DATE 07/30/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000027219

APPLICANT PATRICK WILSON PHONE 904.296.1490

ADDRESS 6800 SOUTHPOINT PKWY. #300 JACKSONVILLE FL 32216

OWNER MARONDA HOMES INC.,OF FLORIDA PHONE 904.296.1490

ADDRESS 299 SW TIMBER RIDGE DRIVE LAKE CITY FL 32024

CONTRACTOR THEODORE C. BROCK PHONE 407.227.3504

LOCATION OF PROPERTY 90-W TO SR.247-S,TL TO C-252-B,TR TO TIMBER RIDGE,TL
9TH LOT ON R.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 153050.00

HEATED FLOOR AREA 2236.00 TOTAL AREA 3061.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC

LAND USE & ZONING RSF-1 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. ____

PARCEL ID 10-4S-16-02856-109 SUBDIVISION TIMBERLANDS

LOT 9 BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 0.50

000001643	____	CBC1256382	Patrick Wilson
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor

18"X32'MITERED	08-402	BLK	WR	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ELEVATION CONFIRMATION LETTER REQUIRED @ SLAB. MFE @ 100.00'.

Check # or Cash 918689

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power ____ date/app. by Foundation ____ date/app. by Monolithic ____ date/app. by

Under slab rough-in plumbing ____ date/app. by Slab ____ date/app. by Sheathing/Nailing ____ date/app. by

Framing ____ date/app. by Rough-in plumbing above slab and below wood floor ____ date/app. by

Electrical rough-in ____ date/app. by Heat & Air Duct ____ date/app. by Peri. beam (Lintel) ____ date/app. by

Permanent power ____ date/app. by C.O. Final ____ date/app. by Culvert ____ date/app. by

M/H tie downs, blocking, electricity and plumbing ____ date/app. by Pool ____ date/app. by

Reconnection ____ date/app. by Pump pole ____ date/app. by Utility Pole ____ date/app. by

M/H Pole ____ date/app. by Travel Trailer ____ date/app. by Re-roof ____ date/app. by

BUILDING PERMIT FEE $ 770.00 CERTIFICATION FEE $ 15.30 SURCHARGE FEE $ 15.30

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $ ____

FLOOD DEVELOPMENT FEE $ ____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 900.60

INSPECTORS OFFICE ____ CLERKS OFFICE CN

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County Building Permit Application

For Office Use Only Application # 0806-55 Date Received 6/27 By SW Permit # 27219-1643

Zoning Official BLK Date 14.07.08 Flood Zone X FEMA Map # N/A Zoning RSF-2

Land Use Res Low Den Elevation N/A MFE 100.0ft River N/A Plans Examiner GWR Date 7/3/08

Comments Elevation Confirmation Required/letter Required at Slab

NOC EH Deed or PA Site Plan State Road Info Parent Parcel #

Dev Permit # In Floodway Letter of Authorization from Contractor

Unincorporated area Incorporated area Town of Fort White Town of Fort White Compliance letter

Septic Permit No. 08-402 Fax (904)-332-6367

Name Authorized Person Signing Permit Theodore C. Brock / Patrick Wilson Phone (904)-296-1490

Address 6800 Southpoint Pkwy. #300 Jacksonville, FL 32216

Owners Name Maronda Homes Inc. of Florida Phone (904)-296-1490

911 Address 299 SW Timber Ridge Drive Lake City, FL, 32024

Contractors Name Theodore C. Brock Phone (407)-227-3504

Address 6800 Southpoint Pkwy. #300 Jacksonville, FL 32216

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Tomas Ponce 4005 Maronda Way Sanford, FL 32771

Mortgage Lenders Name & Address Bank of America 250 Park Ave. S. #400 Winter Park, FL 32789

Circle the correct power company – FL Power & Light – (Clay Elec.) – Suwannee Valley Elec. – Progress Energy

Property ID Number 10-4S-16-02856-109 Estimated Cost of Construction $91,890.00

Subdivision Name Timberlands Lot 9/1 Block 1 Unit Phase

Driving Directions Hwy 90, Left on 247 South; Right on 252B; Left on Timber Ridge, 9th Lot on Right.

Number of Existing Dwellings on Property 0

Construction of Residential Single Family Dwelling Total Acreage .50 Lot Size NA

Do you need a - (Culvert Permit) or Culvert Waiver or Have an Existing Drive Total Building Height NA

Actual Distance of Structure from Property Lines - Front 50.0' Side 27.0' Side 27.0' Rear 79.0'

Number of Stories 1 Heated Floor Area 2236 Total Floor Area 3061 Roof Pitch 12/6

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

CH-P-918689
I-918695

900.60

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Owners Signature Theodore C. Brock

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Contractor's Signature (Permitee) Theodore C. Brock

Contractor's License Number CBC1251038Z

Columbia County Competency Card Number

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 27 **day of** May **20**08.

Personally known XXX **or Produced Identification**

Melissa L. McKague

State of Florida Notary Signature (For the Contractor) Melissa L. McKague

SEAL:

Notary Public State of Florida
Melissa L McKague
My Commission DD493647
Expires 11/22/2009

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

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OWNERS CERTIFICATION: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Owners Signature Steve Hogg

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Contractor's Signature (Permitee)
Theodore C. Brock

Contractor's License Number CBC1256382
Columbia County
Competency Card Number

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 24 day of June 2008.

Personally known XXX or Produced Identification

Melissa L McKague

State of Florida Notary Signature (For the Contractor)
Melissa L. McKague

SEAL:

Notary Public State of Florida
Melissa L McKague
My Commission DD493647
Expires 11/22/2009

08-402

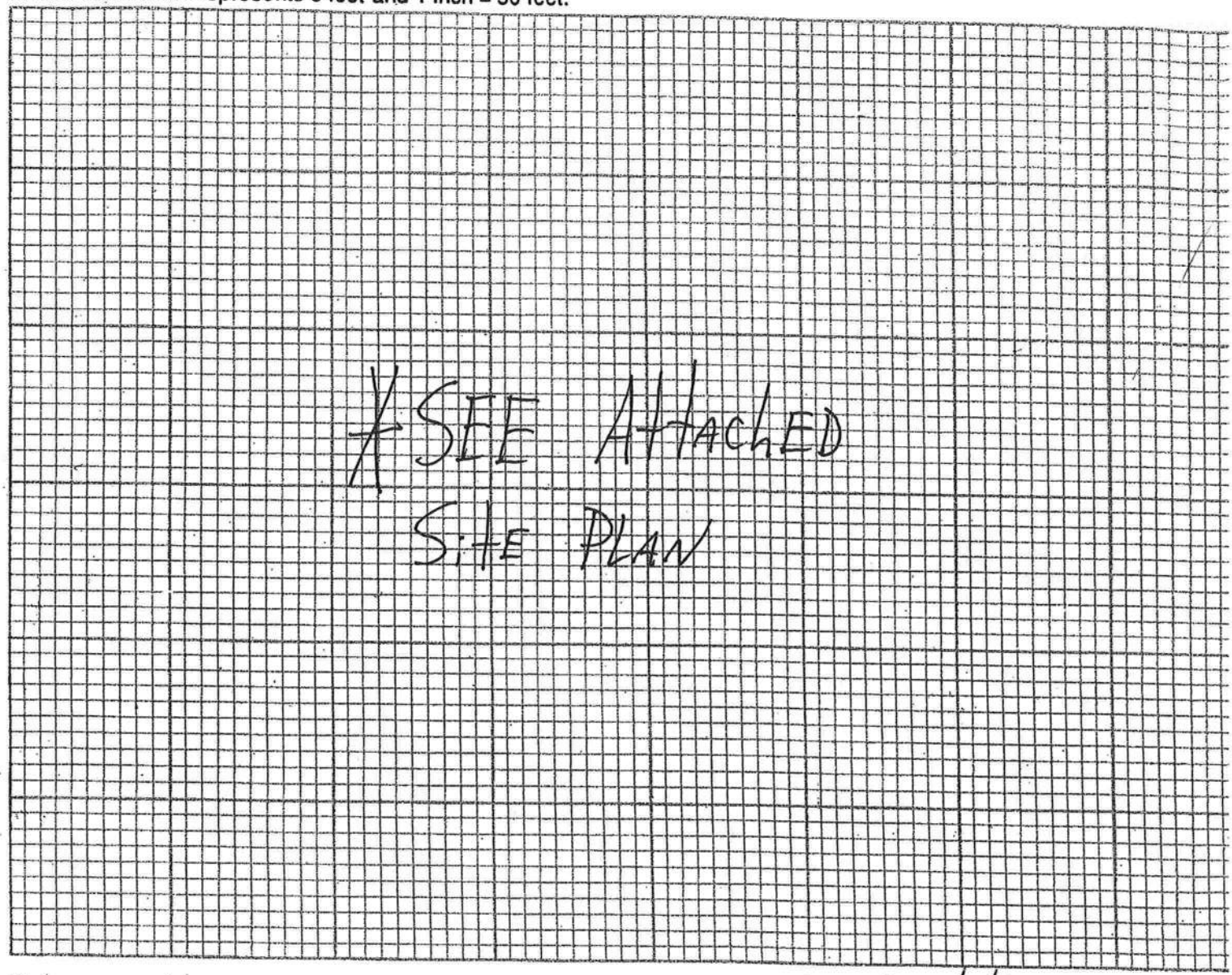
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number _____

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: * See Attached Site Plan

REVISED 6/25/8

X _____

Site Plan submitted by: _____ AGENT
Signature Title

Plan Approved X Not Approved _____ Date 6/19/8

By _____ County Health Departi

APPROVED

Columbia CHD

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

JT

30 0

1" = 30'

LEGEND:

- ● = FOUND 1/2" IDENTIFICATIO
- ⊙ = FOUND 1/2" L.B. 6894
- ○ = SET 1/2" RE L.B. 6894
- ⌀ = FOUND 3/4"
- ■ = FOUND 4" X NO IDENTIFIC
- □ = SET 4" X 4" P.S.M. 5582
- ✕ = SET NAIL &
- ✕ = FOUND NAIL
- ⊠ = FOUND 6" X R/W MON.
- ⊟ = CATV RISER
- ⊡ = TELEPHONE
- ⌀ = WOOD POWE

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BOARD OF
STATUTES.

BY:
JAMES E.

DATE:

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PH

SCALE: 1" = 30'
DATE: 5/19/08
FIELD WORK CO
PREPARED FOR:

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LEGAL DESCRIPTION:

LOT NINE (9) OF "TIMBERLANDS" AS PER PLAT THEREOF, AS RECORDED IN PLAT BOOK '9', PAGE 27 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

W

CERTIFIED TO:

1) MARONDA HOMES

REVISED 6/25/8

X

BUILDING SETBACK NOTE:

BUILDING SETBACK INFORMATION FOR "TIMBERLANDS" IS AS FOLLOWS: FRONT 25', REAR 15', SIDE 10'

APPROVED

Columbia CHD

SURVEYOR NOTES:

1) TO THE BEST OF MY KNOWLEDGE, THERE ARE NO ENCROACHMENTS, BOUNDARY LINE DISPUTES, EASEMENTS, OR CLAIMS OF EASEMENTS, OTHER THAN ARE DEPICTED ON THIS DRAWING.
2) ALL UTILITIES AND OR IMPROVEMENTS, IF ANY, MAY NOT BE SHOWN ON THIS DRAWING.
3) IN THE OPINION OF THIS SURVEYOR THE BOUNDARY SHOWN HEREON BEST REPRESENTS THE LOCATION OF THE SUBJECT PROPERTY IN RELATION TO THE DESCRIPTION AND THOSE PROPERTY CORNERS FOUND TO BE ACCEPTABLE TO THIS SURVEYOR.
4) BUILDING SETBACK LINES DEPICTED HEREON ARE SHOWN AS PER THE RECORD PLAT, BUT ARE SUBJECT TO CHANGE. PRIOR TO ANY NEW CONSTRUCTION, THE APPROPRIATE GOVERNING AUTHORITY SHOULD BE CONTACTED FOR THE CURRENT SETBACK REQUIREMENTS.
5) THIS MAP OF SURVEY REFLECTS CONDITIONS LOCATED AS OF THE DATE OF FIELD WORK COMPLETION (SEE TITLE BLOCK).
6) AREAS OF ENVIRONMENTAL CONCERN HAVE NOT BEEN LOCATED BY THIS SURVEYOR, UNLESS OTHERWISE DEPICTED HEREON.

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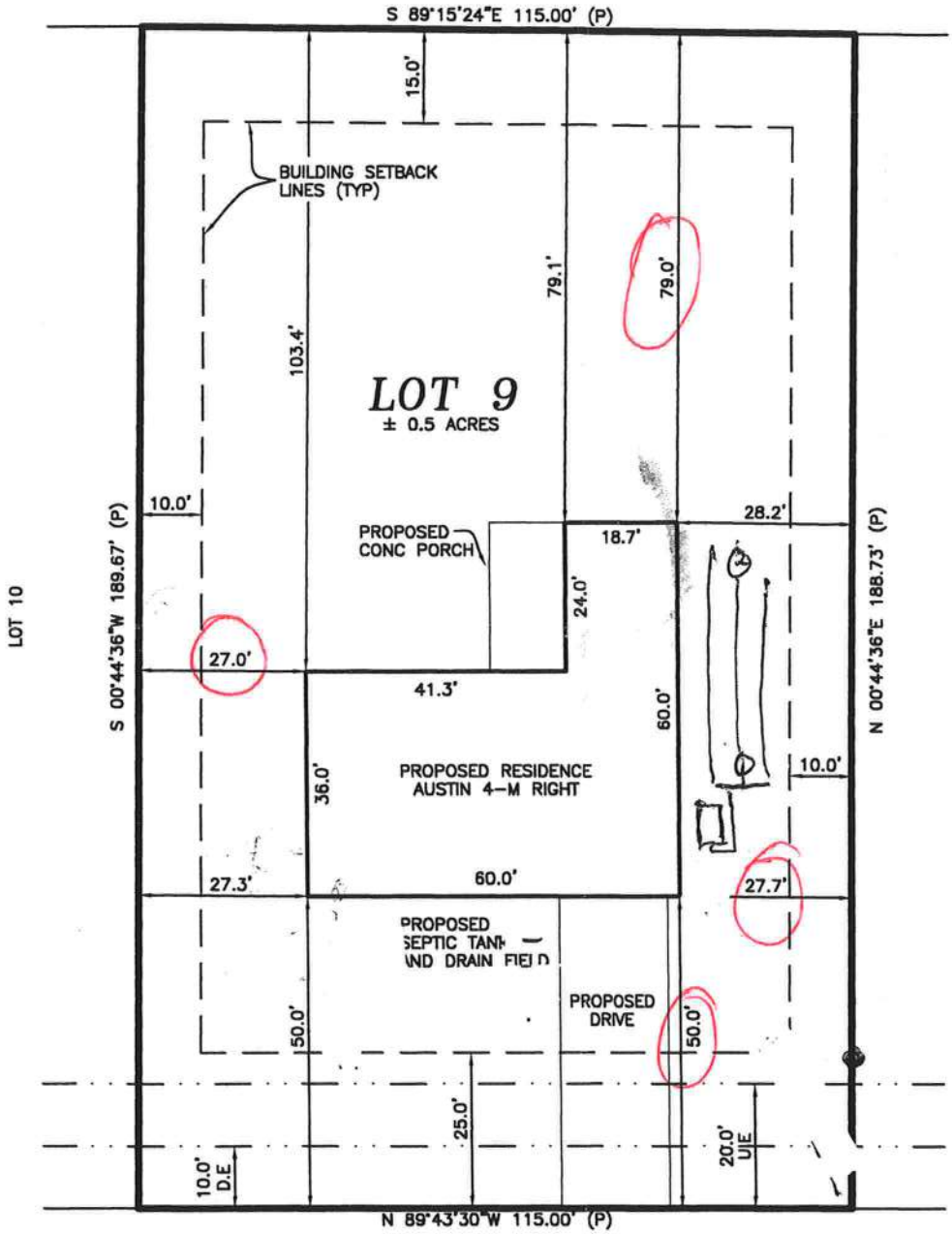
PROPOSED BUILDING LAYOU

IN SECTION 10, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA



S.W. TIMBER RIDGE DRIVE

60' RIGHT-OF-WAY

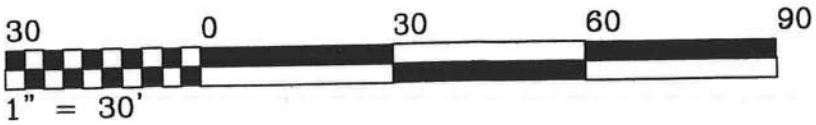
LOOD NOTE:

THE OPINION OF THIS SURVEYOR, ACCORDING TO THE ATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE AP COMMUNITY PANEL NO. 120070-0175-B, DATED 1-6-88, HIS PROPERTY IS IN FLOOD ZONE "X" WHICH IS AN AREA ETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN, AS CALED FROM SAID MAP. INFORMATION FROM THE FEDERAL MERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE ATE MAPS, SHOWN ON THIS MAP, WAS CURRENT AS OF THE EFERENCED DATE. MAP REVISIONS AND AMENDMENTS ARE ERIODICALLY MADE BY LETTER AND MAY NOT BE REFLECTED N THE MOST CURRENT MAP.

TITLE NOTE:

THIS SURVEY IS SUBJECT TO ANY FACTS THAT MA DISCLOSED BY A FULL AND ACCURATE TITLE SEAR SURVEYOR HAS NOT PERFORMED A SEARCH OF T PUBLIC RECORDS ON THIS PARCEL FOR ANY CLAI TITLE, EASEMENTS, OR RESTRICTIONS THAT MAY EF THIS PARCEL. THE PRESENCE OR ABSENCE OF AN CLAIMS ARE NOT CERTIFIED HEREON.

JT



LEGEND:

- ● = FOUND 1/2" REBAR NO IDENTIFICATION
- ⊙ = FOUND 1/2" REBAR & CAP L.B. 6894
- ○ = SET 1/2" REBAR & CAP L.B. 6894
- ⌀ = FOUND 3/4" IRON PIPE
- ■ = FOUND 4" X 4" CONC. MON. NO IDENTIFICATION
- □ = SET 4" X 4" CONC. MON. P.S.M. 5582
- ⊠ = SET NAIL & DISK P.S.M. 5582
- ✕ = FOUND NAIL & DISK
- ⊠ = FOUND 6" X 6" S.R.D. R/W MON.
- ⊟ = CATV RISER
- ⊡ = TELEPHONE PEDESTAL
- ⌀ = WOOD POWER POLE

ABBREVIATIONS:

A/C = AIR CONDITIONER
ASPH = ASPHALT
C = CALCULATED FROM MEASURED
CATV = CABLE TELEVISION
C/B = CONCRETE BLOCK
CLF = CHAIN LINK FENCE
CM = CONCRETE MONUMENT
CONC = CONCRETE
ELEC = ELECTRIC
ELEV = ELEVATION
FND = FOUND
FNC = FENCE
LB = LICENSED SURVEYOR BUSINESS
(M) = FIELD MEASURED
MH = MANHOLE
O.U. = OVERHEAD UTILITIES
P = PLAT
PB = PLAT BOOK
P.U.E. = PUBLIC UTILITIES EASEMENT
TRANS = TRANSFORMER
TYP = TYPICAL
WM = WATER METER
WV = WATER VALVE

THIS IS NOT A BOUNDARY SURVEY

CERTIFICATE OF SURVEYOR:

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO THIS MAP BY ANYONE OTHER THAN THIS SURVEYOR IS PROHIBITED.

I HEREBY CERTIFY THAT THE SURVEY DATA SHOWN HEREON, IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY PERFORMED UNDER MY SUPERVISION OF THE HEREON DESCRIBED PROPERTY, AND IT MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, AND CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE.

BY: _____
JAMES E. BRINKMAN, PSM – FLA. CERT# 5582

DATE: 5/20/08

BRINKMAN SURVEYING & MAPPING INC.

4607 NW 6th STREET SUITE C, GAINESVILLE, FL 32609

PHONE: (352) 374-7707 FAX: (352) 374-8757

SCALE: 1" = 30'	"THE BENCHMARK IN QUALITY SERVICE"	DRAWN BY: ZL
DATE: 5/19/08		CHECKED BY: J.B.
FIELD WORK COMPLETED ON **** FIELDBOOK **, PAGE **		
PREPARED FOR: MARONDA		DRAWING NUMBER 114-08

FORM 600A-2004R

EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

9/1 TM

Project Name:	AUSTIN 4 BDR GAINESVILLE	Builder:	MARONDA HOMES
Address:	299 SW Timber Ridge Dr.	Permitting Office:	Columbia
City, State:	Lake City, FL 32615	Permit Number:	27219
Owner:	ELECTRIC	Jurisdiction Number:	22000
Climate Zone:	North		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	4	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	2236 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
	a. U-factor: (or Single or Double DEFAULT)	7a (Sngle Default) 177.0 ft²	
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 177.0 ft²	
8.	Floor types		
	a. Slab-On-Grade Edge Insulation	R=0.0, 219.0(p) ft	
	b. N/A		
	c. N/A		
9.	Wall types		
	a. Concrete, Int Insul, Exterior	R=4.1, 1199.0 ft²	
	b. Frame, Steel, Adjacent	R=13.0, 320.0 ft²	
	c. N/A		
	d. N/A		
	e. N/A		
10.	Ceiling types		
	a. Under Attic	R=19.0, 2450.0 ft²	
	b. N/A		
	c. N/A		
11.	Ducts		
	a. Sup: Unc. Ret: Con. AH(Sealed):Interior	Sup. R=6.0, 200.0 ft	
	b. N/A		

12.	Cooling systems		
	a. Central Unit	Cap: 40.5 kBtu/hr	
		SEER: 13.00	
	b. N/A		
	c. N/A		
13.	Heating systems		
	a. Electric Heat Pump	Cap: 40.5 kBtu/hr	
		HSPF: 8.10	
	b. N/A		
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 50.0 gallons	
		EF: 0.90	
	b. N/A		
	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,	

Glass/Floor Area: 0.08

Total as-built points: 28950

Total base points: 30537

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: Wayne Campbell 05/27/08

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: Melissa Mycapne

DATE: Melissa Mycapne 05/27/08

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2236.0	18.59	7482.0	1.Single, Clear	W	1.0	6.0	16.0	43.84	0.97	680.0	
				2.Single, Clear	N	1.0	6.0	16.0	21.73	0.97	338.0	
				3.Single, Clear	W	1.0	3.0	5.0	43.84	0.85	186.0	
				4.Single, Clear	W	1.0	7.0	30.0	43.84	0.98	1294.0	
				5.Single, Clear	W	1.0	8.0	40.0	43.84	0.99	1734.0	
				6.Single, Clear	E	1.0	6.0	20.0	47.92	0.97	927.0	
				7.Single, Clear	E	1.0	6.0	20.0	47.92	0.97	927.0	
				8.Single, Clear	E	1.0	6.0	30.0	47.92	0.97	1394.0	
				As-Built Total:				**177.0**			**7480.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	320.0	0.70	224.0	1. Concrete, Int Insul, Exterior			4.1	1199.0	1.13		1360.9	
Exterior	1199.0	1.70	2038.3	2. Frame, Steel, Adjacent			13.0	320.0	0.90		288.0	
Base Total:	**1519.0**		**2262.3**	**As-Built Total:**				**1519.0**			**1648.9**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	18.0	2.40	43.2	1.Adjacent Wood				18.0	2.40		43.2	
Exterior	20.0	6.10	122.0	2.Exterior Insulated				20.0	4.10		82.0	
Base Total:	**38.0**		**165.2**	**As-Built Total:**				**38.0**			**125.2**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	2236.0	1.73	3868.3	1. Under Attic			19.0	2450.0	2.34 X 1.00		5733.0	
Base Total:	**2236.0**		**3868.3**	**As-Built Total:**				**2450.0**			**5733.0**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	219.0(p)	-37.0	-8103.0	1. Slab-On-Grade Edge Insulation			0.0	219.0(p	-41.20		-9022.8	
Raised	0.0	0.00	0.0									
Base Total:			**-8103.0**	**As-Built Total:**				**219.0**			**-9022.8**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	2236.0	10.21	22829.6					2236.0	10.21		22829.6	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 28504.3			**Summer As-Built Points:**					**28793.8**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 40500btuh ,SEER/EFF(13.0) Ducts:Unc(S),Con(R),Int(AH),R6.0(INS)					
			28794	1.00	(1.08 x 1.147 x 0.86)	0.260	0.950	7623.4
28504.3	**0.3250**	**9263.9**	**28793.8**	**1.00**	**1.072**	**0.260**	**0.950**	**7623.4**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2236.0	20.17	8118.0	1.Single, Clear	W	1.0	6.0	16.0	28.84	1.01	465.0	
				2.Single, Clear	N	1.0	6.0	16.0	33.22	1.00	531.0	
				3.Single, Clear	W	1.0	3.0	5.0	28.84	1.04	150.0	
				4.Single, Clear	W	1.0	7.0	30.0	28.84	1.00	869.0	
				5.Single, Clear	W	1.0	8.0	40.0	28.84	1.00	1157.0	
				6.Single, Clear	E	1.0	6.0	20.0	26.41	1.02	536.0	
				7.Single, Clear	E	1.0	6.0	20.0	26.41	1.02	536.0	
				8.Single, Clear	E	1.0	6.0	30.0	26.41	1.02	804.0	
				As-Built Total:				**177.0**			**5048.0**	
WALL TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM	=	Points	
Adjacent	320.0	3.60	1152.0	1. Concrete, Int Insul, Exterior			4.1	1199.0	6.42		7697.6	
Exterior	1199.0	3.70	4436.3	2. Frame, Steel, Adjacent			13.0	320.0	4.90		1568.0	
Base Total:	**1519.0**		**5588.3**	**As-Built Total:**				**1519.0**			**9265.6**	
DOOR TYPES	Area X	BWPM	= Points	Type				Area X	WPM	=	Points	
Adjacent	18.0	11.50	207.0	1.Adjacent Wood				18.0	11.50		207.0	
Exterior	20.0	12.30	246.0	2.Exterior Insulated				20.0	8.40		168.0	
Base Total:	**38.0**		**453.0**	**As-Built Total:**				**38.0**			**375.0**	
CEILING TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	2236.0	2.05	4583.8	1. Under Attic			19.0	2450.0	2.70 X	1.00	6615.0	
Base Total:	**2236.0**		**4583.8**	**As-Built Total:**				**2450.0**			**6615.0**	
FLOOR TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM	=	Points	
Slab	219.0(p)	8.9	1949.1	1. Slab-On-Grade Edge Insulation			0.0	219.0(p	18.80		4117.2	
Raised	0.0	0.00	0.0									
Base Total:			**1949.1**	**As-Built Total:**				**219.0**			**4117.2**	
INFILTRATION	Area X	BWPM	= Points					Area X	WPM	=	Points	
	2236.0	-0.59	-1319.2					2236.0	-0.59		-1319.2	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**19373.0**	**Winter As-Built Points:**					**24101.5**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 40500 btuh ,EFF(8.1) Ducts:Unc(S),Con(R),Int(AH),R6.0					
			24101.5	1.000	(1.060 x 1.169 x 0.88)	0.421	0.950	10552.7
19373.0	**0.5540**	**10732.6**	**24101.5**	**1.00**	**1.095**	**0.421**	**0.950**	**10552.7**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4		2635.00	10540.0	50.0	0.90	4	1.00	2693.56	1.00	10774.2	
				As-Built Total:							**10774.2**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
9264	**10733**	**10540**	**30537**	**7623**	**10553**	**10774**	**28950**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	✓
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	✓
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	✓
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	✓
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	✓
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	✓
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	✓

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	✓
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	✓
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	✓
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	✓
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	✓

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.8

The higher the score, the more efficient the home.

ELECTRIC, , , ,

1.	New construction or existing	New		12. Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 40.5 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	4		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	2236 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area		13. Heating systems	
	(or Single or Double DEFAULT)	7a (Sngle Default) 177.0 ft²		a. Electric Heat Pump	Cap: 40.5 kBtu/hr
	b. SHGC:				HSPF: 8.10
	(or Clear or Tint DEFAULT)	7b. (Clear) 177.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 219.0(p) ft		c. N/A	
	b. N/A				
	c. N/A			14. Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 50.0 gallons
	a. Concrete, Int Insul, Exterior	R=4.1, 1199.0 ft²			EF: 0.90
	b. Frame, Steel, Adjacent	R=13.0, 320.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=19.0, 2450.0 ft²		15. HVAC credits	PT,
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Con. AH(Sealed):Interior	Sup. R=6.0, 200.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: Melissa McGaye Date: 05/27/08

Address of New Home: 299 SW Timber Ridge Dr City/FL Zip: Lake City, Fl 32025

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

Inst:200812014276 Date:7/31/2008 Time 9:16 AM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1155 P:1860

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 10-4S-16-02856-109

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT.**

1. Description of property *(legal description)*: 299 SW Timber Ridge Dr.
   a) Street *(job)* Address: ____
2. General description of improvements: construction of a single family dwelling

3. Owner Information
   a) Name and address: Maronda Homes Inc of FL 6800 Southpoint Pkwy #300 Jax FL 32216
   b) Name and address of fee simple titleholder (if other than owner) ____
   c) Interest in property ____
4. Contractor Information
   a) Name and address: Maronda Homes Inc of FL 6800 Southpoint Pkwy #300 Jax FL 32216
   b) Telephone No. (904) 296-1490 Fax No. (Opt.) (904) 332-6375
5. Surety Information
   a) Name and address: ____
   b) Amount of Bond: ____
   c) Telephone No.: ____ Fax No. (Opt.) ____
6. Lender
   a) Name and address: ____
   b) Phone No. ____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: Southern Title Holding Co LLC 3945 Baymeadows Rd Jax FL 32217
   b) Telephone No.: (904) 734-2205 Fax No. (Opt.) ____

8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name and address: ____
   b) Telephone No.: ____ Fax No. (Opt.) ____

9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**: ____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. _____
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

Theodore C. Brock
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 27 day of May, 20 08, by: Theodore C. Brock as V.P. of Construction **(type of authority, e.g. officer, trustee, attorney fact)** for Maronda Homes Inc of Florida **(name of party on behalf of whom instrument was executed).**

Personally Known XX OR Produced Identification ____ Type ____

Notary Signature Melissa L McKague

Notary Stamp or Seal:

Notary Public State of Florida
Melissa L McKague
My Commission DD493647
Expires 11/22/2009

—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

_____
Signature of Natural Person Signing (in line #10 above.)

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001643

DATE 07/30/2008 PARCEL ID # 10-4S-16-02856-109

APPLICANT PATRICK WILSON PHONE 904.296.1490

ADDRESS 6800 SOUTHPOINT PKWY. #300 JACKSONVILLE FL 32216

OWNER MARONDA HOMES INC. OF FLORIDA PHONE 904.296.1490

ADDRESS 299 SW TIMBER RIDGE DRIVE LAKE CITY FL 32024

CONTRACTOR THEODORE C. BROCK PHONE 407.227.3504

LOCATION OF PROPERTY 90-W TO SR.247-S,TL TO C-252-B,TR TO TIMBER RIDGE,TL

9TH LOT ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT TIMBERLANDS 9

SIGNATURE

INSTALLATION REQUIREMENTS

[X] Culvert size will be 18 inches in diameter with a total lenght of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00

COLUMBIA COUNTY FLORIDA

Maronda Systems

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
9TM00901	9-1	299 SW TIMBER RIDGE DR	JAX-9TM	AUSM4 RIGHT

AUSTIN M4

This structure was designed in accordance with, and meets the requirements of TPI standards and the FLORIDA 2004 BUILDING CODE for 125 M.P.H. Wind Zone. Truss loading is in accordance with ASCE 7-02. These trusses are designed for an enclosed building.

