

DATE 07/13/2009

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT

000027940

APPLICANT TED BROCK PHONE 904 296-1490
ADDRESS 6800 SOUTH POINT PARKWAY #300 JACKSONVILLE FL 32216
OWNER MARONDA HOMES PHONE 904 296-1490
ADDRESS 414 SW TIMBER RIDGE DR LAKE CITY FL 32024
CONTRACTOR TED BROCK PHONE 904 296-1490

LOCATION OF PROPERTY 90W, TL ON 247S, TR ON CR 252B, TL ON TIMBER RIDGE DR.,
11TH LOT ON LEFT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 159050.00

HEATED FLOOR AREA 2724.00 TOTAL AREA 3181.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 7/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 26

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-16-02856-115 SUBDIVISION TIMBERLANDS

LOT 15 BLOCK PHASE UNIT TOTAL ACRES 0.50

000001738 CBC1256382

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor

CULVERT 09-87 BK WR Y

Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: MFE @ 100', ELEVATION CONFIRMATION LETTER REQUIRED AT SLAB,

NOC ON FILE

Check # or Cash 998212

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

Framing Insulation
date/app. by date/app. by

Rough-in plumbing above slab and below wood floor Electrical rough-in
date/app. by date/app. by

Heat & Air Duct Peri. beam (Lintel) Pool
date/app. by date/app. by date/app. by

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

Pump pole Utility Pole M/H tie downs, blocking, electricity and plumbing
date/app. by date/app. by date/app. by

Reconnection RV Re-roof
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 800.00 CERTIFICATION FEE \$ 15.91 SURCHARGE FEE \$ 15.91

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 931.82

INSPECTORS OFFICE CLERKS OFFICE

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 NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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

DATE 03/12/2010

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT

000028412

APPLICANT ROGER BONIFANT PHONE 904-296-1490
ADDRESS 6800 SOUTHPIONT PKWY #300 JACKSONVILLE FL 32216
OWNER MARONDA HOMES PHONE 904-296-1490
ADDRESS 414 SW TIMBER RIDGE DR LAKE CITY FL 32024
CONTRACTOR TED BROOK PHONE 904-296-1490
LOCATION OF PROPERTY 90 W, L 247 S, R 252-B, L TIMBER RIDGE DR, 11 TH LOT
ON LEFT
TYPE DEVELOPMENT RE-NEWAL SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 159050.00
HEATED FLOOR AREA TOTAL AREA HEIGHT 26.00 STORIES 1
FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 7/12 FLOOR SLAB
LAND USE & ZONING RSF-2 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-16-02856-115 SUBDIVISION TIMBERLANDS
LOT 15 BLOCK PHASE UNIT TOTAL ACRES 0.50

00001738 CBC1256382
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
CULVERT 09-0087 BK WR N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: MFE @ 100', ELEVATION CONFIRMATION LETTER REQUIRED AT SLAB

RE-NEWAL OF PERMIT 27940 (ALL PAPERWORK TRANSFERED FROM FILE), noc on file

Check # or Cash 1050505

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic
 date/app. by date/app. by date/app. by
Under slab rough-in plumbing Slab Sheathing/Nailing
 date/app. by date/app. by date/app. by
Framing Insulation
 date/app. by date/app. by
Rough-in plumbing above slab and below wood floor Electrical rough-in
 date/app. by date/app. by
Heat & Air Duct Peri. beam (Lintel) Pool
 date/app. by date/app. by date/app. by
Permanent power C.O. Final Culvert
 date/app. by date/app. by date/app. by
Pump pole Utility Pole M/H tie downs, blocking, electricity and plumbing
 date/app. by date/app. by date/app. by
Reconnection RV Re-roof
 date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 800.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ CULVERT FEE \$ **TOTAL FEE** 800.00
INSPECTORS OFFICE CLERKS OFFICE

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 NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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



HOMETEAM PEST DEFENSE

TREATMENT WORKORDER

- ☐ Termite Baiting System w/Tubes-under-the slab
☐ Treat Only ☒ Tubes-under-the slab and Treat ☐ Bora-Care

DATE CALLED IN:		DATE OF SCHEDULE:	4/1/10
TIME CALLED IN:		TIME SCHEDULE:	

JOB NAME:		SUBDIVISION:	Timberland
JOB ADDRESS:	Maronda Homes 414 Timber Ridge Dr S Lake City, FL 32024		
BILLING NAME:		BILLING PHONE:	
BILLING ADDRESS:			
CALLED IN BY:		PHONE:	800028412
LOT & MODEL NUMBER:	Lot 15	PERMIT NUMBER:	

DATE & TIME COMPLETED:	4/1/10				
SQUARE FOOT:	2247	LINEAR FOOT:		BLOCKVOIDS:	
SLAB TYPE:	Stemwall	TYPE OF FILL:	dirt		
APPROX. DEPTH OF FOOTING:	Outside:	Inside:			
☐ Addition	☐ Spot Treat	☐ Pool Addition	☐ Driveway		
☐ Final/Completion	☐ Other				
PESTICIDE USED:		TOTAL APPLIED:			
PERCENT (%) USED:		STICKER POSTED:	YES		

PRICE PER SQ. FT. =		TOTAL FOR P.T.		
		ADDITIONAL		
		TAX:		
		TOTAL AMOUNT	\$	
X TECHNICIAN:			Casy	

by acknowledge the satisfactory completion of the above described work.

LEGAL DESCRIPTION:
LOT FIFTEEN (15) OF "TIMBERLANDS PHASE 1"
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
PHASE 1" IS AS FOLLOWS: FRONT-25', REAR-15',
SIDE-10'.

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.

TITLE NOTE:

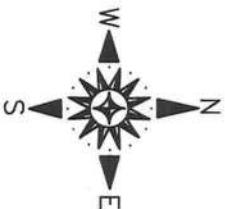
THIS SURVEY IS SUBJECT TO ANY FACTS THAT MAY
BE DISCLOSED BY A FULL AND ACCURATE TITLE
SEARCH. THIS SURVEYOR HAS NOT PERFORMED A
SEARCH OF THE PUBLIC RECORDS ON THIS PARCEL
FOR ANY CLAIMS OF TITLE, EASEMENTS, OR
RESTRICTIONS THAT MAY AFFECT THIS PARCEL. THE
PRESENCE OR ABSENCE OF ANY SUCH CLAIMS ARE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

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.



PROPOSED BUILDING LAYOUT

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



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 61B17-6, FLORIDA ADMINISTRATIVE CODE.

BY: *James E. Brinkman*
JAMES E. BRINKMAN, PSM - FLA. CERT# 5582

DATE: 2/6/09



BRINKMAN SURVEYING & MAPPING INC.

4607 NW 6th STREET SUITE C, GAINESVILLE, FL 32609
PHONE: (352) 374-7707 FAX: (352) 374-8757

SCALE: 1" = 30'

DATE: 2/2/2009

"THE BENCHMARK IN QUALITY SERVICE"

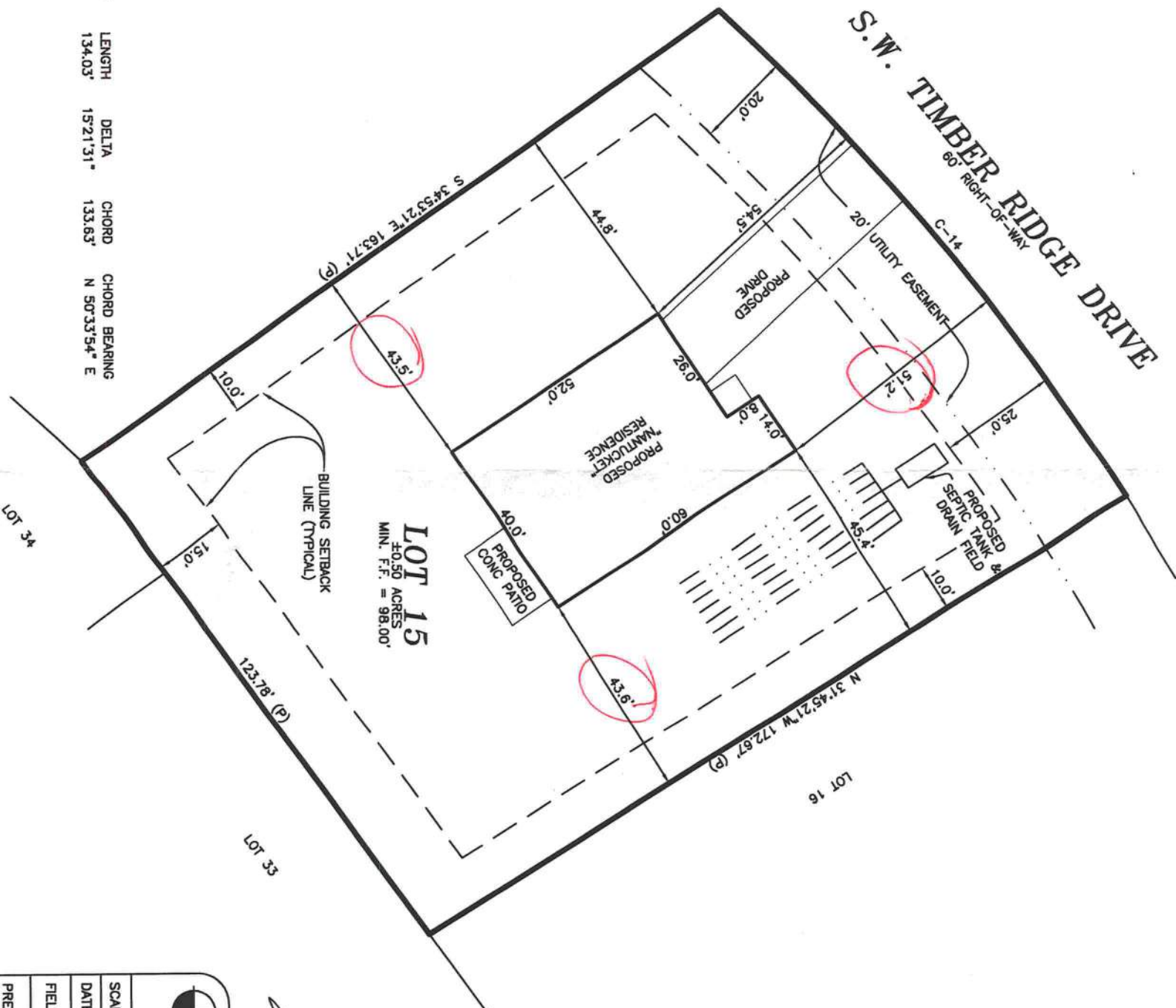
DRAWN BY: ZL

CHECKED BY: J.B.

