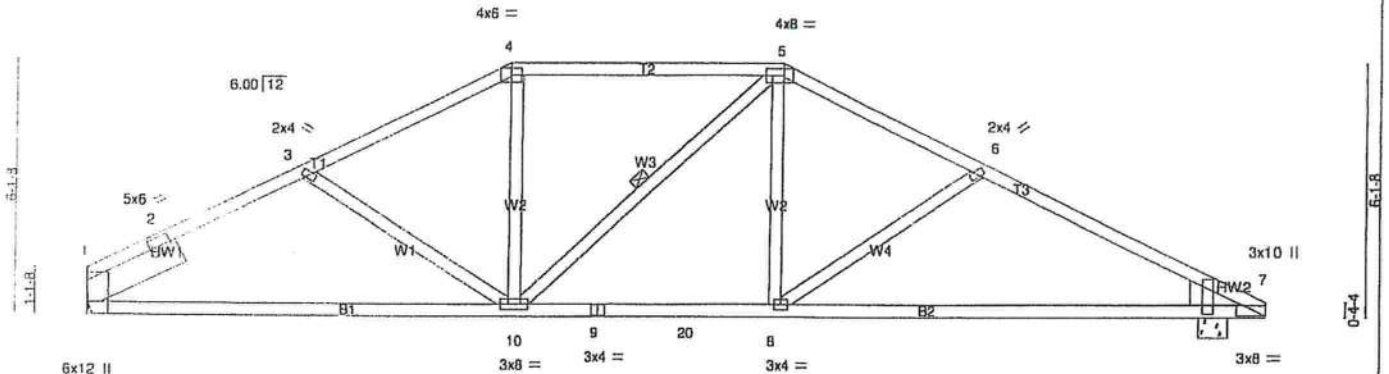


Plate Offsets (X,Y): [5:0-5-4,0-2-0], [7:0-8-0,0-0-1], [7:0-0-11,1-2-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.42	Vert(LL)	-0.19	8-19	>999	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.71	Vert(TL)	-0.47	8-19	>720		
BCLL 0.0	Lumber Increase 1.25	WB 0.10	Horz(TL)	0.05	7	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)						
	Code FRC2010/TPI2007						Weight: 145 lb	FT = 0%

LUMBER

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

BRACING

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

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

REACTIONS (lb/size) 1=820/Mechanical, 7=881/0-8-0 (min. 0-1-8)
Max Horz 1=107(LC 11)
Max Uplift 1=187(LC 10), 7=210(LC 11)
Max Grav 1=901(LC 2), 7=961(LC 2)

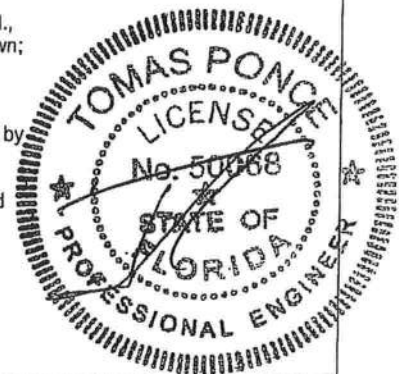
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-455/141, 2-3=-1433/597, 3-4=-1313/547, 4-5=-1188/550, 5-6=-1359/560, 6-7=-1568/637, 7-18=-5/13
BOT CHORD 1-10=-399/1180, 9-10=-291/1115, 9-20=-291/1115, 8-20=-291/1115, 7-8=-452/1320, 7-19=0/0
WEBS 3-10=-113/167, 4-10=0/320, 5-10=-127/77, 5-8=-14/380, 6-8=-257/199

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) 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, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 1 and 210 lb uplift at joint 7.
- 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 Chuluota, FL 32766 407-484-0037
SIERRA	H16X	HIP	1	1	Job Reference (optional)	

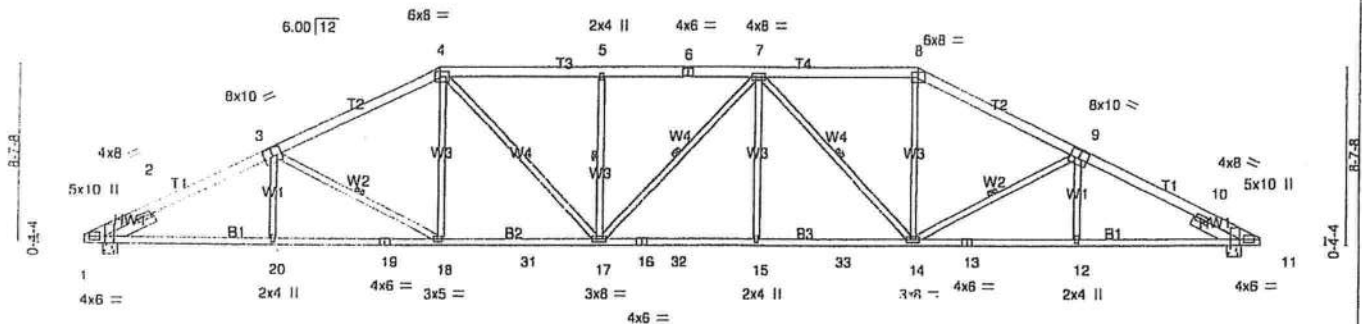
Maronda Homes Inc., Sanford, FL

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8-0-0	8-8-10	16-6-8	24-4-7	32-0-9	39-10-8	47-8-6	56-5-0
	8-8-10	7-9-14	7-9-15	7-8-3	7-9-15	7-9-14	8-8-10

Scale = 1:99.5



8-0-0	8-8-10	16-6-8	24-4-7	32-0-9	39-10-8	47-8-6	55-6-8	56-5-0	8-0-0
0-10-8	7-10-2	7-9-14	7-9-15	7-8-3	7-9-15	7-9-14	7-10-2	0-10-8	

Plate Offsets (X,Y): [1:0-3-8,Edge], [1:0-1-14,0-1-13], [3:0-5-0,0-4-8], [4:0-5-4,0-3-0], [9:0-5-0,0-4-8], [11:0-3-8,Edge], [11:0-1-14,0-1-13]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.75	Vert(LL) 0.33 15-17 >999 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.42	Vert(TL) -0.68 15-17 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.26 11 n/a n/a		
	Code FRC2010/TPI2007			Weight: 369 lb	FT = 0%

LUMBER
 TOP CHORD 2x6 SYP No.2
 BOT CHORD 2x4 SP 1500F 1.6E
 WEBS 2x4 SP 1500F 1.6E
 SLIDER Left 2x6 SYP No.2 2-6-0, Right 2x6 SYP No.2 2-6-0

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 7-1-4 oc bracing.
 WEBS 1 Row at midpt 3-18, 5-17, 7-17, 7-14, 9-14

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

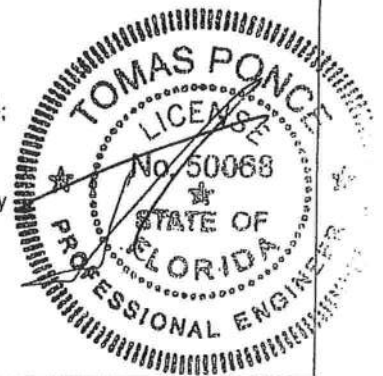
REACTIONS (lb/size) 1=1777/0-8-0 (min. 0-2-6), 11=1768/0-8-0 (min. 0-2-6)
 Max Horz 1=125(LC 7)
 Max Uplift 1=318(LC 10), 11=318(LC 11)
 Max Grav 1=1806(LC 2), 11=1806(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-997/303, 2-3=-3417/1329, 3-4=-3057/1284, 4-5=-3242/1444, 5-6=-3242/1444, 6-7=-3242/1444,
 7-8=-2757/1238, 8-9=-3058/1284, 9-10=-3415/1329, 10-11=-997/303
 BOT CHORD 1-2=0/0, 1-1=-1066/2916, 1-20=-1066/2916, 19-20=-1062/2920, 18-19=-1062/2920, 18-31=-881/2616,
 17-31=-881/2616, 16-17=-1091/3109, 16-32=-1091/3109, 15-32=-1091/3109, 15-33=-1091/3109,
 14-33=-1091/3109, 13-14=-1062/2918, 12-13=-1062/2918, 11-12=-1065/2915, 11-27=0/0
 WEBS 3-20=0/267, 3-18=-350/244, 4-18=-19/428, 4-17=-305/813, 5-17=-376/314, 7-17=-115/92, 7-15=0/409,
 7-14=-877/303, 8-14=-227/859, 9-14=-346/245, 9-12=0/266