The Truss Engineering package for the above referenced site was generated by the Truss Designer/Architect/MiTek/Trenco.
I, Tomas Ponce, P.E. the Architect/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
Layout	10/10/07	✓	MHGRD1	11/21/07	✓
V	07/27/05		RG1	11/21/07	
HIP	11/02/06		S1A	11/21/07	
GRD2S	01/03/08		S1B	11/21/07	
H1	11/21/07		T2	11/21/07	
H6	11/21/07		V1	11/21/07	
H7	11/21/07		V10	11/21/07	
H8	11/21/07		V11	11/21/07	
H9	11/21/07		V12	11/21/07	
HGRD1	11/21/07		V13	11/21/07	
HGRD3	11/21/07		V15	11/21/07	
HS1A	11/21/07		V16	11/21/07	
HS2A	11/21/07		V17	11/21/07	
HS3A	11/21/07		V18	11/21/07	
HS4	11/21/07		V19	11/21/07	
HS5	11/21/07		V20	11/21/07	
HSGRD1	11/21/07		V7	11/21/07	
J	11/21/07		V8	11/21/07	
J1	11/21/07		V9	11/21/07	✓
J2	11/21/07				
J3	11/21/07				
J5S	11/21/07				
J5SA	11/21/07				
J6S	11/21/07				
J7S	11/21/07				
JGRD1	11/21/07				
JGRD3	11/21/07				
JS1	11/21/07				
JS2	11/21/07				
JS3	11/21/07				
JSA	11/21/07				
JSGRD1	11/21/07				
M1	11/21/07				
MH1	11/21/07				
MH2	11/21/07				
MH3	11/21/07				
MH4	11/21/07	✓			

No. of Eng. Dwgs: 56

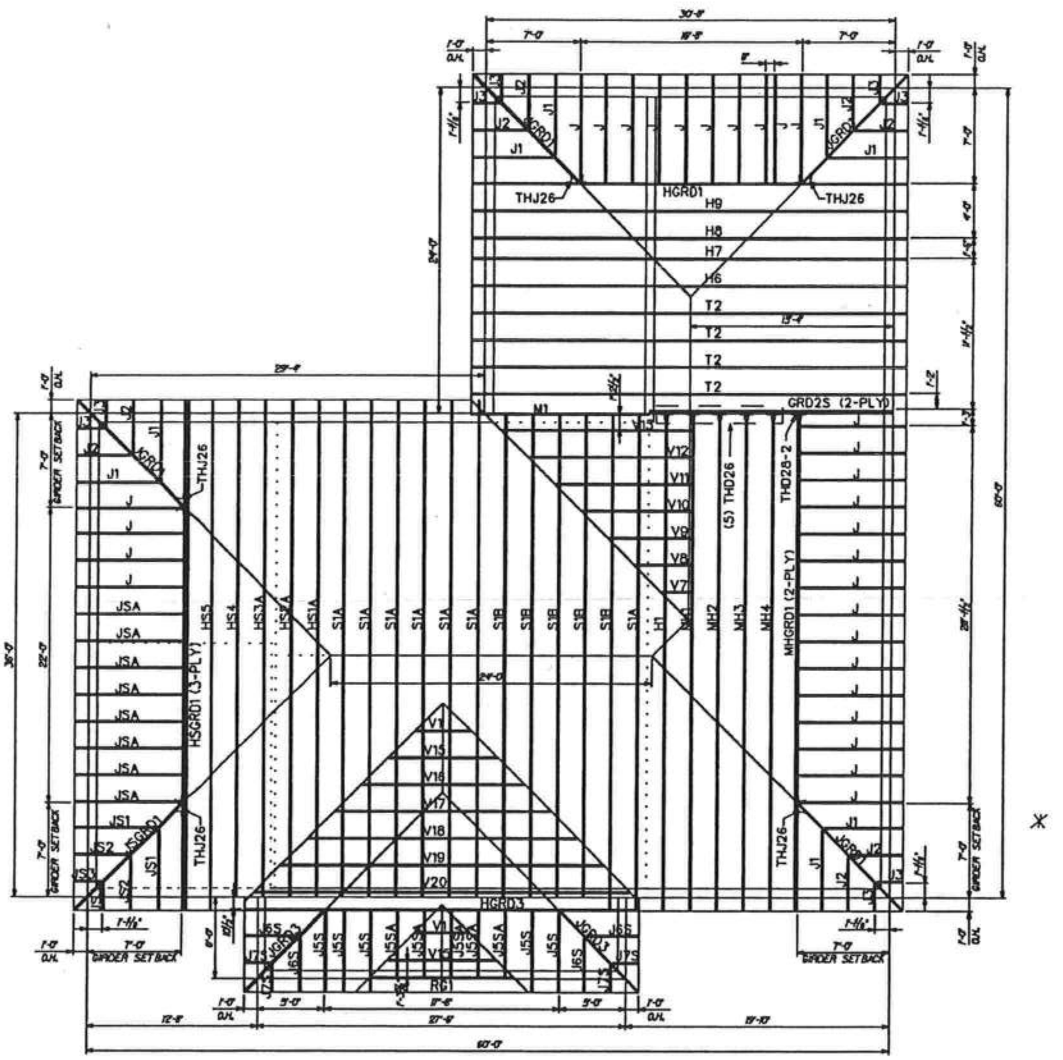
Roof Loads-

TC Live:	16.0 psf
TC Dead:	7.0 psf
BC Live:	10.0 psf
BC Dead:	10.0 psf
Total	43.0 psf

DurFac- Lbr:	1.25
DurFac- Plt:	1.25
O.C. Spacing:	24.0"

INV #	DESC	QNTY
18331	THD26	5
18330	THD28	
18357	SKHH26R	
18357	SKHH26L	
18363	JUS26	
18370	THJ26	5
18336	THD28-2	1
SEAT PLATES		

DATE: MAY 16 2008



HARDWARE LEGEND

1	HUS26
2	HUS28
3	JUS26
4	MP6F
5	MPA1 & MPA1F
6	SKH26 L/R
7	SKHH26 L/R
8	SUS26
9	SUS28
10	THD26
11	THD28
12	THD28-2
13	THDH28-3
14	THD48
15	THJ26**
16	LTW12

MAY 16 2008

HARDWARE MANUFACTURED BY USP

* HARDWARE MANUFACTURED BY SIMPSON

** HARDWARE MANUFACTURED BY CLEVELAND

AUSTIN 4 "M" - FL

GARAGE: RIGHT

Maronda Homes

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

DESIGNER: CP DRAWN BY: EJ

CHECKER: MIKE

SCALE: 1/8" = 1'-0"

DATE: 10/10/2007

LOADING-FBC2004/TPI2002

TC LIVE	16.00	SNOW LOAD	0.00
TC DEAD	7.00	LUMBER DOL	1.25
BC LIVE	10.00	PLATE DOL	1.25
BC DEAD	10.00	WIND	125
TOTAL	43.00	SPACING	2'-0"

MITEK 2000 LAYOUT SYSTEM

1.800.848.3587 - mitsupport@mii.com

WARNING! BCSI-B1 SUMMARY SHEET - GUIDE FOR HA

GENERAL NOTES

Trusses are not marked in any way to identify the frequency or location of temporary lateral restraint and diagonal bracing. Follow the recommendations for handling, installing and temporary restraining and bracing of trusses. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for more detailed information.

Truss Design Drawings may specify locations of permanent lateral restraint or reinforcement for individual truss members. Refer to the BCSI-B3 Summary Sheet – Permanent Restraint/Bracing of Chords & Web Members for more information. All other permanent bracing design is the responsibility of the Building Designer.

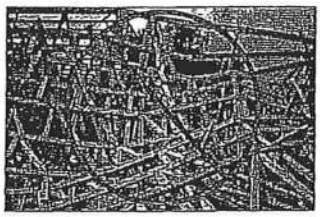
NOTAS GENERALES

Los trusses no están marcados de ningún modo que identifique la frecuencia o localización de restricción lateral y arriostre diagonal temporales. Use las recomendaciones de manejo, instalación, restricción y arriostre temporal de los trusses. Vea el folleto BCSI Guía de Buena Práctica para el Manejo, Instalación, Restricción y Arriostre de los Trusses de Madera Conectados con Placas de Metal para información más detallada.

Los dibujos de diseño de los trusses pueden especificar las localizaciones de restricción lateral permanente o refuerzo en los miembros individuales del truss. Vea la hoja resumen BCSI-B3 – Restricción/Arriostre Permanente de Cuerdas y Miembros Secundarios para más información. El resto de los diseños de arriostres permanentes son la responsabilidad del Diseñador del Edificio.

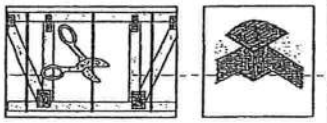
⚠ The consequences of improper handling, erecting, installing, restraining and bracing can result in a collapse of the structure, or worse, serious personal injury or death.

El resultado de un manejo, levantamiento, instalación, restricción y arrisotre incorrecto puede ser la caída de la estructura o aún peor, heridos o muertos.



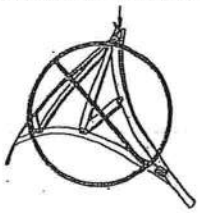
⚠ Banding and truss plates have sharp edges. Wear gloves when handling and safety glasses when cutting banding.

Empaques y placas de metal tienen bordes afilados. Use guantes y lentes protectores cuando corte los empaques.



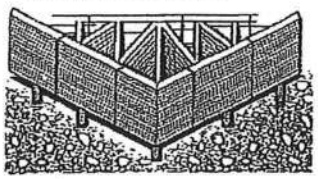
HANDLING — MANEJO

⚠ Avoid lateral bending. — Evite la flexión lateral.



⚠ The contractor is responsible for properly receiving, unloading and storing the trusses at the jobsite.

El contratista tiene la responsabilidad de recibir, descargar y almacenar adecuadamente los trusses en la obra.



☑ If trusses are to be stored horizontally, place blocking of sufficient height beneath the stack of trusses at 8' to 10' on center.

For trusses stored for more than one week, cover bundles to prevent moisture gain but allow for ventilation.

Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for more detailed information pertaining to handling and jobsite storage of trusses.

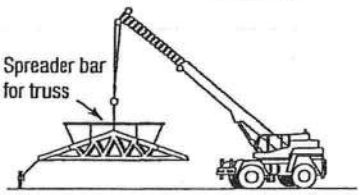
Si los trusses estarán guardados horizontalmente, ponga bloqueando de altura suficiente detrás de la pila de los trusses.

Para trusses guardados por más de una semana, cubra los paquetes para prevenir aumento de humedad pero permita ventilación.

Vea el folleto BCSI Guía de Buena Práctica para el Manejo, Instalación, Restricción y Arriostres de los Trusses de Madera Conectados con Placas de Metal para información más detallada sobre el manejo y almacenado de los trusses en área de trabajo.

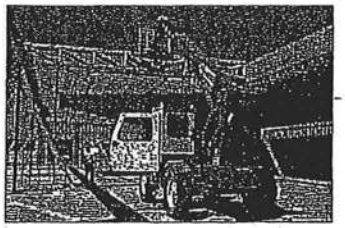
⚠ Use special care in windy weather or near power lines and airports.

Utilice cuidado especial en días ventosos o cerca de cables eléctricos o de aeropuertos.



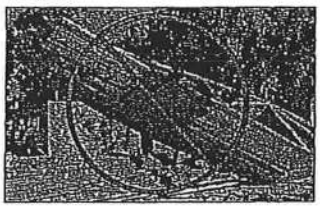
☑ Use proper rigging and hoisting equipment.

Use equipo apropiado para levantar e improvisar.



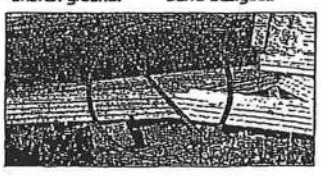
⊘ Do not store unbraced bundles upright.

No almacene verticalmente los trusses sueltos.



⊘ Do not store on uneven ground.

No almacene en tierra desigual.

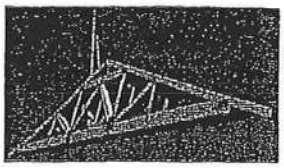


HOISTING RECOMMENDATIONS FOR TRUSS BUNDLES
RECOMENDACIONES PARA LEVANTAR PAQUETES DE TRUSSES.

⚠ Warning! Don't overload the crane.
¡Advertencia! ¡No sobrecarga la grúa!

⊘ Never use banding alone to lift a bundle. Do not lift a group of individually banded bundles.

Nunca use sólo los empaques para levantar un paquete. No levante un grupo de empaques individuales.



☑ A single lift point may be used for bundles with trusses up to 45'.
Two lift points may be used for bundles with trusses up to 60'.
Usé at least 3 lift points for bundles with trusses greater than 60'.

Puede usar un solo lugar de levantar para paquetes de trusses hasta 45 pies.
Puede usar dos puntos de levantar para paquetes más de 60 pies.
Use por lo menos tres puntos de levantar para paquetes más de 60 pies.

⚠ Warning! Do not over load supporting structure with truss bundle.

¡Advertencia! No sobrecargue la estructura apoyada con el paquete de trusses.

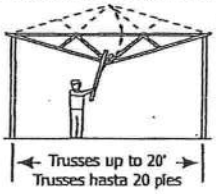
☑ Place truss bundles in stable position.

Puse paquetes de trusses en una posición estable.

INSTALLATION OF SINGLE TRUSSES BY HAND
INSTALACIÓN POR LA MANO DE TRUSSES INDIVIDUALES

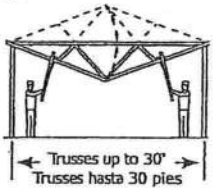
☑ Trusses 20' or less, support at peak.

Levante del pico los trusses de 20 pies o menos.



☑ Trusses 30' or less, support at quarter points.

Levante de los cuartos de tramo los trusses de 30 pies o menos.



HOISTING OF SINGLE TRUSSES — LEVANTAMIENTO DE TRUSSES INDIVIDUALI

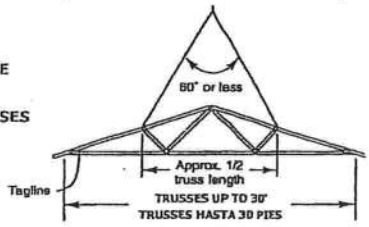
☑ Hold each truss in position with the erection equipment until top chord temporary lateral restraint is installed and the truss is fastened to the bearing points.

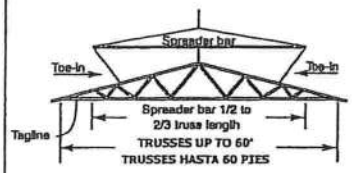
Sostenga cada truss en posición con equipo de grúa hasta que la restricción lateral temporal de la cuerda superior esté instalado y el truss está asegurado en los soportes.

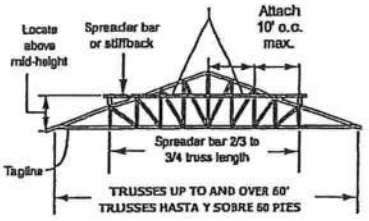
⚠ Warning! Using a single pick-point at the peak can damage the truss.

¡Advertencia! El uso de un solo lugar para levantar en el pico puede hacer daño al truss.

HOISTING RECOMMENDATIONS FOR SINGLE TRUSSES
RECOMENDACIONES PARA LEVANTAR TRUSSES INDIVIDUALES



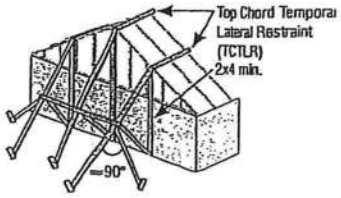




TEMPORARY RESTRAINT & BRACING
RESTRICCIÓN Y ARRIOSTRE TEMPORAL

⚠ Refer to BCSI-B2 Summary Sheet – Truss Installation & Temporary Restraint/Bracing for more information.

Vea el resumen BCSI B2 – Restricción/ Arriostre Temporal y Instalación de los Trusses para más información.

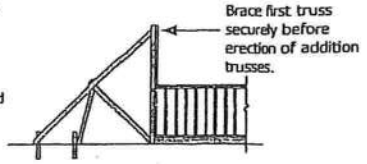


☑ Locate ground braces for first truss directly in line with all rows of top chord temporary lateral restraint (see table in the next column).

Coloque los arriostres de tierra para el primer truss directamente en linea con cada una de las filas de restricción lateral temporal de la cuerda superior (vea la table en la próxima columna).

⊘ Do not walk on unbraced trusses.

No camine en trusses sueltos.



¡ADVERTENCIA! HOJA RESUMEN DE LA GUÍA DE BUENA PRÁCTICA PAR

LING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES (2006 EDITION)

TEPS TO SETTING TRUSSES
AS MEDIDAS DE LA INSTALLACIÓN 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 cuatro 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 estable los primeros cinco trusses (vea abajo). 6) Instale la restricción lateral temporal y arriostre diagonal para la cuerda inferior (vea abajo). 7) Repita éste procedimiento en grupos de cuatro trusses hasta que todos los trusses estén instalados.

Refer to BCSI-B2 Summary Sheet – Truss Installation & Temporary Restraint/Bracing for more information.

Vea el resúmen BCSI-B2 - Instalación de Trusses y Arriostre Temporal para mayor información.

ESTRAINT/BRACING FOR ALL PLANES OF TRUSSES
- RESTRICCIÓN/ARRIOSTRE EN TODOS PLANOS DE TRUSSES.

This restraint & bracing method is for all trusses except 3x2 and 4x2 parallel chord trusses.

Este método de restricción y arriostre es para todo trusses excepto trusses de cuerdas paralelas 3x2 y 4x2.

) TOP CHORD — CUERDA SUPERIOR

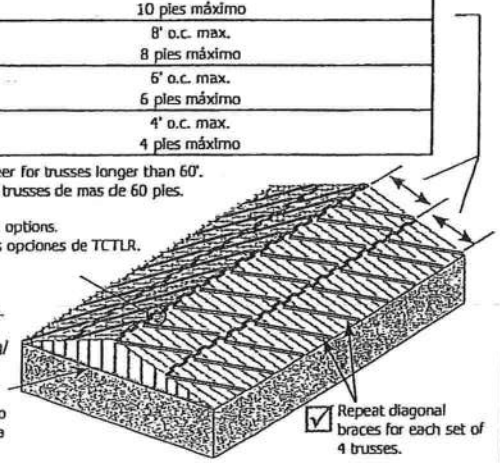
Truss Span Longitud de Tramo	Top Chord Temporary Lateral Restraint (TCTLR) Spacing Espaciamiento del Arriostre Temporal de la Cuerda Superior
Up to 30' Hasta 30 pies	10' o.c. max. 10 pies máximo
30' to 45' 30 a 45 pies	8' o.c. max. 8 pies máximo
45' to 60' 45 a 60 pies	6' o.c. max. 6 pies máximo
60' to 80'* 60 a 80 pies*	4' o.c. max. 4 pies máximo

*Consult a Professional Engineer for trusses longer than 60'.
*Consulte a un Ingeniero para trusses de mas de 60 pies.

See BCSI-B2 for TCTLR options.
Vea el BCSI-B2 para las opciones de TCTLR.

Refer to BCSI-B3 Summary Sheet – Permanent Restraint/Bracing of Chords & Web Members for Gable End Frame restraint/bracing/reinforcement information.

Para información sobre restricción/arriostre/refuerzo para armazón de hastial vea el resumen BCSI-B3 – Restricción/Arriostre Permanente de Cuerdas y Miembros Secundarios.



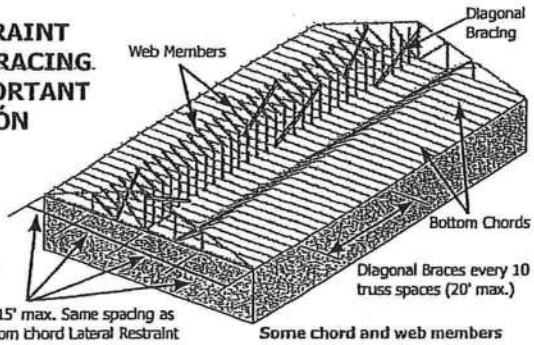
Repeat diagonal braces for each set of 4 trusses.

Repita los arrisotres diagonales para cada grupo de 4 trusses.

Ground bracing not shown for clarity.

) WEB MEMBER PLANE — PLANO DE LOS MIEMBROS SECUNDARIOS

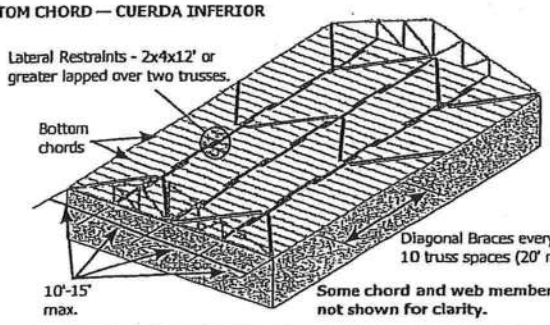
.ATERAL RESTRAINT
& DIAGONAL BRACING
ARE VERY IMPORTANT
LA RESTRICCIÓN
.ATERAL Y EL
ARRIOSTRE
DIAGONAL
SON MUY
IMPORTANTES!



10'-15' max. Same spacing as bottom chord Lateral Restraint

Some chord and web members not shown for clarity.

3) BOTTOM CHORD — CUERDA INFERIOR

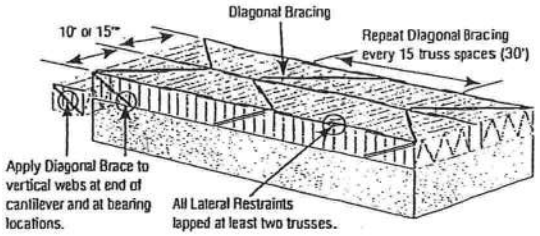


Some chord and web members not shown for clarity.

RESTRAINT & BRACING FOR 3x2 AND 4x2 PARALLEL CHORD TRUSSES
LA RESTRICCIÓN Y EL ARRIOSTRE PARA TRUSSES DE CUERDAS PARALELAS 3X2 Y 4X2

Refer to BCSI-B7 Summary Sheet - Temporary & Permanent Restraint/Bracing for Parallel Chord Trusses for more information.

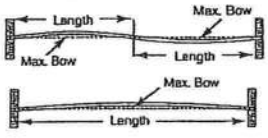
Vea el resumen BCSI-B7 – Restricción y Arriostre Temporal y Permanente de Trusses de Cuerdas Paralelas para más información.



*Top chord Temporary Lateral Restraint spacing shall be 10' o.c. max. for 3x2 chords and 15' o.c. for 4x2 chords.

INSTALLING — INSTALACION

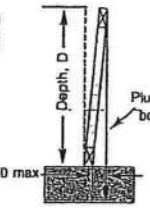
Tolerances for Out-of-Plane.
Tolerancias para Fuera-de-Plano.



Out-of-Plumb	
D/50	D (ft.)
1/4"	1'
1/2"	2'
3/4"	3'
1"	4'
1-1/4"	5'
1-1/2"	6'
1-3/4"	7'
2"	≥8'

Out-of-Plane	
Max. Bow	Truss Length
3/4"	12.5'
7/8"	14.6'
1"	16.7'
1-1/8"	18.8'
1-1/4"	20.8'
1-3/8"	22.9'
1-1/2"	25.0'
1-3/4"	29.2'
2"	≥33.3'

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



CONSTRUCTION LOADING — CARGA DE CONSTRUCCION

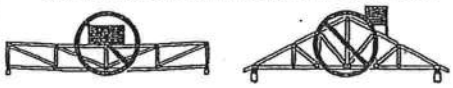
Do not proceed with construction until all lateral restraint and bracing is securely and properly in place.

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 Summary Sheet - Construction Loading for more information.

No exceda las máximas alturas recomendadas. Vea el resúmen BCSI-B4 Carga de Construcción para mayor información.

Material	Height
Gypsum Board	12"
Plywood or OSB	16"
Asphalt Shingles	2 bundles
Concrete Block	8"
Clay Tile	3-4 tiles high

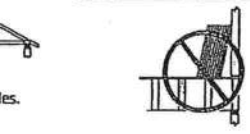


Do not overload small groups or single trusses.
No sobrecargue pequeños grupos o trusses individuales.

Never stack materials near a peak.
Nunca amontone material cerca del 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.



Truss bracing not shown for clarity.

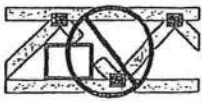
ALTERATIONS — ALTERACIONES

Refer to BCSI-B5 Summary Sheet - Truss Damage, Jobsite Modifications & Installation Errors.

Vea el resúmen BCSI-B5 Daños de trusses, Modificaciones en la Obra y Errores de Instalación.

Do not cut, alter, or drill any structural member of a truss unless specifically permitted by the Truss Design Drawing.

No corte, altere o perfore ningún miembro estructural de los trusses, a menos que esté especificamente permitido en el dibujo del diseño del truss.



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 una autorización previa del Fabricante de Trusses, pueden reducir o eliminar la garantía del Fabricante de Trusses.

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.

WTCA
6300 Enterprise Lane • Madison, WI 53719
608/274-4849 • www.sbcindustry.com

TRUSS PLATE INSTITUTE
218 N. Lee St., Ste. 312 • Alexandria, VA 22314
703/683-1010 • www.tpinst.org

B1WARN11x17 20061115

L MANEJO, INSTALACIÓN, RESTRICCIÓN Y ARRIOSTRE DE LOS TRUSSES (2006 EDICIÓN)

Maronda Systems

MARONDA SYSTEMS *4005 Maronda Way* *Sanford, FL 32771* *(407) 321-0064* *Fax (407) 321-3913*

Date: November 1, 2006

To: Building Department

From: Maronda Systems
Tomas Ponce
Professional Engineer
State of Florida #0050068

Subject: Valley Trusses

All valley trusses labeled V-1 through 100 are covered under the general valley sheet provided in the truss package signed and sealed by the engineer of record. The connections are noted on the structural info sheet of the plans. All criteria of the valley trusses are noted on the general sheet.

If you have any questions please feel free to call at 407-321-0064.

Sincerely,

Tomas Ponce, P.E.
Date: 11/1/06

Job: MARONDA SYSTEMS | Customer: | WO:VALLEY SET | TI:V | Qty:1

DESIGN INFORMATION

This design is for an individual building component and has been based on information provided by the client. The designer disclaims any responsibility for damages as a result of faulty or incorrect information, specifications and/or designs furnished to the truss designer by the client and the correctness or accuracy of this information as it may relate to a specific project and accepts no responsibility or exercises no control with regard to fabrication, handling, shipment and installation of trusses. This truss has been designed as an individual building component in accordance with ANSI/TPI 1-1995 and NDS-97 to be incorporated as part of the building design by a Building Designer (registered architect or professional engineer). When reviewed for approval by the building designer, the design loadings shown must be checked to be sure that the data shown are in agreement with the local building codes, local climatic records for wind or snow loads, project specifications or special applied loads. Unless shown, truss has not been designed for storage or occupancy loads. The design assumes compression chords (top or bottom) are continuously braced by sheathing unless otherwise specified. Where bottom chords in tension are not fully braced laterally by a properly applied rigid ceiling, they should be braced at a maximum spacing of 10'-0" o.c. Connector plates shall be manufactured from 20 gauge hot dipped galvanized steel meeting ASTM A 653, Grade 40, unless otherwise shown.

FABRICATION NOTES

Prior to fabrication, the fabricator shall review this drawing to verify that this drawing is in conformance with the fabricator's plans and to realize a continuing responsibility for such verification. Any discrepancies are to be put in writing before cutting or fabrication. Plates shall not be installed over knotholes, knots or distorted grain. Members shall be cut for tight fitting wood to wood bearing. Connector plates shall be located on both faces of the truss with nails fully imbedded and shall be sym. about the joint unless otherwise shown. A 5x4 plate is 5" wide x 4" long. A 6x8 plate is 6" wide x 8" long. Slots (holes) run parallel to the plate length specified. Double cuts on web members shall meet at the centroid of the webs unless otherwise shown. Connector plate sizes are minimum sizes based on the forces shown and may need to be increased for certain handling and/or erection stresses. This truss is not to be fabricated with fire retardant treated lumber unless otherwise shown. For additional information on Quality Control refer to ANSI/TPI 1-1995

PRECAUTIONARY NOTES

All bracing and erection recommendations are to be followed in accordance with "Handling, Installing and Bracing", HIB-91. Trusses are to be handled with particular care during banding and bundling, delivery and installation to avoid damage. Temporary and permanent bracing for holding trusses in a straight and plumb position and for resisting lateral forces shall be designed and installed by others. Careful handling is essential and erection bracing is always required. Normal precautionary action for trusses requires such temporary bracing during installation between trusses to avoid toppling and dominoing. The supervision of erection of trusses shall be under the control of persons experienced in the installation of trusses. Professional advice shall be sought if needed. Concentration of construction loads greater than the design loads shall not be applied to trusses at any time. No loads other than the weight of the erectors shall be applied to trusses until after all fastening and bracing is completed.

TOP CHORDS: 2X4 SP #2
BOT CHORDS: 2X4 SP #2
WEBS: 2X4 SP #3

T/C MUST BE CONTINUOUSLY BRACED BY ROOF SHEATHING UNLESS NOTED OTHERWISE.

VALLEY MEMBERS TO BE SET PERPENDICULAR TO TRUSSES BELOW.

IT IS NOT REQUIRED TO SHEATH TRUSSES BELOW VALLEY SET. VALLEY MEMBERS PROVIDE ALL NECESSARY TOP CHORD BRACING.

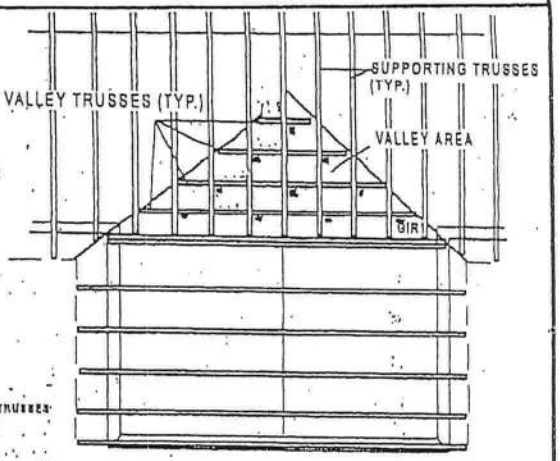
WHEN VALLEY MEMBERS ARE NAILED DIRECTLY TO TRUSS TOP CHORDS USE (2) 16D NAILS PER INTERSECTION, OR TWO FEET ON CENTER. WHEN BELOW TRUSSES ARE SHEATHED FIRST USE (2) 10d NAILS OR (1) 16d NAIL PER INTERSECTION , OR TWO FEET ON CENTER.

2X4 TRANSVERSE BRACING NAILED FLAT TO EDGE OF WEB WITH 12d NAILS AT 8" O.C. OR A SCAB OF THE SAME DIMENSION AND GRADE AS WEB; NAILED TO FACE (S) OF WEB WITH 10d NAILS STAGGERED 8" O.C. SCAB OR TRANSVERSE BRACKING TO EXTEND FOR 90% OF WEB LENGTH. 2X6 BRACE REQUIRED ON ANY WEB EXCEEDING 14'.

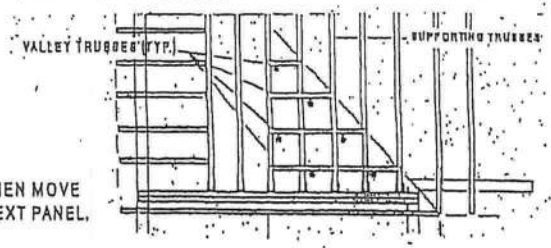
*** denotes ONE edge or one face
**** denotes BOTH edges or Both faces.

(1) ONE BRACE REQUIRED ON WEBS > = 94.0" LONG *
(2) TWO BRACES REQ'D ON WEBS > =126.0" LONG. **

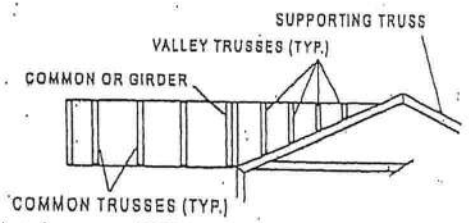
VALLEY TRUSSES ARE ACCEPTABLE TO BE CANTILEVERED UP TO TWO FEET.



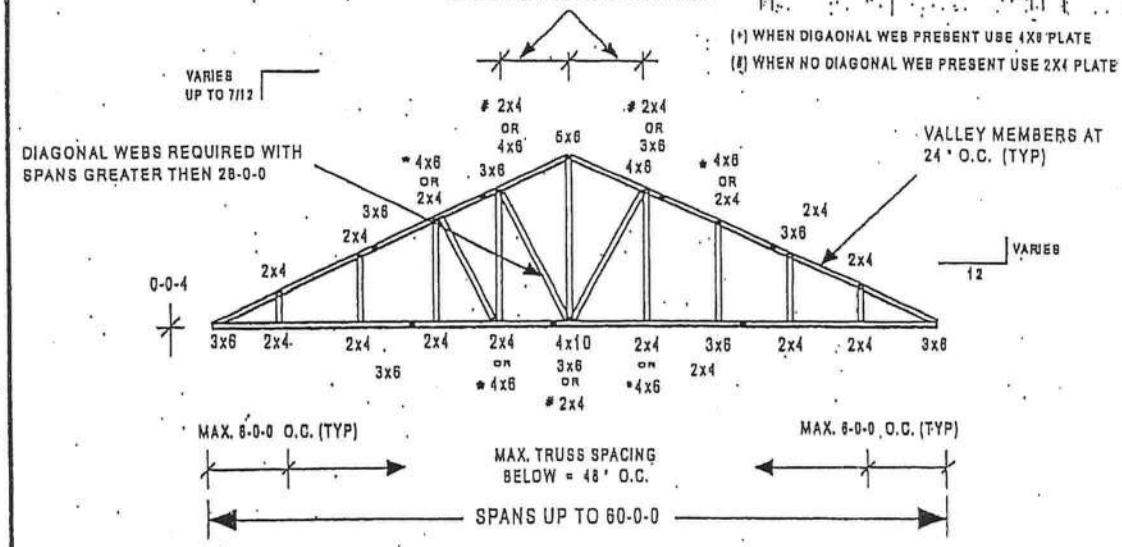
MONO VALLEY



(*) WHEN DIGAONAL WEB PRESENT USE 4X8 PLATE
(#) WHEN NO DIAGONAL WEB PRESENT USE 2X4 PLATE



* VALLEY STRAPPING TO TRUSS BELOW @ 4' O.C.



DEC 17 2005

EXCEPT AS SHOWN PLATES ARE TL20 GA TESTED PER ANSI/TPI 1-1995 Cont. Support Studs @ 6-0-0 O.C.

Maronda Systems
4005 MARONDA WAY
Sanford, FL. 32771
(407) 321-0064 Fax (407) 321-3913
TOMAS PONCE P.E. LICENSE #0050068
1005 VANNESSA DR. OVIEDO FL 32766

WARNING:
READ ALL NOTES ON THIS SHEET. A COPY OF THIS DRAWING TO BE GIVEN TO ERECTING CONTRACTOR. BRACING WARNING:
Bracing shown on this drawing is not erection bracing, wind bracing, portal bracing or similar bracing which is a part of the building design and which must be considered by the building designer. Bracing shown is for lateral support of truss members only to reduce buckling length. Provisions must be made to anchor lateral bracing at ends and specified locations determined by the building designer. Additional bracing of the overall structure may be required. (See HIB-91 of TPI). For specific truss bracing requirements, contact building designer. (Truss Plate Institute, TPI is located at 583 D'Onofrio Drive, Madison, Wisconsin 53719).

Eng Job:		
Dwg:		
Dsgnr: TLY	Chk:	
TC Live	16.0	psf
TC Dead	7.0	psf
BC Live	10.0	psf
BC Dead	2.0	psf
TOTAL	35.0	psf

WO: VALLEY SET
TI: V
7/27/2005

Lbr DF: 1.25
Plt DF: 1.25
O.C.: 2- 0- 0
TPI-02/FBC-04
Code: FLA
v4.7.21-4355

Design: Matrix Analysis

Profile Path: C:\TEE-LOK\Work\Jobs\MARONDA SYSTEMS\VT.prx

Job: | Customer: | WO:HIPDETAIL | TI:HIP | Qty:1

DESIGN INFORMATION

This design is for an individual building component and has been based on information provided by the client. The designer disclaims any responsibility for damages as a result of faulty or incorrect information, specifications and/or designs furnished to the truss designer by the client and the correctness or accuracy of this information as it may relate to a specific project and accepts no responsibility or exercises no control with regard to fabrication, handling, shipment and installation of trusses. This truss has been designed as an individual building component in accordance with ANSI/TPI 1-1995 and NDS-97 to be incorporated as part of the building design by a Building Designer. When reviewed for approval by the building designer, the design loadings shown must be checked to be sure that the data shown are in agreement with the local building codes, local climatic records for wind or snow loads, project specifications or special applied loads. Unless shown, truss has not been designed for storage or occupancy loads. The design assumes compression chords (top or bottom) are continuously braced by sheathing unless otherwise specified. Where bottom chords in tension are not fully braced laterally by a properly applied rigid ceiling, they should be braced at a maximum spacing of 10'-0" o.c. Connector plates shall be manufactured from 20 gauge hot dipped-galvanized steel meeting ASTM A 653, Grade 40, unless otherwise shown.