FIELD WORK COMPLETED ON **** FIELDBOOK **, PAGE **

PREPARED FOR: MARONDA

DRAWING NUMBER
004-09



CURVE	RADIUS	TANGENT	LENGTH	DELTA	CHORD	CHORD BEARING
C-14(P)	500.00'	67.42'	134.03'	15°21'31"	133.63'	N 50°33'54" E

LEGAL DESCRIPTION:
LOT FIFTEEN (15) OF "TIMBERLANDS PHASE 1" 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

BEARING NOTE:

BEARINGS SHOWN HEREON ARE REFERRED TO AN ASSUMED VALUE OF S. 34°53'21" E., FOR THE WEST PROPERTY LINE OF LOT 15.

FENCE NOTE:

SOME FENCE TIES AS SHOWN HEREON, (IF APPLICABLE) HAVE BEEN DRAWN EXAGGERATED FOR SAKE OF GRAPHIC REPRESENTATION.

BUILDING SETBACK NOTE:

BUILDING SETBACK INFORMATION FOR "TIMBERLANDS PHASE 1" IS AS FOLLOWS: FRONT-25', REAR-15', SIDE-10'.

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.

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.

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.

SURVEYOR NOTES:

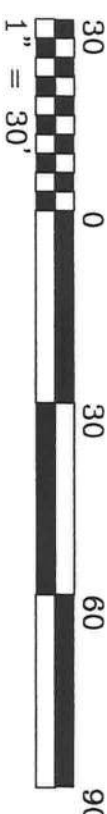
- 1) TO THE BEST OF MY KNOWLEDGE, THERE ARE NO ENCROACHMENTS, BOUNDARY LINE DISPUTES, EASEMENTS, OR CLAIMS OF EASEMENTS, OTHER THAN ARE DEPICTED ON THIS DRAWING.
- 2) ALL UTILITIES AND OR IMPROVEMENTS, IF ANY, MAY NOT BE SHOWN ON THIS DRAWING.
- 3) IN THE OPINION OF THIS SURVEYOR THE BOUNDARY SHOWN HEREON 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.



FOUNDATION CERTIFICATION

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

Permit # 28412



LEGEND:

- = FOUND 1/2" REBAR & CAP
L.B. 6894
- = FOUND 4" X 4" CONC. MON.
P.S.M. 5757
- = FOUND 4" X 4" CONC. MON.
NO IDENTIFICATION (BROKEN TOP)
- X = FOUND MAIL NO IDENTIFICATION
- ⊞ = CATV RISER
- ⊞ = ELECTRIC TRANSFORMER
- ⊞ = FIBERGLASS LIGHT POLE
- ⊞ = TELEPHONE HANDHOLE
- ⊞ = WATER METER

ABBREVIATIONS:

- C = CALCULATED FROM MEASURED
- CONC = CONCRETE
- (L) = PER LEGAL DESCRIPTION
- LB = LICENSED SURVEYOR BUSINESS
- (M) = LAND SURVEYOR
- (M) = FIELD MEASURED
- O.U. = OVERHEAD UTILITIES
- P = PLAT
- PRM = PERMANENT REFERENCE MONUMENT
- PSM = PROFESSIONAL SURVEYOR & MAPPER
- PUE = PUBLIC UTILITIES EASEMENT

CURVE TABLE:

CURVE	RADIUS	TANGENT	LENGTH	DELTA	CHORD	CHORD BEARING
C14(P)	500.00'	67.42'	134.03'	15°21'31"	133.63'	N 50°33'54" E
C14(M)	500.00'	67.33'	133.86'	15°20'23"	133.46'	N 50°31'15" E

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 605-8, FLORIDA ADMINISTRATIVE CODE.

BY: JAMES E. BRINKMAN, P.S.M., F.L.A. CERT# 5582

DATE: 3/30/2010



BRINKMAN SURVEYING & MAPPING INC.

4607 NW 6th STREET SUITE C, GAINESVILLE, FL 32609
PHONE: (352) 374-7707 FAX: (352) 374-8757

SCALE: 1" = 20'

DATE: 3/30/2010

DRAWN BY: B.G.

FIELD WORK COMPLETED ON 3/29/2010

FIELDBOOK 101, PAGE 39

CHECKED BY: J.B.

PREPARED FOR: MARONDA HOMES

DRAWING NUMBER 004-09

COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING INSPECTION

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-16-02856-115

Building permit No. 000028412

Use Classification RE-ISSUE SFD, UTILITY

Fire: 25.68

Permit Holder TED BROOK

Waste: 67.00

Owner of Building MARONDA HOMES

Total: 92.68

Location: 414 SW TIMBER RIDGE DR., LAKE CITY, FL

Date: 06/16/2010

Handwritten signature

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)

Maronda Systems

Permit #28412

MARONDA SYSTEMS

4005 Maronda Way

Sanford, FL 32771

(407) 321-0064

Fax (407) 321-3913

Date: April 21, 2010

To: Building Department

From: Maronda Systems
Tomas Ponce
Professional Engineer
State of Florida # 50068

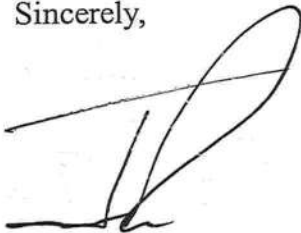
Subject: 414 SW Timber Ridge Dr.
LOT#15-1, JAX-9TM
JOB# 9TM01501, NATM42B RIGHT

Issue: M1X has a broken top chord.

Repair: Scab (1) No.2 SYP 2x4 to each face with 4 feet each side of break nailed
4" o.c.

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

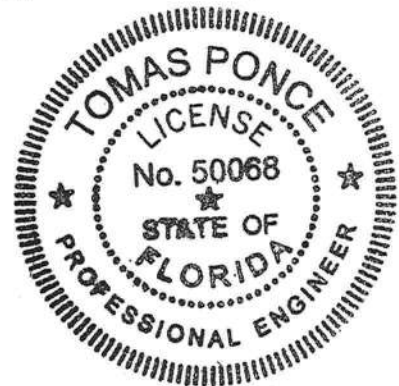
Sincerely,



Tomas Ponce, M.S., P.E.

Date: 4/21/10

TP/ja



28412

Inst: 201012004420 Date: 3/23/2010 Time: 9:43 AM
DC.P. DeWitt Cason, Columbia County Page 1 of 1 B: 1191 P: 283

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 10-45-16-02856-115

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): 15/1 TIMBERLANDS
a) Street (job) Address: 414 SW TIMBER RIDGE DR. LAKE CITY FL 32024
2. General description of improvements: CONSTRUCTION OF SINGLE FAMILY RESIDENCE
3. Owner Information
a) Name and address: MARONDA HOMES INC. OF FLORIDA 6800 SOUTHPOINT PKY #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 FLORIDA 6800 SOUTHPOINT PKY #300
b) Telephone No.: 904 296 1490 Fax No. (Opt): 904 322-6375 JAX FL 32216
5. Surety Information
a) Name and address:
b) Amount of Bond:
c) Telephone No.: Fax No. (Opt):
6. Lender
a) Name and address: BANK OF AMERICA NA, A NATIONAL BANKING ASSOC. (407) 646-6303
b) Phone No.: 250 SOUTH PARK AVE #400 WINTER PARK FL 32789-4316
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: STEEL CITY TITLE, INC. 851 TRAFALGAR CT #132 E MAITLAND, FL 32751
b) Telephone No.: 407 660-4422 Fax No. (Opt): 407 660-4708
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(1)(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.

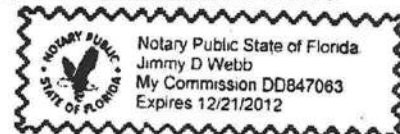
STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Signature of Owner or Owner's Authorized Office/Director/Partner/Manager
MARONDA HOMES INC. OF FLORIDA
Print Name STEVE HOGG, V.P.

The foregoing instrument was acknowledged before me, a Florida Notary, this 10 day of MARCH, 20 10, by:STEVE HOGG as DIVISION MANAGER (type of authority, e.g. officer, trustee, attorneyfact) 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

Notary Stamp or Seal:



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.)