NOTES (7)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 318 lb uplift at joint 1 and 318 lb uplift at joint 11.
- 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 Pence, MSCE, PE FL PE# 50068 367 Medallion Place Chulula, FL 32766 407-484-0037
SIERRA	H17X	HIP	1	1	Job Reference (optional)	

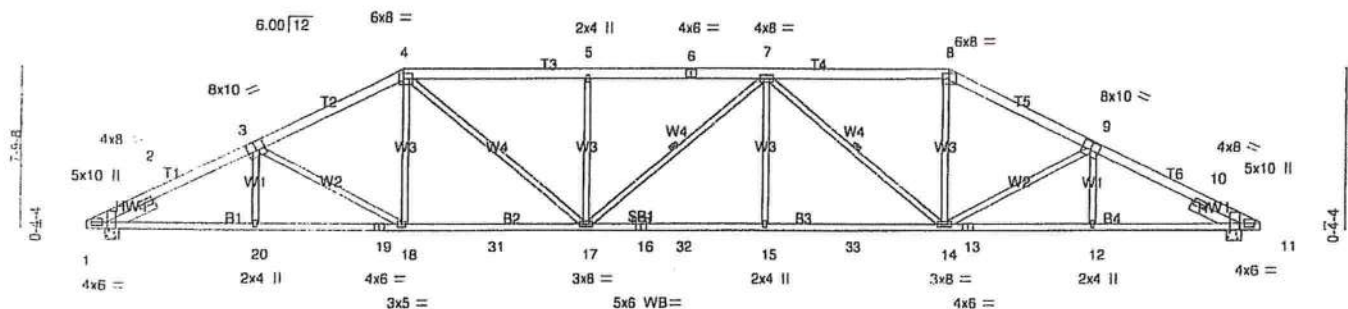
Maronda Homes Inc., Sanford, FL

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ID: jYzXNxD4WmPXTOKIAY5z0UhO-CylduzU1aNIz_v_KrEI37Muks6EWanMjZtwbRyzXhT

8-0-0	7-10-10	14-10-8	23-9-12	32-7-4	41-6-8	48-6-6	56-5-0
	7-10-10	6-11-14	8-11-4	8-9-8	8-11-4	6-11-14	7-10-10

Scale = 1:99.5



8-0-0

8-0-0

0-10-8	7-10-10	14-10-8	23-9-12	32-7-4	41-6-8	48-6-6	56-5-0
0-10-8	7-0-2	6-11-14	8-11-4	8-9-8	8-11-4	6-11-14	7-0-2

Plate Offsets (X,Y): [1:0-3-8,Edge], [1:0-1-14,0-1-13], [3:0-5-0,0-4-8], [4:0-5-4,0-3-0], [9:0-5-0,0-4-8], [11:0-3-8,Edge], [11:0-1-14,0-1-13]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.64	Vert(LL)	0.37 15-17	>939	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.88	Vert(TL)	-0.78 15-17	>873	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.59	Horz(TL)	0.28 11	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						
								Weight: 362 lb	FT = 0%

LUMBER

TOP CHORD 2x6 SYP No.2
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E
SLIDER Left 2x6 SYP No.2 2-6-0, Right 2x6 SYP No.2 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-6-12 oc bracing.
WEBS 1 Row at midpt 7-17, 7-14

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

REACTIONS (lb/size) 1=1784/0-8-0 (min. 0-2-6), 11=1773/0-8-0 (min. 0-2-6)
Max Horz 1=112(LC 7)
Max Uplift 1=343(LC 7), 11=343(LC 6)
Max Grav 1=1806(LC 2), 11=1806(LC 2)

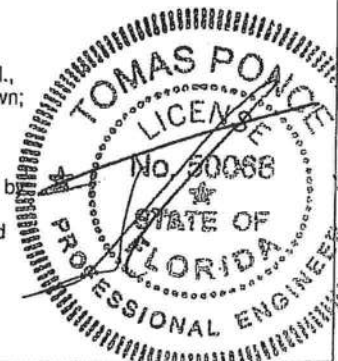
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-987/323, 2-3=-3384/1333, 3-4=-3139/1320, 4-5=-3575/1579, 5-6=-3575/1579, 6-7=-3575/1579,
7-8=-2842/1267, 8-9=-3139/1321, 9-10=-3382/1331, 10-11=-989/322
BOT CHORD 1-22=0/0, 1-1=-1072/2882, 1-20=-1072/2882, 19-20=-1071/2883, 18-19=-1071/2883, 18-31=-947/2712,
17-31=-947/2712, 16-17=-1264/3456, 16-32=-1264/3456, 15-32=-1264/3456, 15-33=-1264/3456,
14-33=-1264/3456, 13-14=-1071/2879, 12-13=-1071/2879, 11-12=-1070/2880, 11-27=0/0
WEBS 3-20=0/215, 3-18=-218/207, 4-18=-1/388, 4-17=-412/1020, 5-17=-446/371, 7-17=-125/86, 7-15=0/454,
7-14=-1103/409, 8-14=-239/893, 9-14=-213/209, 9-12=0/213

NOTES (7)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 343 lb uplift at joint 1 and 343 lb uplift at joint 11.
- 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 Chulula, FL 32766 407-484-0937
SIERRA	H18X	HIP	1	1	Job Reference (optional)	

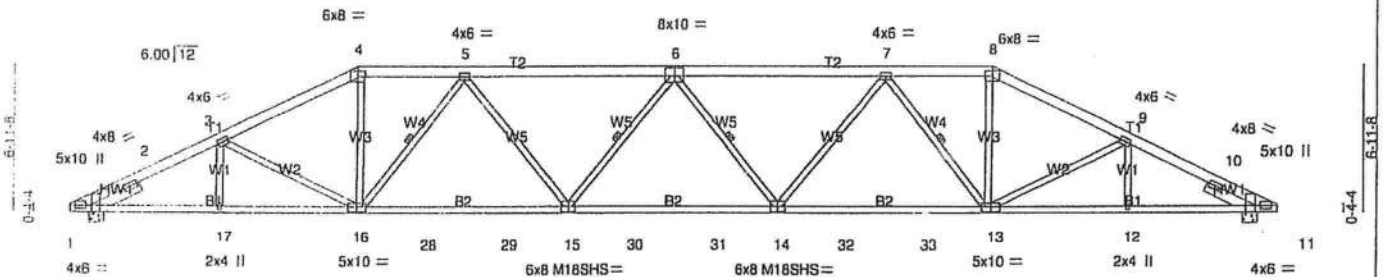
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8-0-0	6-10-7	13-2-8	18-2-8	23-2-8	28-2-8	33-2-8	38-2-8	43-2-8	49-6-9	56-5-0
6-10-7	6-4-1	5-0-0	5-0-0	5-0-0	5-0-0	5-0-0	5-0-0	5-0-0	6-4-1	6-10-7

Scale = 1:97.2



8-0-0

8-0-0

0-10-8	6-10-7	13-2-8	23-2-8	33-2-8	43-2-8	49-6-9	55-6-8	56-5-0
0-10-8	5-11-15	6-4-1	10-0-0	10-0-0	10-0-0	6-4-1	5-11-15	0-10-8

Plate Offsets (X,Y): [1:0-3-8,Edge], [1:0-1-14,0-1-13], [6:0-5-0,0-4-8], [11:0-3-8,Edge], [11:0-1-14,0-1-13], [13:0-4-12,0-3-0], [16:0-4-12,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.57	Vert(LL) 0.41	14-15	>559	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.84	Vert(TL) -0.91	13-14	>745	180	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.29	Horz(TL) 0.27	11	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007	(Matrix-M)					Weight: 353 lb	FT = 0%