FABRICATION NOTES

Prior to fabrication, the fabricator shall review this drawing to verify that this drawing is in conformance with the fabricator's plans and to realize a continuing responsibility for such verification. Any discrepancies are to be put in writing before cutting or fabrication. Plates shall not be installed over knotholes, knots or distorted grain. Members shall be cut for tight fitting wood to wood bearing. Connector plates shall be located on both faces of the truss with nails fully imbedded and shall be sym. about the joint unless otherwise shown. A 5x4 plate is 5" wide x 4" long. A 6x8 plate is 6" wide x 8" long. Slots (holes) run parallel to the plate length specified. Double cuts on web members shall meet at the centroid of the webs unless otherwise shown. Connector plate sizes are minimum sizes based on the forces shown and may need to be increased for certain handling and/or erection stresses. This truss is not to be fabricated with fire retardant treated lumber unless otherwise shown. For additional information on Quality Control refer to ANSI/TPI 1-1995

PRECAUTIONARY NOTES

All bracing and erection recommendations are to be followed in accordance with accepted industry publications. Trusses are to be handled with particular care during banding and bundling, delivery and installation to avoid damage. Temporary and permanent bracing for holding trusses in a straight and plumb position and for resisting lateral forces shall be designed and installed by others. Careful handling is essential and erection bracing is always required. Normal precautionary action for trusses requires such temporary bracing during installation between trusses to avoid toppling and dominoing. The supervision of erection of trusses shall be under the control of persons experienced in the installation of trusses. Professional advice shall be sought if needed. Concentration of construction loads greater than the design loads shall not be applied to trusses at any time. No loads other than the weight of the erectors shall be applied to trusses until after all fastening and bracing is completed

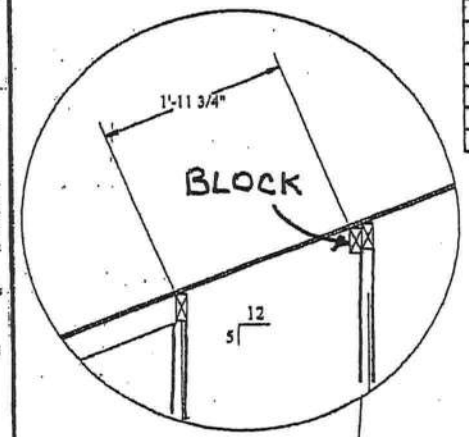
HIP TRUSS BLOCKING REQUIREMENTS

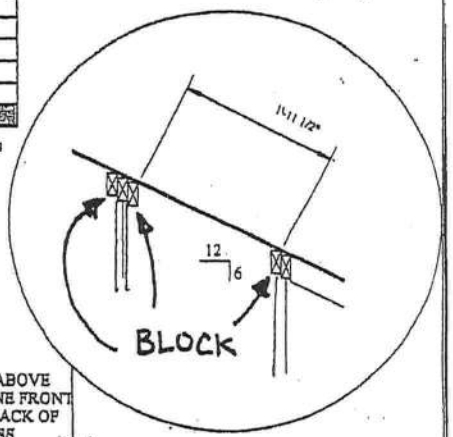
APA-FORM NO. TT-083

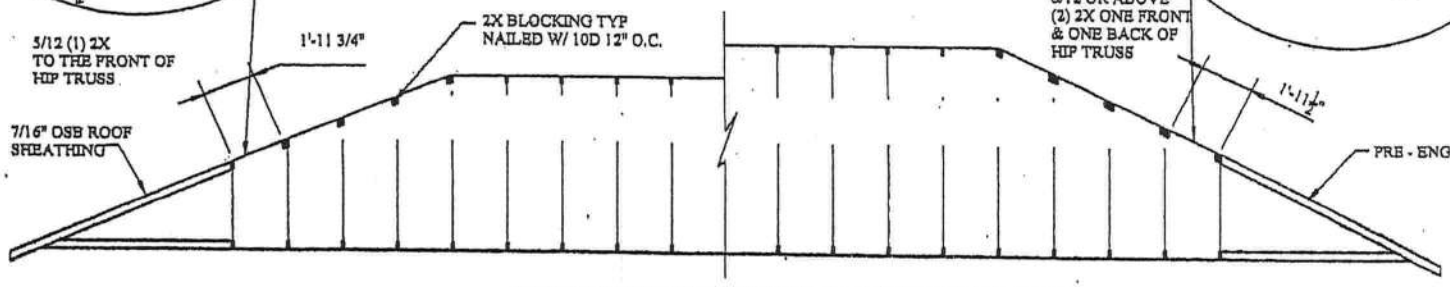
SPAN RATING AND BLOCKING RECOMMENDATIONS FOR USE OVER HIP-ROOFS SUPPORT AT 24" O.C

Roof Slope	Panel Span Rating			
	24/16	32/16	40/20	48/24
≤ 1:12	OK	OK	OK	OK
≤ 2:12	OK	OK	OK	OK
≤ 3:12	OK	OK	OK	OK
≤ 4:12	OK	OK	OK	OK
≤ 5:12	OK	OK	OK	OK
≤ 6:12	OK	OK	OK	OK
≤ 6:12	OK	OK	OK	OK
≤ 7:12	OK	OK	OK	OK
≤ 8:12	OK	OK	OK	OK
≤ 9:12	OK	OK	OK	OK
≤ 10:12	OK	OK	OK	OK
≤ 11:12	OK	OK	OK	OK
≤ 12:12	OK	OK	OK	OK
≤ 13:12	OK	OK	OK	OK
≤ 14:12	OK	OK	OK	OK

NOTE: SHADED AREA REQUIRE 2X LUMBER BLOCKING BETWEEN TRUSS AT UN SUPPORTED PANEL EDGES IN HIP ROOF AREAS







NOTE: NO BLOCKING IS REQUIRED ON 4/12 AND BELOW PITCHED ROOFS

Maronda Systems
4005 MARONDA WAY
Sanford, FL 32771
(407) 321-0064 Fax (407) 321-3913
TOMAS PONCE P.E. LICENSE #0050068
367 Medallion Pl. Chuluota, FL 32766

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Component Engineering by: Truss Engineering Co., P.A., 818 Soundside Rd, Edenton, NC 27932

Eng Job:		WO: HIPDETAIL
Dwg:		TI: HIP
Dsgnr: TLY	Chk:	11/2/2006
TC Live	16.0 psf	Lbr DF: 1.25
TC Dead	7.0 psf	Plt DF: 1.25
BC Live	10.0 psf	O.C.: 2- 0- 0
BC Dead	10.0 psf	TPI-02/FBC-04
TOTAL	43.0 psf	Code: FLA
		v4.7.32-0

Design: Metric Analysis | Profile Path: C:\TEE-LOK\Work\Jobs\Job-1\COMN-1.DFX

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4595120
AUSTIN	GRD2S	COMMON	1	2	Job Reference (optional)	

Maronda Homes Inc., Sanford, Florida — 7.020 s Nov 9 2007 MiTek Industries, Inc. Thu Jan 03 16:55:13 2008 Page 1

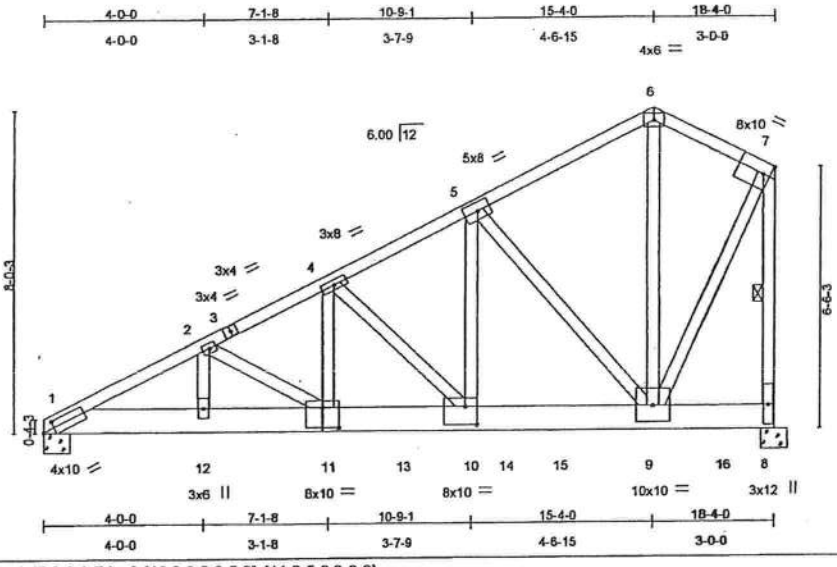

Plate Offsets (X,Y): [1:0-3-9,0-2-0], [7:0-2-3,Edge], [10:0-3-8,0-5-8], [11:0-5-0,0-6-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0.15	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.92	Vert(TL)	-0.28	10-11	>779	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.99	Horz(TL)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 302 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-14 oc bracing.
WEBS 1 Row at midpt 7-8

REACTIONS (lb/size) 1=5327/0-8-0, 8=8121/0-8-0
Max Horz 1=276(LC 5)
Max Uplift1=-2359(LC 5), 8=-3272(LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-10711/4798, 2-3=-11019/5006, 3-4=-10999/5014, 4-5=-7773/3268, 5-6=-3111/1256, 6-7=-3096/1280, 7-8=-7232/2967
BOT CHORD 1-12=-4494/9484, 11-12=-4494/9484, 11-13=-4647/9838, 10-13=-4647/9838, 10-14=-3018/6934, 14-15=-3018/6934, 9-15=-3018/6934, 9-16=-18/43, 8-16=-18/43
WEBS 2-12=-381/241, 2-11=-291/506, 4-11=-2226/4064, 4-10=-4003/2246, 5-10=-2926/6707, 5-9=-6389/2884, 6-9=-1026/2606, 7-9=-2625/6389

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-3-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2359 lb uplift at joint 1 and 3272 lb uplift at joint 8.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3454 lb down and 2152 lb up at 7-1-8, 1706 lb down and 613 lb up at 9-0-12, 1706 lb down and 631 lb up at 11-0-12, 1706 lb down and 645 lb up at 13-0-12, and 1706 lb down and 656 lb up at 15-0-12, and 1632 lb down and 601 lb up at 17-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Marvin A. Strzyzewski, FL Lic. #43144
Truss Engineering Co.
818 Soundside Road
Edenton, NC 27932
FL COA #7239

January 4,2008

Continued on page 2

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-46, 6-7=-46, 1-8=-40
Concentrated Loads (lb)
Vert: 11=-3454(F) 9=-1706(F) 13=-1706(F) 14=-1706(F) 15=-1706(F) 16=-1632(F)

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530649
AUSTIN	H1	HIP	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:43:48 2007 Page 1

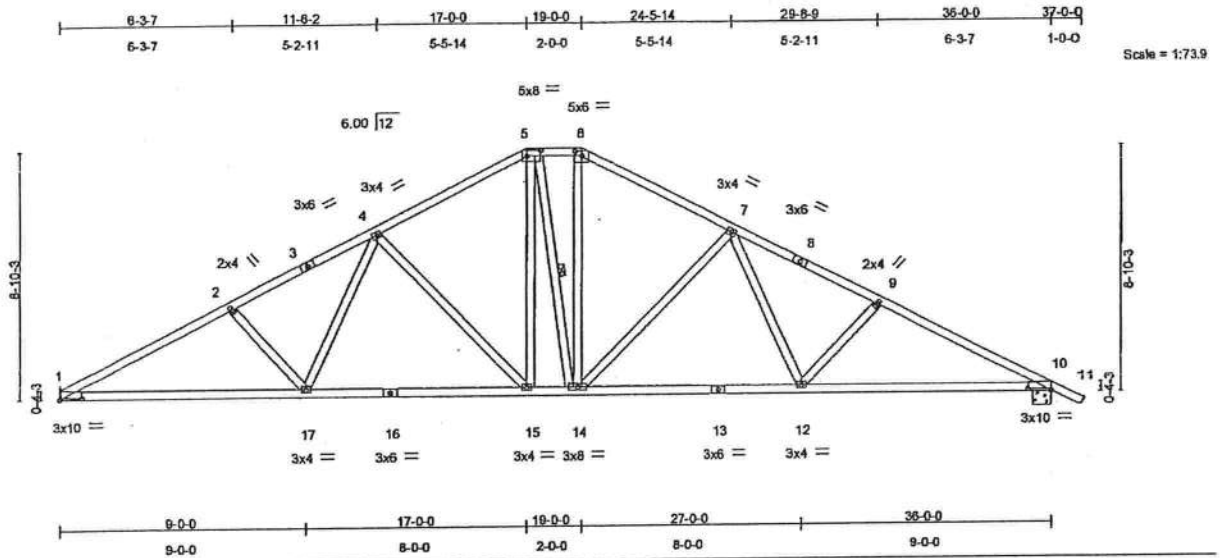

Plate Offsets (X,Y): [1:0-10-0,0-0-10], [5:0-6-0,0-2-0], [6:0-3-0,0-2-0], [10:0-10-0,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.23	1-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.82	Vert(TL)	-0.51	1-17	>840	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.14	10	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 205 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-4-14 oc bracing.
WEBS 1 Row at midpt 5-14

REACTIONS (lb/size) 1=1530/Mechanical, 10=1597/0-8-0
Max Horz 1=-163(LC 7)
Max Uplift1=-284(LC 6), 10=-379(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2831/921, 2-3=-2646/854, 3-4=-2547/872, 4-5=-1850/713, 5-6=-1616/693, 6-7=-1852/714, 7-8=-2481/835, 8-9=-2580/825, 9-10=-2744/872, 10-11=0/21
BOT CHORD 1-17=-686/2491, 16-17=-468/2060, 15-16=-468/2060, 14-15=-242/1612, 13-14=-453/2030, 12-13=-453/2030, 10-12=-630/2389
WEBS 2-17=-271/263, 4-17=-105/640, 4-15=-659/329, 5-15=-174/634, 5-14=-143/172, 6-14=-169/618, 7-14=-614/307, 7-12=-65/574, 9-12=-209/226

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 1 and 379 lb uplift at joint 10.

LOAD CASE(S) Standard

This document was originally issued by Lassiter, Frank on November 21,2007. This is not considered a sealed document. Official sealed drawings are available upon request from the manufacturer indicated above.

November 21,2007

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125
AUSTIN	H8	HIP	1	1	E4530654
					Job Reference (optional)

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:43:51 2007 Page 1

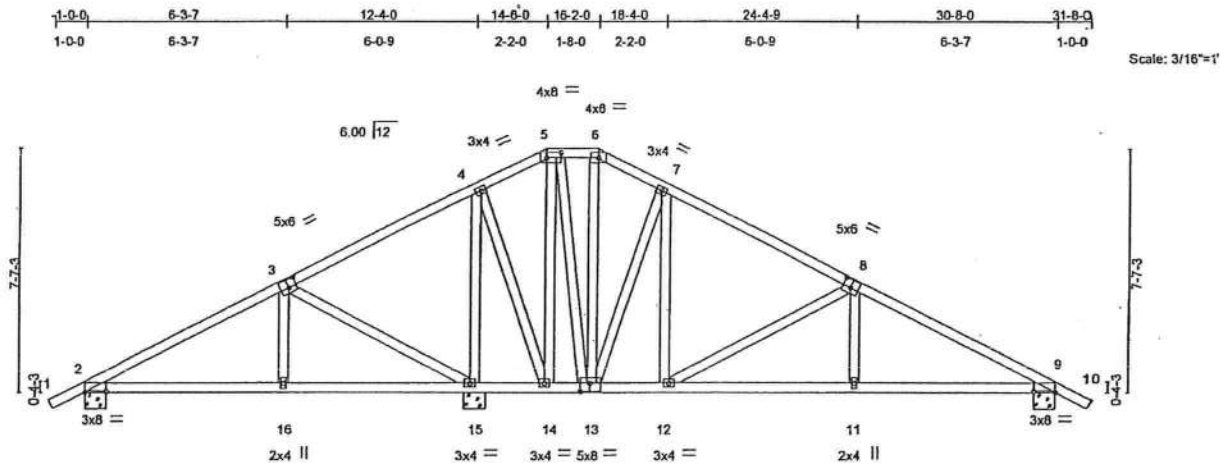

Plate Offsets (X,Y): [2:0-8-0,0-0-6], [3:0-3-0,0-3-0], [4:0-0-0,0-0-0], [5:0-5-8,0-2-0], [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-3-0,0-3-0], [9:0-8-0,0-0-6], [13:0-3-12,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.26	Vert(LL)	0.09	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.11	9-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 196 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 14-15,13-14.

REACTIONS (lb/size) 2=407/0-8-0, 15=1579/0-8-0, 9=723/0-8-0
Max Horz 2=-135(LC 7)
Max Uplift 2=-310(LC 6), 15=-535(LC 6), 9=-224(LC 7)
Max Grav 2=436(LC 10), 15=1579(LC 1), 9=740(LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-392/406, 3-4=-137/401, 4-5=-13/105, 5-6=-101/127, 6-7=-157/140, 7-8=-436/128, 8-9=-1036/199, 9-10=0/21
BOT CHORD 2-16=-228/297, 15-16=-220/290, 14-15=-308/389, 13-14=-79/336, 12-13=0/331, 11-12=-67/857, 9-11=-65/864
WEBS 3-16=-317/272, 3-15=-618/692, 4-15=-1084/432, 4-14=-167/764, 5-14=-653/256, 5-13=-257/617, 6-13=-39/28, 7-13=-644/281, 7-12=-62/493, 8-12=-600/257, 8-11=0/274

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 310 lb uplift at joint 2, 535 lb uplift at joint 15 and 224 lb uplift at joint 9.

LOAD CASE(S) Standard

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ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125 E4595121
AUSTIN	H7	HIP	1	1	Job Reference (optional)

Maronda Homes Inc., Sanford, Florida 7.020 s Nov 9 2007 MiTek Industries, Inc. Thu Jan 03 16:55:14 2008 Page 1

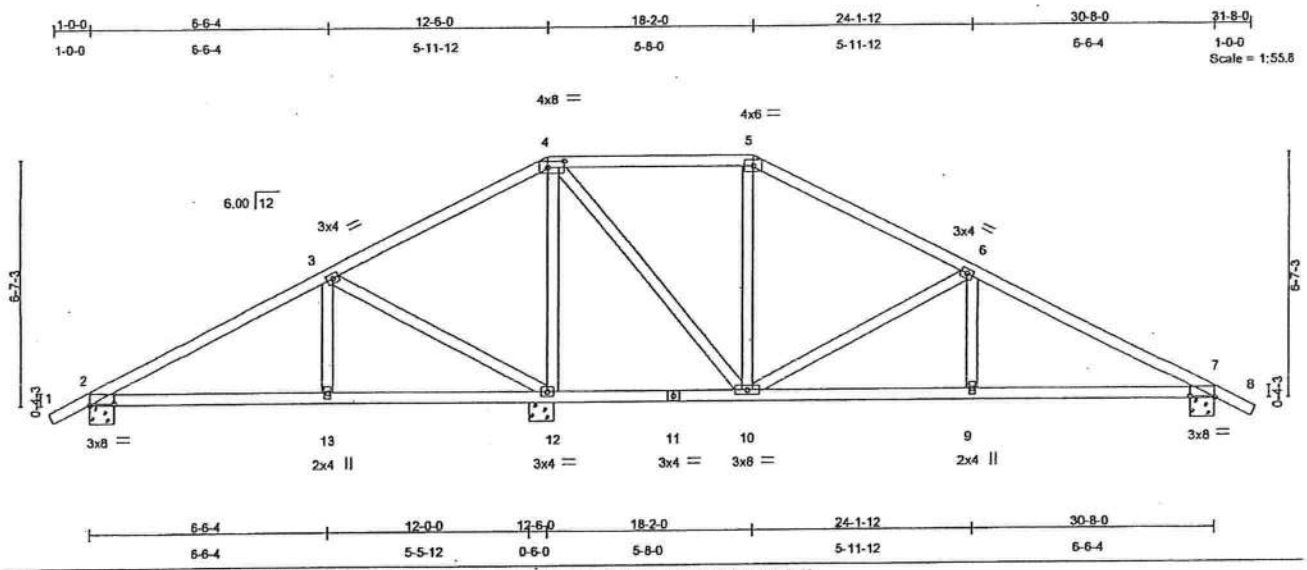


Plate Offsets (X,Y): [2:0-8-0,0-0-6], [3:0-0-0,0-0-0], [4:0-5-4,0-2-0], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.28	Vert(LL)	0.10	2-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.12	7-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(TL)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 158 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 10-12.

REACTIONS (lb/size) 2=378/0-8-0, 12=1656/0-8-0, 7=675/0-8-0
Max Horz 2=119(LC 6)
Max Uplift2=-323(LC 6), 12=-508(LC 6), 7=-211(LC 7)
Max Grav 2=416(LC 10), 12=1656(LC 1), 7=701(LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-334/414, 3-4=-147/487, 4-5=-235/131, 5-6=-330/93, 6-7=-937/184, 7-8=0/21
BOT CHORD 2-13=-234/244, 12-13=-234/244, 11-12=-409/413, 10-11=-409/413, 9-10=-40/776, 7-9=-40/776
WEBS 3-13=-337/277, 3-12=-633/721, 4-12=-1129/516, 4-10=-301/897, 5-10=-166/198, 6-10=-616/265, 6-9=0/280

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 2, 508 lb uplift at joint 12 and 211 lb uplift at joint 7.

LOAD CASE(S) Standard

Marvin A. Strzyzewski, FL Lic. #43144
Truss Engineering Co.
818 Soundside Road
Edenton, NC 27932
FL COA #7239

January 4,2008

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530656
AUSTIN	H8	HIP	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:43:53 2007 Page 1

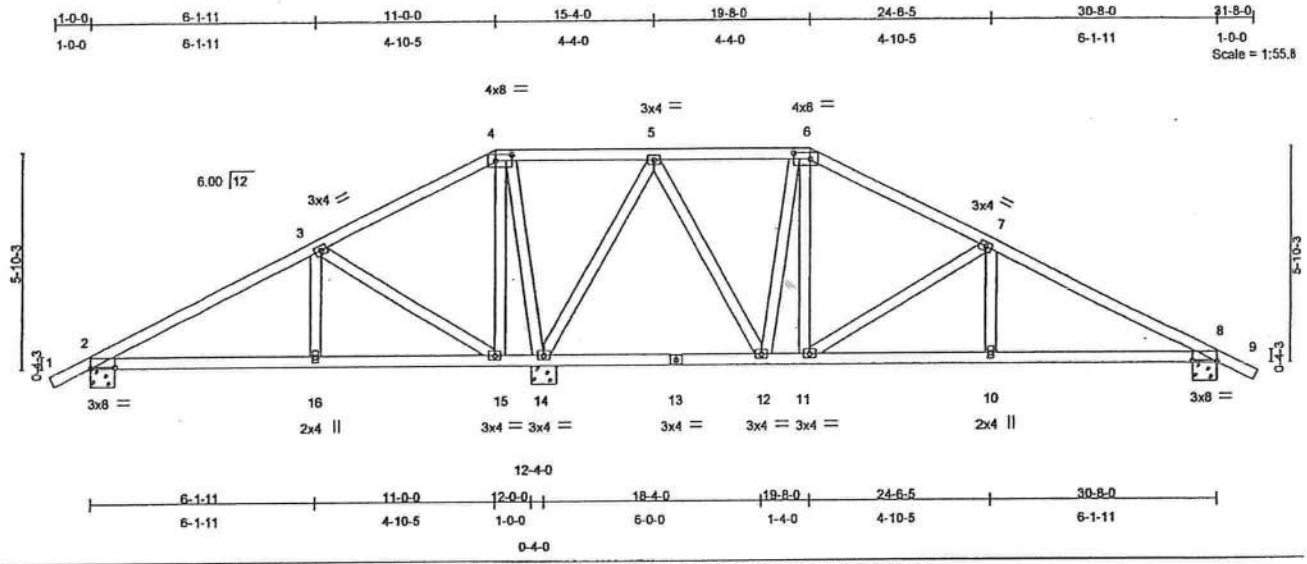


Plate Offsets (X,Y): [2:0-8-0,0-0-6], [3:0-0-0,0-0-0], [4:0-5-8,0-2-0], [5:0-0-0,0-0-0], [6:0-5-8,0-2-0], [7:0-0-0,0-0-0], [8:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.31	Vert(LL)	0.09	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.10	8-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 173 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 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.

REACTIONS (lb/size) 2=325/0-8-0, 14=1710/0-8-0, 8=674/0-8-0
Max Horz 2=-108(LC 7)
Max Uplift2=-321(LC 6), 14=-471(LC 6), 8=-209(LC 7)
Max Grav2=365(LC 10), 14=1710(LC 1), 8=697(LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-247/387, 3-4=-60/471, 4-5=-141/530, 5-6=-264/127, 6-7=-430/144, 7-8=-945/205, 8-9=0/21
BOT CHORD 2-16=-215/169, 15-16=-215/169, 14-15=-374/292, 13-14=-102/268, 12-13=-102/268, 11-12=0/342, 10-11=-45/784, 8-10=-45/784
WEBS 3-16=-296/263, 3-15=-560/609, 4-15=-497/294, 4-14=-700/715, 5-14=-886/381, 5-12=-173/655, 6-12=-377/220, 6-11=-94/317, 7-11=-531/215, 7-10=0/257

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 2, 471 lb uplift at joint 14 and 209 lb uplift at joint 8.

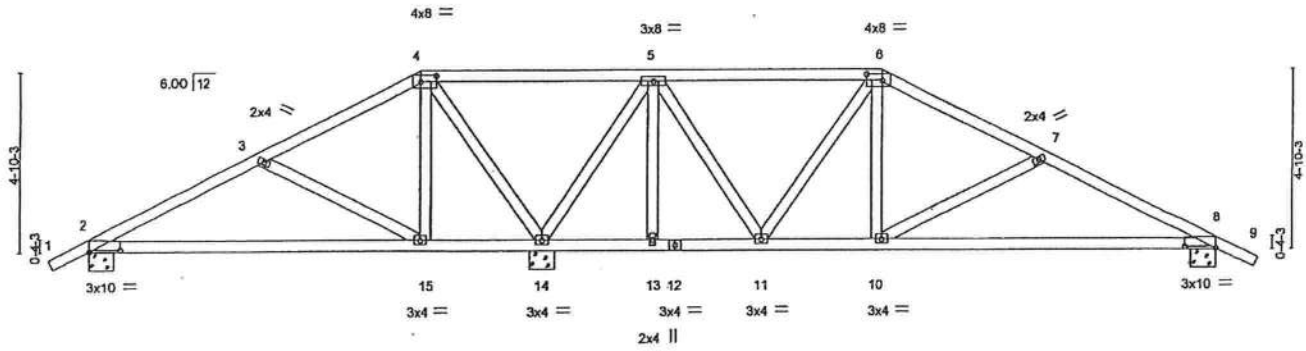
LOAD CASE(S) Standard

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530657
AUSTIN	H9	HIP	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:43:53 2007 Page 1

Scale = 1:55.8



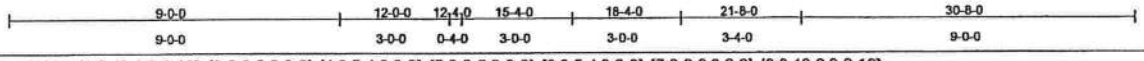


Plate Offsets (X,Y): [2:0-10-0,0-0-10], [3:0-0-0,0-0-0], [4:0-5-4,0-2-0], [5:0-0-0,0-0-0], [6:0-5-4,0-2-0], [7:0-0-0,0-0-0], [8:0-10-0,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.34	Vert(LL)	0.35	2-15	>417	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	0.24	2-15	>605	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 162 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 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.

REACTIONS (lb/size) 2=364/0-8-0, 14=1651/0-8-0, 8=694/0-8-0
Max Horz 2=93(LC 6)
Max Uplift2=-331(LC 6), 14=-499(LC 5), 8=-202(LC 7)
Max Grav2=394(LC 10), 14=1651(LC 1), 8=712(LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-254/370, 3-4=-14/222, 4-5=-202/600, 5-6=-314/127, 6-7=-691/191, 7-8=-912/281, 8-9=0/21
BOT CHORD 2-15=-234/213, 14-15=-96/72, 13-14=-11/218, 12-13=-11/218, 11-12=-11/218, 10-11=0/591, 8-10=-122/789
WEBS 3-15=-274/289, 4-15=-516/445, 4-14=-894/778, 5-14=-1070/452, 5-13=0/162, 5-11=-146/504, 6-11=-493/160, 6-10=0/435, 7-10=-239/186

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 2, 499 lb uplift at joint 14 and 202 lb uplift at joint 8.

LOAD CASE(S) Standard

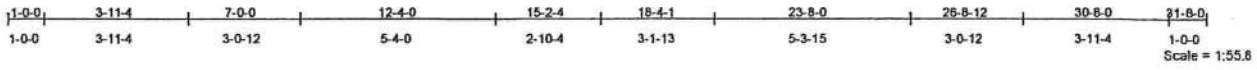
This document was originally issued by Lassiter, Frank on November 21,2007. This is not considered a sealed document. Official sealed drawings are available upon request from the manufacturer indicated above.

November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530658
AUSTIN	HGRD1	HIP	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:43:54 2007 Page 1



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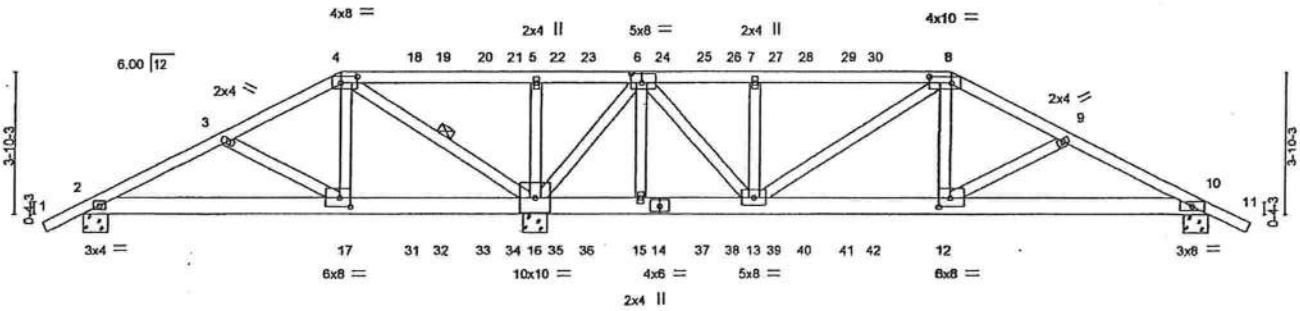


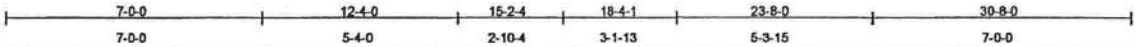


Plate Offsets (X,Y): [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-5-4,0-2-0], [5:0-0-0,0-0-0], [6:0-3-8,0-3-0], [7:0-0-0,0-0-0], [8:0-7-0,0-2-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [12:0-3-8,0-3-0], [17:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.65	Vert(LL)	-0.06	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.44	Vert(TL)	-0.13	12-13	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.64	Horz(TL)	-0.03	2	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 186 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
4-6 2 X 4 SYP No.1D, 6-8 2 X 4 SYP No.1D
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-7-10 oc bracing.
WEBS 1 Row at midpt 4-16

REACTIONS (lb/size) 2=546/0-8-0, 16=3961/0-8-0, 10=1390/0-8-0
Max Horz 10=80(LC 7)
Max Uplift2=-444(LC 5), 16=-2380(LC 8), 10=-672(LC 8)
Max Grav2=603(LC 9), 16=3961(LC 1), 10=1398(LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-744/504, 3-4=-629/514, 4-18=-704/1391, 18-19=-704/1392, 19-20=-704/1392, 20-21=-705/1392, 5-21=-705/1392, 5-22=-704/1392, 22-23=-704/1392, 6-23=-704/1392, 6-24=-1407/811, 24-25=-1407/811, 25-26=-1407/811, 7-26=-1407/811, 7-27=-1406/810, 27-28=-1406/811, 28-29=-1406/811, 29-30=-1407/811, 8-30=-1407/811, 8-9=-2343/1236, 9-10=-2420/1181, 10-11=0/24
BOT CHORD 2-17=-396/629, 17-31=-409/595, 31-32=-409/595, 32-33=-409/595, 33-34=-409/595, 16-34=-409/595, 16-35=0/141, 35-36=0/141, 15-36=0/141, 14-15=0/141, 14-37=0/141, 37-38=0/141, 13-38=0/141, 13-39=-1062/2136, 39-40=-1062/2136, 40-41=-1062/2136, 41-42=-1062/2136, 12-42=-1062/2136, 10-12=-1008/2093
WEBS 3-17=-112/89, 4-17=-494/1018, 4-16=-2242/1426, 5-16=-584/653, 6-16=-2222/1186, 6-15=0/105, 6-13=-1135/2025, 7-13=-563/653, 8-13=-884/449, 8-12=-267/1015, 9-12=-102/87

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise); porch left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 444 lb uplift at joint 2, 2380 lb uplift at joint 16 and 672 lb uplift at joint 10.

Continued on page 2

This document was originally issued by Lassiter, Frank on November 21,2007. This is not considered a sealed document. Official sealed drawings are available upon request from the manufacturer indicated above.