NOTICE OF COMMENCEMENT

Inst: 200912005238 Date: 3/31/2009 Time: 11:34 AM
 DC, P. DeWitt Cason, Columbia County Page 1 of 1 B: 1170 P: 643

Tax Parcel Identification Number 10-45-16-02856-115

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): 15/1 TIMBERLANDS
- a) Street (job) Address: 414 SW TIMBER RIDGE DR. LAKE CITY FL 32024
2. General description of improvements: CONSTRUCTION OF SINGLE FAMILY RESIDENCE
3. Owner Information
 - a) Name and address: MARONDA HOMES INC. OF FLORIDA 6800 SOUTHPOINT PKY #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 FLORIDA 6800 SOUTHPOINT PKY #300
 - b) Telephone No.: 904 296 1490 Fax No. (Opt.): 904 322-6375 JAX FL 32216
5. Surety Information
 - a) Name and address: _____
 - b) Amount of Bond: _____
 - c) Telephone No.: _____ Fax No. (Opt.): _____
6. Lender
 - a) Name and address: BANK OF AMERICA NA A NATIONAL BANKING ASSOC. (407) 646-6303
 - b) Phone No.: 250 SOUTH PARK AVE #400 WINTER PARK FL 32789-4316
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: STEEL CITY TITLE, INC. 851 TRAFALGAR CT #132 E MAITLAND, FL 32751
 - b) Telephone No.: 407 660-4422 Fax No. (Opt.): 407 660-4708

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]
 Signature of Owner or Owner's Authorized Officer/Director/Partner/Manager
STEVE HOGG
 Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 3rd day of February, 2009, by:
STEVE HOGG as DIVISION MANAGER (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 Susan Lilly Notary Stamp or Seal:



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

CK# 448212 15/1 28412
in box

For Office Use Only Application # 0903-02 Date Received 3/2 By ATW Permit # 1738/27940
Zoning Official BLK Date 18-06-09 Flood Zone X Land Use RES Low Dev Zoning RSF-2
FEMA Map # N/A Elevation N/A MFE 100 per plot River N/A Plans Examiner (WRD) Date 6/15/09
Comments Elevation Confirmation Letter Required at Slab
☒ NOC ☒ EH ☒ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel #
☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter
IMPACT FEES: EMS _____ Fire _____ Corr _____ Road/Code _____
School _____ = TOTAL _____

Septic Permit No. 09-0087 Fax (904) 332-6375
Name Authorized Person Signing Permit TEO BROCK / ROGER BONIFANT Phone (904) 296-1490
Address 6800 SOUTH POINT PKWY #300 JAX. FL 32216
Owners Name MARONDA HOMES INC. OF FL Phone 904-296-1490
911 Address 414 SW TIMBER RIDGE DR LAKE CITY FL 32024
Contractors Name THEODORE C. BROCK Phone 904-296-1490
Address 6800 SOUTHPOINT PKWY #300 JAX. FL 32216
Fee Simple Owner Name & Address N/A
Bonding Co. Name & Address N/A
Architect/Engineer Name & Address THOMAS 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 10-45-16-02856-115 Estimated Cost of Construction \$89,172
Subdivision Name TIMBERLANDS Lot 15 Block / Unit / Phase 1
Driving Directions HWY 90, LEFT ON 247 SOUTH, RIGHT ON 252 B, LEFT ON TIMBER RIDGE DR. 11th HOUSE/LOT ON LEFT
Number of Existing Dwellings on Property 1
Construction of RESIDENTIAL SINGLE FAMILY Total Acreage ~ 21780 Lot Size +/- 5
Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 26'
Actual Distance of Structure from Property Lines - Front 51'-2" Side 43'-6" Side 43'-5" Rear 62'
Number of Stories 2 Heated Floor Area 2724 Total Floor Area 3181 Roof Pitch 7.5/12

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.

Page 1 of 2 (Both Pages must be submitted together.)

\$ 931.82

Revised 1-10-08

Emailed 6/19/09 to Roger Meliss.

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

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.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT 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.

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

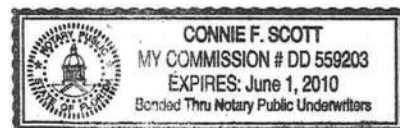
Competency Card Number

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 2 day of March 2009

Personally known ☒ or Produced Identification

State of Florida Notary Signature (For the Contractor)

SEAL:





STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

LC

PERMIT NO. 911265
DATE PAID: 2/12/09
FEE PAID: 425.00
RECEIPT #: 1078827

APPLICATION FOR:

[X] New System [] Existing System [] Holding Tank [] Innovative
[] Repair [] Abandonment [] Temporary []

APPLICANT: Maronda Homes Inc of Florida

AGENT: Ted Brock TELEPHONE: 407-227-3504

MAILING ADDRESS: 10800 Smithpoint Pkwy # 300 Jacksonville, FL 32210

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(a) OR 489.552, FLORIDA STATUTES.

PROPERTY INFORMATION

LOT: 15 BLOCK: 1 SUBDIVISION: Timberlands PLATTED: Yes

PROPERTY ID #: 10-45-16-02856-115 ZONING: I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: 50 ACRES WATER SUPPLY: [] PRIVATE PUBLIC [X] <=2000GPD [] >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] DISTANCE TO SEWER: 0 FT

PROPERTY ADDRESS: 414 SW TIMBER RIDGE DR.

DIRECTIONS TO PROPERTY: US 90 West, left on 247, right on CR252B, left on SW Timber Ridge Drive. 11th HOUSE ON LEFT

BUILDING INFORMATION

[X] RESIDENTIAL [] COMMERCIAL

Unit Type of No Establishment No. of Bedrooms Building Area Sqft Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC

1	SFR	4	3181	
2				
3				
4				

[] Floor/Equipment Drains [] Other (Specify)

SIGNATURE:

DATE: 2/3/09



STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number

09-0087

PART II - SITE PLAN

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

09-0087

Notes: SEE ATTACHMENT

Site Plan submitted by: [Signature] Signature

Division: MGR

Plan Approved [Signature] Not Approved _____ Title

Date 2/26/9

By [Signature] County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

27940

**Columbia County Building Department
Culvert Permit**

**Culvert Permit No.
000001738**

DATE 07/13/2009 PARCEL ID # 10-4S-16-02856-115
APPLICANT TED BROCK PHONE 904 296-1490
ADDRESS 6800 SOUTH POINT PARKWAY #300 JACKSONVILLE FL 32216
OWNER MARONDA HOMES PHONE 904 296-1490
ADDRESS 414 SW TIMBER RIDGE DR LAKE CITY FL 32024
CONTRACTOR TED BROCK PHONE 904 296-1490
LOCATION OF PROPERTY 90W, TL ON 247S, TR ON CR 252B, TL ON TIMBER RIDGE DR,
11TH LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT TIMBERLANDS 15

SIGNATURE

INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length 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 INSTALLATION 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



This Instrument Prepared by and Return to :

Arny Wesp
SOUTHERN TITLE HOLDING
COMPANY, LLC.
3943 BAY MEADOWS ROAD
JACKSONVILLE, Florida 32217

as a necessary incident to the fulfillment of conditions
contained in a title insurance commitment issued by it.

Property Appraisers Parcel I.D. (Folio) Number(s):

R02856-000

Grantee(s) I.D.#(s):

File No: JX0812085

Inst: 200812010775 Date: 6/6/2008 Time: 1:05 PM
Doc Stamp: Deed 6263.00
DC, P. DeWitt Cason, Columbia County Page 1 of 1 B: 1151 P: 2385

WARRANTY DEED
(CORPORATION)

This Warranty Deed Made this 27th day of May, 2008, by RML HOLDINGS INC., A FLORIDA CORPORATION, and having its place of business at 703 NW BLACKBERRY CIRCLE, LAKE CITY, Florida 32055, hereinafter called the grantor,

to MARONDA HOMES, INC. OF FLORIDA, A FLORIDA CORPORATION, whose post office address is: 11200 ST. JOHNS INDUSTRIAL PARKWAY, JACKSONVILLE, FLORIDA 32246, hereinafter called the grantee,

\$899,000.00

WITNESSETH: That said grantor, for and in consideration of the sum of ~~\$40,000~~ Dollars and other valuable considerations, receipt whereof is hereby acknowledged, by these presents grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz: LOTS 1, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 24, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, AND 41, OF TIMBERLANDS, PHASE 1, ACCORDING TO PLAT THEREOF AS RECORDED IN PLAT BOOK 9, PAGE 26 AND 27 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining. To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2007, reservations, restrictions and easements of record, if any.
(Wherever used herein the terms "grantor" and "grantee" included all the parties to this instrument, and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporation.)

In Witness Whereof, the Grantor has caused these presents to be executed in its name, and its corporate seal to be hereunto affixed, by its proper officers thereunto duly authorized, the day and year first above written.

Signed, sealed and delivered in our presence:

ATTEST:

Secretary

RML HOLDINGS INC.

Witness Signature: Worth D. Morris
Printed Name: WORTH D. MORRIS

BY: Robert R. Lardizabal
ROBERT R. LARDIZABAL, PRESIDENT

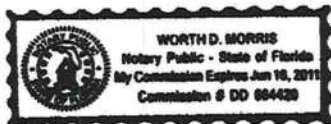
Witness Signature: Jody M. Coble, ACP
Printed Name: Jody M. Coble

STATE OF FLORIDA
COUNTY OF DUVAL

The foregoing instrument was acknowledged before me this 28th day of May, 2008, by ROBERT R. LARDIZABAL as PRESIDENT of RML HOLDINGS INC., A FLORIDA CORPORATION, on behalf of the corporation. He/she is personally known to me or who has produced driver license(s) as identification.