LUMBER

TOP CHORD 2x6 SYP No.2
BOT CHORD 2x4 SYP No.1D *Except*
B1: 2x4 SP 1500F 1.6E
WEBS 2x4 SYP No.2 *Except*
W1: 2x4 SP 1500F 1.6E
SLIDER Left 2x6 SYP No.2 2-6-0, Right 2x6 SYP No.2 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-4-1 oc bracing.
WEBS 1 Row at midpt 5-16, 6-15, 6-14, 7-13

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

REACTIONS

(lb/size) 1=1766/0-8-0 (min. 0-2-6), 11=1766/0-8-0 (min. 0-2-6)
Max Horz 1=98(LC 8)
Max Uplift 1=370(LC 7), 11=370(LC 6)
Max Grav 1=1806(LC 2), 11=1806(LC 2)

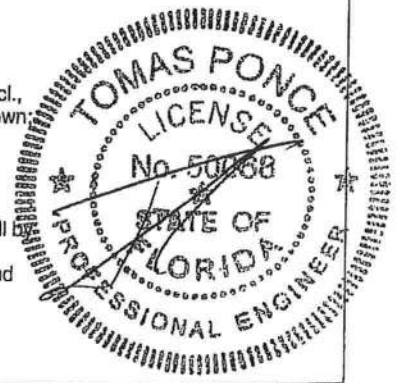
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-985/350, 2-3=-3341/1339, 3-4=-3210/1340, 4-5=-2884/1268, 5-6=-3887/1664, 6-7=-3887/1664, 7-8=-2884/1268, 8-9=-3210/1340, 9-10=-3341/1339, 10-11=-985/350
BOT CHORD 1-19=0/0, 1-1=-1083/2838, 1-17=-1083/2838, 16-17=-1083/2838, 16-28=-1307/3418, 28-29=-1307/3418, 15-29=-1307/3418, 15-30=-1561/4000, 30-31=-1561/4000, 14-31=-1561/4000, 14-32=-1307/3418, 32-33=-1307/3418, 13-33=-1307/3418, 12-13=-1083/2838, 11-12=-1083/2838, 11-24=0/0
WEBS 3-17=0/151, 3-16=-129/195, 4-16=-367/1056, 5-16=-1054/522, 5-15=-133/713, 6-15=-368/288, 6-14=-368/288, 7-14=-133/713, 7-13=-1054/522, 8-13=-367/1056, 9-13=-130/195, 9-12=0/151

NOTES (B)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- 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 rectangular 3-6-0 tall 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 370 lb uplift at joint 1 and 370 lb uplift at joint 11.
- 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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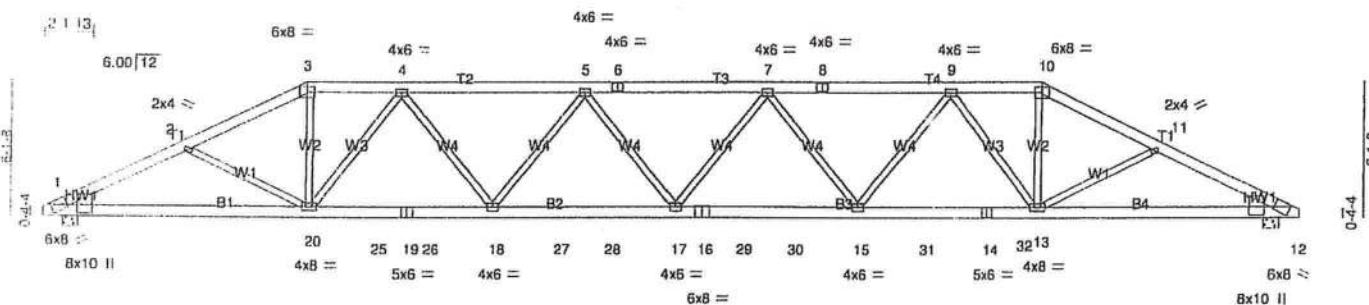
Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluota, FL 32786 407-484-0037
SIERRA	H19X	HIP	1	1	Job Reference (optional)	

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8-0-0	6-4-10	11-6-8	15-8-8	24-0-8	32-4-8	40-8-8	44-10-8	50-0-6	56-5-0
6-4-10	5-1-14	4-2-0	8-4-0	8-4-0	8-4-0	8-4-0	4-2-0	5-1-14	6-4-10

Scale = 1:93.6



8-0-0	0-10-8	11-6-8	19-10-8	28-2-8	36-6-8	44-10-8	55-6-8	56-5-0
0-10-8	10-8-0	8-4-0	8-4-0	8-4-0	8-4-0	8-4-0	10-8-0	0-10-8

Plate Offsets (X,Y): [1:0-1-8,Edge], [1:0-4-4,1-3-10], [12:0-1-8,Edge], [12:0-4-4,0-3-5]									
LOADING (psf)		SPACING 2-0-0		CSI		DEFL in (loc) l/defl L/d		PLATES GRIP	
TCLL 16.0		Plates Increase 1.25		TC 0.46		Vert(LL) 0.44 17 >999 240		MT20 244/190	
TCDL 7.0		Lumber Increase 1.25		BC 0.65		Vert(TL) -0.73 17-18 >908 180			
BCLL 0.0		Rep Stress Incr YES		WB 0.63		Horz(TL) 0.21 12 n/a n/a			
BCDL 10.0		Code FRC2010/TPI2007		(Matrix-M)				Weight: 385 lb FT = 0%	

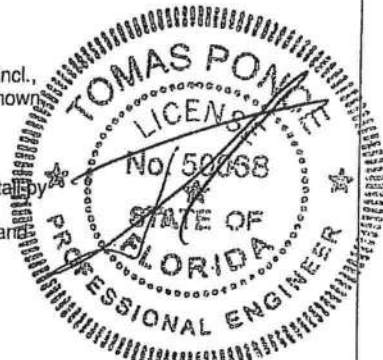
LUMBER	BRACING
TOP CHORD 2x6 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-7 oc purlins.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid rolling directly applied or 5-10-2 oc bracing.
WEBS 2x4 SP 1500F 1.6E	
WEDGE	
Left: 2x6 SYP No.2, Right: 2x6 SYP No.2	

REACTIONS	(lb/size) 1=1720/0-8-0 (min. 0-2-5), 12=1744/0-8-0 (min. 0-2-6)
	Max Horz 1=92(LC 7)
	Max Uplift 1=-412(LC 7), 12=-402(LC 6)
	Max Grav 1=1801(LC 2), 12=1822(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-3858/1600, 2-3=-3528/1449, 3-4=-3168/1361, 4-5=-4338/1852, 5-6=-4758/2029, 6-7=-4758/2029, 7-8=-4279/1829, 8-9=-4279/1829, 9-10=-3030/1313, 10-11=-3339/1384, 11-12=-3427/1427
BOT CHORD	1-20=-1372/3424, 20-25=-1460/3768, 19-25=-1460/3768, 19-26=-1460/3768, 18-26=-1460/3768, 18-27=-1836/4623, 27-28=-1836/4623, 17-28=-1836/4623, 16-17=-1824/4594, 16-29=-1824/4594, 29-30=-1824/4594, 15-30=-1824/4594, 15-31=-1420/3661, 31-32=-1420/3661, 14-32=-1420/3661, 13-14=-1420/3661, 12-13=-1162/2930, 12-22=0/0
WEBS	2-20=-423/294, 3-20=-468/1314, 4-20=-1188/583, 4-18=-260/845, 5-18=-629/374, 5-17=0/195, 7-17=0/230, 7-15=-680/395, 9-15=-287/912, 9-13=-1241/596, 10-13=-405/1160, 11-13=-79/183

- 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.
 - 3) Lumber DOL=1.60 plate grip DOL=1.60
 - 4) Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 412 lb uplift at joint 1 and 402 lb uplift at joint 12.
 - 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