November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125 E4530658
AUSTIN	HGRD1	HIP	1	1	Job Reference (optional)

NOTES

6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 194 lb up at 23-8-0, 116 lb down and 194 lb up at 21-7-4, 116 lb down and 194 lb up at 20-11-4, 116 lb down and 194 lb up at 18-11-4, 116 lb down and 194 lb up at 16-11-4, 116 lb down and 194 lb up at 14-11-4, 116 lb down and 194 lb up at 12-11-4, 116 lb down and 194 lb up at 10-11-4, 116 lb down and 194 lb up at 8-11-4, 116 lb down and 194 lb up at 7-0-0, 116 lb down and 194 lb up at 7-0-0, 116 lb down and 194 lb up at 9-0-12, 116 lb down and 194 lb up at 9-8-12, 116 lb down and 194 lb up at 11-8-12, 116 lb down and 194 lb up at 13-8-12, 116 lb down and 194 lb up at 15-8-12, 116 lb down and 194 lb up at 17-8-12, 116 lb down and 194 lb up at 19-8-12, and 116 lb down and 194 lb up at 21-8-12, and 116 lb down and 194 lb up at 23-8-0 on top chord, and 644 lb down and 345 lb up at 23-8-0, 92 lb down at 21-7-4, 92 lb down at 20-11-4, 92 lb down at 18-11-4, 92 lb down at 16-11-4, 92 lb down at 14-11-4, 92 lb down at 12-11-4, 92 lb down at 10-11-4, 92 lb down at 8-11-4, 644 lb down and 345 lb up at 7-0-12, 644 lb down and 345 lb up at 7-0-0, 644 lb down and 345 lb up at 23-8-0, 92 lb down at 9-0-12, 92 lb down at 9-8-12, 92 lb down at 11-8-12, 92 lb down at 13-8-12, 92 lb down at 15-8-12, 92 lb down at 17-8-12, and 92 lb down at 19-8-12, and 92 lb down at 21-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-46, 4-8=-46, 8-11=-46, 2-10=-40

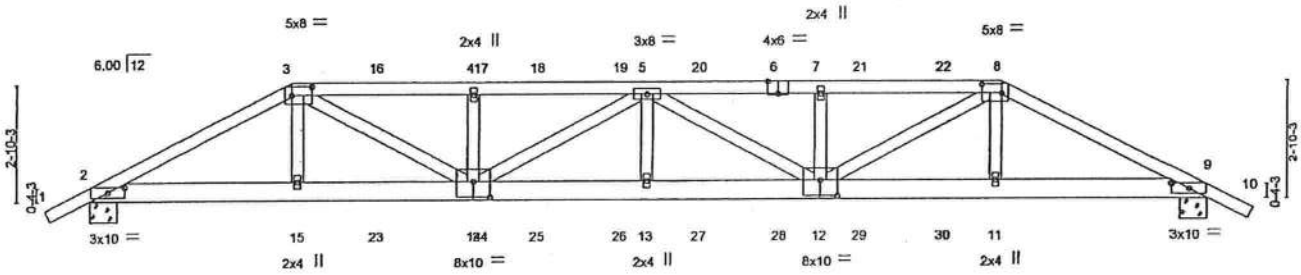
Concentrated Loads (lb)

Vert: 4=-116(F) 8=-116(F) 17=-644(F) 6=-116(F) 15=-92(F) 12=-644(F) 18=-116(F) 20=-116(F) 22=-116(F) 25=-116(F) 27=-116(F) 29=-116(F) 30=-116(F) 31=-92(F) 33=-92(F) 35=-92(F) 37=-92(F) 39=-92(F) 41=-92(F) 42=-92(F)

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530660
AUSTIN	HGRD3	HIP	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:43:56 2007 Page 1

Scale = 1:50.4



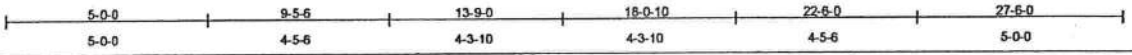


Plate Offsets (X,Y): [2:0-5-0,0-1-7], [3:0-6-0,0-2-8], [6:0-3-0,Edge], [8:0-6-0,0-2-8], [9:0-5-0,0-1-7], [12:0-5-0,0-4-8], [14:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.56	Vert(LL)	0.34	13	>944	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.60	13	>535	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.37	Horz(TL)	0.11	9	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 153 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-5-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-7 oc bracing.

REACTIONS (lb/size) 2=2087/0-8-0, 9=2108/0-8-0
Max Horz 2=65(LC 7)
Max Uplift2=-1071(LC 7), 9=-1091(LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=-3979/2011, 3-16=-5219/2699, 16-17=-5218/2699, 4-17=-5218/2699, 4-18=-5218/2699, 18-19=-5218/2699, 5-19=-5218/2699, 5-20=-5240/2718, 6-20=-5240/2718, 6-7=-5240/2718, 7-21=-5240/2717, 21-22=-5240/2717, 8-22=-5241/2718, 8-9=-4027/2058, 9-10=0/25
BOT CHORD 2-15=-1749/3479, 15-23=-1746/3504, 23-24=-1746/3504, 14-24=-1746/3504, 14-25=-2952/5861, 25-26=-2952/5861, 13-26=-2952/5861, 13-27=-2952/5861, 27-28=-2952/5861, 12-28=-2952/5861, 12-29=-1750/3547, 29-30=-1750/3547, 11-30=-1750/3547, 9-11=-1754/3522
WEBS 3-15=0/415, 3-14=-1029/1992, 4-14=-354/388, 5-14=-745/396, 5-13=0/350, 5-12=-720/373, 7-12=-352/383, 8-12=-1009/1967, 8-11=0/430

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise); 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1071 lb uplift at joint 2 and 1091 lb uplift at joint 9.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 236 lb down and 306 lb up at 5-0-0, 69 lb down and 132 lb up at 7-0-12, 77 lb down and 145 lb up at 9-0-12, 77 lb down and 145 lb up at 11-0-12, 77 lb down and 145 lb up at 13-0-12, 77 lb down and 145 lb up at 15-0-12, 77 lb down and 145 lb up at 17-0-12, 69 lb down and 132 lb up at 19-0-12, and 69 lb down and 132 lb up at 21-0-12, and 236 lb down and 306 lb up at 22-6-0 on top chord, and 162 lb down at 5-0-0, 57 lb down at 7-0-12, 57 lb down at 9-0-12, 57 lb down at 11-0-12, 57 lb down at 13-0-12, 57 lb down at 15-0-12, 57 lb down at 17-0-12, 57 lb down at 19-0-12, and 57 lb down at 21-0-12, and 162 lb down at 22-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125
AUSTIN	HGRD3	HIP	1	1	E4530660 Job Reference (optional)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-46, 3-8=-46, 8-10=-46, 2-9=-40

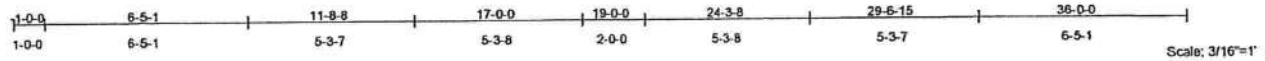
Concentrated Loads (lb)

Vert: 3=-196(F) 6=-77(F) 8=-196(F) 15=-162(F) 11=-162(F) 16=-69(F) 17=-77(F) 18=-77(F) 19=-77(F) 20=-77(F) 21=-69(F) 22=-69(F) 23=-57(F) 24=-57(F) 25=-57(F) 26=-57(F) 27=-57(F) 28=-57(F) 29=-57(F) 30=-57(F)

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530662
AUSTIN	HS1A	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:43:57 2007 Page 1



Scale: 3/16"=1'

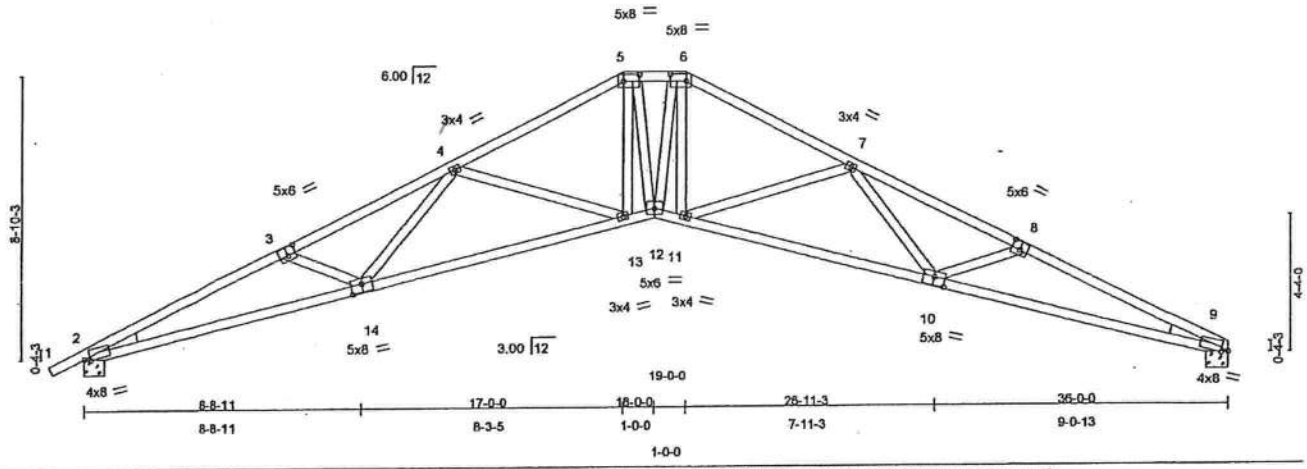


Plate Offsets (X,Y): [2:0-2-7,Edge], [3:0-3-0,0-3-0], [5:0-6-0,0-2-8], [6:0-6-0,0-2-8], [8:0-3-0,0-3-0], [9:0-2-7,Edge], [10:0-4-0,0-3-0], [14:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.88	Vert(LL)	-0.56	13-14	>762	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.96	Vert(TL)	-1.13	13-14	>375	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(TL)	0.75	9	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 183 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
2-14 2 X 4 SYP No.1D, 9-10 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.2
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

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

REACTIONS (lb/size) 9=1518/0-8-0, 2=1585/0-8-0
Max Horz 2=159(LC 6)
Max Uplift9=-280(LC 7), 2=-362(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/18, 2-3=-4842/1457, 3-4=-4669/1334, 4-5=-3450/989, 5-6=-3172/985, 6-7=-3443/991, 7-8=-4648/1350, 8-9=-4840/1507
BOT CHORD 2-14=-1234/4384, 13-14=-959/3887, 12-13=-569/3082, 11-12=-571/3084, 10-11=-968/3899, 9-10=-1284/4388
WEBS 3-14=-117/242, 4-14=-84/680, 4-13=-749/408, 5-13=-97/897, 5-12=-212/510, 6-12=-225/537, 6-11=-104/861, 7-11=-771/415, 7-10=-96/861, 8-10=-140/272

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Bearing at joint(s) 9, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 9 and 362 lb uplift at joint 2.

LOAD CASE(S) Standard

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November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530664
AUSTIN	HS2A	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:43:59 2007 Page 1

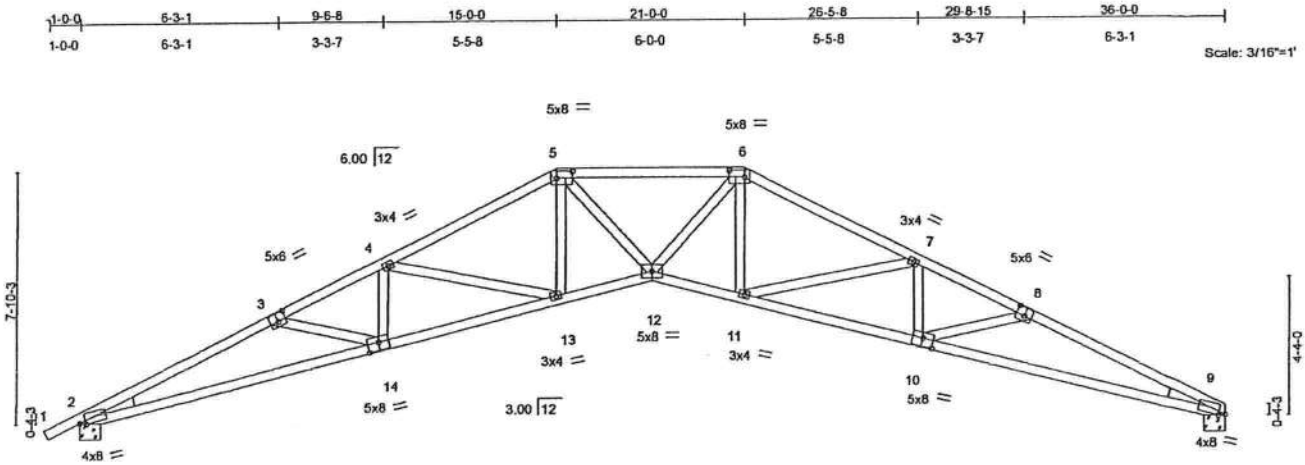

Plate Offsets (X,Y): [2:0-2-7,Edge], [3:0-3-0,0-3-0], [5:0-6-0,0-2-8], [6:0-6-0,0-2-8], [8:0-3-0,0-3-0], [9:0-2-7,Edge], [10:0-4-0,0-3-0], [14:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.89	Vert(LL)	-0.52	12	>814	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-1.03	12	>411	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(TL)	0.75	9	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 176 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.2
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-8-9 oc bracing.

REACTIONS (lb/size) 9=1518/0-8-0, 2=1585/0-8-0
Max Horz 2=143(LC 6)
Max Uplift 9=-267(LC 7), 2=-348(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/18, 2-3=-4769/1492, 3-4=-4607/1362, 4-5=-3753/1147, 5-6=-4143/1242, 6-7=-3755/1151, 7-8=-4619/1391, 8-9=-4789/1538
BOT CHORD 2-14=-1264/4321, 13-14=-1068/4230, 12-13=-758/3438, 11-12=-762/3440, 10-11=-1091/4240, 9-10=-1311/4342
WEBS 3-14=-91/197, 4-14=-0/386, 4-13=-802/303, 5-13=-104/513, 5-12=-226/1190, 6-12=-220/1188, 6-11=-108/515, 7-11=-811/323, 7-10=-18/395, 8-10=-101/219

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Bearing at joint(s) 9, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 9 and 348 lb uplift at joint 2.

LOAD CASE(S) Standard

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ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

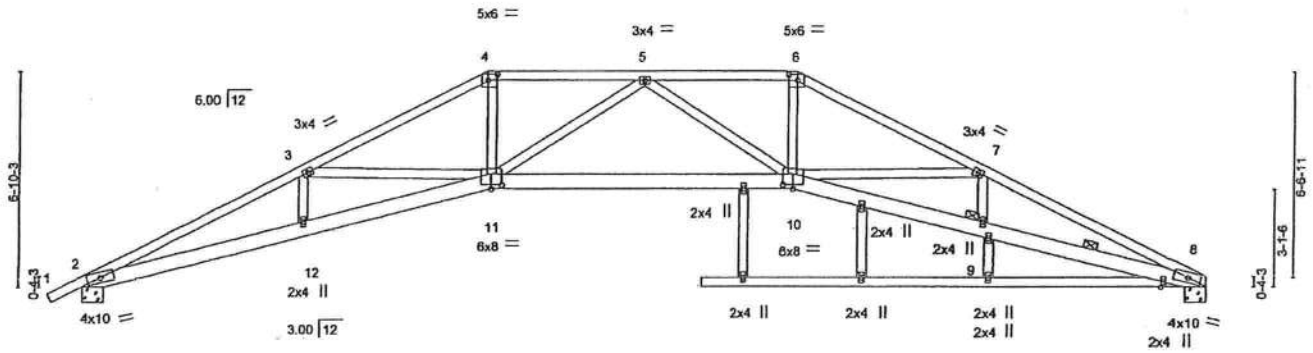
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530685
AUSTIN	HS3A	SPECIAL	1	1	Job Reference (optional)	

Meronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:00 2007 Page 1

1-0-0 | 7-0-13 | 13-0-0 | 18-0-0 | 23-0-0 | 28-11-3 | 36-0-0

1-0-0 | 7-0-13 | 5-11-3 | 5-0-0 | 5-0-0 | 5-11-3 | 7-0-13

Scale = 1:65.9



7-0-13 | 13-1-8 | 22-10-8 | 28-11-3 | 36-0-0

7-0-13 | 6-0-11 | 9-9-0 | 6-0-11 | 7-0-13

Plate Offsets (X,Y): [4:0-3-8,0-2-4], [6:0-3-8,0-2-4], [10:0-4-0,0-1-8], [11:0-4-0,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.66	Vert(LL)	-0.51	10-11	>836	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.71	Vert(TL)	-1.03	10-11	>413	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.61	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 226 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D *Except* 10-11 2 X 6 SYP No.2, 8-13 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-3-10 oc bracing. Except: 7-1-0 oc bracing: 8-9, 7-2-0 oc bracing: 9-10
JOINTS 1 Brace at Jt(s): 9

REACTIONS (lb/size) 8=1518/0-8-0, 2=1585/0-8-0
Max Horz 2=132(LC 6)
Max Uplift8=-251(LC 7), 2=-333(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-5019/1526, 3-4=-4233/1280, 4-5=-3790/1214, 5-6=-3793/1221, 6-7=-4237/1288, 7-8=-5042/1580
BOT CHORD 2-12=-1299/4530, 11-12=-1300/4548, 10-11=-1051/3935, 9-10=-1349/4569, 8-9=-1353/4553
WEBS 3-12=0/206, 3-11=-666/357, 4-11=-341/1603, 5-11=-327/240, 5-10=-325/237, 6-10=-346/1605, 7-10=-683/399, 7-9=0/209

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Bearing at joint(s) 8, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 8 and 333 lb uplift at joint 2.

LOAD CASE(S) Standard

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November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125
AUSTIN	HS4	SPECIAL	1	1	E4530567 Job Reference (optional)

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:01 2007 Page 1

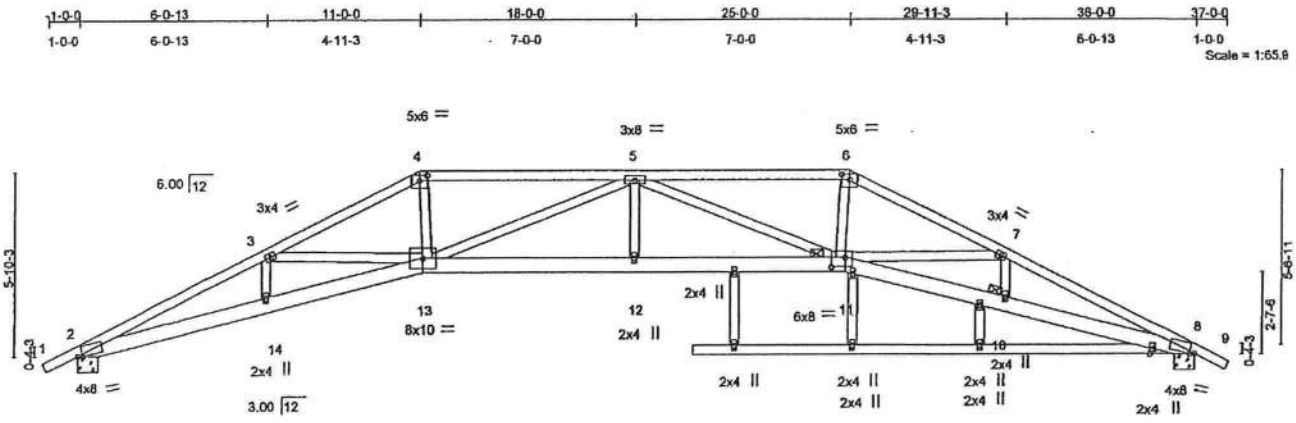

Plate Offsets (X,Y): [2:0-1-15,0-0-9], [4:0-3-0,0-2-0], [6:0-3-0,0-2-0], [8:0-1-15,0-0-9], [11:0-5-4,0-3-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.50	12	>850	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.99	12-13	>428	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(TL)	0.61	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 229 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D *Except*
8-15 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-2 oc bracing.
JOINTS 1 Brace at Jt(s): 11, 10

REACTIONS (lb/size) 2=1584/0-8-0, 8=1584/0-8-0
Max Horz 2=108(LC 6)
Max Uplift2=-315(LC 6), 8=-315(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-4994/1481, 3-4=-4488/1368, 4-5=-4049/1292, 5-6=-4049/1292, 6-7=-4488/1368, 7-8=-4994/1481, 8-9=0/22
BOT CHORD 2-14=-1208/4494, 13-14=-1214/4515, 12-13=-1248/4774, 11-12=-1248/4774, 10-11=-1214/4515, 8-10=-1208/4494
WEBS 3-14=0/167, 3-13=-391/249, 5-12=0/282, 5-11=-930/298, 7-11=-391/261, 7-10=0/167, 5-13=-930/300, 6-11=-364/1703, 4-13=-364/1703

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 2 and 315 lb uplift at joint 8.

LOAD CASE(S) Standard

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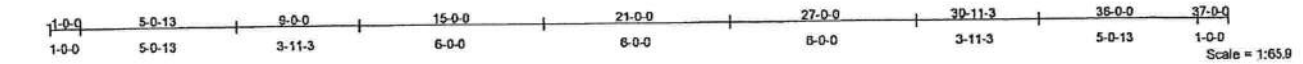
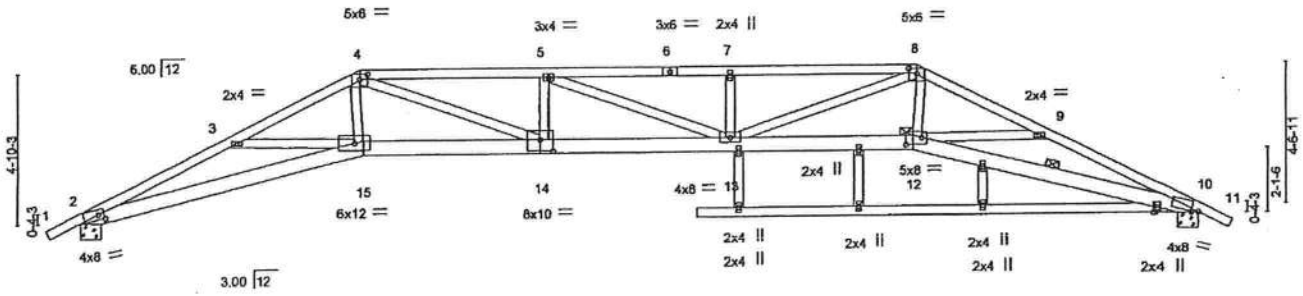
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530668
AUSTIN	HS5	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:01 2007 Page 1





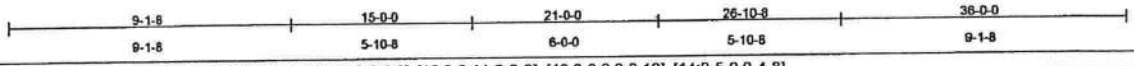


Plate Offsets (X,Y): [2:0-2-4,0-2-0], [4:0-3-0,0-2-0], [8:0-3-0,0-2-0], [10:0-2-11,0-0-9], [12:0-6-0,0-2-12], [14:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.64	13-14	>665	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-1.26	13-14	>335	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.62	10	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 228 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D *Except*
10-16 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-11 oc bracing. Except:
7-3-0 oc bracing: 10-12
JOINTS 1 Brace at Jt(s): 12

REACTIONS (lb/size) 2=1584/0-8-0, 10=1584/0-8-0
Max Horz 2=-93(LC 7)
Max Uplift2=-295(LC 6), 10=-295(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-4835/1610, 3-4=-4753/1444, 4-5=-5526/1846, 5-6=-5514/1843, 6-7=-5514/1843, 7-8=-5514/1843, 8-9=-4762/1448, 9-10=-4839/1611, 10-11=0/22
BOT CHORD 2-15=-1336/4371, 14-15=-1088/4298, 13-14=-1595/5541, 12-13=-1091/4308, 10-12=-1337/4375
WEBS 3-15=-37/270, 4-14=-532/1417, 5-14=-307/255, 5-13=-115/71, 7-13=-276/257, 8-13=-523/1393, 9-12=-44/277, 8-12=-230/1390, 4-15=-223/1372

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 295 lb uplift at joint 2 and 295 lb uplift at joint 10.

LOAD CASE(S) Standard

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November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530669
AUSTIN	HSGRD1	SPECIAL	1	3	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:02 2007 Page 1

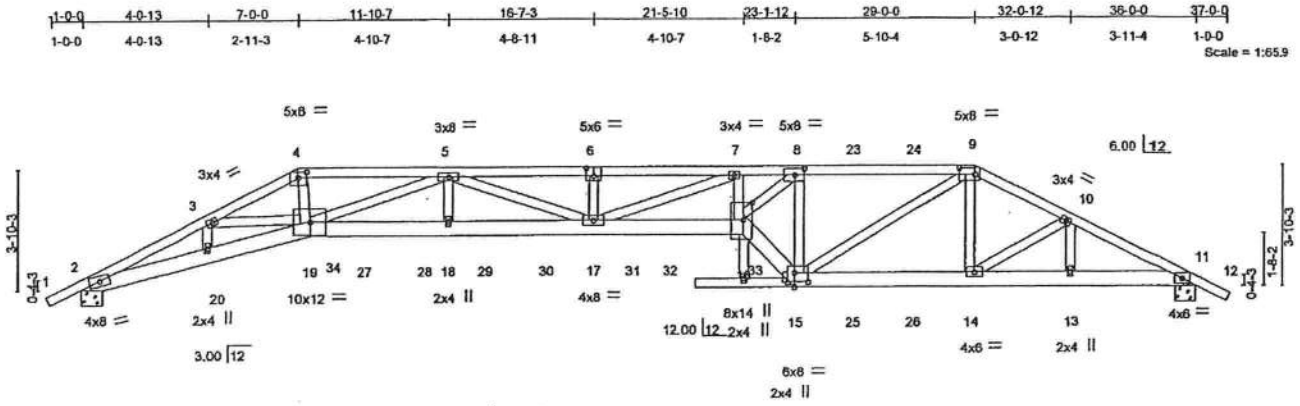

Plate Offsets (X,Y): [4:0-3-0,0-2-0], [6:0-3-0,0-3-0], [8:0-3-8,0-2-8], [9:0-6-0,0-2-8], [15:0-1-12,0-2-12], [15:0-5-4,0-3-8], [16:0-6-12,0-3-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.46	Vert(LL)	0.75	16-17	>563	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.88	Vert(TL)	-1.26	16-17	>338	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(TL)	-0.47	2	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 653 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D
BOT CHORD 2 X 6 SYP No.2 *Except* 16-19 2 X 6 SYP No.1D, 15-21 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 11=3534/0-8-0, 2=3592/0-8-0
Max Horz 11=-80(LC 6)
Max Uplift11=-1665(LC 8), 2=-1691(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 9-10=-6957/3391, 10-11=-6833/3194, 11-12=0/25, 4-5=-12589/6331, 5-6=-18762/9386, 6-7=-18762/9386, 7-8=-18144/9016, 8-23=-9223/4588, 23-24=-9223/4588, 9-24=-9223/4588, 1-2=0/22, 2-3=-11630/5630, 3-4=-12800/6409
BOT CHORD 15-25=-3021/6267, 25-26=-3021/6264, 14-26=-3020/6262, 13-14=-2812/5981, 11-13=-2812/5981, 15-16=-5882/11965, 19-27=-8362/16846, 27-28=-8362/16846, 18-28=-8362/16846, 18-29=-8362/16846, 29-30=-8362/16846, 17-30=-8362/16846, 17-31=-8962/18164, 31-32=-8964/18168, 32-33=-8965/18171, 16-33=-8967/18173, 2-20=-4992/10394, 20-34=-5040/10490, 19-34=-5156/10675
WEBS 10-13=-118/155, 10-14=-311/381, 9-14=-408/1039, 9-15=-1790/3464, 8-15=-9174/4681, 8-16=-6409/12898, 7-16=-324/209, 7-17=-452/686, 6-17=-208/154, 5-17=-1025/2102, 5-18=-369/769, 5-19=-4643/2383, 4-19=-2772/5570, 3-19=-901/1444, 3-20=-282/241

NOTES
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-8-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1665 lb uplift at joint 11 and 1691 lb uplift at joint 2.

Continued on page 2

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NOTES

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 72 lb up at 29-0-0, 19 lb down and 72 lb up at 27-0-12, and 19 lb down and 72 lb up at 25-0-12, and 19 lb down and 72 lb up at 23-0-12 on top chord, and 738 lb down and 433 lb up at 29-0-0, 190 lb down and 93 lb up at 27-0-12, 190 lb down and 93 lb up at 25-0-12, 190 lb down and 93 lb up at 23-1-12, 258 lb down and 185 lb up at 21-0-12, 258 lb down and 185 lb up at 19-0-12, 258 lb down and 185 lb up at 17-0-12, 258 lb down and 185 lb up at 15-0-12, 258 lb down and 185 lb up at 13-0-12, 258 lb down and 185 lb up at 11-0-12, and 258 lb down and 185 lb up at 9-0-12, and 766 lb down and 519 lb up at 7-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

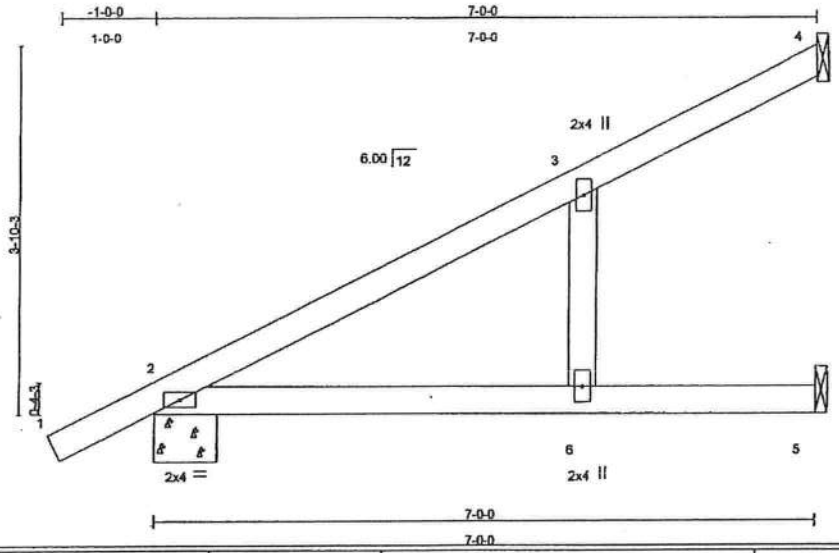
Vert: 9-12=-46, 4-9=-46, 1-4=-46, 11-15=-40, 15-16=-40, 16-19=-40, 2-19=-40

Concentrated Loads (lb)

Vert: 9=-19(F) 15=-190(F) 14=-738(F) 8=-19(F) 23=-19(F) 24=-19(F) 25=-190(F) 26=-190(F) 27=-258(F) 28=-258(F) 29=-258(F) 30=-258(F) 31=-258(F) 32=-258(F) 33=-258(F) 34=-766(F)

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125 E4530670
AUSTIN	J	MONO TRUSS	29	1	Job Reference (optional)

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:03 2007 Page 1



Scale = 1:21.5

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.38	Vert(LL)	0.14	2-6	>578	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.45	Vert(TL)	-0.26	2-6	>308	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 27 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 4=136/Mechanical, 2=355/0-8-0, 5=141/Mechanical
Max Horz 2=178(LC 6)
Max Uplift4=-64(LC 6), 2=-120(LC 6), 5=-34(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-126/10, 3-4=-46/56
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-14/132

NOTES (5)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 4, 120 lb uplift at joint 2 and 34 lb uplift at joint 5.
5) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 4 and 5.