My Commission Expires:

Worth D. Morris
Printed Name: WORTH D. MORRIS
Notary Public
Serial Number



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name: NANTUCKET M- GAINESVILLE
 Street:
 City, State, Zip: , FL ,
 Owner:
 Design Location: FL, Gainesville

Builder Name: MARONDA HOMES
 Permit Office: Columbia
 Permit Number: 27940 28412
 Jurisdiction: 221000

1. New construction or existing	New (From Plans)	
2. Single family or multiple family	Single-family	
3. Number of units, if multiple family	1	
4. Number of Bedrooms	4	
5. Is this a worst case?	Yes	
6. Conditioned floor area (ft ²)	2784	
7. Windows	Description	Area
a. U-Factor:	Dbl, U=0.60	229.00 ft ²
SHGC:	SHGC=0.32	
b. U-Factor:	N/A	ft ²
SHGC:		
c. U-Factor:	N/A	ft ²
SHGC:		
d. U-Factor:	N/A	ft ²
SHGC:		
e. U-Factor:	N/A	ft ²
SHGC:		
8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1790.00 ft ²
b. Floor over Garage	R=19.0	160.00 ft ²
c. N/A	R=	ft ²

9. Wall Types	Insulation	Area
a. Concrete Block - Int Insul, Exterior	R=4.1	1431.00 ft ²
b. Frame - Wood, Exterior	R=13.0	1024.00 ft ²
c. Frame - Wood, Adjacent	R=13.0	320.00 ft ²
d. N/A	R=	ft ²
10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	1950.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²
11. Ducts		
a. Sup: Attic Ret: Interior AH: Interior Sup. R= 6, 352 ft ²		
12. Cooling systems (combined)		
a. Central Unit	Cap: 58 kBtu/hr	SEER: 14
13. Heating systems (combined)		
a. Electric Heat Pump	Cap: 58 kBtu/hr	HSPF: 8.32
14. Hot water systems		
a. Electric	Cap: 50 gallons	EF: 0.93
b. Conservation features		
None		
15. Credits	CV, Pstat	

Glass/Floor Area: 0.082

Total As-Built Modified Loads: 44.47

Total Baseline Loads: 61.56

PASS

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

PREPARED BY: Kenneth Wayne Campbell Jr.DATE: 8/15/09KENNETH WAYNE CAMPBELL JR.

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

OWNER/AGENT: Kenneth Wayne Campbell Jr.DATE: 8/15/09KENNETH WAYNE CAMPBELL JR.

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with N1110.A.3.

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: _____



PROJECT

Title: NANTUCKET M- GAINESVIL	Bedrooms: 4	Address Type: Street Address
Building Type: FLAsBuilt	Bathrooms: 2.5	Lot #
Owner:	Conditioned Area: 2784	SubDivision:
# of Units: 1	Total Stories: 2	PlatBook:
Builder Name: MARONDA HOMES	Worst Case: Yes	Street:
Permit Office:	Rotate Angle: 225	County: COLUMBIA
Jurisdiction:	Cross Ventilation: Yes	City, State, Zip: ,
Family Type: Single-family	Whole House Fan: No	FL ,
New/Existing: New (From Plans)		
Comment:		

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

✓	#	Floor Type	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	199 ft	0	1790 ft²		0	0.3	0.7
_____	2	Floor over Garage			160 ft²	19	0	0	1

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Hip	Composition shingles	2181 ft²	0 ft²	Medium	0.96	No	0	26.6 deg

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1950 ft²	N	N

CEILING

✓	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	30	1950 ft²	0.11	Wood

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	N	Exterior	Concrete Block - Int Insul	4.1	180 ft²	0	0	0.75
_____	2	E	Exterior	Concrete Block - Int Insul	4.1	540 ft²	0	0	0.75
_____	3	S	Exterior	Concrete Block - Int Insul	4.1	360 ft²	0	0	0.75
_____	4	W	Exterior	Concrete Block - Int Insul	4.1	351 ft²	0	0	0.75
_____	5	N	Exterior	Frame - Wood	13	320 ft²	0	0.23	0.75
_____	6	E	Exterior	Frame - Wood	13	192 ft²	0	0.23	0.75
_____	7	S	Exterior	Frame - Wood	13	320 ft²	0	0.23	0.75

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	8	W	Exterior	Frame - Wood	13	192 ft²	0	0.23	0.75
_____	9	N	Garage	Frame - Wood	13	320 ft²		0.23	0.01

DOORS

✓	#	Ornt	Door Type	Storms	U-Value	Area
_____	1	N	Insulated	None	0.4	20 ft²
_____	2	N	Insulated	None	0.4	18 ft²

WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

✓	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang		Int Shade	Screening
										Depth	Separation		
_____	1	S	Metal	Low-E Double	Yes	0.6	0.32	N	16 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	2	S	Metal	Low-E Double	Yes	0.6	0.32	N	16 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	3	S	Metal	Low-E Double	Yes	0.6	0.32	N	48 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	4	N	Metal	Low-E Double	Yes	0.6	0.32	N	5 ft²	8 ft 0 in	1 ft 0 in	HERS 2006	None
_____	5	W	Metal	Low-E Double	Yes	0.6	0.32	N	16 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	6	N	Metal	Low-E Double	Yes	0.6	0.32	N	32 ft²	1 ft 0 in	6 ft 0 in	HERS 2006	None
_____	7	E	Metal	Low-E Double	Yes	0.6	0.32	N	16 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	8	E	Metal	Low-E Double	Yes	0.6	0.32	N	16 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	9	W	Metal	Low-E Double	Yes	0.6	0.32	N	16 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	10	E	Metal	Low-E Double	Yes	0.6	0.32	N	16 ft²	1 ft 0 in	10 ft 0 in	HERS 2006	None
_____	11	S	Metal	Low-E Double	Yes	0.6	0.32	N	16 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	12	S	Metal	Low-E Double	Yes	0.6	0.32	N	16 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None

INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	--- Forced Ventilation ---		Run Time	Fan
							Supply CFM	Exhaust CFM	Fraction	Watts
_____	Default	0.00036	2629	6.30	144.3	271.4	0 cfm	0 cfm	0	0

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	417 ft²	257 ft²	39 ft	9 ft	13

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ductless
_____	1	Central Unit	None	SEER: 14	35 kBtu/hr	1050 cfm	0.78	False
_____	2	Central Unit	None	SEER: 14	23 kBtu/hr	cfm	0.76	False

HEATING SYSTEM

☒	#	System Type	Subtype	Efficiency	Capacity	Ductless
☐	1	Electric Heat Pump	None	HSPF: 8.2	35 kBtu/hr	
☐	2	Electric Heat Pump	None	HSPF: 8.5	23 kBtu/hr	True

HOT WATER SYSTEM

☒	#	System Type	EF	Cap	Use	SetPnt	Conservation
☐	1	Electric	0.93	50 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

☒	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
☐	None	None			ft ²		

DUCTS

☒	#	--- Supply --- Location	R-Value	Area	--- Return --- Location	Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF
☐	1	Attic	6	352 ft ²	Interior	20 ft ²	Default Leakage	Interior				

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans:									
Cooling	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☒ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☒ Oct	☒ Nov	☒ Dec	
Heating	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☒ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☒ Oct	☒ Nov	☒ Dec	
Venting	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☒ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☒ Oct	☒ Nov	☒ Dec	
Thermostat Schedule: HERS 2006 Reference													
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS:

, FL,

PERMIT #:

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.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	N1106.AB.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	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to 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	N1106.AB.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 with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	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%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	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 INDEX* = 72

The lower the EnergyPerformance Index, the more efficient the home.

1. New construction or existing	New (From Plans)		9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family		a. Concrete Block - Int Insul, Exterior	R=4.1	1431.00 ft ²
3. Number of units, if multiple family	1		b. Frame - Wood, Exterior	R=13.0	1024.00 ft ²
4. Number of Bedrooms	4		c. Frame - Wood, Adjacent	R=13.0	320.00 ft ²
5. Is this a worst case?	Yes		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	2784		10. Ceiling Types	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	1950.00 ft ²
a. U-Factor:	Dbl, U=0.60	229.00 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.32		c. N/A	R=	ft ²
b. U-Factor:	N/A	ft ²	11. Ducts		
SHGC:			a. Sup: Attic Ret: Interior AH: Interior Sup. R= 6, 352 ft ²		
c. U-Factor:	N/A	ft ²	12. Cooling systems (combined)		
SHGC:			a. Central Unit	Cap: 58 kBtu/hr	SEER: 14
d. U-Factor:	N/A	ft ²	13. Heating systems (combined)		
SHGC:			a. Electric Heat Pump	Cap: 58 kBtu/hr	HSPF: 8.32
e. U-Factor:	N/A	ft ²	14. Hot water systems		
SHGC:			a. Electric	Cap: 50 gallons	EF: 0.93
8. Floor Types	Insulation	Area	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	1790.00 ft ²	None		
b. Floor over Garage	R=19.0	160.00 ft ²	15. Credits		CV, Pstat
c. N/A	R=	ft ²			

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: [Signature] Date: 6-5-09

Address of New Home: 414 SW TIMBER RIDGE DR. City/FL Zip: LAKE CITY FL 32024



*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for 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 energygauge.com 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.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

Project Information

For: NANTUCKET 1 ST FLOOR

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Structure	31534 Btuh
Ducts	6771 Btuh
Central vent (50 cfm)	2024 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	40329 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1747	1747
Volume (ft³)	16336	16336
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	103	54

Heating Equipment Summary

Make TEMPSTAR
 Trade HEAT PUMP
 Model N4H336AKA

Efficiency	8.5 HSPF
Heating input	
Heating output	0 Btuh @ 47°F
Temperature rise	0 °F
Actual air flow	1240 cfm
Air flow factor	0.032 cfm/Btuh
Static pressure	0.60 in H2O
Space thermostat	

Sensible Cooling Equipment Load Sizing

Structure	17951 Btuh
Ducts	8403 Btuh
Central vent (50 cfm)	930 Btuh
Blower	0 Btuh

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	26465 Btuh

Latent Cooling Equipment Load Sizing

Structure	3114 Btuh
Ducts	1909 Btuh
Central vent (50 cfm)	1758 Btuh
Equipment latent load	6782 Btuh

Equipment total load	33247 Btuh
Req. total capacity at 0.78 SHR	2.8 ton

Cooling Equipment Summary

Make TEMPSTAR
 Trade HEAT PUMP
 Cond N4H336AKA
 Coil FEM4X3600

Efficiency	14 SEER
Sensible cooling	26988 Btuh
Latent cooling	7612 Btuh
Total cooling	34600 Btuh
Actual air flow	1240 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	0.80