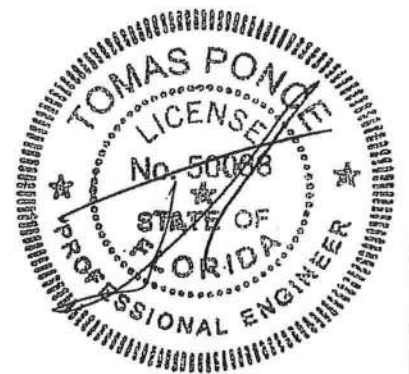
JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 357 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	H20X	HIP	1	1	Job Reference (optional)	

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LOAD CASE(S) Standard



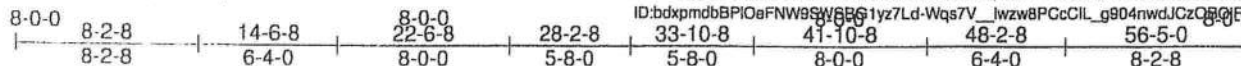
JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chulula, FL 32766 407-484-0037
SIERRA	H21AX	HIP	1	1	Job Reference (optional)	

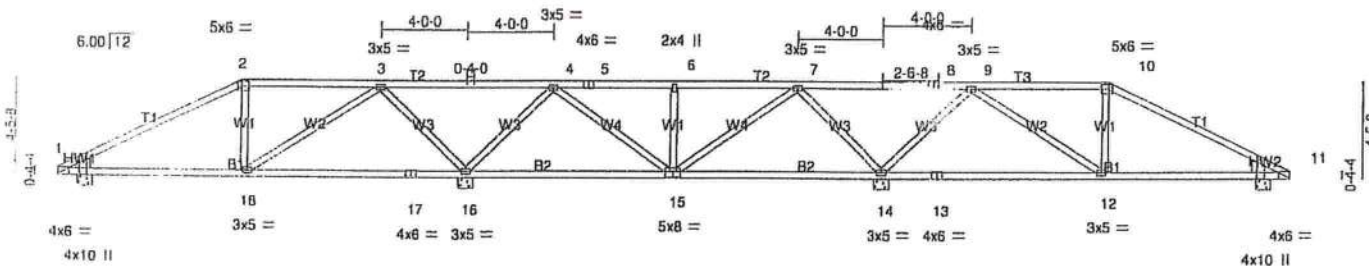
Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:32:09 2012 Page 1

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Scale: 1/8"=1'



8-0-0	8-2-8	14-6-8	22-6-8	28-2-8	33-10-8	41-10-8	48-2-8	56-5-0
0-10-8	7-4-0	10-4-0	9-8-0	9-8-0	10-4-0	7-4-0	0-10-8	

Plate Offsets (X,Y): [1:0-0-5,Edge], [1:0-0-3,Edge], [2:0-4-0,0-2-8], [5:0-3-0,Edge], [8:0-3-0,Edge], [10:0-4-0,0-2-8], [11:0-0-3,Edge], [11:0-0-1,1-2-0], [15:0-4-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.42	Vert(LL)	-0.16 16-18	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.56	Vert(TL)	-0.40 16-18	>552	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.35	Horz(TL)	0.01 11	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)					Weight: 269 lb	FT = 0%

LUMBER

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

Left: 2x6 SYP No.2, Right: 2x8 SYP No.2

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) 16=1215/0-8-0 (min. 0-1-12), 14=1123/0-8-0 (min. 0-1-10), 1=453/0-8-0 (min. 0-1-8), 11=481/0-8-0 (min. 0-1-8)
Max Horz 1=-67(LC 6)
Max Uplift 16=-385(LC 7), 14=-369(LC 7), 1=-154(LC 10), 11=-174(LC 11)
Max Grav 16=1382(LC 2), 14=1280(LC 25), 1=517(LC 24), 11=549(LC 2)

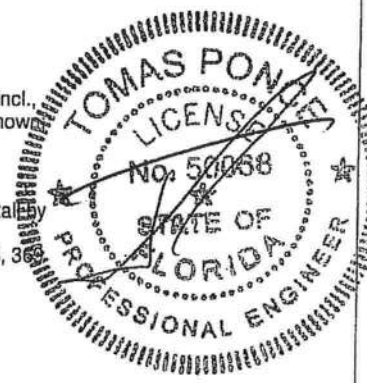
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-591/237, 2-3=-493/275, 3-4=-146/559, 4-5=-395/297, 5-6=-395/297, 6-7=-395/297, 7-8=-151/454, 8-9=-151/454, 9-10=-611/341, 10-11=-706/310, 11-26=-4/14
BOT CHORD 1-22=-266/52, 1-19=-92/428, 1-18=-92/428, 17-18=-67/41, 16-17=-67/41, 15-16=-77/3, 14-15=-83/100, 13-14=-94/171, 12-13=-94/171, 11-12=-156/544, 11-27=0/0
WEBS 2-18=-108/164, 3-18=-95/505, 3-16=-909/494, 4-16=-877/519, 4-15=-104/425, 6-15=-233/192, 7-15=-38/324, 7-14=-759/459, 9-14=-862/475, 9-12=-70/447, 10-12=-52/128

NOTES (7)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 16, 369 lb uplift at joint 14, 154 lb uplift at joint 1 and 174 lb uplift at joint 11.
- 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	H22X	HIP	1	1	Job Reference (optional)	

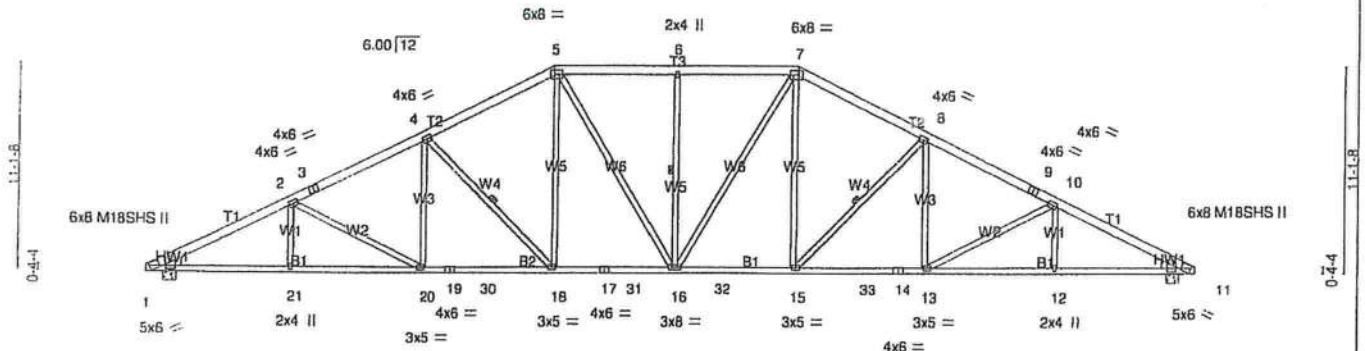
Maronda Homes Inc., Sanford, FL

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ID:bdxpmdbBPIQeFNW9SWSBG1yz7Ld-ZjGoe6A9Cap0IWG577IBGAGFYgB_BLBCHRuYByzXgb



Scale = 1:110.9



8-0-0	0-10-8	7-6-6	14-6-7	21-6-8	28-2-8	34-10-8	41-10-9	48-10-10	55-6-8	56-5-0	8-0-0
0-10-8	6-7-14	7-0-1	7-0-1	6-8-0	6-8-0	7-0-1	7-0-1	6-7-14	0-10-8		

Plate Offsets (X,Y): [1:0-2-8,1-0-2], [1:0-1-13,0-0-3], [5:0-5-4,0-3-0], [7:0-5-4,0-3-0], [11:0-1-13,0-5-0], [11:0-2-8,0-1-5]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.98	Vert(LL) 0.28 16 >999 240	M18SHS	244/190
BCLL 0.0	Lumber Increase 1.25	WB 0.32	Vert(TL) -0.56 16-18 >999 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.24 11 n/a n/a		
	Code FRC2010/TPI2007			Weight: 396 lb	FT = 0%