LOAD CASE(S) Standard

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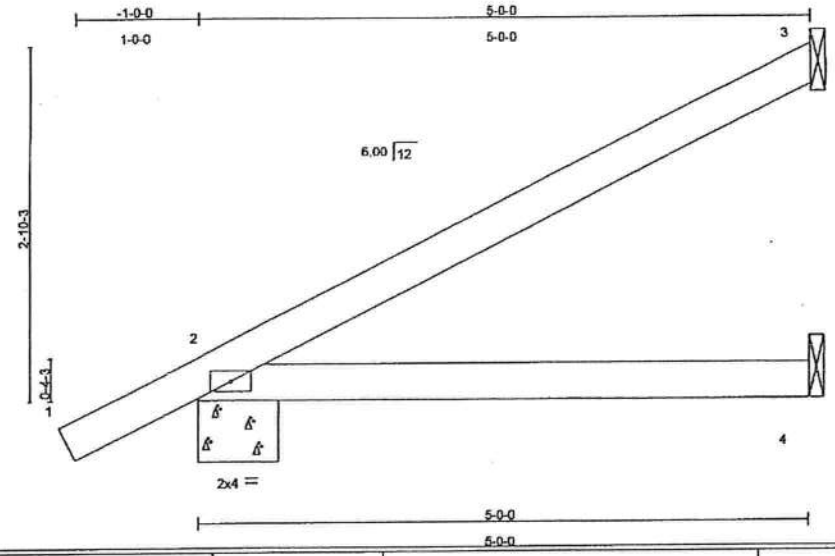
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530671
AUSTIN	J1	JACK	8	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:03 2007 Page 1



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.18	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.06	2-4	>937	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 18 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 3=96/Mechanical, 2=272/0-8-0, 4=92/Mechanical
Max Horz2=136(LC 6)
Max Uplift3=-91(LC 6), 2=-114(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-72/36
BOT CHORD 2-4=0/0

NOTES (5)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 3 and 114 lb uplift at joint 2.
5) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

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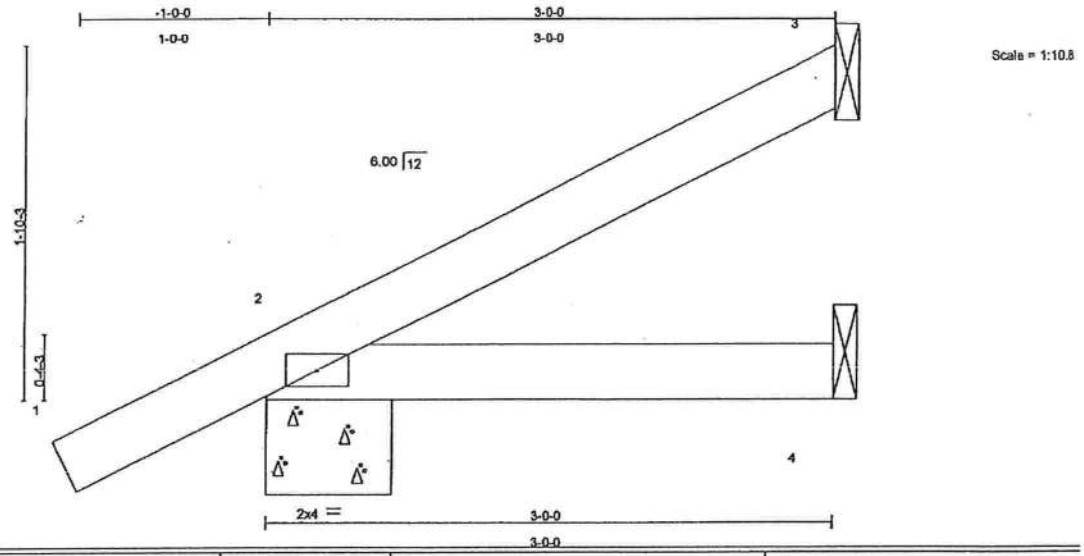
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125 E4530672
AUSTIN	J2	JACK	8	1	Job Reference (optional)

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:03 2007 Page 1



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 11 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 3=43/Mechanical, 2=194/0-8-0, 4=52/Mechanical
Max Horz 2=95(LC 6)
Max Uplift3=-37(LC 6), 2=-113(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-39/15
BOT CHORD 2-4=0/0

NOTES (5)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 3 and 113 lb uplift at joint 2.
5) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

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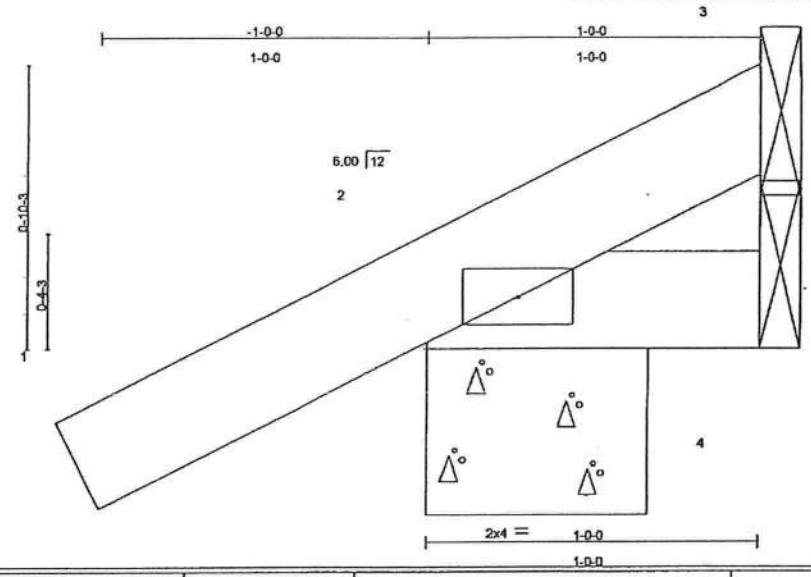
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125
AUSTIN	J3	JACK	8	1	E4530573
					Job Reference (optional)

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:04 2007 Page 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	0.11	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 5 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 2=124/0-8-0, 4=18/Mechanical, 3=-11/Mechanical
Max Horz 2=54(LC 6)
Max Uplift2=-116(LC 6), 3=-11(LC 1)
Max Grav2=124(LC 1), 4=18(LC 1), 3=27(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-27/26
BOT CHORD 2-4=0/0

NOTES (5)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 11 lb uplift at joint 3.
5) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

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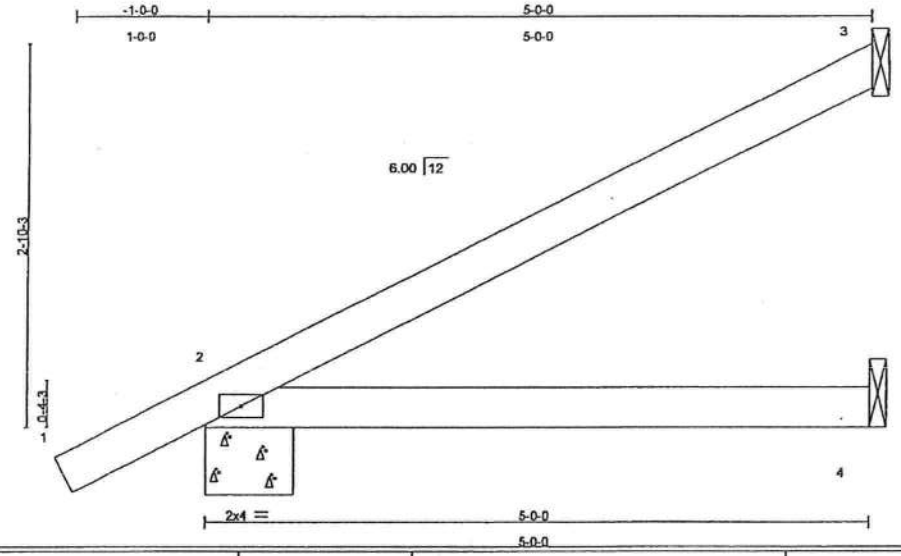
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125
AUSTIN	J5S	MONO TRUSS	5	1	E4530676 Job Reference (optional)

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:05 2007 Page 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	0.18	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.06	2-4	>937	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 18 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 3=96/Mechanical, 2=272/0-8-0, 4=92/Mechanical
Max Horz 2=136(LC 6)
Max Uplift3=-91(LC 6), 2=-114(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-72/36
BOT CHORD 2-4=0/0

NOTES (5)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 3 and 114 lb uplift at joint 2.
5) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

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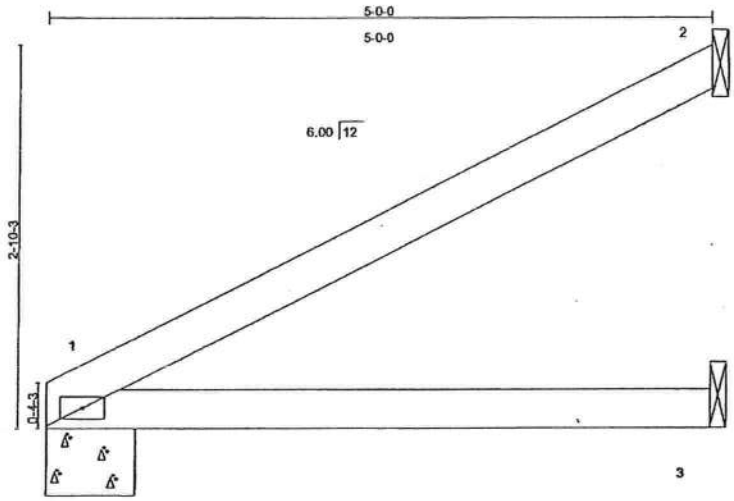
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530877
AUSTIN	J5SA	MONO TRUSS	5	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:05 2007 Page 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	0.22	Vert(LL)	-0.02	1-3	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.06	1-3	>937	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 16 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=198/0-8-0, 2=106/Mechanical, 3=92/Mechanical
Max Horz 1=104(LC 6)
Max Uplift1=-20(LC 6), 2=-104(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-81/41
BOT CHORD 1-3=0/0

NOTES (5)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 104 lb uplift at joint 2.
5) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 2 and 3.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530678
AUSTIN	J6S	JACK	4	1	Job Reference (optional)	

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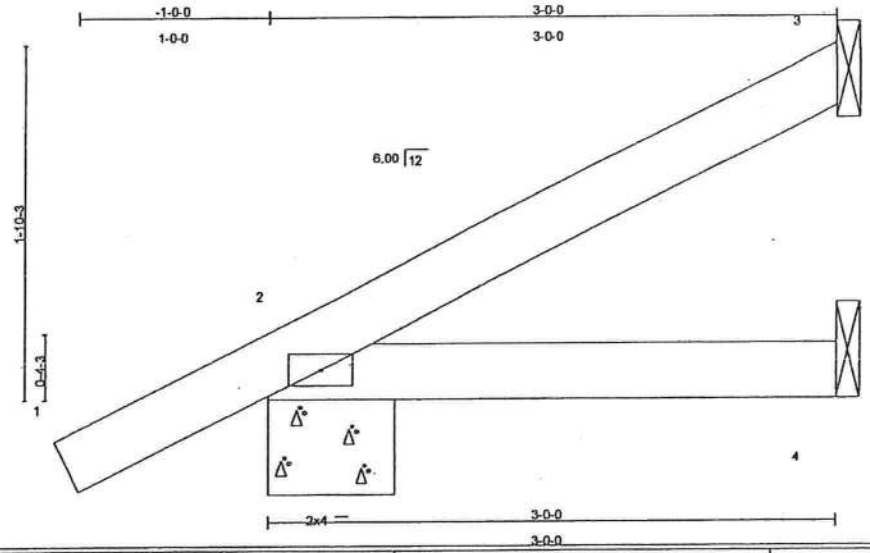
7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:05 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 11 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 3=43/Mechanical, 2=194/0-8-0, 4=52/Mechanical
Max Horz 2=95(LC 6)
Max Uplift3=-37(LC 6), 2=-113(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-39/15
BOT CHORD 2-4=0/0

NOTES (5)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 3 and 113 lb uplift at joint 2.
5) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

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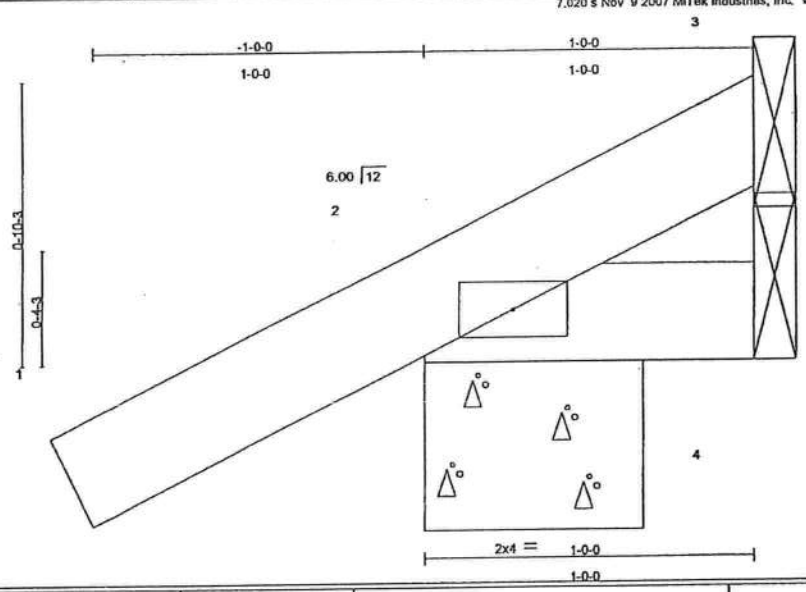
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530679
AUSTIN	J7S	JACK	4	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:06 2007 Page 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	0.11	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 5 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 2=124/0-8-0, 4=18/Mechanical, 3=-11/Mechanical
Max Horz 2=54(LC 6)
Max Uplift2=-116(LC 6), 3=-11(LC 1)
Max Grav2=124(LC 1), 4=18(LC 1), 3=27(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-27/26
BOT CHORD 2-4=0/0

NOTES (5)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 11 lb uplift at joint 3.
5) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

LOAD CASE(S) Standard

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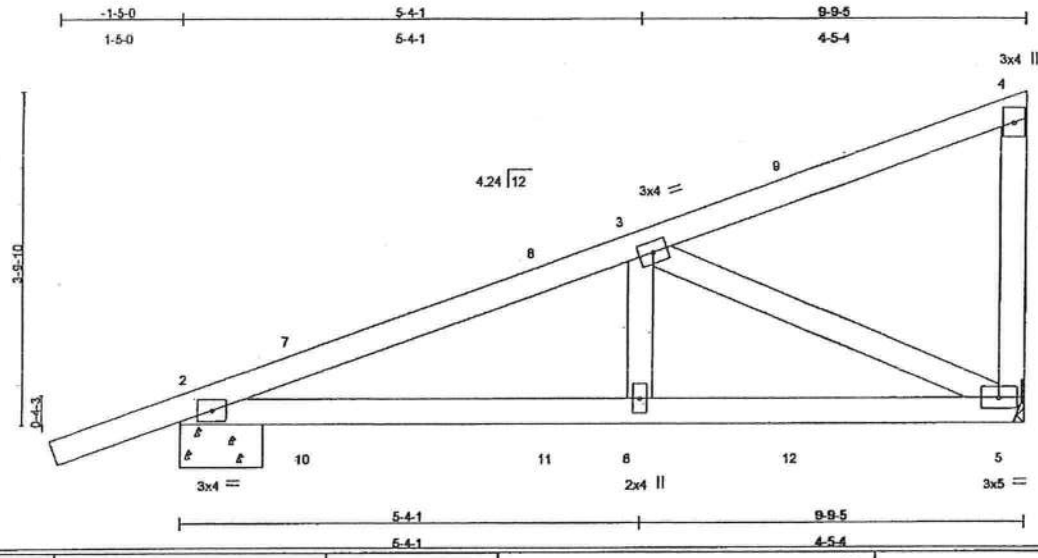
November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530680
AUSTIN	JGRD1	MONO TRUSS	4	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:06 2007 Page 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 0.24	Vert(LL) -0.02 5-6 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.29	Vert(TL) -0.05 5-6 >999 180	
BCLL 10.0	Rep Stress Incr NO	WB 0.24	Horz(TL) 0.01 5 n/a n/a	
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)		Weight: 46 lb

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-9 oc bracing.

REACTIONS (lb/size) 5=556/Mechanical, 2=521/0-11-5
Max Horz 2=174(LC 3)
Max Uplift5=-307(LC 7), 2=-247(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-7=-816/291, 7-8=-780/309, 3-8=-745/296, 3-9=-116/64, 4-9=-48/0, 4-5=-126/155
BOT CHORD 2-10=-392/728, 10-11=-392/728, 6-11=-392/728, 6-12=-392/728, 5-12=-392/728
WEBS 3-6=0/282, 3-5=-737/387

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 307 lb uplift at joint 5 and 247 lb uplift at joint 2.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb up at 4-4-0, 43 lb up at 4-4-0, 59 lb down and 122 lb up at 7-1-15, 59 lb down and 122 lb up at 7-1-15, and 48 lb down at 1-6-1, and 48 lb down at 1-6-1 on top chord, and 22 lb up at 1-6-1, 22 lb up at 1-6-1, 12 lb down at 4-4-0, 12 lb down at 4-4-0, and 52 lb down at 7-1-15, and 52 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-46, 2-5=-40
Concentrated Loads (lb)
Vert: 8=8(F=4, B=4) 9=-118(F=-59, B=-59) 10=43(F=22, B=22) 11=-24(F=-12, B=-12) 12=-104(F=-52, B=-52)

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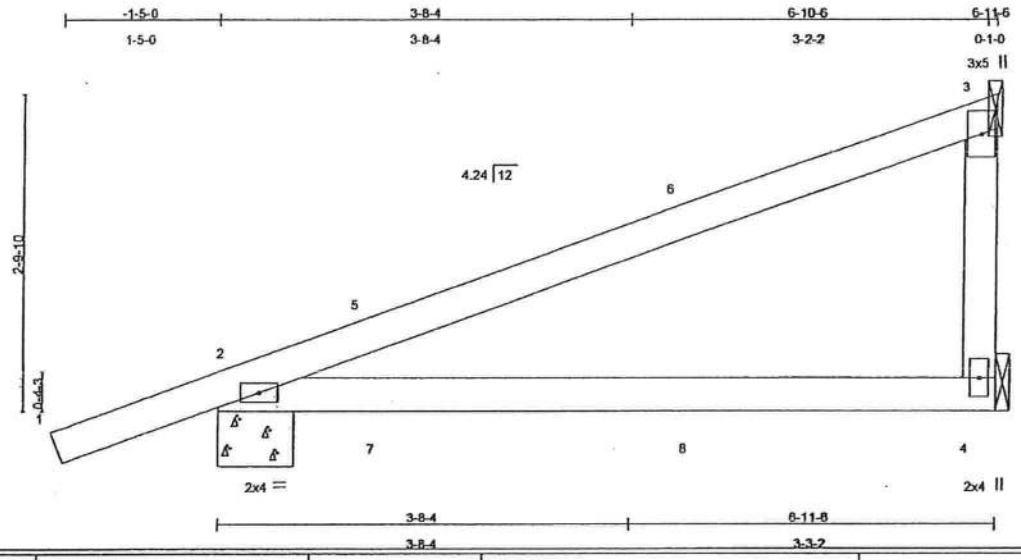
November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530682
AUSTIN	JGRD3	JACK	2	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:07 2007 Page 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	0.48	Vert(LL)	-0.10	2-4	>799	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.24	2-4	>319	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 27 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 2=358/0-8-0, 4=142/Mechanical, 3=149/Mechanical
Max Horz 2=132(LC 3)
Max Uplift2=-170(LC 7), 3=-164(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-5=-79/0, 5-6=-34/0, 3-6=-66/42
BOT CHORD 2-7=0/0, 7-8=0/0, 4-8=0/0
WEBS 3-4=0/0

NOTES (8)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 2 and 164 lb uplift at joint 3.
5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 9 lb down and 57 lb up at 4-4-0, 9 lb down and 57 lb up at 4-4-0, and 47 lb down at 1-6-1, and 47 lb down at 1-6-1 on top chord, and 21 lb up at 1-6-1, 21 lb up at 1-6-1, and 17 lb down at 4-4-0, and 17 lb down at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-48, 2-4=-40
Concentrated Loads (lb)
Vert: 6=-19(F=-9, B=-9) 7=41(F=21, B=21) 8=-33(F=-17, B=-17)

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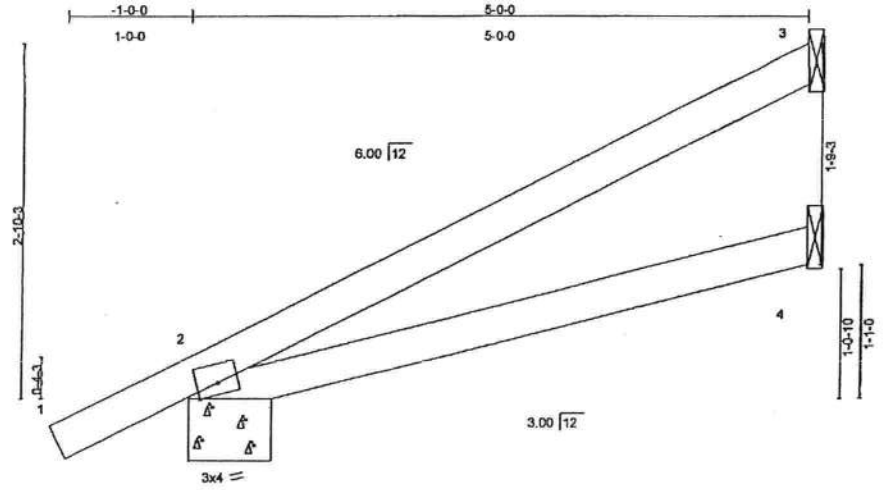
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530683
AUSTIN	J61	SPECIAL	2	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:07 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	18.0	Plates Increase	1.25	TC	0.18	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.06	2-4	>909	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 18 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 3=96/Mechanical, 2=272/0-8-0, 4=92/Mechanical
Max Horz 2=134(LC 6)
Max Uplift3=-93(LC 6), 2=-111(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/18, 2-3=-75/37
BOT CHORD 2-4=-18/18

NOTES (6)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 3 and 111 lb uplift at joint 2.
6) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

LOAD CASE(S) Standard

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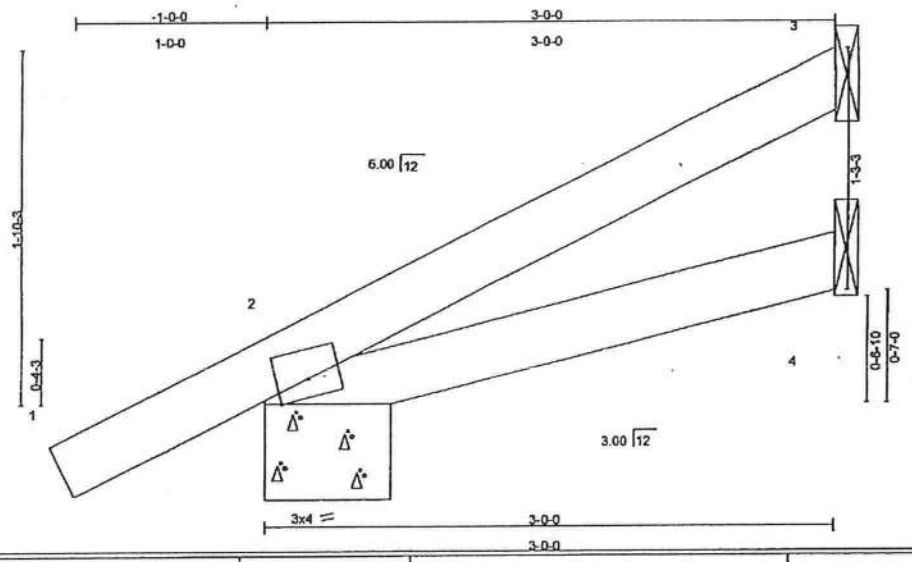
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530684
AUSTIN	JS2	SPECIAL	2	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:07 2007 Page 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	0.15	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 12 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 3=43/Mechanical, 2=194/0-8-0, 4=52/Mechanical
Max Horz 2=93(LC 6)
Max Uplift3=-40(LC 6), 2=-110(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/18, 2-3=-40/16
BOT CHORD 2-4=-10/10

NOTES (6)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 3 and 110 lb uplift at joint 2.
6) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

LOAD CASE(S) Standard

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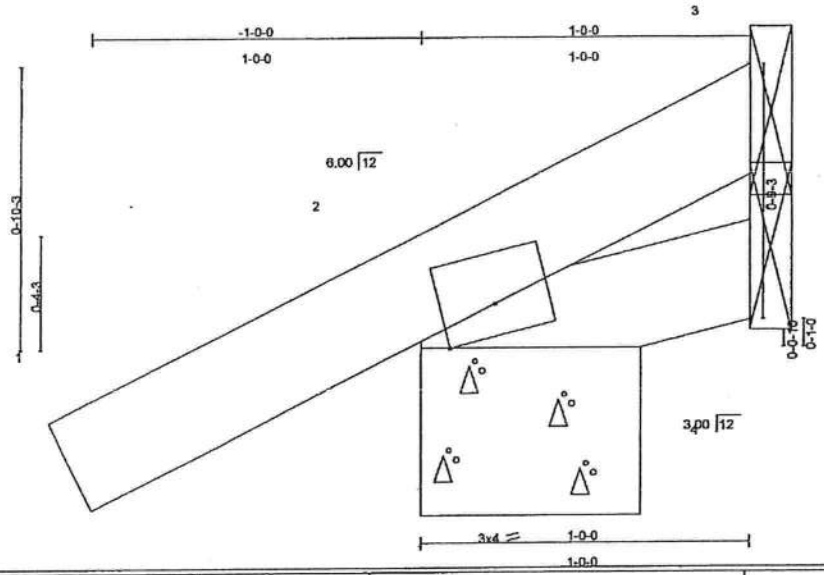
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530885
AUSTIN	JS3	SPECIAL	2	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:08 2007 Page 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	0.10	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 5 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 2=124/0-8-0, 4=18/Mechanical, 3=-11/Mechanical
Max Horz 2=51(LC 6)
Max Uplift2=-108(LC 6), 3=-11(LC 1)
Max Grav 2=124(LC 1), 4=18(LC 1), 3=18(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-32/24
BOT CHORD 2-4=-4/4

NOTES (6)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 2 and 11 lb uplift at joint 3.
6) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

LOAD CASE(S) Standard

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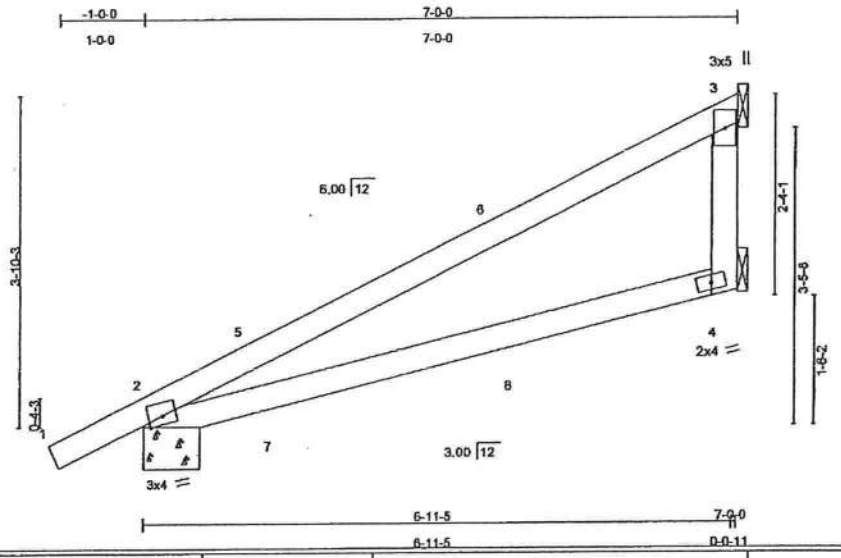
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530688
AUSTIN	JSA	SPECIAL	8	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:08 2007 Page 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 0.49	Vert(LL)	-0.10	2-4	>754	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.45	Vert(TL)	-0.26	2-4	>302	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)						Weight: 27 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 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.

REACTIONS (lb/size) 2=338/0-8-0, 3=155/Mechanical, 4=143/Mechanical
Max Horz 2=174(LC 6)
Max Uplift2=-122(LC 8), 3=-191(LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/18, 2-5=-120/0, 5-6=-93/0, 3-6=-101/60
BOT CHORD 2-7=-21/0, 7-8=-0/0, 4-8=0/28
WEBS 3-4=0/0

NOTES (8)
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2 and 191 lb uplift at joint 3.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 9 lb down and 57 lb up at 4-4-0, 9 lb down and 57 lb up at 4-4-0, and 47 lb down at 1-6-1, and 47 lb down at 1-6-1 on top chord, and 21 lb up at 1-6-1, 21 lb up at 1-6-1, and 17 lb down at 4-4-0, and 17 lb down at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-46, 2-4=-40
Concentrated Loads (lb)
Vert: 6=-19(F=-9, B=-9) 7=41(F=21, B=21) 8=-33(F=-17, B=-17)

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November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530687
AUSTIN	JSGRD1	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:09 2007 Page 1

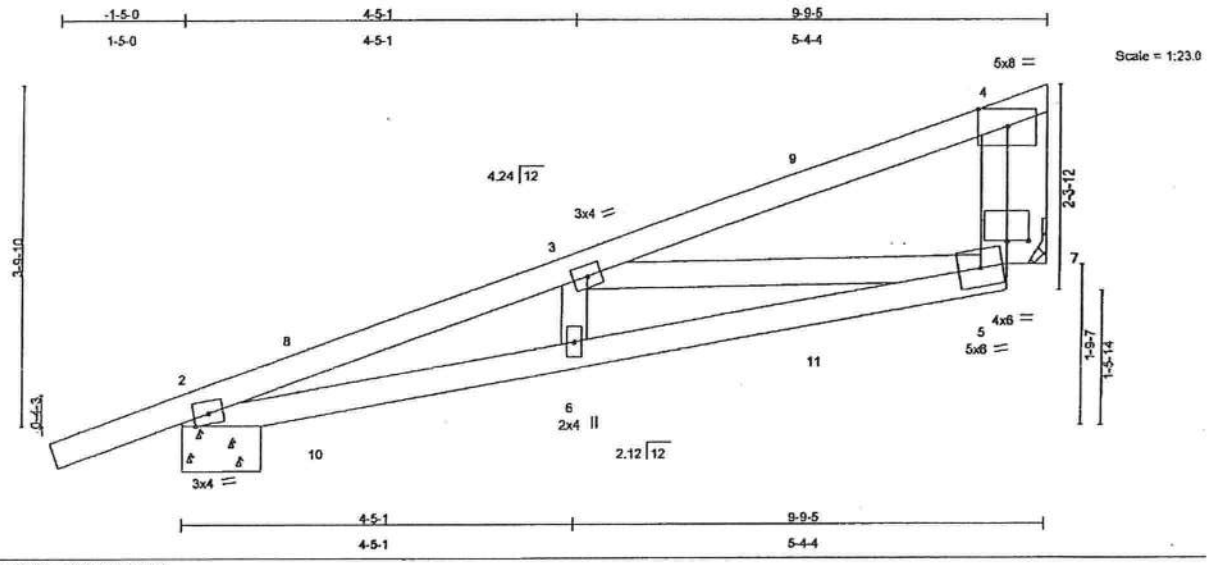

Plate Offsets (X,Y): [5:0-3-0,0-0-1]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0.05	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.11	5-6	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.30	Horz(TL)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 46 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2
OTHERS 2 X 6 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-11 oc bracing.

REACTIONS (lb/size) 2=522/0-10-9, 7=516/Mechanical
Max Horz 2=165(LC 7)
Max Uplift2=-260(LC 7), 7=-305(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/17, 2-8=-1374/611, 3-8=-1337/637, 3-9=-445/261, 4-9=-364/188, 4-5=-132/439
BOT CHORD 2-10=-696/1253, 8-10=-688/1266, 8-11=-711/1261, 5-11=-701/1300
WEBS 3-8=0/199, 3-5=-854/425, 4-7=-557/355, 5-7=-217/218

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 2 and 305 lb uplift at joint 7.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 47 lb up at 4-4-0, 47 lb up at 4-4-0, 59 lb down and 126 lb up at 7-1-15, 59 lb down and 126 lb up at 7-1-15, and 44 lb down at 1-6-1, and 44 lb down at 1-6-1 on top chord, and 22 lb up at 1-6-1, 22 lb up at 1-6-1, 12 lb down at 4-4-0, 12 lb down at 4-4-0, and 52 lb down at 7-1-15, and 52 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-46, 2-5=-40
Concentrated Loads (lb)
Vert: 3=8(F=4, B=4) 6=-24(F=-12, B=-12) 9=-118(F=-59, B=-59) 10=43(F=22, B=22) 11=-104(F=-52, B=-52)

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November 21,2007

ENGINEERING BY TRENCO
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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530688
AUSTIN	M1	MONO TRUSS	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:09 2007 Page 1

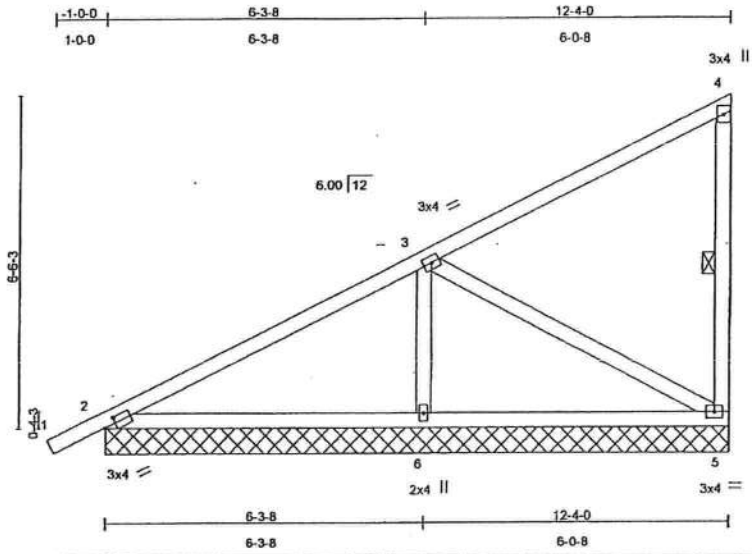

Plate Offsets (X,Y): [2:0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.01	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	0.04	1	n/r	120		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 63 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS (lb/size) 5=215/12-4-0, 2=288/12-4-0, 6=594/12-4-0
Max Horz 2=286(LC 6)
Max Uplift5=-117(LC 6), 2=-61(LC 6), 6=-140(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-151/28, 3-4=-93/28, 4-5=-105/126
BOT CHORD 2-6=-98/43, 5-6=-98/43
WEBS 3-6=-303/255, 3-5=-25/99

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Gable requires continuous bottom chord bearing.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 5, 61 lb uplift at joint 2 and 140 lb uplift at joint 6.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125
AUSTIN	MH1	SPECIAL	1	1	E4530689
					Job Reference (optional)

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:10 2007 Page 1

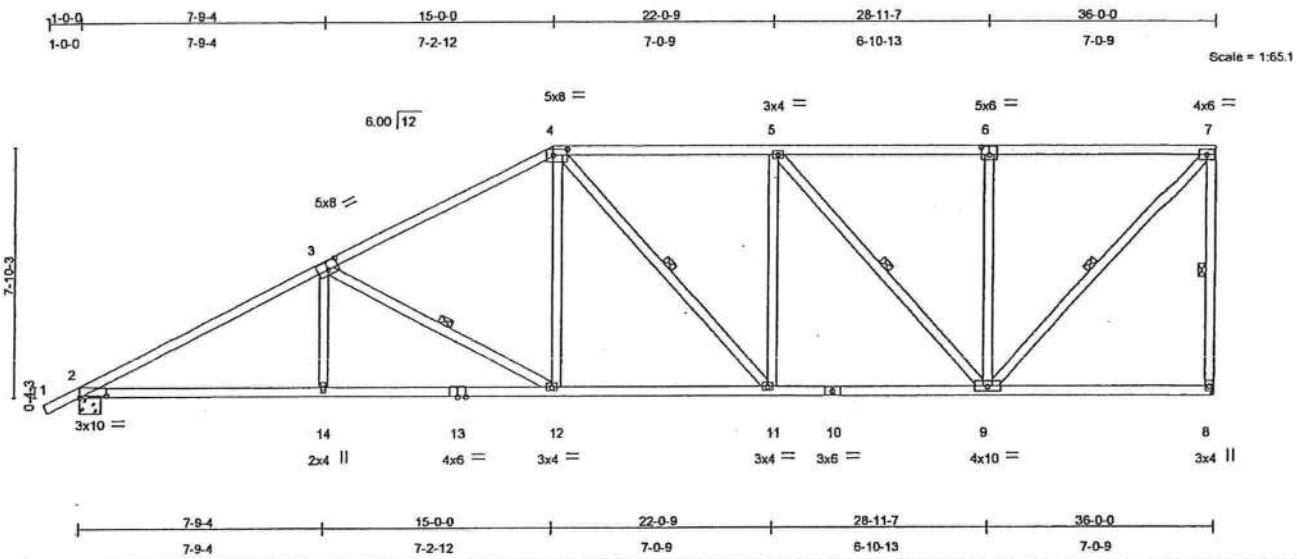

Plate Offsets (X,Y): [2:0-10-0,0-0-10], [3:0-4-0,0-3-0], [4:0-5-8,0-2-4], [6:0-3-0,0-3-0]

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)	-0.16	2-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.80	Vert(TL)	-0.34	2-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.35	Horz(TL)	-0.10	2	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 216 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-7 oc bracing.
WEBS 1 Row at midpt 7-8, 7-9, 5-9, 4-11, 3-12

REACTIONS (lb/size) 8=1526/Mechanical, 2=1593/0-8-0
Max Horz 8=345(LC 6)
Max Uplift8=-362(LC 5), 2=-329(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-8=-1396/603, 4-5=-1748/668, 5-6=-1170/441, 6-7=-1170/441, 1-2=0/21, 2-3=-2771/812, 3-4=-2063/706
BOT CHORD 2-14=-562/2390, 13-14=-564/2383, 12-13=-564/2383, 11-12=-298/1787, 10-11=-264/1748, 9-10=-264/1748, 8-9=0/393
WEBS 7-9=-637/1689, 6-9=-330/317, 5-9=-856/337, 5-11=-9/315, 4-11=-103/121, 4-12=-58/610, 3-12=-691/304, 3-14=0/333

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 8 and 329 lb uplift at joint 2.