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Project Information

For: NANTUCKET 1 ST FLOOR

Design Conditions

Location:

Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

33
-
-
15.0

Cooling

92
19 (M)
77
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
37
30
10.6

Cooling

75
17
50
52.0

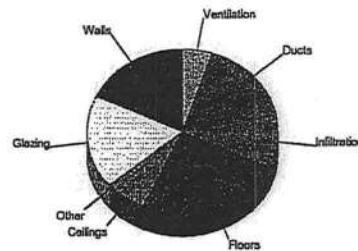
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
0

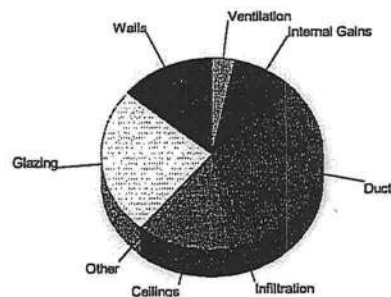
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.4	7209	17.9
Glazing	47.0	7377	18.3
Doors	14.4	548	1.4
Ceilings	1.8	2313	5.7
Floors	24.0	9898	24.5
Infiltration	2.3	4188	10.4
Ducts		6771	16.8
Piping		0	0.0
Humidification		0	0.0
Ventilation		2024	5.0
Adjustments		0	0.0
Total		40329	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.3	3781	13.9
Glazing	43.7	6854	25.1
Doors	11.4	432	1.6
Ceilings	2.6	3292	12.1
Floors	0.0	0	0.0
Infiltration	0.6	1013	3.7
Ducts		8403	30.8
Ventilation		930	3.4
Internal gains		2580	9.5
Blower		0	0.0
Adjustments		0	0.0
Total		27284	100.0



Overall U-value = 0.210 Btuh/ft²-°F

Data entries checked.

Duct System Summary
Entire House
Maronda Homes

Job:
Date: Aug 04, 2006
By: G.Carmack

4005 Maronda Way, Sanford, FL 32771 Phone: 407-321-0064

Project Information

For: NANTUCKET 1 ST FLOOR

	Heating	Cooling
External static pressure	0.60 in H2O	0.60 in H2O
Pressure losses	0.00 in H2O	0.00 in H2O
Available static pressure	0.60 in H2O	0.60 in H2O
Supply / return available pressure	0.48 / 0.12 in H2O	0.48 / 0.12 in H2O
Lowest friction rate	1.935 in/100ft	1.935 in/100ft
Actual air flow	1240 cfm	1240 cfm
Total effective length (TEL)	31 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
MASTER BDR	h 5637	200	200	1.935	7	x00	VIFx	25.0	0.0	st1
FAMILY	c 4616	200	200	4.839	7	x00	VIFx	10.0	0.0	st1
MASTER BATH	c 2432	100	100	3.226	5	x00	VIFx	15.0	0.0	st1
MASTER TIOLET	h 572	30	30	4.839	4	x00	VIFx	10.0	0.0	ST4
NOOK	h 4337	145	145	3.226	6	x00	VIFx	15.0	0.0	st1
KITCHEN	c 3688	145	145	4.839	6	x00	VIFx	10.0	0.0	st1
HALL BATH	c 829	30	30	9.677	4	x00	VIFx	5.0	0.0	st1
DINING/LIVING-A	h 3267	190	190	4.839	7	x00	VIFx	10.0	0.0	ST2
DINING/LIVING	h 3267	200	200	3.226	7	x00	VIFx	15.0	0.0	ST3

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	Rect Duct Size (in)	Duct Material	Trunk
st1	Peak AVF	820	820	1.935	669	0	20 x 9	VinIFlx	
ST2	Peak AVF	190	190	4.839	586	7	0 x 0	VinIFlx	
ST3	Peak AVF	200	200	3.226	586	7	0 x 0	VinIFlx	
ST4	Peak AVF	30	30	4.839	314	4	0 x 0	VinIFlx	

Bold/italic values have been manually overridden

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	RectSize (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	1240	1240	6.0	1.935	568	18	x0 0		VIFx	



Project Summary
Entire House
Maronda Homes

Job:
Date: Aug 04, 2006
By: G.Carmack

4005 Maronda Way, Sanford, FL 32771 Phone: 407-321-0064

Project Information

For: NANTUCKET 2ND FLOOR

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Structure	11605 Btuh
Ducts	2841 Btuh
Central vent (60 cfm)	2429 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	16874 Btuh

Sensible Cooling Equipment Load Sizing

Structure	12977 Btuh
Ducts	3601 Btuh
Central vent (60 cfm)	1116 Btuh
Blower	0 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft ²)	869	869
Volume (ft ³)	6952	6952
Air changes/hour	0.61	0.32
Equiv. AVF (cfm)	71	37

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	17163 Btuh

Latent Cooling Equipment Load Sizing

Structure	1304 Btuh
Ducts	793 Btuh
Central vent (60 cfm)	2109 Btuh
Equipment latent load	4206 Btuh

Equipment total load	21369 Btuh
Req. total capacity at 0.76 SHR	1.9 ton

Heating Equipment Summary

Make TEMPSTAR
Trade HEAT PUMP
Model N4H324AKA

Efficiency	8.5 HSPF
Heating input	0 Btuh @ 47°F
Heating output	0 °F
Temperature rise	724 cfm
Actual air flow	0.050 cfm/Btuh
Air flow factor	0.60 in H2O
Static pressure	
Space thermostat	

Cooling Equipment Summary

Make TEMPSTAR
Trade HEAT PUMP
Cond N4H324AKA
Coil FEM4X2400

Efficiency	14 SEER
Sensible cooling	17480 Btuh
Latent cooling	5520 Btuh
Total cooling	23000 Btuh
Actual air flow	724 cfm
Air flow factor	0.044 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	0.81

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.



wrightsoft

Right-Suite Residential 6.0.90 RSR21115

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Page 1

Project Information

For: NANTUCKET 2ND FLOOR

Design Conditions

Location:

Gainesville, FL, US
Elevation: 151 ft
Latitude: 30°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

33
-
-
15.0

Cooling

92
19 (M)
77
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
37
30
10.6

Cooling

75
17
50
52.0

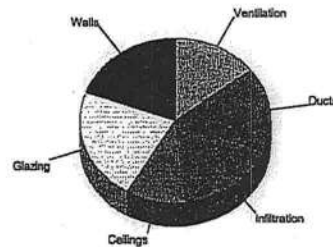
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
0

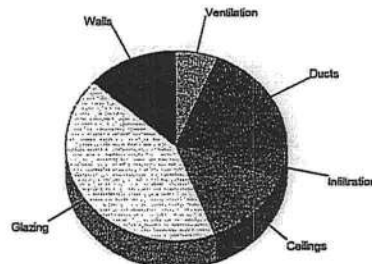
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.6	3273	19.4
Glazing	47.0	3759	22.3
Doors	0.0	0	0.0
Ceilings	1.8	1711	10.1
Floors	0.0	0	0.0
Infiltration	2.9	2861	17.0
Ducts		2841	16.8
Piping		0	0.0
Humidification		0	0.0
Ventilation		2429	14.4
Adjustments		0	0.0
Total		16874	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.6	2366	13.4
Glazing	93.6	7485	42.3
Doors	0.0	0	0.0
Ceilings	2.6	2435	13.8
Floors	0.0	0	0.0
Infiltration	0.7	690	3.9
Ducts		3601	20.4
Ventilation		1116	6.3
Internal gains		0	0.0
Blower		0	0.0
Adjustments		0	0.0
Total		17694	100.0



Overall U-value = 0.122 Btuh/ft²-°F

Data entries checked.

Duct System Summary

Entire House

Maronda Homes

Job:

Date: Aug 04, 2006

By: G.Carmack

4005 Maronda Way, Sanford, FL 32771 Phone: 407-321-0064

Project Information

For: NANTUCKET 2ND FLOOR

	Heating	Cooling
External static pressure	0.60 in H ₂ O	0.60 in H ₂ O
Pressure losses	0.00 in H ₂ O	0.00 in H ₂ O
Available static pressure	0.60 in H ₂ O	0.60 in H ₂ O
Supply / return available pressure	0.43 / 0.17 in H ₂ O	0.43 / 0.17 in H ₂ O
Lowest friction rate	2.857 in/100ft	2.857 in/100ft
Actual air flow	724 cfm	724 cfm
Total effective length (TEL)	21 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BDR #3	c 3983	140	140	4.286	6	x0	VIFx	10.0	0.0	ST3
BDR #2	c 3871	200	200	2.857	7	x0	VIFx	15.0	0.0	st4
UPSTAIRS BATH	h 673	24	24	4.286	4	x0	VIFx	10.0	0.0	ST2
BDR #4	h 2239	180	180	8.571	7	x0	VIFx	5.0	0.0	st1
BDR #5	c 3830	180	180	4.286	7	x0	VIFx	10.0	0.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	Rect Duct Size (in)	Duct Material	Trunk
st1	Peak AVF	360	360	4.286	624	10	0 x 0	VinIFlx	
ST2	Peak AVF	24	24	4.286	547	4	0 x 0	VinIFlx	
ST3	Peak AVF	140	140	4.286	550	6	0 x 0	VinIFlx	
st4	Peak AVF	200	200	2.857	699	7	0 x 0	VinIFlx	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	RectSize (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	724	724	6.0	2.857	677	16	x0 0		VIFx	

Bold/italic values have been manually overridden

Certificate of ARI-Certified Performance

The following

Split System: Heat Pump with Remote Outdoor Unit-Air-Source

Outdoor Unit Model Number: N4H336A(G)KB*

combined with

Indoor Unit Model Number: FEM4X36****

Manufactured by: TEMPSTAR

under the Trade/Brand name: 13 SEER N SERIES R410A HP

has been rated in accordance with

ARI Standard 210/240-2006 for UNITARY AIR-CONDITIONING AND AIR-SOURCE HEAT PUMP EQUIPMENT

and is certified by the Air-Conditioning, Heating, and Refrigeration Institute to meet

the following product performance ratings:

Cooling Capacity (Btuh):	34800
EER Rating (Cooling):	11.50
SEER Rating (Cooling):	14.00
Heating Capacity(Btuh) @ 47 F:	33800
Region IV HSPF Rating (Heating):	8.20
Heating Capacity(Btuh) @ 17 F:	21800

A * following a rating indicates a voluntary rerate of previously published data, unless accompanied with a WAS which indicates an involuntary rerate.