LUMBER

TOP CHORD 2x6 SYP No.2
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
WEDGE
Left: 2x6 SYP No.2, Right: 2x6 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-18, 6-16, 8-15

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

REACTIONS (lb/size) 1=1813/0-8-0 (min. 0-2-6), 11=1813/0-8-0 (min. 0-2-6)
Max Horz 1=166(LC 7)
Max Uplift 1=-362(LC 10), 11=-362(LC 11)

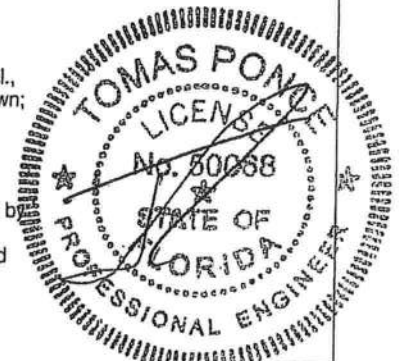
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-3426/1265, 2-3=-3208/1238, 3-4=-3180/1260, 4-5=-2773/1188, 5-6=-2597/1188, 6-7=-2597/1188, 7-8=-2773/1188, 8-9=-3180/1260, 9-10=-3208/1238, 10-11=-3426/1265
BOT CHORD 1-23=0/0, 1-1=-468/1263, 1-21=-1019/2909, 20-21=-1019/2909, 19-20=-900/2772, 18-30=-900/2772, 17-18=-662/2283, 17-31=-662/2283, 16-31=-662/2283, 16-32=-662/2283, 15-32=-662/2283, 15-33=-900/2772, 14-33=-900/2772, 13-14=-900/2772, 12-13=-1019/2909, 11-12=-1019/2909, 11-27=0/0
WEBS 2-21=0/193, 2-20=-155/168, 4-20=0/344, 4-18=-707/342, 5-18=-159/652, 5-16=-183/411, 6-16=-325/265, 7-16=-184/411, 7-15=-159/652, 8-15=-707/342, 8-13=0/344, 10-13=-155/169, 10-12=0/193

NOTES (8)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 1 and 362 lb uplift at joint 11.
- 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_	Thomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chulula, FL 32766 407-484-0037
SIERRA	H23X	HIP	1	1	Job Reference (optional)	

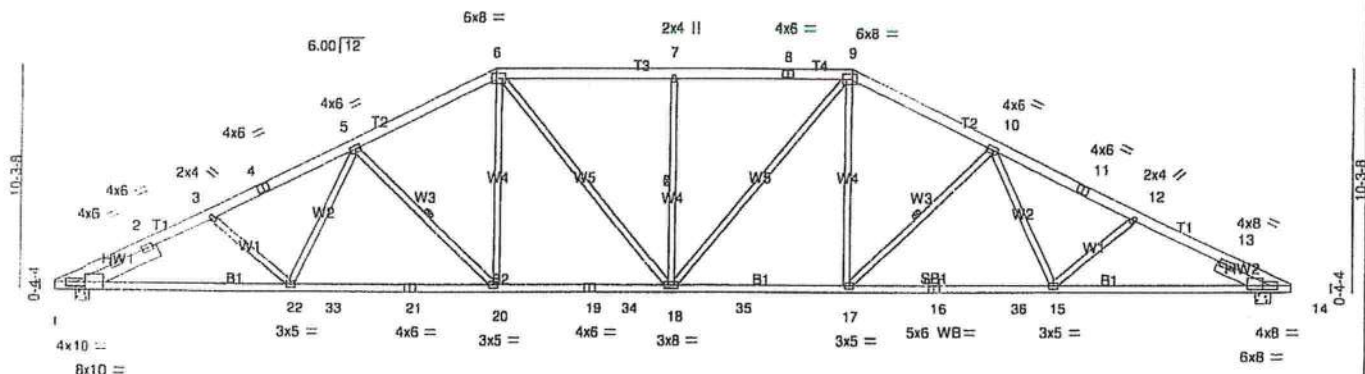
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ID:bdxpmdbBPiOeFNW9SWSBG1yz7Ld-pSICXBHpGLxktHuSq9OQI734qKIQ7bENwG7gNAyzXgS

8-0-0	6-11-11	13-5-2	19-10-8	28-2-8	36-6-8	42-11-14	49-5-5	56-5-0
6-11-11	6-5-6	6-5-6	8-4-0	8-4-0	8-4-0	6-5-6	6-5-6	6-11-11

Scale: 1/8"=1'



8-0-0	10-6-8	19-10-8	28-2-8	36-6-8	45-10-8	55-6-8	56-5-0
0-10-8	9-8-0	9-4-0	8-4-0	8-4-0	9-4-0	9-8-0	0-10-8

Plate Offsets (X,Y): [1:0-5-0,Edge], [6:0-5-4,0-3-0], [9:0-5-4,0-3-0], [14:0-4-0,0-2-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.65	Vert(LL)	-0.32 15-17	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.86	Vert(TL)	-0.74 15-17	>917	180		
BCLL 0.0	Lumber Increase 1.25	WB 0.39	Horz(TL)	0.25 14	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)						
	Code FRC2010/TPI2007						Weight: 387 lb	FT = 0%

LUMBER
 TOP CHORD 2x6 SYP No.2
 BOT CHORD 2x4 SP 1500F 1.6E
 WEBS 2x4 SP 1500F 1.6E
 OTHERS 2x4 SP 1500F 1.6E
 SLIDER Left 2x8 SYP No.2 4-0-0, Right 2x6 SYP No.2 2-6-0

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 7-1-9 oc bracing.
 WEBS 1 Row at midpt 5-20, 7-18, 10-17

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

REACTIONS (lb/size) 1=1849/0-8-0 (min. 0-2-6), 14=1849/0-8-0 (min. 0-2-6)
 Max Horz 1=152(LC 7)
 Max Uplift 1=348(LC 10), 14=348(LC 11)

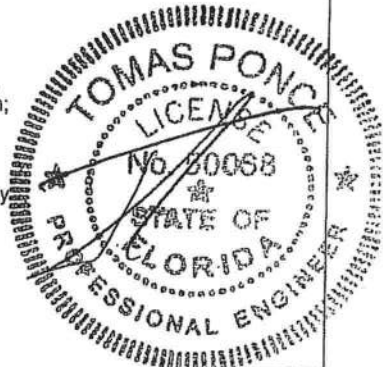
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-371/19, 2-3=-3382/1320, 3-4=-3317/1271, 4-5=-3286/1287, 5-6=-2878/1226, 6-7=-2805/1273, 7-8=-2805/1273, 8-9=-2805/1273, 9-10=-2879/1227, 10-11=-3274/1282, 11-12=-3304/1266, 12-13=-3387/1311, 13-14=-425/0
BOT CHORD 1-24=0/0, 1-1=-1063/2893, 1-22=-1063/2893, 22-33=-952/2791, 21-33=-952/2791, 20-21=-952/2791, 19-20=-732/2399, 19-34=-732/2399, 18-34=-732/2399, 18-35=-732/2399, 17-35=-732/2399, 16-17=-952/2792, 16-36=-952/2792, 15-36=-952/2792, 14-15=-1056/2876, 14-29=0/0
WEBS 3-22=-26/188, 5-22=-9/311, 5-20=-570/316, 6-20=-119/654, 6-18=-217/504, 7-18=-440/362, 9-18=-218/504, 9-17=-121/658, 10-17=-572/316, 10-15=-6/298, 12-15=-14/190

NOTES (7)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 348 lb uplift at joint 1 and 348 lb uplift at joint 14.
- 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	H25X	SPECIAL	1	1	Job Reference (optional)	