LOAD CASE(S) Standard

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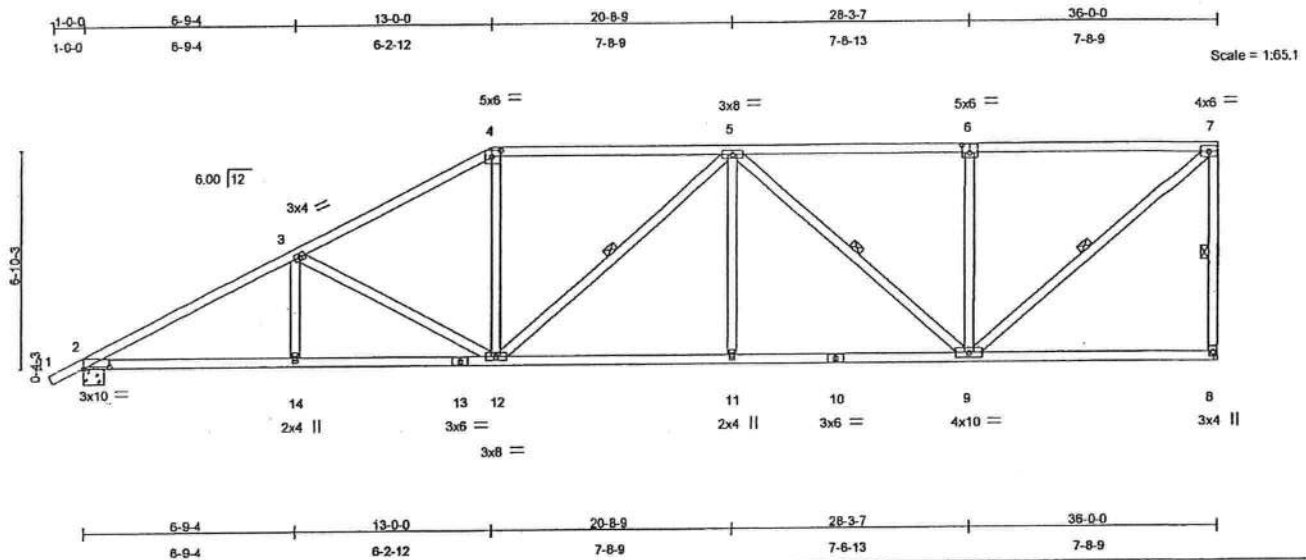
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530690
AUSTIN	MH2	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:10 2007 Page 1



6-9-4 13-0-0 20-8-9 28-3-7 36-0-0
6-9-4 6-2-12 7-8-9 7-8-13 7-8-9

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.18	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.39	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(TL)	-0.11	2	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 206 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-4 oc bracing.
WEBS 1 Row at midpt 7-8, 7-9, 5-9, 5-12

REACTIONS (lb/size) 8=1526/Mechanical, 2=1593/0-8-0
Max Horz 8=304(LC 6)
Max Uplift8=-365(LC 5), 2=-318(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-8=-1381/801, 4-5=-1957/757, 5-6=-1451/541, 6-7=-1451/541, 1-2=0/21, 2-3=-2807/852, 3-4=-2234/774
BOT CHORD 2-14=-608/2424, 13-14=-608/2424, 12-13=-608/2424, 11-12=-430/2084, 10-11=-430/2084, 9-10=-430/2084, 8-9=0/341
WEBS 7-9=-693/1858, 6-9=-358/343, 5-9=-837/327, 5-11=0/305, 5-12=-168/139, 4-12=-54/649, 3-12=-547/238, 3-14=0/273

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint 8 and 318 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530691
AUSTIN	MH3	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:11 2007 Page 1

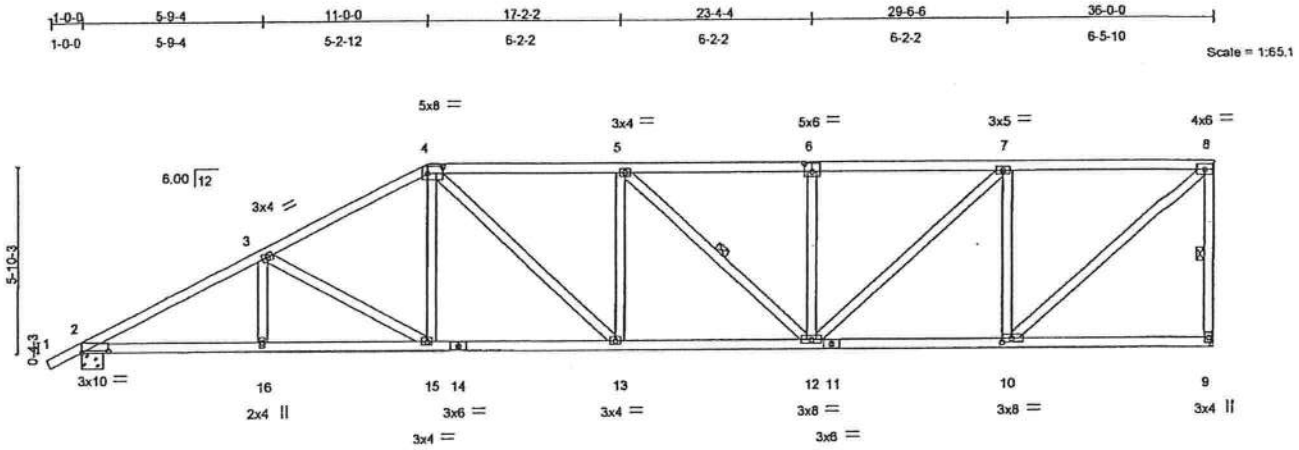

Plate Offsets (X,Y): [2:0-10-0,0-0-10], [4:0-6-0,0-2-8], [6:0-3-0,0-3-0], [10:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.18	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.36	12-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(TL)	-0.11	2	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 209 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-3 oc bracing.
WEBS 1 Row at midpt 8-9, 5-12

REACTIONS (lb/size) 9=1526/Mechanical, 2=1593/0-8-0
Max Horz 9=262(LC 6)
Max Uplift9=-368(LC 5), 2=-305(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-2840/884, 3-4=-2382/835, 4-5=-2478/929, 5-6=-2269/842, 6-7=-2269/842, 7-8=-1479/546, 8-9=-1403/590
BOT CHORD 2-16=-647/2454, 15-16=-647/2454, 14-15=-490/2095, 13-14=-490/2095, 12-13=-618/2478, 11-12=-234/1479, 10-11=-234/1479, 9-10=0/296
WEBS 3-16=0/225, 3-15=-422/182, 4-15=-21/432, 4-13=-196/515, 5-13=-97/207, 5-12=-281/117, 6-12=-279/259, 7-12=-398/1063, 7-10=-1008/553, 8-10=-706/1915

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 9 and 305 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530692
AUSTIN	MH4	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:11 2007 Page 1

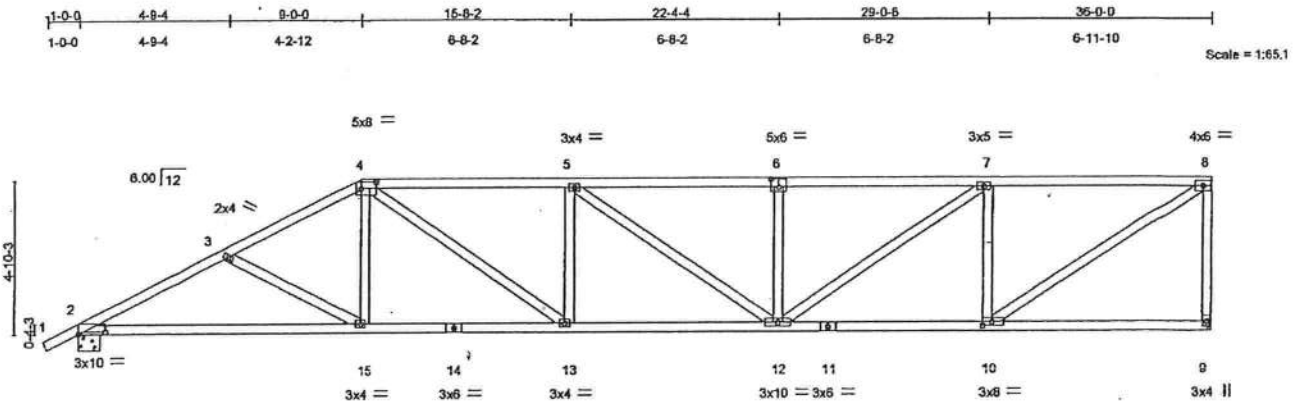

Plate Offsets (X,Y): [2:0-10-0,0-0-14], [4:0-6-0,0-2-8], [6:0-3-0,0-3-0], [10:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.85	Vert(LL)	-0.24	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.82	Vert(TL)	-0.49	12-13	>866	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(TL)	-0.12	2	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 195 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-14 oc bracing.

REACTIONS (lb/size) 9=1526/Mechanical, 2=1593/0-8-0
Max Horz 9=221(LC 6)
Max Uplift 9=-370(LC 5), 2=-296(LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-2733/947, 3-4=-2573/880, 4-5=-2978/1107, 5-6=-2867/1052, 6-7=-2867/1052, 7-8=-1917/702, 8-9=-1391/589
BOT CHORD 2-15=-704/2382, 14-15=-575/2276, 13-14=-575/2276, 12-13=-843/2978, 11-12=-437/1917, 10-11=-437/1917, 9-10=0/242
WEBS 3-15=-133/171, 4-15=0/394, 4-13=-324/849, 5-13=-237/255, 5-12=-134/67, 6-12=-302/280, 7-12=-424/1150, 7-10=-966/545, 8-10=-817/2230

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 370 lb uplift at joint 9 and 296 lb uplift at joint 2.

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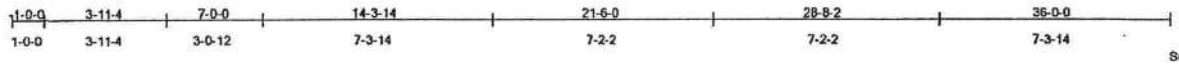
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530693
AUSTIN	MHGRD1	SPECIAL	1	2	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:12 2007 Page 1



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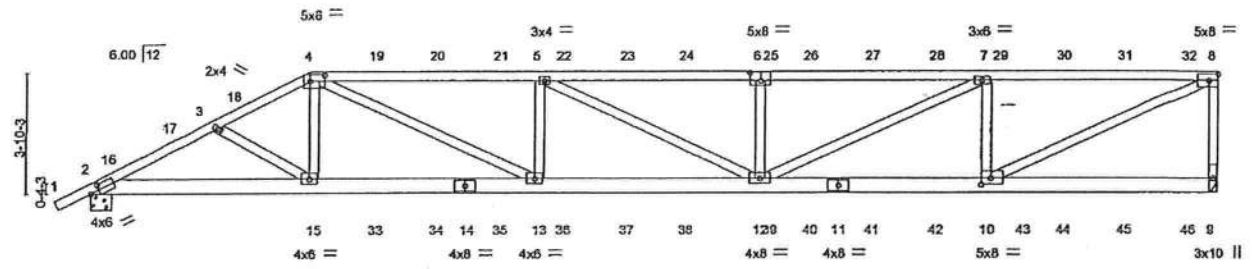

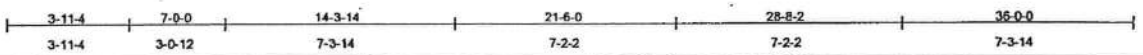

Plate Offsets (X,Y): [2:0-3-10,0-2-0], [4:0-5-8,0-2-4], [6:0-4-0,0-3-0], [10:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.73	Vert(LL)	0.41	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.71	Vert(TL)	-0.70	12-13	>605	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.73	Horz(TL)	-0.10	2	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 428 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-0 oc bracing.

REACTIONS (lb/size) 9=3456/Mechanical, 2=3341/0-8-0
Max Horz 9=181(LC 5)
Max Uplift 9=-1881(LC 7), 2=-1885(LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-16=-6512/3586, 16-17=-6456/3503, 3-17=-6444/3424, 3-18=-6568/3513, 4-18=-6510/3523, 4-19=-8802/4793, 19-20=-8802/4793, 20-21=-8801/4792, 5-21=-8801/4792, 5-22=-8720/4742, 22-23=-8720/4742, 23-24=-8720/4742, 24-25=-8720/4742, 6-25=-8720/4742, 6-26=-8720/4742, 26-27=-8720/4742, 27-28=-8720/4742, 7-28=-8720/4742, 7-29=-5894/3288, 29-30=-5894/3288, 30-31=-5894/3288, 31-32=-5894/3288, 8-32=-5894/3288, 8-9=-3127/1878
BOT CHORD 2-15=-3023/5685, 15-33=-3059/5940, 33-34=-3059/5940, 14-34=-3059/5940, 14-35=-3059/5940, 13-35=-3059/5940, 13-36=-4611/8801, 36-37=-4611/8801, 37-38=-4611/8801, 38-39=-4611/8801, 12-39=-4611/8801, 12-40=-3172/5894, 11-40=-3172/5894, 11-41=-3172/5894, 41-42=-3172/5894, 10-42=-3172/5894, 10-43=-86/217, 43-44=-86/217, 44-45=-86/217, 45-46=-86/217, 9-46=-86/217
WEBS 3-15=-285/250, 4-15=-189/957, 4-13=-1829/3166, 5-13=-724/874, 5-12=-90/74, 6-12=-733/859, 7-12=-1718/3140, 7-10=-2127/1602, 8-10=-3605/6306

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise); 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1881 lb uplift at joint 9 and 1885 lb uplift at joint 2.

Continued on page 2

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NOTES

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 194 lb up at 35-0-12, 116 lb down and 194 lb up at 33-0-12, 116 lb down and 194 lb up at 31-0-12, 116 lb down and 194 lb up at 29-0-12, 116 lb down and 194 lb up at 27-0-12, 116 lb down and 194 lb up at 25-0-12, 116 lb down and 194 lb up at 23-0-12, 116 lb down and 194 lb up at 21-0-12, 116 lb down and 194 lb up at 19-0-12, 116 lb down and 194 lb up at 17-0-12, 116 lb down and 194 lb up at 15-0-12, 116 lb down and 194 lb up at 13-0-12, 116 lb down and 194 lb up at 11-0-12, 116 lb down and 194 lb up at 9-0-12, 116 lb down and 194 lb up at 7-0-0, 194 lb up at 0-11-4, 194 lb up at 2-11-4, 194 lb up at 4-11-4, 194 lb up at 7-0-0, 194 lb up at 8-11-4, 194 lb up at 10-11-4, 194 lb up at 12-11-4, 194 lb up at 14-11-4, 194 lb up at 16-11-4, 194 lb up at 18-11-4, 194 lb up at 20-11-4, 194 lb up at 22-11-4, 194 lb up at 24-11-4, and 194 lb up at 26-11-4, and 194 lb up at 28-11-4 on top chord, and 92 lb down at 35-0-12, 92 lb down at 33-0-12, 92 lb down at 31-0-12, 92 lb down at 29-0-12, 92 lb down at 27-0-12, 92 lb down at 25-0-12, 92 lb down at 23-0-12, 92 lb down at 21-0-12, 92 lb down at 19-0-12, 92 lb down at 17-0-12, 92 lb down at 15-0-12, 92 lb down at 13-0-12, 92 lb down at 11-0-12, 92 lb down at 9-0-12, and 644 lb down and 345 lb up at 7-0-12, and 345 lb up at 29-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

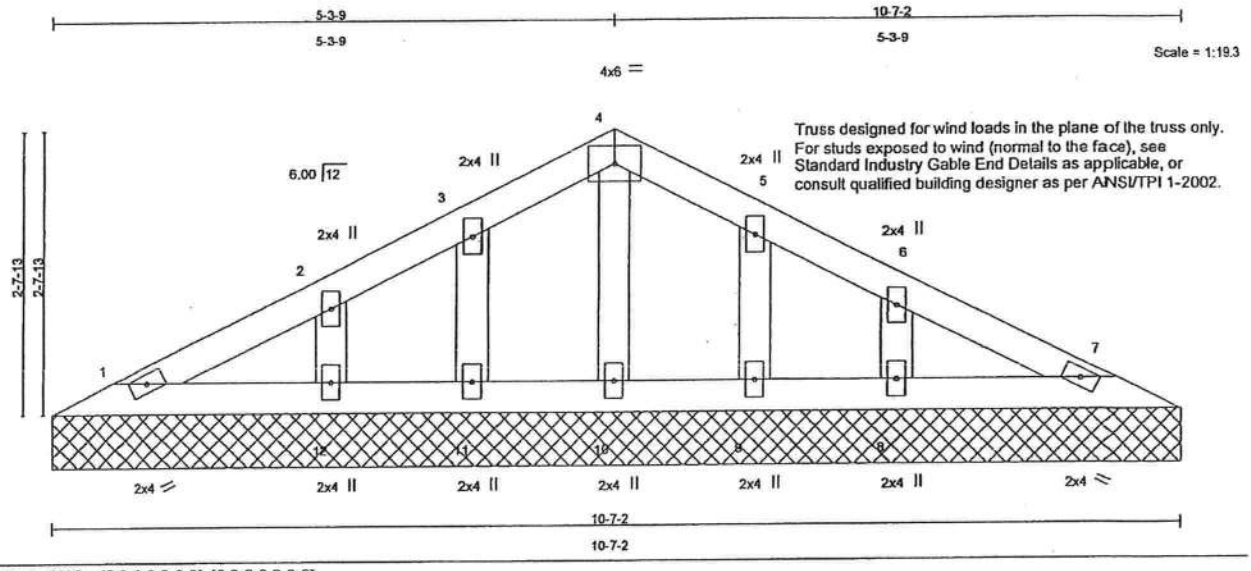
Vert: 1-4=-46, 4-8=-46, 2-9=-40

Concentrated Loads (lb)

Vert: 4=-116(B) 15=-644(B) 19=-116(B) 20=-116(B) 21=-116(B) 22=-116(B) 23=-116(B) 24=-116(B) 25=-116(B) 26=-116(B) 27=-116(B) 28=-116(B) 29=-116(B) 30=-116(B) 31=-116(B) 32=-116(B) 33=-92(B) 34=-92(B) 35=-92(B) 36=-92(B) 37=-92(B) 38=-92(B) 39=-92(B) 40=-92(B) 41=-92(B) 42=-92(B) 43=-92(B) 44=-92(B) 45=-92(B) 46=-92(B)

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530694
AUSTIN	RG1	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:13 2007 Page 1



Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.

Plate Offsets (X,Y): [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 41 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=74/10-7-2, 7=74/10-7-2, 10=119/10-7-2, 11=91/10-7-2, 12=178/10-7-2, 9=91/10-7-2, 8=178/10-7-2
Max Horz 1=-44(LC 4)
Max Uplift1=-23(LC 7), 7=-21(LC 7), 11=-56(LC 6), 12=-112(LC 6), 9=-55(LC 7), 8=-113(LC 7)
Max Grav 1=74(LC 1), 7=74(LC 1), 10=119(LC 1), 11=94(LC 10), 12=178(LC 1), 9=94(LC 11), 8=178(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-42/27, 2-3=-25/65, 3-4=-20/112, 4-5=-20/112, 5-6=-25/65, 6-7=-24/19
BOT CHORD 1-12=0/51, 11-12=0/51, 10-11=0/51, 9-10=0/51, 8-9=0/51, 7-8=0/51
WEBS 4-10=-59/7, 3-11=-53/94, 2-12=-92/161, 5-9=-53/94, 6-8=-92/161

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Gable requires continuous bottom chord bearing.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 21 lb uplift at joint 7, 56 lb uplift at joint 11, 112 lb uplift at joint 12, 55 lb uplift at joint 9 and 113 lb uplift at joint 8.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530696
AUSTIN	S1A	SPECIAL	7	1	Job Reference (optional)	

7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:14 2007 Page 1

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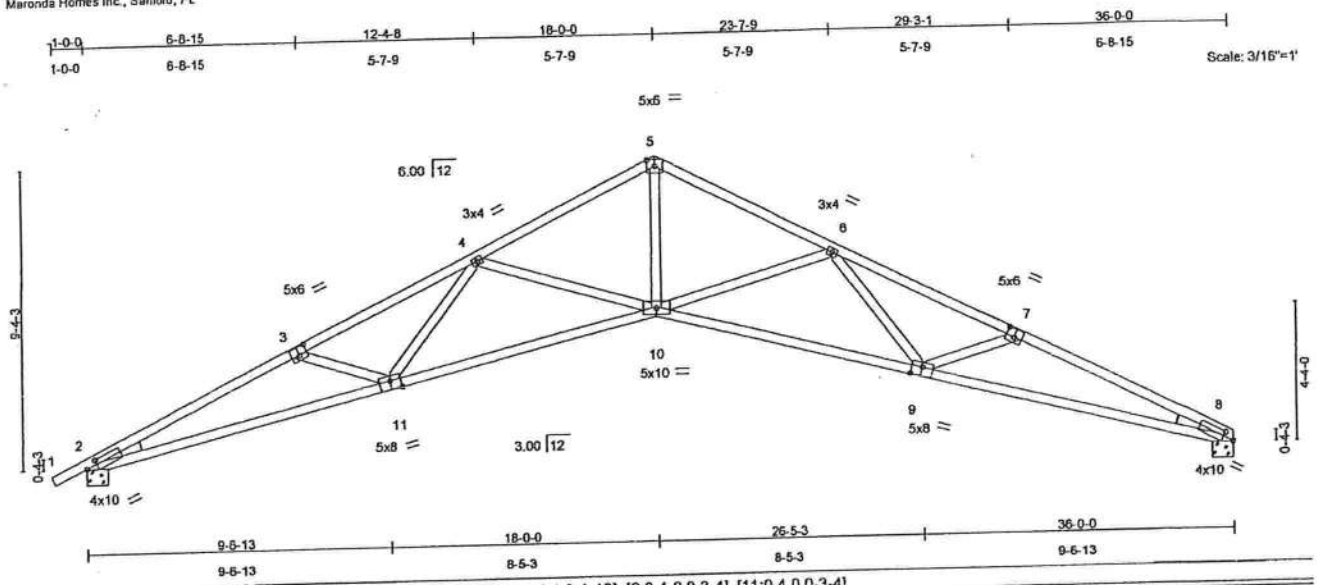

Plate Offsets (X,Y): [2:0-4-1,0-1-12], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [8:0-4-1,0-1-12], [9:0-4-0,0-3-4], [11:0-4-0,0-3-4]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.74	Vert(LL) -0.53 10-11 >797 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.82	Vert(TL) -1.07 10-11 >395 180	
BCLL 10.0	Rep Stress Incr YES	WB 0.49	Horz(TL) -0.73 2 n/a n/a	Weight: 168 lb
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)		

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
1-3 2 X 4 SYP No.1D, 7-8 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.2
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-1 oc bracing.

REACTIONS (lb/size) 8=1518/0-8-0, 2=1585/0-8-0
Max Horz 8=166(LC 6)
Max Uplift8=-286(LC 7), 2=-368(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/18, 2-3=-4813/1409, 3-4=-4589/1239, 4-5=-3320/885, 5-6=-3320/885, 6-7=-4602/1269, 7-8=-4831/1449
BOT CHORD 2-11=-1145/4368, 10-11=-811/3809, 9-10=-822/3814, 8-9=-1186/4387
WEBS 3-11=-176/290, 4-11=-93/711, 4-10=-807/417, 5-10=-563/2647, 6-10=-812/428, 6-9=-118/722, 7-9=-183/306

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Bearing at joint(s) 8, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 8 and 368 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530697
AUSTIN	S1B	SPECIAL	5	1	Job Reference (optional)	

7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:15 2007 Page 1

Maronda Homes Inc., Sanford, FL

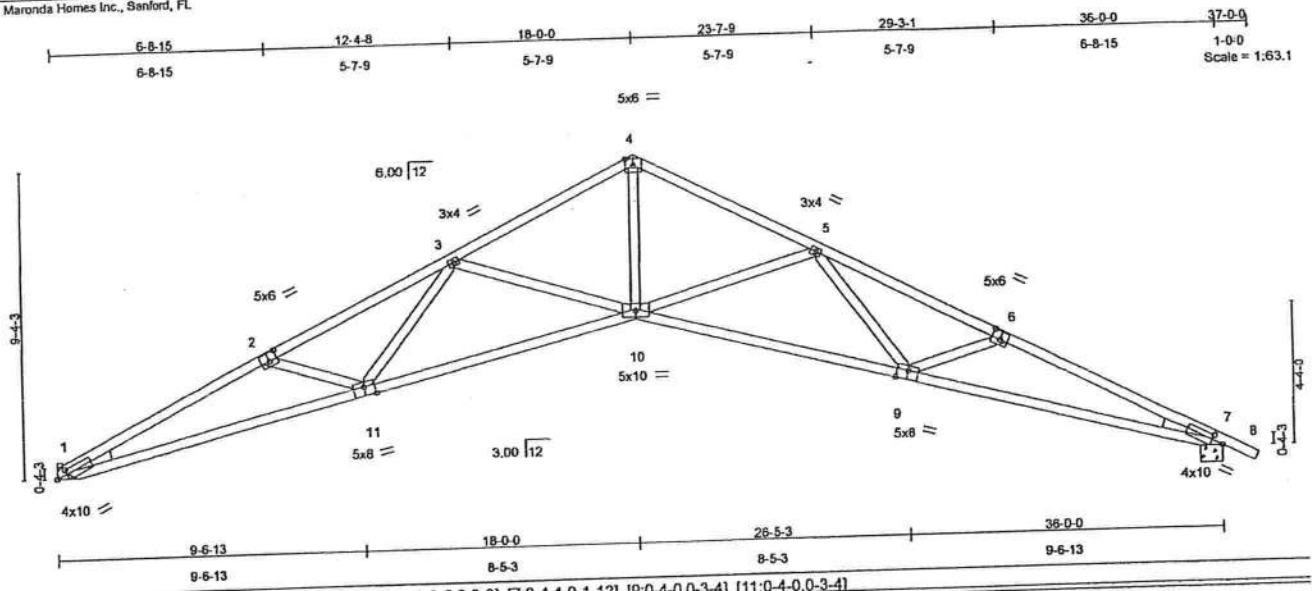

Plate Offsets (X,Y): [1:0-4-1,0-1-12], [2:0-3-0,0-3-0], [6:0-3-0,0-3-0], [7:0-4-1,0-1-12], [9:0-4-0,0-3-4], [11:0-4-0,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.74	Vert(LL)	-0.53	9-10	>797	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.82	Vert(TL)	-1.07	9-10	>395	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(TL)	0.73	7	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 168 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
1-2 2 X 4 SYP No.1D, 6-8 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.2
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-1 oc bracing.

REACTIONS (lb/size) 1=1518/Mechanical, 7=1585/0-8-0
Max Horz 1=-166(LC 7)
Max Uplift1=-286(LC 6), 7=-368(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4831/1449, 2-3=-4602/1269, 3-4=-3320/885, 4-5=-3320/885, 5-6=-4589/1239, 6-7=-4813/1409, 7-8=0/18
BOT CHORD 1-11=-1186/4387, 10-11=-822/3814, 9-10=-811/3809, 7-9=-1145/4368
WEBS 2-11=-183/306, 3-11=-118/722, 3-10=-812/428, 4-10=-563/2647, 5-10=-807/417, 5-9=-93/711, 6-9=-176/290

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 1 and 368 lb uplift at joint 7.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530700
AUSTIN	T2	COMMON	4	1	Job Reference (optional)	

7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:17 2007 Page 1

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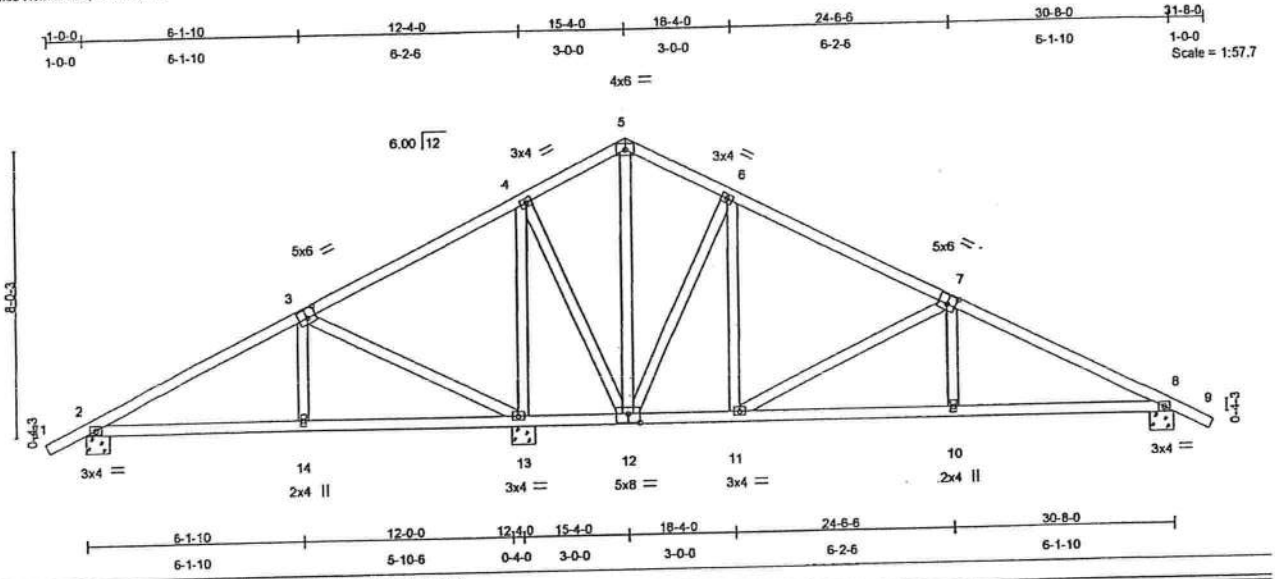

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [12:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.28	Vert(LL)	0.08	2-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.10	10-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(TL)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 177 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 12-13.

REACTIONS (lb/size) 2=364/0-8-0, 13=1651/0-8-0, 8=694/0-8-0
Max Horz 2=141(LC 6)
Max Uplift2=-302(LC 6), 13=-556(LC 6), 8=-212(LC 7)
Max Grav2=408(LC 10), 13=1651(LC 1), 8=708(LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-3=-345/382, 3-4=-178/495, 4-5=-24/101, 5-6=-35/96, 6-7=-370/102, 7-8=-979/172, 8-9=0/21
BOT CHORD 2-14=-228/257, 13-14=-224/250, 12-13=-390/422, 11-12=0/271, 10-11=-48/808, 8-10=-46/815
WEBS 3-14=-318/269, 3-13=-628/701, 4-13=-1143/476, 4-12=-194/808, 5-12=-99/28, 6-12=-649/296, 6-11=-69/487, 7-11=-605/258, 7-10=0/272

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 2, 556 lb uplift at joint 13 and 212 lb uplift at joint 8.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530701
AUSTIN	V1	VALLEY	2	1	Job Reference (optional)	

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7.010 s Oct 16 2007 MiTek Industries, Inc. Wed Nov 21 10:00:13 2007 Page 1

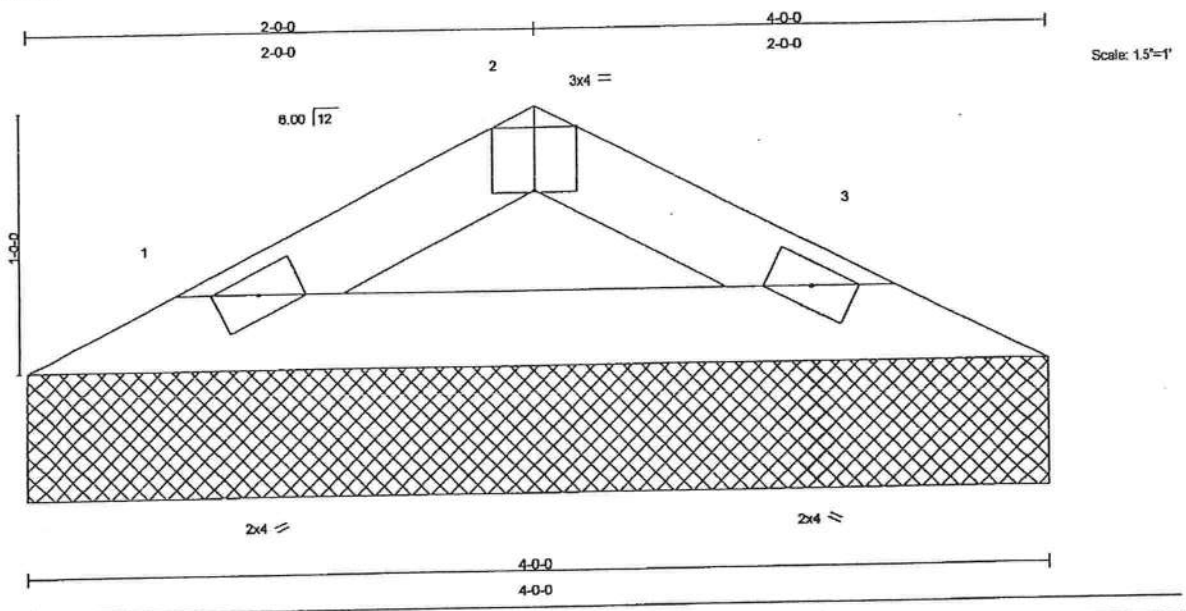

Plate Offsets (X,Y): [2:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 11 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=119/4-0-0, 3=119/4-0-0
Max Horz 1=-11(LC 4)
Max Uplift 1=-22(LC 6), 3=-22(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-82/69, 2-3=-82/69
BOT CHORD 1-3=-42/64

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Gable requires continuous bottom chord bearing.
5) WARNING: Top chord roof live load is below minimum required by ASCE 7. The building design professional for the overall structure to verify adequacy of top chord live load.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 22 lb uplift at joint 3.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530702
AUSTIN	V10	GABLE	1	1	Job Reference (optional)	

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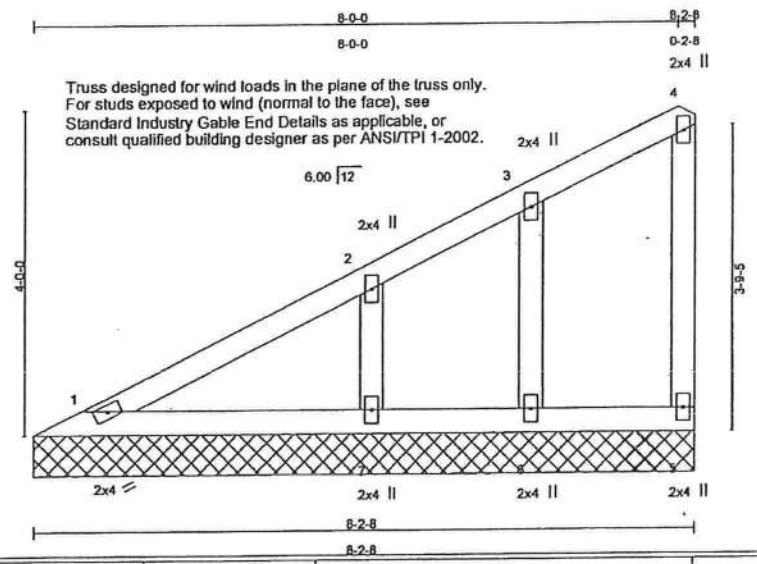
7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:18 2007 Page 1



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.11	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.09	Vert(TL) n/a - n/a 999	
BCLL 10.0	Rep Stress Incr YES	WB 0.03	Horz(TL) 0.00 n/a n/a	
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)		Weight: 36 lb

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=126/8-2-8, 5=72/8-2-8, 6=129/8-2-8, 7=312/8-2-8
Max Horz 1=154(LC 6)
Max Uplift5=-26(LC 6), 6=-48(LC 6), 7=-114(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-170/44, 2-3=-71/10, 3-4=-27/13, 4-5=-39/45
BOT CHORD 1-7=0/0, 6-7=0/0, 5-6=0/0
WEBS 3-6=-70/81, 2-7=-167/195

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Gable requires continuous bottom chord bearing.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5, 48 lb uplift at joint 6 and 114 lb uplift at joint 7.