ARI Reference #: 1350500

Today's Date: 3/22/2009

Status: Active

CERTIFIED RATINGS ARE VALID ONLY FOR THE PARTICULAR COMBINATION OF INDOOR AND OUTDOOR UNITS LISTED IN THE AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE'S DIRECTORY OF CERTIFIED EQUIPMENT. VISIT WWW.AHRIDIRECTORY.ORG TO VERIFY THAT THIS COMBINATION IS AN ACTIVE LISTING AND THE DATA LISTED ON THIS CERTIFICATE IS ACCURATE. SEARCH ON THE ARI REFERENCE # TO QUICKLY LOCATE THIS COMBINATION IN THE DIRECTORY.

TERMS AND CONDITIONS

This Certificate shall be used for individual, personal, and confidential reference purposes only, and may be used only pursuant to the terms and conditions listed. This Certificate and the contents hereof are proprietary products of AHRI. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference. Contained herein are product information and certified ratings. AHRI does not endorse the product(s) listed in this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed in this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data, listed in this Certificate.

Certificate of ARI-Certified Performance

The following

Split System: Heat Pump with Remote Outdoor Unit-Air-Source

Outdoor Unit Model Number: N4H324A(G)KA*

combined with

Indoor Unit Model Number: FEM4X24****

Manufactured by: TEMPSTAR

under the Trade/Brand name: 13 SEER N SERIES R410A HP

has been rated in accordance with

ARI Standard 210/240-2006 for UNITARY AIR-CONDITIONING AND AIR-SOURCE HEAT PUMP EQUIPMENT

and is certified by the Air-Conditioning, Heating, and Refrigeration Institute to meet

the following product performance ratings:

Cooling Capacity (Btuh): 23000

EER Rating (Cooling): 11.50

SEER Rating (Cooling): 14.00

Heating Capacity(Btuh) @ 47 F: 23800

Region IV HSPF Rating (Heating): 8.50

Heating Capacity(Btuh) @ 17 F: 14600

A * following a rating indicates a voluntary rerate of previously published data, unless accompanied with a WAS which indicates an involuntary rerate.



ARI Reference #: 1473588

Today's Date: 3/22/2009

Status: Active

CERTIFIED RATINGS ARE VALID ONLY FOR THE PARTICULAR COMBINATION OF INDOOR AND OUTDOOR UNITS LISTED IN THE AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE'S DIRECTORY OF CERTIFIED EQUIPMENT. VISIT WWW.AHRIDIRECTORY.ORG TO VERIFY THAT THIS COMBINATION IS AN ACTIVE LISTING AND THE DATA LISTED ON THIS CERTIFICATE IS ACCURATE. SEARCH ON THE ARI REFERENCE # TO QUICKLY LOCATE THIS COMBINATION IN THE DIRECTORY.

TERMS AND CONDITIONS

This Certificate shall be used for individual, personal, and confidential reference purposes only, and may be used only pursuant to the terms and conditions listed. This Certificate and the contents hereof are proprietary products of AHRI. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference. Contained herein are product information and certified ratings. AHRI does not endorse the product(s) listed in this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed in this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data, listed in this Certificate.

PRODUCT APPROVAL INFORMATION SHEET FOR THE CITY OF JACKSONVILLE, FLORIDA

Project Name:

Maronda Homes inc of Florida

Permit No:

Subdivision:

TIMBERLANDS

Lot: **15**

Block: **1**

Date: **5/15/09**

Project Address:

414 SW TIMBER RIDGE DR.

LAKE CITY FL

32024

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and product approval number(s) for the building components listed below as applicable to the building construction project for the permit number listed above. You should contact your product supplier if you do not know your product approval number for any of the applicable listed products. Information regarding statewide product approval may be obtained at: www.floridabuilding.org.

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State #	Local #
A. EXTERIOR DOORS					
1. Swinging	Plastpro Inc./ Nanya Plastics Corp.	Fiberglass Dr Single Fiberglass Dr w/ Sidelite Fiberglass Dr w/ Dbl Sidelite Fiberglass Dr Single Glazed	Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ACSE 7 Minimum Design Loads For Building and Other Structures	FL 6814.1 FL 6814.3 FL 6814.5 FL 6729.1	
2. Sliding	Simonton Windows Florida Extruders	Sliding Glass Doors	500 72x80 SGD-R45 Milestone 1000 SGD	FL 5979.1 FL 8409.2	
3. Sectional					
4. Roll Up	Wayne Dalton Corp.	Garage Doors 130 10'-16' 9110/5102 8'-9' Garage Doors 140 10'-16' 9110/5102 8'-9'	As indicated in evaluation report and installation drawings. Not to be used in HVHZ	FL 9174.3 FL 9174.1 FL 9174.6 FL 9174.5 FL 9174.4	
B. WINDOWS					
1. Single Hung	Florida Extruders	Milestone Series 1000	83"x84" Max. windows have not been evaluated for use in High Velocity Hurricane Zones	FL 9262.2 FL 9236.1	
2. Horizontal Slider	Florida Extruders	Milestone Series 1000	74"x72 XO/OX" Max. windows have not been evaluated for use in High Velocity Hurricane Zones	FL 9236.1	
3. Casement					
4. Double Hung					
5. Fixed	Florida Extruders	Milestone Series 1000	73"x37" Max. windows have not been evaluated for use in High Velocity Hurricane Zones	FL 9242.2	
6. Awning					
7. Pass-through					
8. Projected					



9. Mullion	Florida Extruders	Milestone Tube Mull	Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ACSE 7 Minimum Design Loads For Building and Other Structures	FL 3136-R3	
10. Wind Breaker					
11. Dual Action					
12. Other					
C. PANEL WALL					
1. Siding					
2. Soffit	AlSCO Metal Corp	Quad 4 Aluminum Soffit System	For use as Soffit only. Not for use in High Velocity Hurricane Zones	FL 4459-R1	
D. ROOFING PRODUCTS					
1. Asphalt Shingles	Owens Corning	Asphalt Shingles	This approval not for use in the HVAZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed	FL 10674-R1	
2. Underlayments					
3. Roofing Fasteners	Black Warrior Roofing	15# Felt Paper		FL 2077	
4. Nonstructural Metal Roof					
5. Build-up Roof					
6. Modified Butmen					
7. Single Ply Roof					
8. Roofing Tiles					
9. Roofing Insulation					
10. Waterproofing					
11. Wood Shingle/Shakes					
12. Roofing Slate					
13. Liquid Applied Roofing					
14. Cement Adhesive Coats					
15. Roof Tile Adhesive					
16. Spray applied Polyurethane Roof					
17. Roof Vents	Lamanco	Off Ridge Vent	This approval not for use in the HVAZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed	FL 3792-R3	
E. SHUTTERS					
1. Storm Panels					

F. STRUCTURAL COMPONENTS

1. Wood Connectors/Anchors	United Steel Products	Anchors, Hangers, etc Structural Components Wood Connectors	Subject to limitation and installation instructions specified in NOA 05- 0105-05.	565-R3, 567- R3, 568-R2, 569-R3, 570- R2, 571-R2, 574-R2, 576- R3, 578-R2, 815-R1, 816- R1, 817-R1, 819-R1, 820- R2, 821-R1, 822-R1, 859- R4, 1247-R1, 2033-R2, 4928-R1, 5631-R1, 9835-R1, 10739, 11664, 11748, 11838, 11910	
2. Truss Planes	Mitek Industries, Inc.	Truss Connectors	No Limitation of Use	FL 2197-R1	
3. Engineered Lumber					
4. Railing					
5. Coolers-Freezers					
6. Concrete admixtures					
7. Material					
8. Insulation Forms					
9. Plastics					
10. Deck-Roof					
11. Wall					
12. Shed					
13. Other	Power Steel Inc.	Psbox8 Psbox8 (5-5/8)	Limits shall not exceed the affordable design load and spans. The lintels shall not be uses in a fire resistance rated assembly. A proper barrier is required when using corrosive lumber products in contact with the steel lintels. Not for use in HVHZ Miami or Broward counties at this time		
G. Skylights					
1. Skylights					
2. Other					
H. New Exterior Envelope Products					
1					
2					

In addition to completing the above list of manufactures, product description and State approval number for the products used on this project. It is the Contractor's or Authorized Agent's responsibility to have a legible copy of each manufacturer's printed instructions, along with the list above on the job site available to the inspector.

The products listed below did not demonstrate product approval at time of plan review. I understand that before these products can be inspected, they must be submitted for review for code compliance and approved by a Plans Examiner. This form will be revised to include each new product in the categories listed above and will be highlighted to indicate the new products and required information.

Authorized Project Agent: KENNETH WAYNE CAMPBELL JR. (Signature)
(Contractor or Design Professional) (Print Name)

Company Name:

Maronda Homes Inc of Florida

Mailing Address:

6800 South Point Pkwy Ste 300

City:

Jacksonville

State: Florida

Zip Code: 32216

Telephone Number:
Cell Phone Number:

(904) 296-1490

Fax Number:

(904) 332-6375

E-Mail Address:

the Cyberbox
In-U-Vare Technologies, Inc.