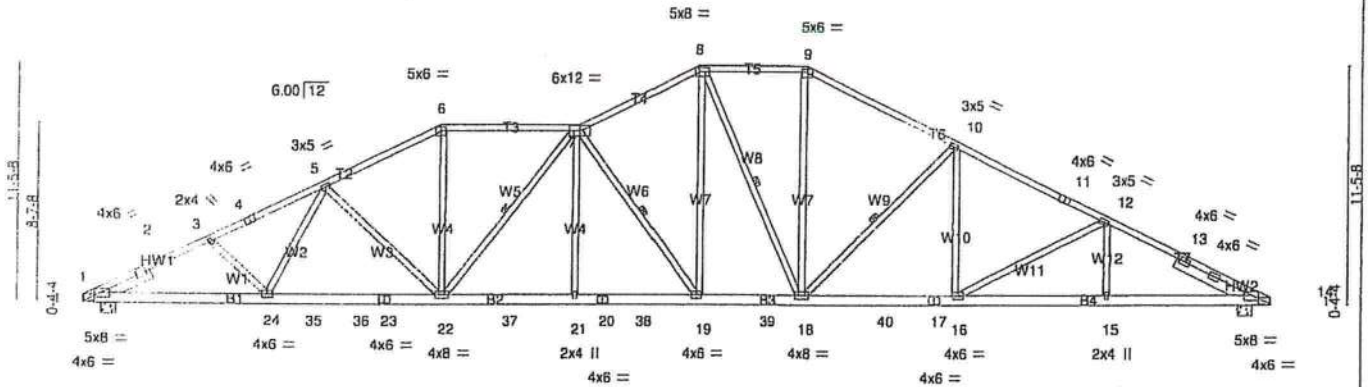
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ID:mFk12T_dLS4EESOE4oLCZ2yYINY-hV48xNX_Kobml7ZsulEUVSName8hg05xTcSyzXg7

8-0-0	5-10-6	11-2-7	16-6-8	23-2-8	28-10-8	34-2-8	41-5-4	48-7-15	56-5-0
	5-10-6	5-4-1	5-4-1	6-8-0	5-8-0	5-4-0	7-2-12	7-2-12	7-9-1

Scale = 1:98.6



8-0-0	0-10-8	8-6-7	16-6-8	23-2-8	28-10-8	34-2-8	41-5-4	48-7-15	55-6-8	56-5-0	8-0-0
	0-10-8	7-7-15	8-0-1	6-8-0	5-8-0	5-4-0	7-2-12	7-2-12	6-10-9	0-10-8	

Plate Offsets (X,Y): [1:0-3-8,0-4-13], [1:0-3-8,0-2-13], [4:0-3-0,Edge], [6:0-3-0,0-2-0], [8:0-6-0,0-2-8], [9:0-3-0,0-2-0], [11:0-3-0,Edge], [14:0-3-8,0-2-13], [14:0-3-8,0-5-1]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.80	Vert(LL)	0.32 19-21	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.82	Vert(TL)	-0.60 19-21	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(TL)	0.17 14	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)					Weight: 409 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x6 SYP No.2
WEBS 2x4 SP 1500F 1.6E
SLIDER Left 2x6 SYP No.2 2-6-0, Right 2x6 SYP No.2 4-0-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-15 oc bracing.
WEBS 1 Row at midpt 7-22, 7-19, 8-18, 10-18

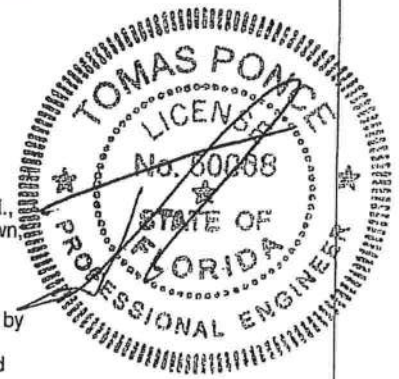
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=1879/0-8-0 (min. 0-2-7), 14=1854/0-8-0 (min. 0-2-8)
Max Horz 1=-181(LC 8)
Max Uplift 1=-461(LC 10), 14=-406(LC 11)
Max Grav 1=1879(LC 1), 14=1862(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-27=-233/83, 1-1=-1184/353, 1-2=-832/255, 2-3=-3354/1266, 3-4=-3289/1233, 4-5=-3266/1247, 5-6=-3091/1252, 6-7=-2761/1177, 7-8=-2829/1220, 8-9=-2421/1108, 9-10=-2731/1162, 10-11=-3160/1241, 11-12=-3212/1222, 12-13=-3371/1249, 13-14=-1166/312, 14-32=-237/81
BOT CHORD 1-28=-60/200, 1-1=-1019/2905, 1-24=-1011/2872, 24-35=-949/2854, 35-36=-949/2854, 23-36=-949/2854, 22-23=-949/2854, 22-37=-976/3085, 21-37=-976/3085, 20-21=-977/3083, 20-38=-977/3083, 19-38=-977/3083, 19-39=-639/2336, 18-39=-639/2336, 18-40=-844/2736, 17-40=-844/2736, 16-17=-844/2736, 15-16=-982/2917, 14-15=-985/2947, 14-33=-58/204
WEBS 3-24=-22/139, 5-24=-3/134, 5-22=-359/225, 6-22=-319/1055, 7-22=-774/289, 7-21=0/296, 7-19=-1324/598, 8-19=-428/1211, 8-18=-404/157, 9-18=-265/864, 10-18=-731/354, 10-16=0/394, 12-16=-205/181, 12-15=-50/126

- NOTES** (7)
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 1 and 406 lb uplift at joint 14.

Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Thomas Ponce, MSCE, PE FL PE# 50068 357 Medallion Place Chulula, FL 32766 407-484-0037
SIERRA	H25X	SPECIAL	1	1	Job Reference (optional)	

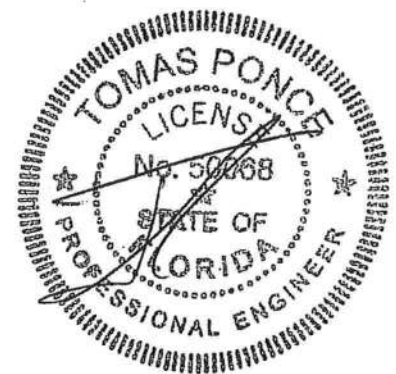
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ID:mFki2T_dLS4EESOE4oLCZ2yYINY-hV48xNX_Kobml7ZsullEUVSNamecc0he05xTcSyzXg7

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

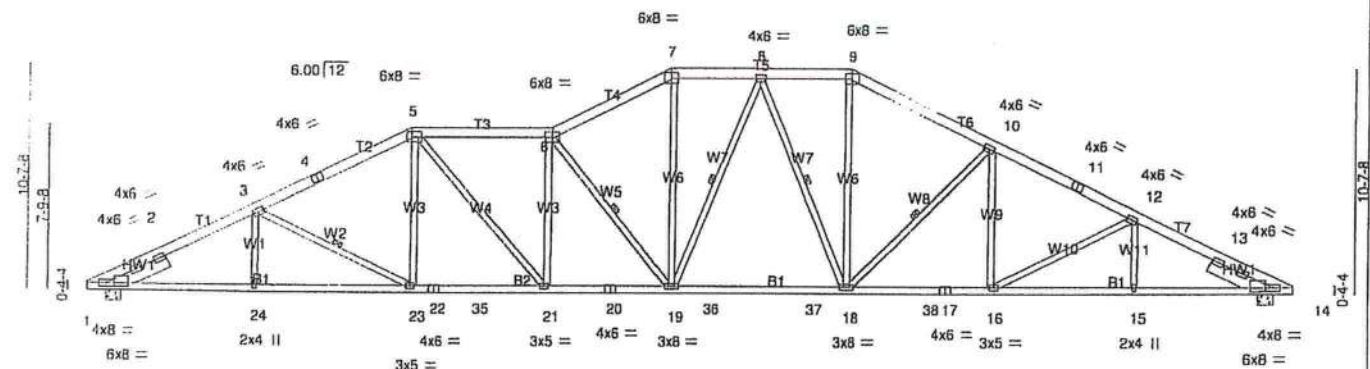
Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	H26X	SPECIAL	1	1	Job Reference (optional)	