LOAD CASE(S) Standard

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818 Soundside Road
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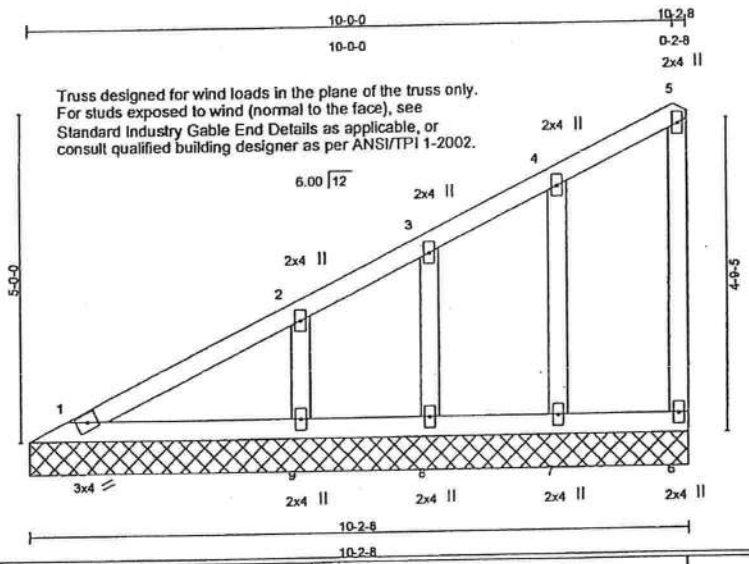
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530703
AUSTIN	V11	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:18 2007 Page 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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 49 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=127/10-2-8, 6=66/10-2-8, 7=191/10-2-8, 8=114/10-2-8, 9=315/10-2-8
Max Horz 1=196(LC 6)
Max Uplift6=-26(LC 6), 7=-66(LC 6), 8=-43(LC 6), 9=-114(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-214/40, 2-3=-126/8, 3-4=-82/21, 4-5=-24/14, 5-6=-35/41
BOT CHORD 1-9=-2/2, 8-9=-2/2, 7-8=-2/2, 6-7=-2/2
WEBS 4-7=-101/113, 3-8=-64/82, 2-9=-164/168

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Gable requires continuous bottom chord bearing.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 6, 66 lb uplift at joint 7, 43 lb uplift at joint 8 and 114 lb uplift at joint 9.

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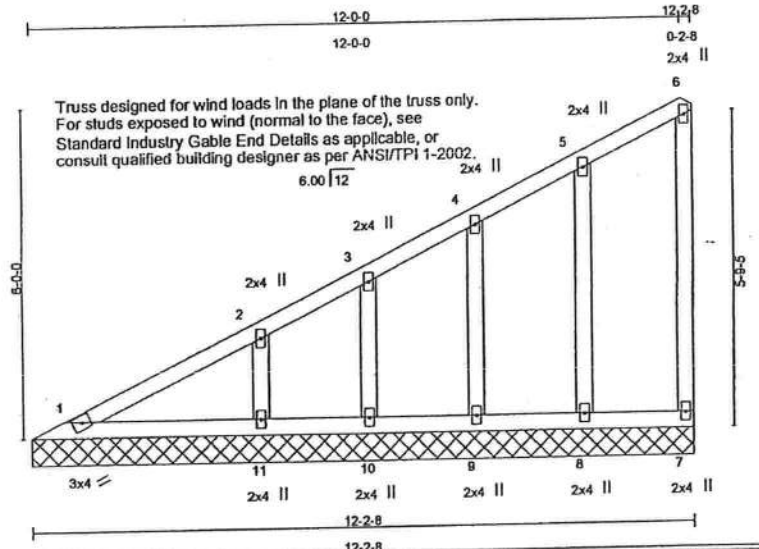
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530704
AUSTIN	V12	GABLE	1	1	Job Reference (optional)	

7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:18 2007 Page 1

Maronda Homes Inc., Sanford, FL



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 64 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=127/12-2-8, 7=69/12-2-8, 8=173/12-2-8, 9=186/12-2-8, 10=114/12-2-8, 11=315/12-2-8
Max Horz 1=237(LC 6)
Max Uplift7=-28(LC 6), 8=-60(LC 6), 9=-69(LC 6), 10=-42(LC 6), 11=-115(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-265/41, 2-3=-178/8, 3-4=-135/21, 4-5=-78/18, 5-6=-24/15, 6-7=-37/42
BOT CHORD 1-11=-2/2, 10-11=-2/2, 9-10=-2/2, 8-9=-2/2, 7-8=-2/2
WEBS 5-8=-93/104, 4-9=-99/109, 3-10=-64/80, 2-11=-164/165

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Gable requires continuous bottom chord bearing.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 7, 60 lb uplift at joint 8, 69 lb uplift at joint 9, 42 lb uplift at joint 10 and 115 lb uplift at joint 11.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530705
AUSTIN	V13	GABLE	1	1	Job Reference (optional)	

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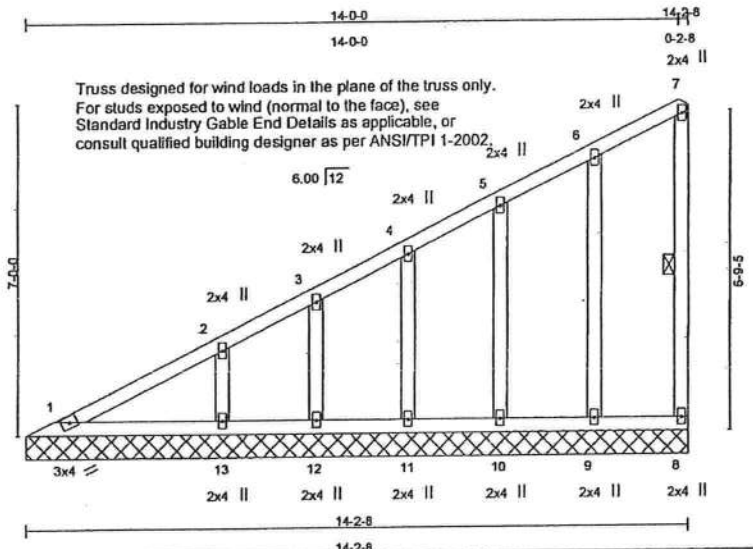

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 80 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-8

REACTIONS (lb/size) 1=127/14-2-8, 8=68/14-2-8, 9=178/14-2-8, 10=168/14-2-8, 11=187/14-2-8, 12=114/14-2-8, 13=315/14-2-8
Max Horz 1=279(LC 6)
Max Uplift8=-28(LC 6), 9=-61(LC 6), 10=-63(LC 6), 11=-67(LC 6), 12=-42(LC 6), 13=-115(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-315/41, 2-3=-229/9, 3-4=-186/22, 4-5=-131/19, 5-6=-78/19, 6-7=-24/15, 7-8=-36/41
BOT CHORD 1-13=-1/1, 12-13=-1/1, 11-12=-1/1, 10-11=-1/1, 9-10=-1/1, 8-9=-1/1
WEBS 6-9=-94/104, 5-10=-91/101, 4-11=-99/107, 3-12=-64/79, 2-13=-164/163

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Gable requires continuous bottom chord bearing.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 8, 61 lb uplift at joint 9, 63 lb uplift at joint 10, 67 lb uplift at joint 11, 42 lb uplift at joint 12 and 115 lb uplift at joint 13.

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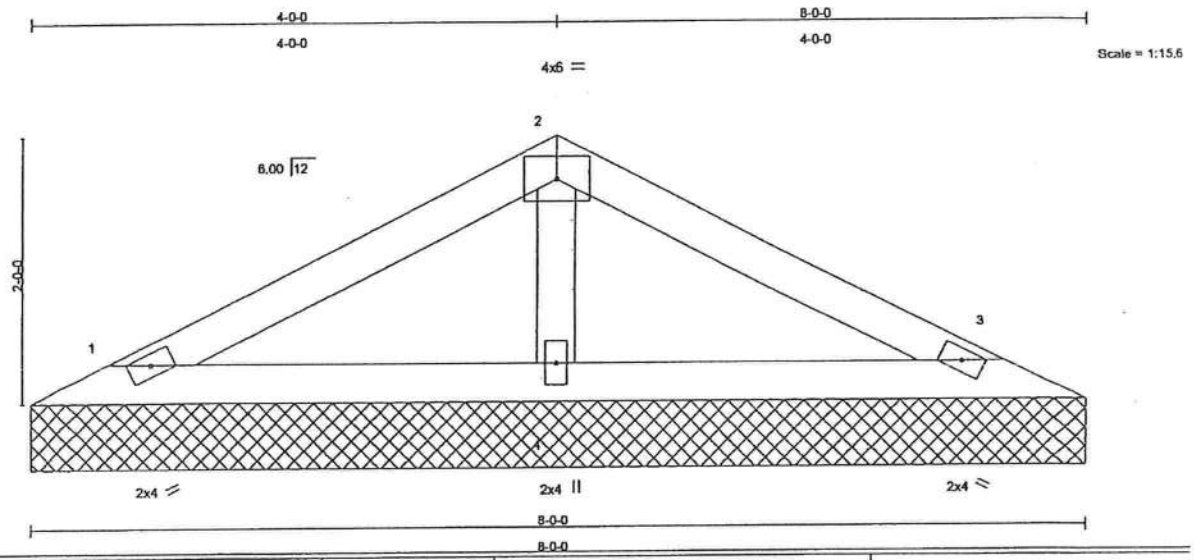
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530707
AUSTIN	V15	VALLEY	2	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:20 2007 Page 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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 25 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=136/8-0-0, 3=136/8-0-0, 4=310/8-0-0
Max Horz 1=-28(LC 4)
Max Uplift1=-44(LC 6), 3=-49(LC 7), 4=-21(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-44/39, 2-3=-44/38
BOT CHORD 1-4=-2/18, 3-4=-2/18
WEBS 2-4=-141/111

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Gable requires continuous bottom chord bearing.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 1, 49 lb uplift at joint 3 and 21 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530708
AUSTIN	V16	GABLE	1	1	Job Reference (optional)	

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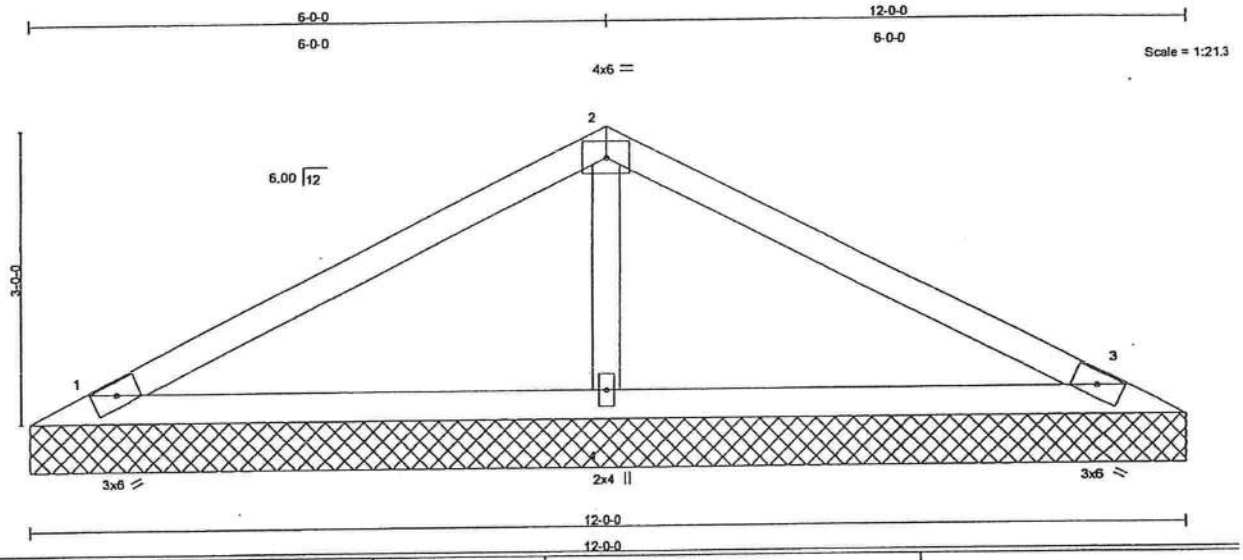
7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:20 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 39 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=191/12-0-0, 3=191/12-0-0, 4=544/12-0-0
Max Horz 1=-45(LC 4)
Max Uplift 1=-49(LC 6), 3=-57(LC 7), 4=-77(LC 6)
Max Grav 1=196(LC 10), 3=196(LC 11), 4=544(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-70/62, 2-3=-70/60
BOT CHORD 1-4=-3/34, 3-4=-3/34
WEBS 2-4=-268/190

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Gable requires continuous bottom chord bearing.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 57 lb uplift at joint 3 and 77 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530709
AUSTIN	V17	GABLE	1	1	Job Reference (optional)	

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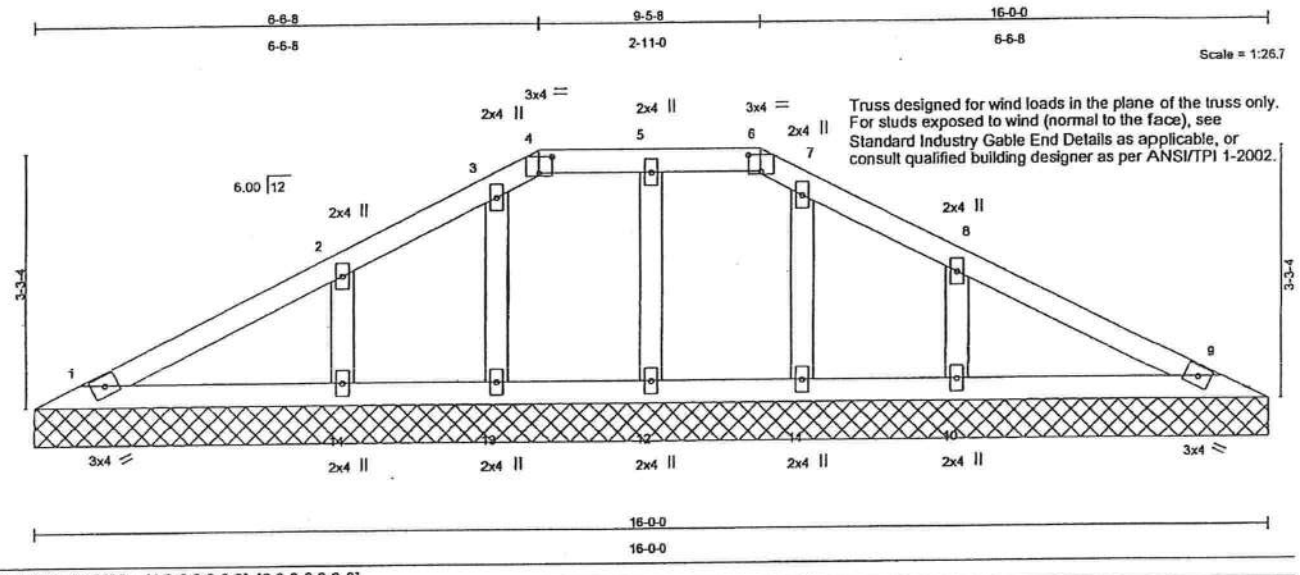

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 64 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=126/16-0-0, 9=126/16-0-0, 12=192/16-0-0, 13=114/16-0-0, 14=298/16-0-0, 11=114/16-0-0, 10=298/16-0-0
Max Horz 1=-49(LC 4)
Max Uplift1=-15(LC 7), 9=-19(LC 7), 12=-33(LC 5), 13=-13(LC 5), 14=-112(LC 6), 11=-6(LC 4), 10=-113(LC 7)
Max Grav1=126(LC 1), 9=126(LC 1), 12=192(LC 1), 13=115(LC 10), 14=298(LC 1), 11=115(LC 11), 10=298(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-42/38, 2-3=-47/79, 3-4=-33/100, 4-5=-15/97, 5-6=-15/97, 6-7=-33/100, 7-8=-47/79, 8-9=-39/24
BOT CHORD 1-14=0/49, 13-14=0/49, 12-13=0/49, 11-12=0/49, 10-11=0/49, 9-10=0/49
WEBS 5-12=-99/64, 3-13=-62/41, 2-14=-156/157, 7-11=-62/41, 8-10=-156/157

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 19 lb uplift at joint 9, 33 lb uplift at joint 12, 13 lb uplift at joint 13, 112 lb uplift at joint 14, 6 lb uplift at joint 11 and 113 lb uplift at joint 10.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125 E4530710
AUSTIN	V18	GABLE	1	1	Job Reference (optional)

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:22 2007 Page 1

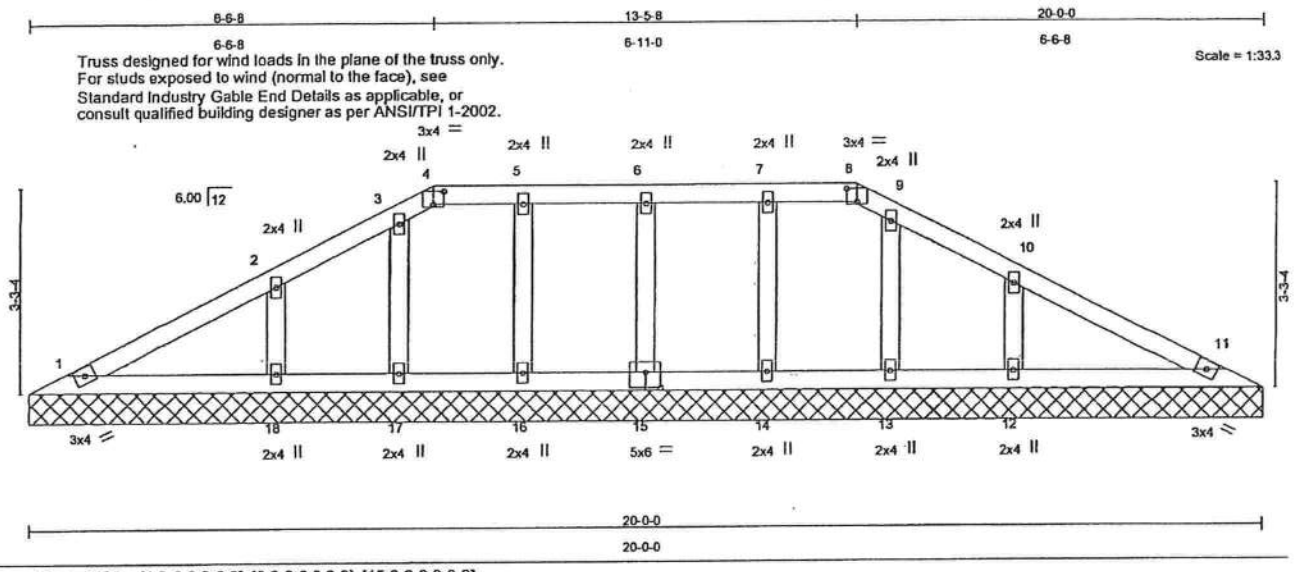

Plate Offsets (X,Y): [4:0-2-0,0-2-8], [8:0-2-0,0-2-8], [15:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 83 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=125/20-0-0, 11=125/20-0-0, 15=167/20-0-0, 16=183/20-0-0, 17=117/20-0-0, 18=298/20-0-0, 14=183/20-0-0, 13=117/20-0-0, 12=298/20-0-0
Max Horz 1=49(LC 5)
Max Uplift 1=-14(LC 7), 11=-17(LC 7), 15=-46(LC 4), 16=-39(LC 5), 17=-13(LC 5), 18=-113(LC 6), 14=-37(LC 5), 13=-5(LC 4), 12=-113(LC 7)
Max Grav 1=125(LC 1), 11=125(LC 1), 15=168(LC 10), 16=183(LC 1), 17=118(LC 10), 18=298(LC 1), 14=183(LC 1), 13=118(LC 11), 12=298(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-46/35, 2-3=-44/72, 3-4=-32/93, 4-5=-13/90, 5-6=-13/90, 6-7=-13/90, 7-8=-13/90, 8-9=-32/93, 9-10=-44/72, 10-11=-37/27
BOT CHORD 1-18=0/52, 17-18=0/52, 16-17=0/52, 15-16=0/52, 14-15=0/52, 13-14=0/52, 12-13=0/52, 11-12=0/52
WEBS 6-15=-91/91, 5-16=-96/75, 3-17=-63/41, 2-18=-156/156, 7-14=-96/75, 9-13=-63/41, 10-12=-156/156

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 17 lb uplift at joint 11, 46 lb uplift at joint 15, 39 lb uplift at joint 16, 13 lb uplift at joint 17, 113 lb uplift at joint 18, 37 lb uplift at joint 14, 5 lb uplift at joint 13 and 113 lb uplift at joint 12.

LOAD CASE(S) Standard

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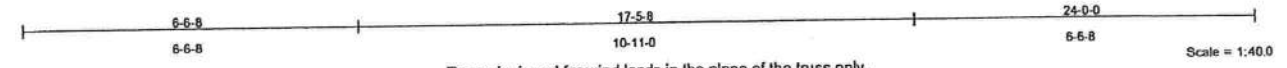
November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530711
AUSTIN	V19	GABLE	1	1	Job Reference (optional)	

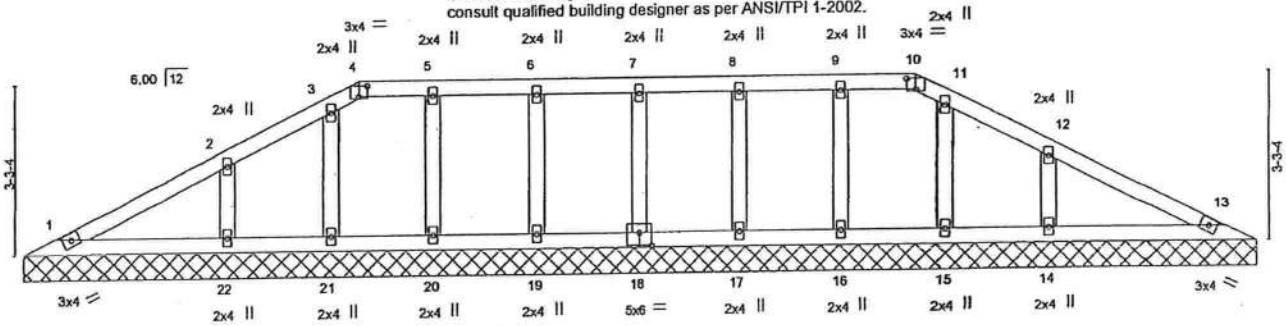
Maronda Homes Inc., Sanford, FL

7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:22 2007 Page 1



Scale = 1:40.0

Truss designed for wind loads in the plane of the truss only.
For studs exposed to wind (normal to the face), see
Standard Industry Gable End Details as applicable, or
consult qualified building designer as per ANSI/TPI 1-2002.



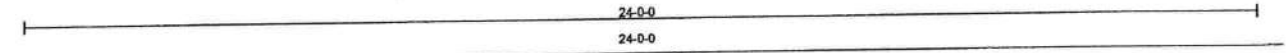


Plate Offsets (X,Y): [4:0-2-0,0-2-8], [10:0-2-0,0-2-8], [18:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	13	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 103 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=124/24-0-0, 13=124/24-0-0, 18=173/24-0-0, 19=169/24-0-0, 20=183/24-0-0, 21=118/24-0-0, 22=298/24-0-0,
17=169/24-0-0, 16=183/24-0-0, 15=118/24-0-0, 14=298/24-0-0
Max Horz 1=-49(LC 4)
Max Uplift 1=-13(LC 7), 13=-16(LC 7), 18=-42(LC 5), 19=-44(LC 4), 20=-39(LC 5), 21=-13(LC 5), 22=-113(LC 6),
17=-44(LC 4), 16=-37(LC 5), 15=-5(LC 4), 14=-113(LC 7)
Max Grav 1=124(LC 1), 13=124(LC 1), 18=173(LC 1), 19=170(LC 11), 20=183(LC 10), 21=119(LC 10), 22=298(LC 1),
17=170(LC 10), 16=183(LC 11), 15=119(LC 11), 14=298(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-48/34, 2-3=-42/69, 3-4=-30/90, 4-5=-11/87, 5-6=-11/87, 6-7=-11/87, 7-8=-11/87, 8-9=-11/87, 9-10=-11/87,
10-11=-30/90, 11-12=-42/69, 12-13=-35/29
BOT CHORD 1-22=0/53, 21-22=0/53, 20-21=0/53, 19-20=0/53, 18-19=0/53, 17-18=0/53, 16-17=0/53, 15-16=0/53, 14-15=0/53,
13-14=0/53
WEBS 7-18=-92/85, 6-19=-92/89, 5-20=-96/76, 3-21=-64/42, 2-22=-155/156, 8-17=-92/89, 9-16=-96/76, 11-15=-64/42,
12-14=-155/156

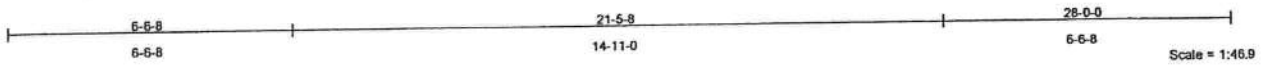
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 16 lb uplift at joint 13, 42 lb uplift at joint 18, 44 lb uplift at joint 19, 39 lb uplift at joint 20, 13 lb uplift at joint 21, 113 lb uplift at joint 22, 44 lb uplift at joint 17, 37 lb uplift at joint 16, 5 lb uplift at joint 15 and 113 lb uplift at joint 14.

LOAD CASE(S) Standard

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

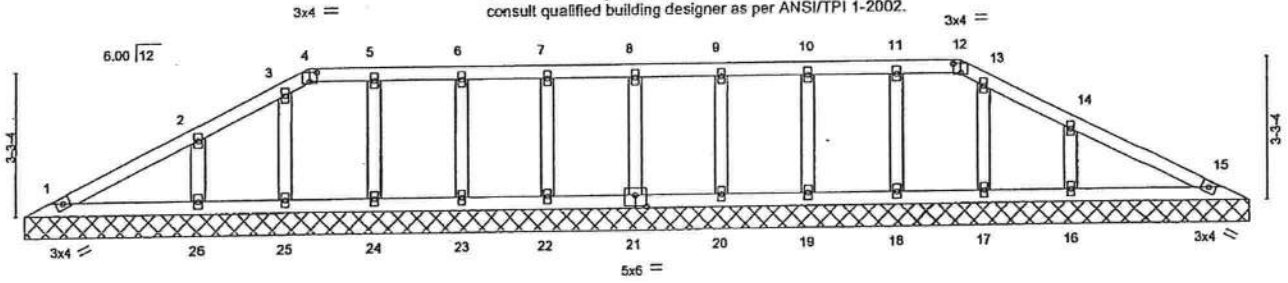
Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530713
AUSTIN	V20	GABLE	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:24 2007 Page 1



Scale = 1:46.9

Truss designed for wind loads in the plane of the truss only.
For studs exposed to wind (normal to the face), see
Standard Industry Gable End Details as applicable, or
consult qualified building designer as per ANSI/TPI 1-2002.



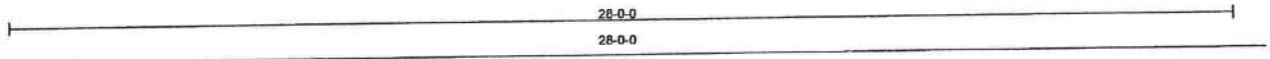


Plate Offsets (X,Y): [4:0-2-0,0-2-8], [12:0-2-0,0-2-8], [21:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plates Increase	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	15	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 123 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=123/28-0-0, 15=123/28-0-0, 21=172/28-0-0, 22=173/28-0-0, 23=169/28-0-0, 24=183/28-0-0, 25=119/28-0-0, 26=298/28-0-0, 20=173/28-0-0, 19=169/28-0-0, 18=183/28-0-0, 17=119/28-0-0, 16=298/28-0-0
Max Horz 1=-49(LC 4)
Max Uplift 1=-12(LC 7), 15=-16(LC 7), 21=-42(LC 4), 22=-42(LC 5), 23=-44(LC 4), 24=-40(LC 5), 25=-14(LC 5), 26=-112(LC 6), 20=-42(LC 5), 19=-44(LC 4), 18=-38(LC 5), 17=-6(LC 4), 16=-113(LC 7)
Max Grav 1=123(LC 1), 15=123(LC 1), 21=172(LC 11), 22=173(LC 1), 23=170(LC 11), 24=183(LC 10), 25=119(LC 10), 26=298(LC 1), 20=173(LC 1), 19=170(LC 10), 18=183(LC 11), 17=119(LC 11), 16=298(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-50/33, 2-3=-40/66, 3-4=-28/88, 4-5=-10/85, 5-6=-10/85, 6-7=-10/85, 7-8=-10/85, 8-9=-10/85, 9-10=-10/85, 10-11=-10/85, 11-12=-10/85, 12-13=-28/88, 13-14=-40/66, 14-15=-33/30
BOT CHORD 1-26=0/54, 25-26=0/54, 24-25=0/54, 23-24=0/54, 22-23=0/54, 21-22=0/54, 20-21=0/54, 19-20=0/54, 18-19=0/54, 17-18=0/54, 16-17=0/54, 15-16=0/54
WEBS 8-21=-92/86, 7-22=-92/86, 6-23=-92/88, 5-24=-97/77, 3-25=-64/43, 2-26=-155/156, 9-20=-92/86, 10-19=-92/88, 11-18=-97/77, 13-17=-64/43, 14-16=-155/156

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
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) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 16 lb uplift at joint 15, 42 lb uplift at joint 21, 42 lb uplift at joint 22, 44 lb uplift at joint 23, 40 lb uplift at joint 24, 14 lb uplift at joint 25, 112 lb uplift at joint 26, 42 lb uplift at joint 20, 44 lb uplift at joint 19, 38 lb uplift at joint 18, 6 lb uplift at joint 17 and 113 lb uplift at joint 16.

LOAD CASE(S) Standard

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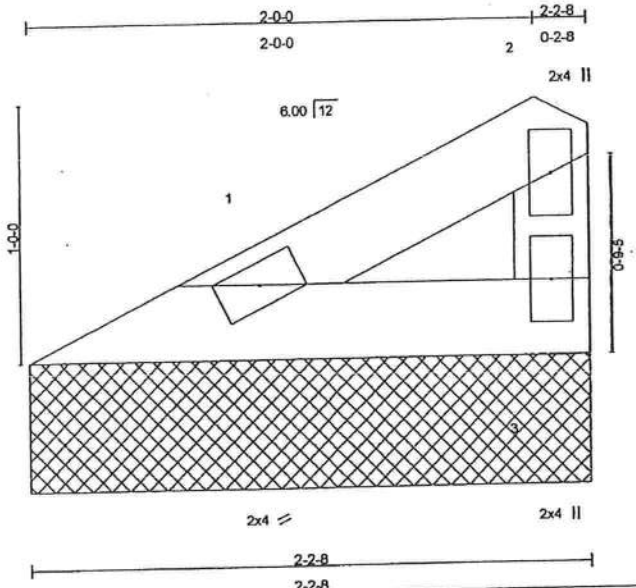
November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530718
AUSTIN	V7	VALLEY	1	1	Job Reference (optional)	

7.010 s Oct 15 2007 MiTek Industries, Inc. Wed Nov 21 10:01:45 2007 Page 1

Maronda Homes Inc., Sanford, FL



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.01	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.01	Vert(TL) n/a - n/a 999	
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 n/a n/a	Weight: 7 lb
BCDL 10.0	Code FBC2004/TPI2002	(Matrix)		

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=48/2-2-8, 3=48/2-2-8
Max Horz 1=30(LC 6)
Max Uplift 1=-2(LC 6), 3=-21(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-24/11, 2-3=-26/36
BOT CHORD 1-3=0/0

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Gable requires continuous bottom chord bearing.
4) WARNING: Top chord roof live load is below minimum required by ASCE 7. The building design professional for the overall structure to verify adequacy of top chord live load.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 21 lb uplift at joint 3.