- ✓ Saves Space
- ✓ Saves Energy
- ✓ Reduces Fire Hazard

In-Vare Technologies, Inc.


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 Publishing Division
 1221 Avenue of the Americas
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 Tel: 212 512 2000
 Fax: 212 512 2050
 E-mail: mcgraw-hill@mcgraw-hill.com

Installation Instructions

- [illegible]

(staff, rural lines & cable/telco)



**Ceiling
void left
them
rounder**

Zip back cut drywall and then
ceals (preferred) or mud

Model 425
(4 1/2" Base)

AXK
 DVB 425
 700-426
 R 101000
 PCB413

5171500141

Locate a distributor near you by using our
 Online Store Locator at www.drydenox.com

Postmarked By:
 1010 N. 1st St., Suite 200, Inc.
 1010 N. 1st St., Suite 200, Inc.
 1010 N. 1st St., Suite 200, Inc.
 1010 N. 1st St., Suite 200, Inc.

Rabbi's Office:
 (888) 443-7397
 www.dryetox.com

More info at www.dryetox.com

READ AND SAVE THESE INSTRUCTIONS

BROWN

To register this product visit
www.brian.com

TRAINING

TO REDUCE THE RISK OF HIV, EFFICACIOUS AND TO PENIS, OBSERVE THE FOLLOWING:

1. Use the word *only* to reserve the benefit of the doubt for the person who is accused.
2. Do not provide a *double negative*, which is provided at sentence 2. The sentence is not correct because it is a double negative. The sentence is not correct because it is a double negative.
3. Do not use the word *only* to reserve the benefit of the doubt for the person who is accused.
4. Do not use the word *only* to reserve the benefit of the doubt for the person who is accused.
5. Do not use the word *only* to reserve the benefit of the doubt for the person who is accused.
6. Do not use the word *only* to reserve the benefit of the doubt for the person who is accused.
7. Do not use the word *only* to reserve the benefit of the doubt for the person who is accused.
8. Do not use the word *only* to reserve the benefit of the doubt for the person who is accused.
9. Do not use the word *only* to reserve the benefit of the doubt for the person who is accused.
10. Do not use the word *only* to reserve the benefit of the doubt for the person who is accused.

CAUTION

1. For power handling use only. Do not use to extend the Vapors.
2. To avoid overheating damage and injury and/or unstable coordination data, etc. do power only.
3. Please read specification sheet on product for further details.

DISCONNECT ELECTRIC POWER BAYS
W/CMAD THE UNIT.

[illegible]

INSTALLATION

[illegible][illegible]

6. Add 200 µl of 10% formalin to each sample. Mix thoroughly. Seal the container and store at 4°C until needed.
7. Prepare the tissue as follows:
 - a. Cut the tissue into 1 mm³ cubes.
 - b. Wash the cubes in PBS for 1 hr.
 - c. Wash the cubes in PBS for 1 hr.
 - d. Wash the cubes in PBS for 1 hr.
 - e. Wash the cubes in PBS for 1 hr.
 - f. Wash the cubes in PBS for 1 hr.
 - g. Wash the cubes in PBS for 1 hr.
 - h. Wash the cubes in PBS for 1 hr.
 - i. Wash the cubes in PBS for 1 hr.
 - j. Wash the cubes in PBS for 1 hr.
 - k. Wash the cubes in PBS for 1 hr.
 - l. Wash the cubes in PBS for 1 hr.
 - m. Wash the cubes in PBS for 1 hr.
 - n. Wash the cubes in PBS for 1 hr.
 - o. Wash the cubes in PBS for 1 hr.
 - p. Wash the cubes in PBS for 1 hr.
 - q. Wash the cubes in PBS for 1 hr.
 - r. Wash the cubes in PBS for 1 hr.
 - s. Wash the cubes in PBS for 1 hr.
 - t. Wash the cubes in PBS for 1 hr.
 - u. Wash the cubes in PBS for 1 hr.
 - v. Wash the cubes in PBS for 1 hr.
 - w. Wash the cubes in PBS for 1 hr.
 - x. Wash the cubes in PBS for 1 hr.
 - y. Wash the cubes in PBS for 1 hr.
 - z. Wash the cubes in PBS for 1 hr.

[illegible]

REVISIONS :

Copyright © 2002 Maronda Homes

Maronda Homes

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

EXHAUST DETAILS	
2 of 2	
RELEASE DATE:	

END

SHEET:

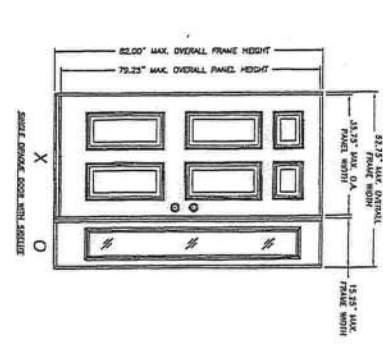
MAN YA PLASTICS CORP.
PLASTPRO INC.
 9 PEACH TREE HILL ROAD
 LIVINGSTON, NEW JERSEY 07039
 PH: 800-779-0361 FAX: 973-781-0001

DISTINCTION SERIES
30" x 68" OPAQUE FIBERGLASS DOOR
WITH SIDELITE
LIP LITE SCREW FRAME
INSWING / OUTSWING

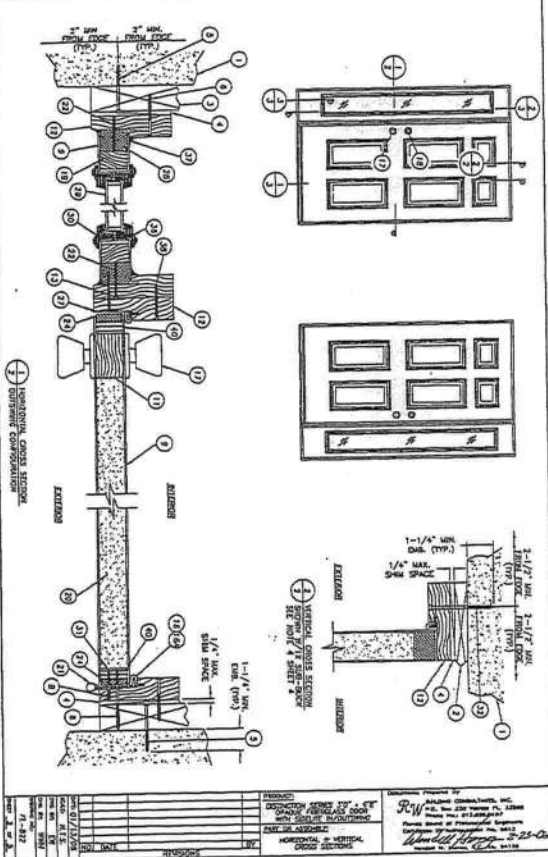
- GENERAL NOTES**
- THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE BUILDING CODE EXCEPTING THE 1/2" VERTICAL HURRICANE RESISTANCE.
 - DO NOT EXCEED THE MAXIMUM WEIGHT AND SIZE AS SHOWN ON THE DRAWING. EXCEEDING THESE LIMITS MAY VOID THE WARRANTY.
 - DO NOT EXCEED THE MAXIMUM WEIGHT AND SIZE AS SHOWN ON THE DRAWING. EXCEEDING THESE LIMITS MAY VOID THE WARRANTY.
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SHEET	DESCRIPTION
1	FRONT ELEVATION
2	BACK ELEVATION
3	SECTION A-A
4	SECTION B-B
5	SECTION C-C
6	SECTION D-D
7	SECTION E-E
8	SECTION F-F
9	SECTION G-G
10	SECTION H-H
11	SECTION I-I
12	SECTION J-J
13	SECTION K-K
14	SECTION L-L
15	SECTION M-M
16	SECTION N-N
17	SECTION O-O
18	SECTION P-P
19	SECTION Q-Q
20	SECTION R-R
21	SECTION S-S
22	SECTION T-T
23	SECTION U-U
24	SECTION V-V
25	SECTION W-W
26	SECTION X-X
27	SECTION Y-Y
28	SECTION Z-Z
29	SECTION AA-AA
30	SECTION BB-BB
31	SECTION CC-CC
32	SECTION DD-DD
33	SECTION EE-EE
34	SECTION FF-FF
35	SECTION GG-GG
36	SECTION HH-HH
37	SECTION II-II
38	SECTION JJ-JJ
39	SECTION KK-KK
40	SECTION LL-LL
41	SECTION MM-MM
42	SECTION NN-NN
43	SECTION OO-OO
44	SECTION PP-PP
45	SECTION QQ-QQ
46	SECTION RR-RR
47	SECTION SS-SS
48	SECTION TT-TT
49	SECTION UU-UU
50	SECTION VV-VV
51	SECTION WW-WW
52	SECTION XX-XX
53	SECTION YY-YY
54	SECTION ZZ-ZZ
55	SECTION AA-AA
56	SECTION BB-BB
57	SECTION CC-CC
58	SECTION DD-DD
59	SECTION EE-EE
60	SECTION FF-FF
61	SECTION GG-GG
62	SECTION HH-HH
63	SECTION II-II
64	SECTION JJ-JJ
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66	SECTION LL-LL
67	SECTION MM-MM
68	SECTION NN-NN
69	SECTION OO-OO
70	SECTION PP-PP
71	SECTION QQ-QQ
72	SECTION RR-RR
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74	SECTION TT-TT
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95	SECTION OO-OO
96	SECTION PP-PP
97	SECTION QQ-QQ
98	SECTION RR-RR
99	SECTION SS-SS
100	SECTION TT-TT