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8-0-0	7-8-7	14-10-8	21-6-8	27-2-8	31-6-8	35-10-8	42-6-9	49-2-10	56-5-0
	7-8-7	7-2-1	6-8-0	5-8-0	4-4-0	4-4-0	6-8-1	6-8-1	7-2-6

Scale = 1:97.1



8-0-0	0-10-8	7-8-7	14-10-8	21-6-8	27-2-8	35-10-8	42-6-9	49-2-10	55-6-8	56-5-0
	0-10-8	6-9-15	7-2-1	6-8-0	5-8-0	8-8-0	6-8-1	6-8-1	6-3-14	0-10-8

Plate Offsets (X,Y): [1:0-4,0,0-2,0], [5:0-5-4,0,0-3,0], [14:0-4,0,0-2,0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	In (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.58	Vert(LL)	-0.33 18-19	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.79	Vert(TL)	-0.77 18-19	>878	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.39	Horz(TL)	0.26 14	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						
								Weight: 411 lb	FT = 0%

LUMBER

TOP CHORD 2x6 SYP No.2
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
SLIDER Left 2x8 SYP No.2 3-0-0, Right 2x8 SYP No.2 3-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-11-8 oc bracing.
WEBS 1 Row at midpt 3-23, 6-19, 8-19, 8-18, 10-18

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

REACTIONS (lb/size) 1=1797/0-8-0 (min. 0-2-6), 14=1801/0-8-0 (min. 0-2-6)
Max Horz 1=158(LC 8)
Max Uplift 1=411(LC 10), 14=353(LC 11)
Max Grav 1=1806(LC 2), 14=1806(LC 2)

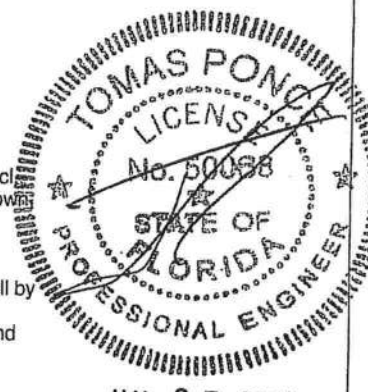
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-153/50, 2-3=-3422/1291, 3-4=-3172/1255, 4-5=-3137/1271, 5-6=-3441/1441, 6-7=-3031/1292, 7-8=-2719/1220, 8-9=-2520/1140, 9-10=-2839/1203, 10-11=-3199/1270, 11-12=-3234/1255, 12-13=-3415/1271, 13-14=-124/62
BOT CHORD 1-26=0/0, 1-1=-1039/2920, 1-24=-1039/2920, 23-24=-1039/2920, 22-23=-901/2739, 22-35=-901/2739, 21-35=-901/2739, 20-21=-1133/3337, 19-20=-1133/3337, 19-36=-759/2477, 36-37=-759/2477, 18-37=-759/2477, 18-38=-921/2801, 17-38=-921/2801, 16-17=-921/2801, 15-16=-1024/2910, 14-15=-1024/2910, 14-31=0/0
WEBS 3-24=0/238, 3-23=-211/175, 5-23=0/354, 5-21=-341/889, 6-21=-568/325, 6-19=-1290/588, 7-19=-335/979, 8-19=-124/307, 8-18=-441/184, 9-18=-291/912, 10-18=-650/327, 10-16=0/298, 12-16=-124/156, 12-15=0/213

NOTES (7)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 1 and 353 lb uplift at joint 14.

Continued on page 2



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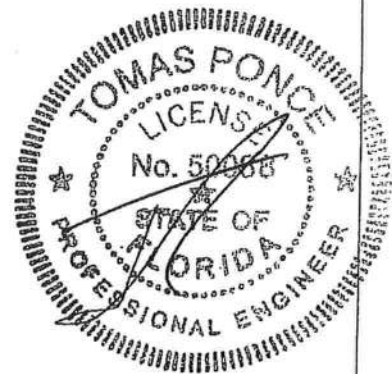
Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 357 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	H26X	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:33:04 2012 Page 2
ID:mFki2T_dLS4EESOE4oLCZ2yYINY-OCgw2ofFzrlVJnTOtaucs8do0PMF8UOV77ytyzXtz

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 Chuluota, FL 32766 407-484-0037
SIERRA	H27X	SPECIAL	1	1	Job Reference (optional)	

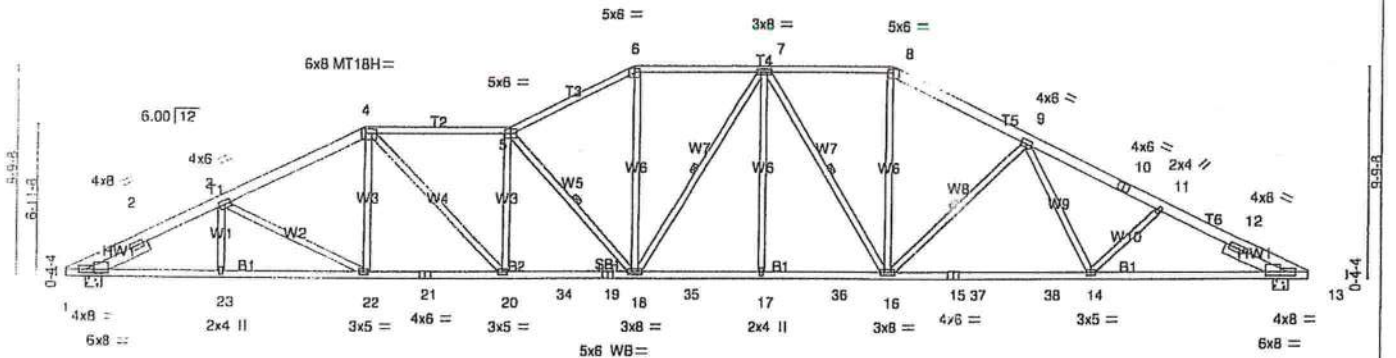
Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:33:15 2012 Page 1

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8-0-0	6-10-7	13-2-8	19-10-8	25-6-8	31-6-8	37-6-8	43-7-14	49-9-5	56-5-0
6-10-7	6-4-1	6-8-0	5-8-0	6-0-0	6-0-0	6-0-0	6-1-6	6-1-6	6-7-11

Scale = 1:94.7



8-0-0

8-0-0

0-10-8	6-10-7	13-2-8	19-10-8	25-6-8	31-6-8	37-6-8	46-8-9	55-6-8	56-5-0
0-10-8	5-11-15	6-4-1	6-8-0	5-8-0	6-0-0	6-0-0	9-2-1	8-9-15	0-10-8

Plate Offsets (X,Y): [1:0-4-0,0-2-0], [4:0-6-0,0-2-8], [6:0-3-0,0-2-0], [8:0-3-0,0-2-0], [13:0-4-0,0-2-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.52	Vert(LL)	0.36 18-20	>599	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.83	Vert(TL)	-0.81 14-16	>831	180	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(TL)	0.26 13	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)					Weight: 382 lb	FT = 0%

LUMBER

TOP CHORD 2x6 SYP No.2 *Except*
T2,T3,T4: 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E
SLIDER Left 2x6 SYP No.2 3-0-0, Right 2x6 SYP No.2 3-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-7 oc bracing.
WEBS 1 Row at midpt 5-18, 7-18, 7-16, 9-16

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

REACTIONS

(lb/size) 1=1810/0-8-0 (min. 0-2-6), 13=1831/0-8-0 (min. 0-2-6)
Max Horz 1=146(LC 7)
Max Uplift 1=400(LC 10), 13=339(LC 11)