LOAD CASE(S) Standard

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November 21,2007

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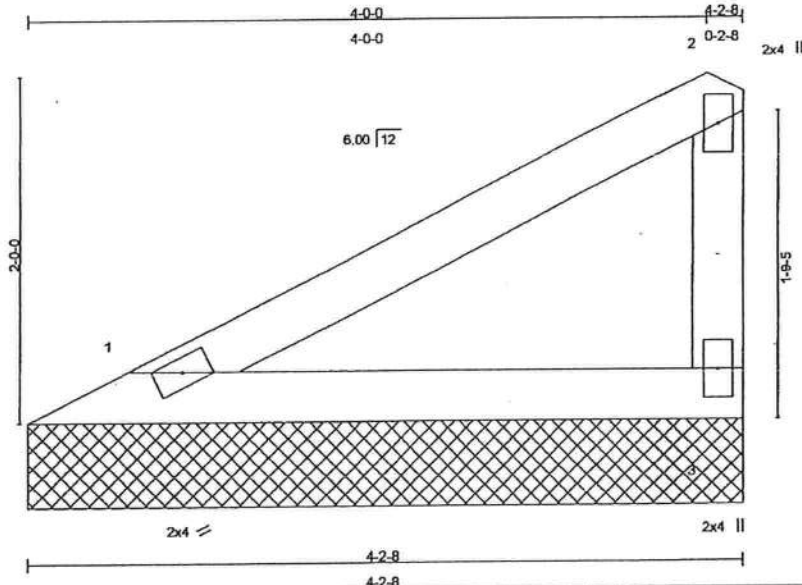
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530719
AUSTIN	V8	VALLEY	1	1	Job Reference (optional)	

Meronda Homes Inc., Sanford, FL

7.010 s Oct 16 2007 MiTek Industries, Inc. Wed Nov 21 10:02:01 2007 Page 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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 14 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=148/4-2-8, 3=148/4-2-8
Max Horz 1=71(LC 6)
Max Uplift 1=-18(LC 6), 3=-54(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-55/28, 2-3=-79/96
BOT CHORD 1-3=0/0

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Gable requires continuous bottom chord bearing.
4) WARNING: Top chord roof live load is below minimum required by ASCE 7. The building design professional for the overall structure to verify adequacy of top chord live load.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 54 lb uplift at joint 3.

LOAD CASE(S) Standard

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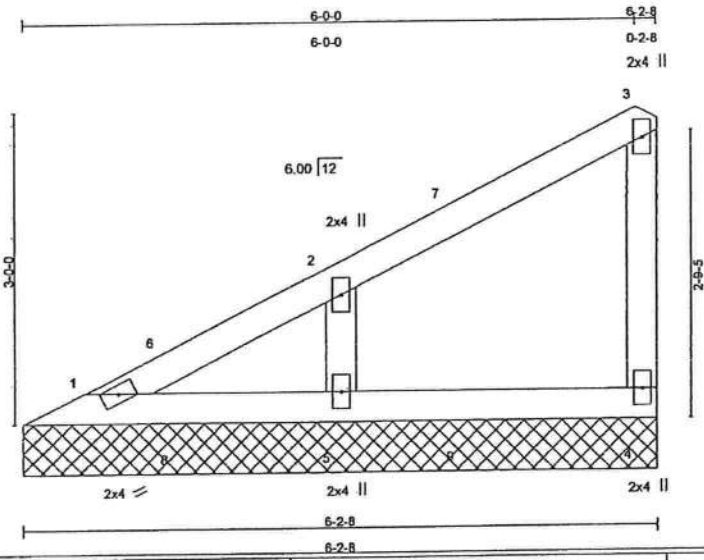
November 21,2007

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	AUSTIN_FL_125	E4530720
AUSTIN	V9	VALLEY	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL — 7.020 s Nov 9 2007 MiTek Industries, Inc. Wed Nov 21 08:44:26 2007 Page 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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 24 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=44/6-2-8, 4=118/6-2-8, 5=317/6-2-8
Max Horz 1=113(LC 6)
Max Uplift4=-70(LC 8), 5=-167(LC 8)
Max Grav1=88(LC 6), 4=118(LC 1), 5=317(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-135/0, 2-6=-125/34, 2-7=-43/15, 3-7=-44/20, 3-4=-59/84
BOT CHORD 1-8=0/0, 5-8=0/0, 5-9=0/0, 4-9=0/0
WEBS 2-5=-173/208

NOTES
1) Wind: ASCE 7-02; 125mph (3-second gust); h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Gable requires continuous bottom chord bearing.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 4 and 167 lb uplift at joint 5.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 9 lb down and 57 lb up at 4-4-0, 9 lb down and 57 lb up at 4-4-0, and 47 lb down at 1-6-1, and 47 lb down at 1-6-1 on top chord, and 21 lb up at 1-6-1, 21 lb up at 1-6-1, and 17 lb down at 4-4-0, and 17 lb down at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-46, 1-4=-40
Concentrated Loads (lb)
Vert: 7=-19(F=-9, B=-9) 8=41(F=21, B=21) 9=-33(F=-17, B=-17)

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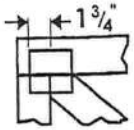
November 21,2007

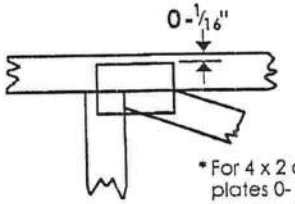
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



*For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

*This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

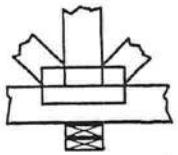
4 X 4

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

LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

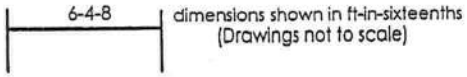


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

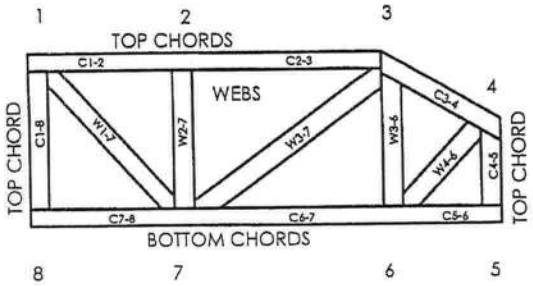
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B
9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

MiTek®
POWER TO PERFORM.™
ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-7473

⚠ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

FORM 600A-2004R

EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

9/1 TM

Project Name:	AUSTIN 4 BDR GAINESVILLE	Builder:	MARONDA HOMES
Address:	299 SW Timber Ridge Dr.	Permitting Office:	Columbia
City, State:	Lake City, FL 32025	Permit Number:	
Owner:	ELECTRIC	Jurisdiction Number:	
Climate Zone:	North		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	4	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	2236 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a (Sngle Default) 177.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 177.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 219.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Concrete, Int Insul, Exterior	R=4.1, 1199.0 ft²	
b.	Frame, Steel, Adjacent	R=13.0, 320.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=19.0, 2450.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Con. AH(Sealed):Interior	Sup. R=6.0, 200.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 40.5 kBtu/hr	
		SEER: 13.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 40.5 kBtu/hr	
		HSPF: 8.10	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 gallons	
		EF: 0.90	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,	

Glass/Floor Area: 0.08

Total as-built points: 28950

Total base points: 30537

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: Wayne Campbell 05/27/08

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: Melissa McCague

DATE: Melissa McCague 05/27/08

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA * IN GOD WE TRUST *

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	2236.0	18.59	7482.0	1.Single, Clear	W	1.0	6.0	16.0	43.84	0.97	680.0
				2.Single, Clear	N	1.0	6.0	16.0	21.73	0.97	338.0
				3.Single, Clear	W	1.0	3.0	5.0	43.84	0.85	186.0
				4.Single, Clear	W	1.0	7.0	30.0	43.84	0.98	1294.0
				5.Single, Clear	W	1.0	8.0	40.0	43.84	0.99	1734.0
				6.Single, Clear	E	1.0	6.0	20.0	47.92	0.97	927.0
				7.Single, Clear	E	1.0	6.0	20.0	47.92	0.97	927.0
				8.Single, Clear	E	1.0	6.0	30.0	47.92	0.97	1394.0
				As-Built Total:				**177.0**			**7480.0**

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	320.0	0.70	224.0	1. Concrete, Int Insul, Exterior	4.1	1199.0	1.13	1360.9
Exterior	1199.0	1.70	2038.3	2. Frame, Steel, Adjacent	13.0	320.0	0.90	288.0
Base Total:	**1519.0**		**2262.3**	**As-Built Total:**		**1519.0**		**1648.9**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	18.0	2.40	43.2	1.Adjacent Wood	18.0	2.40	43.2
Exterior	20.0	6.10	122.0	2.Exterior Insulated	20.0	4.10	82.0
Base Total:	**38.0**		**165.2**	**As-Built Total:**	**38.0**		**125.2**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM =	Points
Under Attic	2236.0	1.73	3868.3	1. Under Attic	19.0	2450.0	2.34 X 1.00	5733.0
Base Total:	**2236.0**		**3868.3**	**As-Built Total:**		**2450.0**		**5733.0**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	219.0(p)	-37.0	-8103.0	1. Slab-On-Grade Edge Insulation	0.0	219.0(p	-41.20	-9022.8
Raised	0.0	0.00	0.0					
Base Total:			**-8103.0**	**As-Built Total:**		**219.0**		**-9022.8**

INFILTRATION	Area X	BSPM	= Points	Area X	SPM	= Points
	2236.0	10.21	22829.6	2236.0	10.21	22829.6

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 28504.3			**Summer As-Built Points:**					**28793.8**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 40500btuh ,SEER/EFF(13.0) Ducts:Unc(S),Con(R),Int(AH),R6.0(INS)					
28504.3	**0.3250**	**9263.9**	28794 **28793.8**	1.00 **1.00**	(1.08 x 1.147 x 0.86) **1.072**	0.260 **0.260**	0.950 **0.950**	7623.4 **7623.4**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	2236.0	20.17	8118.0	1.Single, Clear	W	1.0	6.0	16.0	28.84	1.01	465.0
				2.Single, Clear	N	1.0	6.0	16.0	33.22	1.00	531.0
				3.Single, Clear	W	1.0	3.0	5.0	28.84	1.04	150.0
				4.Single, Clear	W	1.0	7.0	30.0	28.84	1.00	869.0
				5.Single, Clear	W	1.0	8.0	40.0	28.84	1.00	1157.0
				6.Single, Clear	E	1.0	6.0	20.0	26.41	1.02	536.0
				7.Single, Clear	E	1.0	6.0	20.0	26.41	1.02	536.0
				8.Single, Clear	E	1.0	6.0	30.0	26.41	1.02	804.0
				As-Built Total:				**177.0**			**5048.0**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	320.0	3.60	1152.0	1. Concrete, Int Insul, Exterior	4.1	1199.0	6.42	7697.6
Exterior	1199.0	3.70	4436.3	2. Frame, Steel, Adjacent	13.0	320.0	4.90	1568.0
Base Total:	**1519.0**		**5588.3**	**As-Built Total:**		**1519.0**		**9265.6**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	18.0	11.50	207.0	1.Adjacent Wood	18.0	11.50	207.0
Exterior	20.0	12.30	246.0	2.Exterior Insulated	20.0	8.40	168.0
Base Total:	**38.0**		**453.0**	**As-Built Total:**	**38.0**		**375.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	2236.0	2.05	4583.8	1. Under Attic	19.0	2450.0	2.70 X 1.00	6615.0
Base Total:	**2236.0**		**4583.8**	**As-Built Total:**		**2450.0**		**6615.0**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	219.0(p)	8.9	1949.1	1. Slab-On-Grade Edge Insulation	0.0	219.0(p	18.80	4117.2
Raised	0.0	0.00	0.0					
Base Total:			**1949.1**	**As-Built Total:**		**219.0**		**4117.2**

INFILTRATION	Area X	BWPM	= Points	Area X	WPM	= Points
	2236.0	-0.59	-1319.2	2236.0	-0.59	-1319.2

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**19373.0**	**Winter As-Built Points:**					**24101.5**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 40500 btuh ,EFF(8.1) Ducts:Unc(S),Con(R),Int(AH),R6.0					
19373.0	**0.5540**	**10732.6**	24101.5 **24101.5**	1.000 **1.00**	(1.060 x 1.169 x 0.88) **1.095**	0.421 **0.421**	0.950 **0.950**	10552.7 **10552.7**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4		2635.00	10540.0	50.0	0.90	4	1.00	2693.56	1.00	10774.2	
				As-Built Total:						**10774.2**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
9264	**10733**	**10540**	**30537**	**7623**	**10553**	**10774**	**28950**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	✓
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	✓
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	✓
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	✓
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	✓
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	✓
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	✓

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	✓
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	✓
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	✓
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	✓
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	✓

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.8

The higher the score, the more efficient the home.

ELECTRIC, , , ,

1.	New construction or existing	New		12. Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 40.5 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	4		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	2236 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description	Area	13. Heating systems	
	(or Single or Double DEFAULT) 7a.	(Sngle Default)	177.0 ft²	a. Electric Heat Pump	Cap: 40.5 kBtu/hr
	b. SHGC:				HSPF: 8.10
	(or Clear or Tint DEFAULT) 7b.	(Clear)	177.0 ft²	b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 219.0(p) ft		c. N/A	
	b. N/A				
	c. N/A			14. Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 50.0 gallons
	a. Concrete, Int Insul, Exterior	R=4.1, 1199.0 ft²			EF: 0.90
	b. Frame, Steel, Adjacent	R=13.0, 320.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10.	Ceiling types				
	a. Under Attic	R=19.0, 2450.0 ft²		15. HVAC credits	PT,
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
	c. N/A				
11.	Ducts				
	a. Sup: Unc. Ret: Con. AH(Sealed):Interior	Sup. R=6.0, 200.0 ft			
	b. N/A				

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: Melissa McCabe Date: 05/27/08

Address of New Home: 299 SW Timber Ridge Dr City/FL Zip: Lake City, Fl 32025

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 10-4S-16-02856-109 **Building permit No.** 000027219

Use Classification SFD/UTILITY **Fire:** 70.62

Permit Holder THEODORE C. BROCK **Waste:** 184.25

Owner of Building MARONDA HOMES INC.,OF FLORIDA **Total:** 254.87

Location: 299 SW TIMBERRIDGE DRIVE, LAKE CITY, FL

Date: 11/14/2008

Wayne A. Russ

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

GEO-TECH, INC.

Engineering Consultants in Geotechnical • Environmental • Construction Materials Testing

27219

FIELD DENSITY WORKSHEET

CLIENT MARONDA HOMES

DATE 28 JULY 08

PROJECT NO.

PROJECT NAME TIMBER LAKES LAKE CITY

PERMIT NO. -

EARTH CONTRACTOR LOT # 9 JOB # 9TM0801

TESTED BY JMC

COMPACTION REQUIREMENT (%) 98% ❑ Standard Proctor ❑ Modified Proctor

PATRICK FIELD CONTACT

TOTAL ON-SITE TIME

MILES FROM OFFICE

❑ Limerock ❑ Subgrade ❑ Pipe Backfill ❑ Building Pad ❑ Building Footing ❑ Other

TEST LOCATION	LAB PROCTOR DENS.	LAB PROCTOR OMC	TEST DEPTH	PROBE DEPTH	% MOIST.	WET DENSITY (PCF)	DRY DENSITY (PCF)	% COMP.
CTR. OF POP	104.8	10.1	FL	12"	6.8	110.6	103.5	98.7
CTR. OF N. FTG	〃	〃	〃	〃	7.2	107.7	100.5	95.8
CTR. OF S. FTG	〃	〃	〃	〃	6.9	107.7	100.7	96.0

REMARKS

* Density failed to meet minimum project requirement

** Retest indicates minimum density requirement was obtained.

( ) Client is aware of unsatisfactory test results.

2603 NW 74TH PLACE • GAINESVILLE, FLORIDA 32653 • PHONE: (352) 372-1274 • FAX: (352) 372-2721

PBL
9-TM

PROPOSED BUILDING LAYOUT

IN SECTION 10, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA

LEGAL DESCRIPTION:

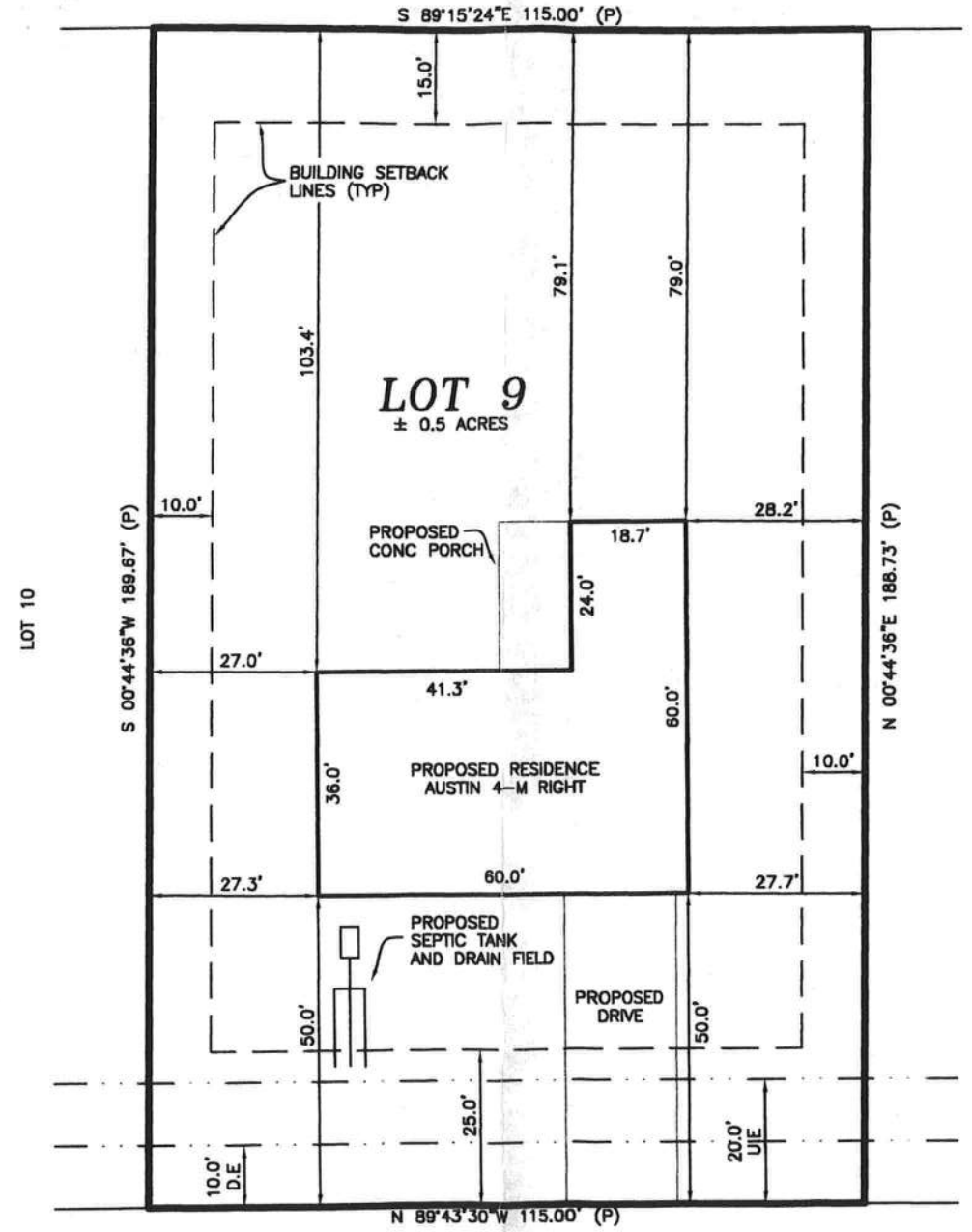
LOT NINE (9) OF "TIMBERLANDS" AS PER PLAT THEREOF, AS RECORDED IN PLAT BOOK '9', PAGE 27 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

CERTIFIED TO:

1) MARONDA HOMES

BUILDING SETBACK NOTE:

BUILDING SETBACK INFORMATION FOR "TIMBERLANDS" IS AS FOLLOWS: FRONT 25', REAR 15', SIDE 10'



30 0 30 60 90

1" = 30'

LEGEND:

- ● = FOUND 1/2" REBAR NO IDENTIFICATION
- ⊙ = FOUND 1/2" REBAR & CAP L.B. 6894
- ○ = SET 1/2" REBAR & CAP L.B. 6894
- ⌀ = FOUND 3/4" IRON PIPE
- ■ = FOUND 4" X 4" CONC. MON. NO IDENTIFICATION
- □ = SET 4" X 4" CONC. MON. P.S.M. 5582
- ✕ = SET NAIL & DISK P.S.M. 5582
- ✕ = FOUND NAIL & DISK
- ⊠ = FOUND 6" X 6" S.R.D. R/W MON.
- ⊟ = CATV RISER
- ⊡ = TELEPHONE PEDESTAL
- ⌀ = WOOD POWER POLE

ABBREVIATIONS:

- A/C = AIR CONDITIONER
- ASPH = ASPHALT
- C = CALCULATED FROM MEASURED
- CATV = CABLE TELEVISION
- C/B = CONCRETE BLOCK
- CLF = CHAIN LINK FENCE
- CM = CONCRETE MONUMENT
- CONC = CONCRETE
- ELEC = ELECTRIC
- ELEV = ELEVATION
- FND = FOUND
- FNC = FENCE
- LB = LICENSED SURVEYOR BUSINESS
- (M) = FIELD MEASURED
- MH = MANHOLE
- O.U. = OVERHEAD UTILITIES
- P = PLAT
- PB = PLAT BOOK
- P.U.E. = PUBLIC UTILITIES EASEMENT
- TRANS = TRANSFORMER
- TYP = TYPICAL
- WM = WATER METER
- WV = WATER VALVE

SURVEYOR NOTES:

1) TO THE BEST OF MY KNOWLEDGE, THERE ARE NO ENCROACHMENTS, BOUNDARY LINE DISPUTES, EASEMENTS, OR CLAIMS OF EASEMENTS, OTHER THAN ARE DEPICTED ON THIS DRAWING.
2) ALL UTILITIES AND OR IMPROVEMENTS, IF ANY, MAY NOT BE SHOWN ON THIS DRAWING.
3) IN THE OPINION OF THIS SURVEYOR THE BOUNDARY SHOWN HEREON BEST REPRESENTS THE LOCATION OF THE SUBJECT PROPERTY IN RELATION TO THE DESCRIPTION AND THOSE PROPERTY CORNERS FOUND TO BE ACCEPTABLE TO THIS SURVEYOR.
4) BUILDING SETBACK LINES DEPICTED HEREON ARE SHOWN AS PER THE RECORD PLAT, BUT ARE SUBJECT TO CHANGE. PRIOR TO ANY NEW CONSTRUCTION, THE APPROPRIATE GOVERNING AUTHORITY SHOULD BE CONTACTED FOR THE CURRENT SETBACK REQUIREMENTS.
5) THIS MAP OF SURVEY REFLECTS CONDITIONS LOCATED AS OF THE DATE OF FIELD WORK COMPLETION (SEE TITLE BLOCK).
6) AREAS OF ENVIRONMENTAL CONCERN HAVE NOT BEEN LOCATED BY THIS SURVEYOR, UNLESS OTHERWISE DEPICTED HEREON.

FLOOD NOTE:

IN THE OPINION OF THIS SURVEYOR, ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 120070-0175-B, DATED 1-6-88, THIS PROPERTY IS IN FLOOD ZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN, AS SCALED FROM SAID MAP. INFORMATION FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAPS, SHOWN ON THIS MAP, WAS CURRENT AS OF THE REFERENCED DATE. MAP REVISIONS AND AMENDMENTS ARE PERIODICALLY MADE BY LETTER AND MAY NOT BE REFLECTED ON THE MOST CURRENT MAP.

S.W. TIMBER RIDGE DRIVE

60' RIGHT-OF-WAY

TITLE NOTE:

THIS SURVEY IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH. THIS SURVEYOR HAS NOT PERFORMED A SEARCH OF THE PUBLIC RECORDS ON THIS PARCEL FOR ANY CLAIMS OF TITLE, EASEMENTS, OR RESTRICTIONS THAT MAY EFFECT THIS PARCEL. THE PRESENCE OR ABSENCE OF ANY SUCH CLAIMS ARE NOT CERTIFIED HEREON.

THIS IS NOT A BOUNDARY SURVEY

CERTIFICATE OF SURVEYOR:

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO THIS MAP BY ANYONE OTHER THAN THIS SURVEYOR IS PROHIBITED.

I HEREBY CERTIFY THAT THE SURVEY DATA SHOWN HEREON, IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY PERFORMED UNDER MY SUPERVISION OF THE HEREON DESCRIBED PROPERTY, AND IT MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, AND CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE.

BY: _____
JAMES E. BRINKMAN, PSM - FLA. CERT# 5582

DATE: 5/20/08

BRINKMAN SURVEYING & MAPPING INC.
4607 NW 6th STREET SUITE C, GAINESVILLE, FL. 32609
PHONE: (352) 374-7707 FAX: (352) 374-8757

SCALE: 1" = 30'	"THE BENCHMARK IN QUALITY SERVICE"	DRAWN BY: ZL
DATE: 5/19/08		CHECKED BY: J.B.
FIELD WORK COMPLETED ON **** FIELDBOOK **, PAGE **		
PREPARED FOR: MARONDA		DRAWING NUMBER 114-08

BOUNDARY SURVEY

IN SECTION 10, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA

LEGAL DESCRIPTION:

LOT NINE (9) OF "TIMBERLANDS, PHASE 1" AS PER PLAT THEREOF, AS RECORDED IN PLAT BOOK '9', PAGES 26–27 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

Permit 27219

CERTIFIED TO:

1) MARONDA HOMES

BUILDING SETBACK NOTE:

BUILDING SETBACK INFORMATION FOR "TIMBERLANDS" IS AS FOLLOWS: FRONT 25', REAR 15', SIDE 10'

TITLE NOTE:

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SURVEYOR NOTES:

1) TO THE BEST OF MY KNOWLEDGE, THERE ARE NO ENCROACHMENTS, BOUNDARY LINE DISPUTES, EASEMENTS, OR CLAIMS OF EASEMENTS, OTHER THAN ARE DEPICTED ON THIS DRAWING.
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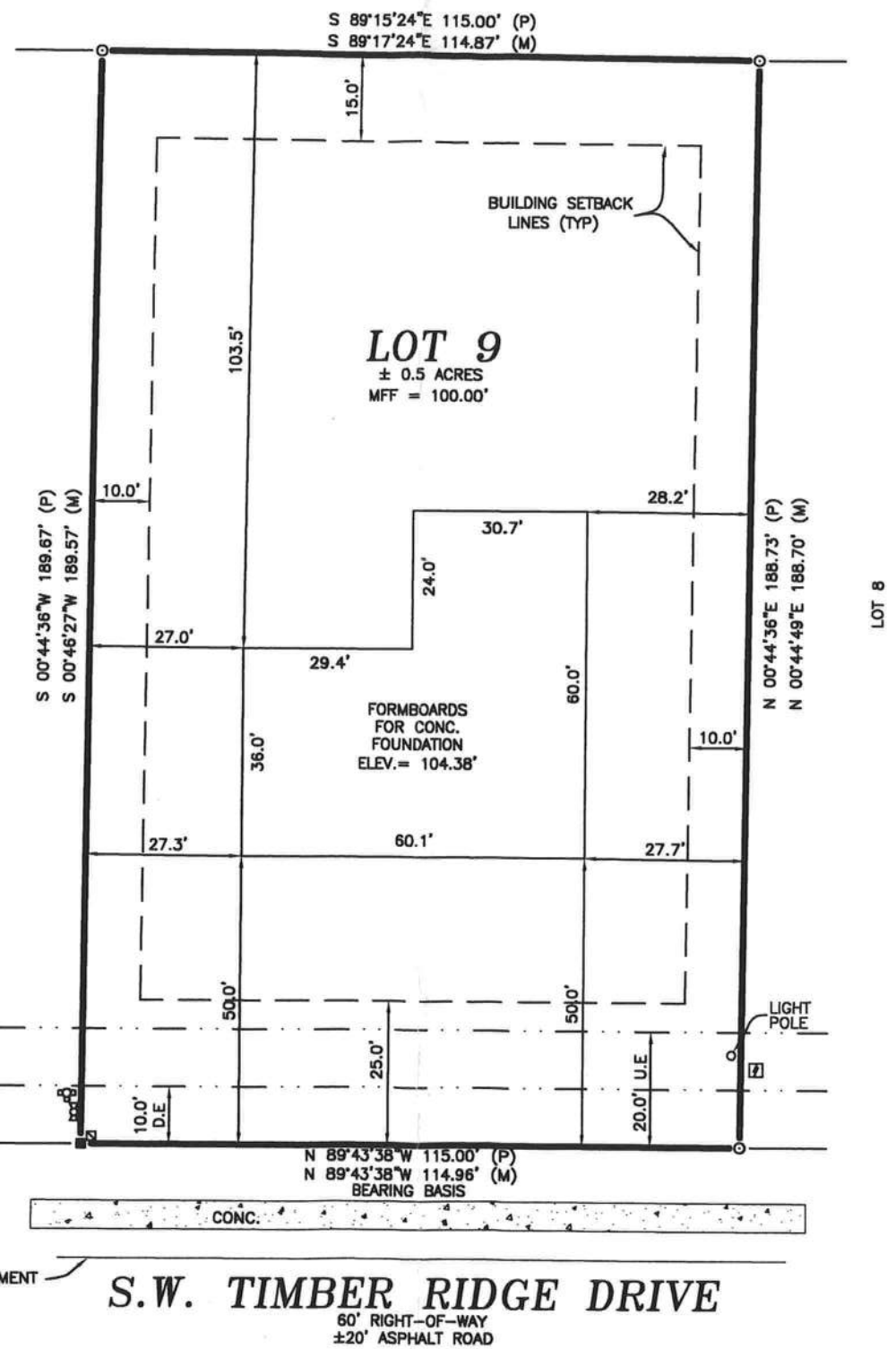
5) THIS MAP OF SURVEY REFLECTS CONDITIONS LOCATED AS OF THE DATE OF FIELD WORK COMPLETION (SEE TITLE BLOCK).
6) AREAS OF ENVIRONMENTAL CONCERN HAVE NOT BEEN LOCATED BY THIS SURVEYOR, UNLESS OTHERWISE DEPICTED HEREON.



30 0 30 60 90

1" = 30'

LEGEND:

- ● = FOUND 1/2" REBAR NO IDENTIFICATION
- ⊙ = FOUND 1/2" REBAR & CAP L.B. 7593
- ○ = SET 1/2" REBAR & CAP L.B. 6894
- ⌀ = FOUND 3/4" IRON PIPE
- ■ = FOUND 4" X 4" CONC. MON. P.S.M 5757
- □ = SET 4" X 4" CONC. MON. P.S.M. 5582
- ⊠ = FOUND NAIL & DISK P.S.M. 5757
- ✕ = FOUND NAIL & DISK
- ⊠ = FOUND 6" X 6" S.R.D. R/W MON.
- ⧖ = WATER VALVE
- ⧄ = TELEPHONE PEDESTAL
- = FIRE HYDRANT
- ⧆ = ELEC TRANSFORMER

ABBREVIATIONS:

A/C	= AIR CONDITIONER
ASPH	= ASPHALT
C	= CALCULATED FROM MEASURED
CATV	= CABLE TELEVISION
C/B	= CONCRETE BLOCK
CLF	= CHAIN LINK FENCE
CM	= CONCRETE MONUMENT
CONC	= CONCRETE
ELEC	= ELECTRIC
ELEV	= ELEVATION
FND	= FOUND
FNC	= FENCE
LB	= LICENSED SURVEYOR BUSINESS
(M)	= FIELD MEASURED
MFF	= MINIMUM FINISHED FLOOR ELEVATION
MH	= MANHOLE
O.U.	= OVERHEAD UTILITIES
P	= PLAT
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TRANS	= TRANSFORMER
TYP	= TYPICAL
WM	= WATER METER
WV	= WATER VALVE

BENCHMARK NOTE:

ELEVATIONS SHOWN HEREON ARE BASED UPON A BENCHMARK SET IN A 8" PINE AT THE FRONT OF LOT 2, WITH AN ELEVATION OF 98.76'. THIS INFORMATION WAS PROVIDED TO THIS SURVEYOR BY BRITT SURVEYING (PLATTING SURVEYOR) DATUM UNKNOWN.

CERTIFICATE OF SURVEYOR:

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO THIS MAP BY ANYONE OTHER THAN THIS SURVEYOR IS PROHIBITED.

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BY: _____
JAMES E. BRINKMAN, PSM – FLA. CERT# 5582

DATE: 8/6/08

BRINKMAN SURVEYING & MAPPING INC.

4607 NW 6th STREET SUITE C, GAINESVILLE, FL. 32609

PHONE: (352) 374–7707 FAX: (352) 374–8757

SCALE: 1" = 30'	"THE BENCHMARK IN QUALITY SERVICE"	DRAWN BY: ZL
DATE: 8/6/08		CHECKED BY: J.B.
FIELD WORK COMPLETED ON 7/31/2008 FIELDBOOK 98, PAGE 26		
PREPARED FOR: MARONDA		DRAWING NUMBER 114–08

HOMETEAM PEST DEFENSE®

27219

TREATMENT WORKORDER

☐ Termite Baiting System w/Tubes-under-the slab

☐ Treat Only ☒ Tubes-under-the slab and Treat ☐ Bora-Care

DATE CALLED IN:	7/30	DATE OF SCHEDULE:	8/1
TIME CALLED IN:		TIME SCHEDULE:	10:00

JOB NAME: Miranda SUBDIVISION: Timberland

JOB ADDRESS: 299 SW Timber Ridge Dr.

BILLING NAME: BILLING PHONE:

BILLING ADDRESS:

CALLED IN BY: PHONE: PERMIT NUMBER: 00027219

LOT & MODEL NUMBER: 9

DATE & TIME COMPLETED: 8/4/08

SQUARE FOOT: 2896 LINEAR FOOT: BLOCKVOIDS:

SLAB TYPE: MONO TYPE OF FILL: dirt / sand

APPROX. DEPTH OF FOOTING: Outside: Inside:

☐ Addition ☐ Spot Treat ☐ Pool Addition ☐ Driveway

☐ Final/Completion ☐ Other

PESTICIDE USED: Termex Pro TOTAL APPLIED: 1.5 gal

PERCENT (%) USED: .1% STICKER POSTED: perm. + box

PRICE PER SQ. FT. =	TOTAL FOR P.T.		
	ADDITIONAL		
	TAX:		
/ /	TOTAL AMOUNT	$	

X X TECHNICIAN: Casey

I hereby acknowledge the satisfactory completion of the above described work.

GT 23 / TCI 12/05

FEES:

ROAD IMPACT FEE $1,046.00 CODE 210 UNIT 1
10100003632400

EMS IMPACT FEE $29.88
10300003632210

FIRE PROTECTION IMPACT FEE $78.63
10200003632220

CORRECTIONS IMPACT FEE $409.16
00100003632200

SCHOOL IMPACT FEE $1,500.00
00100003632900

TOTAL FEES CHARGED $3,063.67 CHECK NUMBER _____