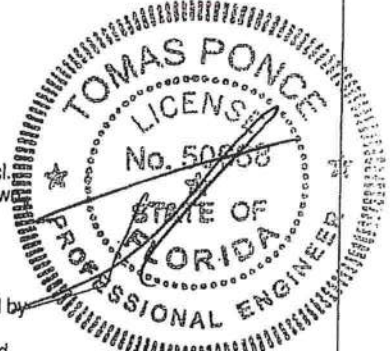
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-281/129, 2-3=-3378/1291, 3-4=-3211/1293, 4-5=-3678/1534, 5-6=-3219/1370, 6-7=-2880/1287, 7-8=-2590/1164, 8-9=-2928/1240, 9-10=-3297/1287, 10-11=-3319/1270, 11-12=-3372/1304, 12-13=-307/28
BOT CHORD 1-25=0/0, 1-1=-1043/2874, 1-23=-1043/2874, 22-23=-1043/2874, 21-22=-943/2771, 20-21=-943/2771, 20-34=-1263/3590, 19-34=-1263/3590, 18-19=-1263/3590, 18-35=-872/2704, 17-35=-872/2704, 17-36=-872/2704, 16-36=-872/2704, 15-16=-975/2822, 15-37=-975/2822, 37-38=-975/2822, 14-38=-975/2822, 13-14=-1051/2863, 13-30=0/0
WEBS 3-23=0/194, 3-22=-154/145, 4-22=0/305, 4-20=-445/1149, 5-20=-712/395, 5-18=-1336/596, 6-18=-371/1095, 7-18=-180/144, 7-17=0/288, 7-16=-614/226, 8-16=-327/1005, 9-16=-567/322, 9-14=-5/262, 11-14=0/211

NOTES (8)

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 400 lb uplift at joint 1 and 339 lb uplift at joint 13.

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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	H27X	SPECIAL	1	1	Job Reference (optional)	

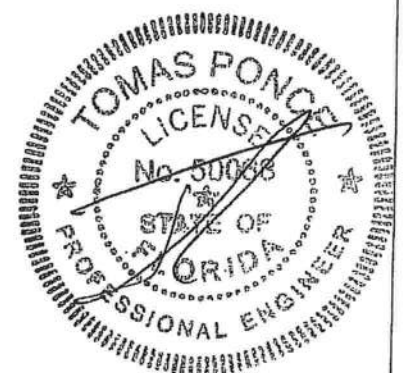
Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:33:16 2012 Page 2

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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_	Thomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluto, FL 32766 407-484-0037
SIERRA	H28X	SPECIAL	1	1	Job Reference (optional)	

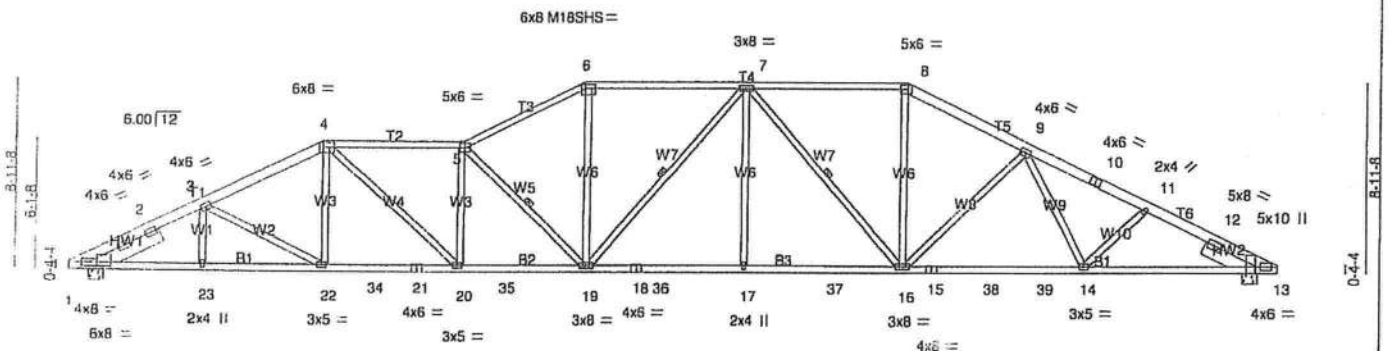
Maronda Homes Inc., Sanford, FL

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8-0-0	6-0-7	11-6-8	18-2-8	23-10-8	31-6-8	39-2-8	44-9-4	50-3-15	56-5-0
6-0-7	5-6-1	6-8-0	5-8-0	7-8-0	7-8-0	5-6-12	5-6-12	6-1-1	

Scale = 1:97.1



8-0-0

8-0-0

0-10-8 6-0-7	11-6-8	18-2-8	23-10-8	31-6-8	39-2-8	47-6-9	55-6-8	56-5-0
0-10-85-1-15	5-6-1	6-8-0	5-8-0	7-8-0	7-8-0	8-4-1	7-11-15	0-10-8

Plate Offsets (X,Y): [1:0-4-0,0-2-0], [4:0-6-0,0-2-8], [6:0-5-8,0-2-4], [8:0-4-0,0-2-8], [13:0-3-8,Edge], [13:0-1-14,0-1-13]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.54	Vert(LL)	0.39	19	>999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.75	Vert(TL)	-0.79	17-19	>855	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.45	Horz(TL)	0.27	13	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						
								Weight: 370 lb	FT = 0%

LUMBER

TOP CHORD 2x6 SYP No.2 *Except*
T2,T3,T4: 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
SLIDER Left 2x8 SYP No.2 3-6-0, Right 2x8 SYP No.2 2-7-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-2-13 oc bracing.
WEBS 1 Row at midpt 5-19, 7-19, 7-16

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

REACTIONS (lb/size) 1=1806/0-8-0 (min. 0-2-6), 13=1825/0-8-0 (min. 0-2-6)
Max Horz 1=132(LC 7)
Max Uplift 1=388(LC 10), 13=324(LC 11)

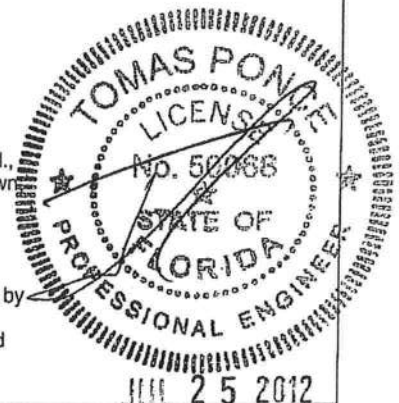
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-221/129, 2-3=-3321/1288, 3-4=-3267/1320, 4-5=-3979/1652, 5-6=-3448/1457, 6-7=-3092/1369, 7-8=-2681/1200, 8-9=-3019/1278, 9-10=-3280/1299, 10-11=-3312/1286, 11-12=-3340/1305, 12-13=-1372/467
BOT CHORD 1-25=0/0, 1-1=-1041/2816, 1-23=-1041/2816, 22-23=-1041/2816, 22-34=-1000/2838, 21-34=-1000/2838, 20-21=-1000/2838, 20-35=-1421/3911, 19-35=-1421/3911, 18-19=-1016/2986, 18-36=-1016/2986, 17-36=-1016/2986, 17-37=-1016/2986, 16-37=-1016/2986, 15-16=-1011/2858, 15-38=-1011/2858, 38-39=-1011/2858, 14-39=-1011/2858, 13-14=-1050/2819, 13-30=0/0, 3-23=0/158, 3-22=-104/157, 4-22=0/245, 4-20=-551/1411, 5-20=-834/443, 5-19=-1382/610, 6-19=-376/1158, 7-19=-286/121, 7-17=0/407, 7-16=-793/288, 8-16=-314/1018, 9-16=-470/269, 9-14=0/186, 11-14=-1/245

NOTES (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpl=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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 388 lb uplift at joint 1 and 324 lb uplift at joint 13.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluto, FL 32766 407-484-0037
SIERRA	H28X	SPECIAL	1	1	Job Reference (optional)	

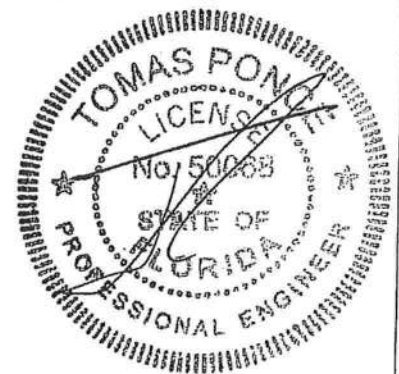
Maronda Homes Inc., Sanford, FL

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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