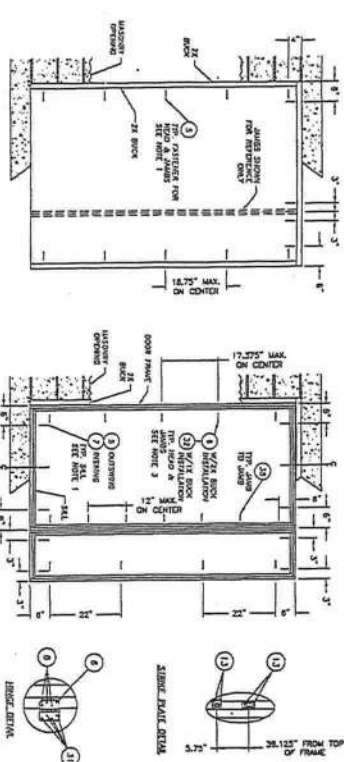
TYPE	OUTSIDE DIMENSION	GLASS TYPE	GLASS WEIGHT (LBS)	GLASS WEIGHT (KG)
INSWING	68.00"	1/2" TINTED	100.0	45.4
OUTSWING	68.00"	1/2" TINTED	100.0	45.4



REVISIONS	DATE	DESCRIPTION
1	01/15/08	ISSUED FOR CONSTRUCTION
2	02/15/08	REVISED TO ADD SECTION A-A
3	03/15/08	REVISED TO ADD SECTION B-B
4	04/15/08	REVISED TO ADD SECTION C-C
5	05/15/08	REVISED TO ADD SECTION D-D
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18	06/15/09	REVISED TO ADD SECTION Q-Q
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20	08/15/09	REVISED TO ADD SECTION S-S
21	09/15/09	REVISED TO ADD SECTION T-T
22	10/15/09	REVISED TO ADD SECTION U-U
23	11/15/09	REVISED TO ADD SECTION V-V
24	12/15/09	REVISED TO ADD SECTION W-W
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37	01/15/11	REVISED TO ADD SECTION JJ-JJ
38	02/15/11	REVISED TO ADD SECTION KK-KK
39	03/15/11	REVISED TO ADD SECTION LL-LL
40	04/15/11	REVISED TO ADD SECTION MM-MM
41	05/15/11	REVISED TO ADD SECTION NN-NN
42	06/15/11	REVISED TO ADD SECTION OO-OO
43	07/15/11	REVISED TO ADD SECTION PP-PP
44	08/15/11	REVISED TO ADD SECTION QQ-QQ
45	09/15/11	REVISED TO ADD SECTION RR-RR
46	10/15/11	REVISED TO ADD SECTION SS-SS
47	11/15/11	REVISED TO ADD SECTION TT-TT
48	12/15/11	REVISED TO ADD SECTION UU-UU
49	01/15/12	REVISED TO ADD SECTION VV-VV
50	02/15/12	REVISED TO ADD SECTION WW-WW
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97	01/15/16	REVISED TO ADD SECTION RR-RR
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44	08/15/11	REVISED TO ADD SECTION QQ-QQ
45	09/15/11	REVISED TO ADD SECTION RR-RR
46	10/15/11	REVISED TO ADD SECTION SS-SS
47	11/15/11	REVISED TO ADD SECTION TT-TT
48	12/15/11	REVISED TO ADD SECTION UU-UU
49	01/15/12	REVISED TO ADD SECTION VV-VV
50	02/15/12	REVISED TO ADD SECTION WW-WW
51	03/15/12	REVISED TO ADD SECTION XX-XX
52	04/15/12	REVISED TO ADD SECTION YY-YY
53	05/15/12	REVISED TO ADD SECTION ZZ-ZZ
54	06/15/12	REVISED TO ADD SECTION AA-AA
55	07/15/12	REVISED TO ADD SECTION BB-BB
56	08/15/12	REVISED TO ADD SECTION CC-CC
57	09/15/12	REVISED TO ADD SECTION DD-DD
58	10/15/12	REVISED TO ADD SECTION EE-EE
59	11/15/12	REVISED TO ADD SECTION FF-FF
60	12/15/12	REVISED TO ADD SECTION GG-GG
61	01/15/13	REVISED TO ADD SECTION HH-HH
62	02/15/13	REVISED TO ADD SECTION II-II
63	03/15/13	REVISED TO ADD SECTION JJ-JJ
64	04/15/13	REVISED TO ADD SECTION KK-KK
65	05/15/13	REVISED TO ADD SECTION LL-LL
66	06/15/13	REVISED TO ADD SECTION MM-MM
67	07/15/13	REVISED TO ADD SECTION NN-NN
68	08/15/13	REVISED TO ADD SECTION OO-OO
69	09/15/13	REVISED TO ADD SECTION PP-PP
70	10/15/13	REVISED TO ADD SECTION QQ-QQ
71	11/15/13	REVISED TO ADD SECTION RR-RR
72	12/15/13	REVISED TO ADD SECTION SS-SS
73	01/15/14	REVISED TO ADD SECTION TT-TT
74	02/15/14	REVISED TO ADD SECTION UU-UU
75	03/15/14	REVISED TO ADD SECTION VV-VV
76	04/15/14	REVISED TO ADD SECTION WW-WW
77	05/15/14	REVISED TO ADD SECTION XX-XX
78	06/15/14	REVISED TO ADD SECTION YY-YY
79	07/15/14	REVISED TO ADD SECTION ZZ-ZZ
80	08/15/14	REVISED TO ADD SECTION AA-AA
81	09/15/14	REVISED TO ADD SECTION BB-BB
82	10/15/14	REVISED TO ADD SECTION CC-CC
83	11/15/14	REVISED TO ADD SECTION DD-DD
84	12/15/14	REVISED TO ADD SECTION EE-EE
85	01/15/15	REVISED TO ADD SECTION FF-FF
86	02/15/15	REVISED TO ADD SECTION GG-GG
87	03/15/15	REVISED TO ADD SECTION HH-HH
88	04/15/15	REVISED TO ADD SECTION II-II
89	05/15/15	REVISED TO ADD SECTION JJ-JJ
90	06/15/15	REVISED TO ADD SECTION KK-KK
91	07/15/15	REVISED TO ADD SECTION LL-LL
92	08/15/15	REVISED TO ADD SECTION MM-MM
93	09/15/15	REVISED TO ADD SECTION NN-NN
94	10/15/15	REVISED TO ADD SECTION OO-OO
95	11/15/15	REVISED TO ADD SECTION PP-PP
96	12/15/15	REVISED TO ADD SECTION QQ-QQ
97	01/15/16	REVISED TO ADD SECTION RR-RR
98	02/15/16	REVISED TO ADD SECTION SS-SS
99	03/15/16	REVISED TO ADD SECTION TT-TT
100	04/15/16	REVISED TO ADD SECTION UU-UU



- NOTES**
1. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 2. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
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 11. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 12. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 13. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 14. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 15. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 16. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 17. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 18. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 19. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 20. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 21. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 22. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 23. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 24. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 25. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 26. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 27. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 28. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 29. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 30. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 31. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
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 34. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 35. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 36. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 37. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 38. 1/2" TINTED GLASS REQUIRED. A MINIMUM 2" CLEARANCE TO ADJACENT STRUCTURE IS REQUIRED.
 39. 1/2"

NAN YA PLASTICS CORP.

PLASTIPRO INC.

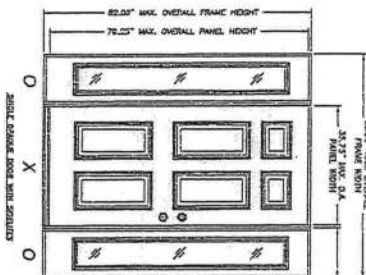
9 PEACH TREE HILL ROAD
LIVINGSTON, NEW JERSEY 07039
PH: 800-778-0581 FAX: 973-708-4001

DISTINCTION SERIES 30" x 68" OPAQUE FIBERGLASS DOOR WITH SIDELITES LIP LITE SCREW FRAME INSWING / OUTSWING

GENERAL NOTES

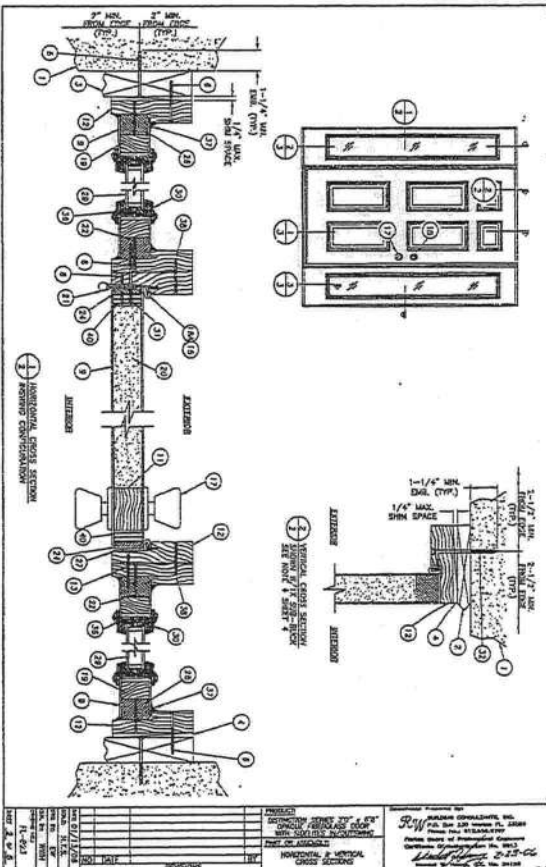
1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE LATEST BUILDING CODE EXCEPTING THE "NON VITICITY" REQUIREMENT.
2. PROTECT ADJACENT SURFACES FROM DAMAGE AND SPILLS BY APPLYING A PROTECTANT TO THE SURFACES OF THE DOOR AND SIDELITE.
3. PROTECT ADJACENT SURFACES FROM DAMAGE AND SPILLS BY APPLYING A PROTECTANT TO THE SURFACES OF THE DOOR AND SIDELITE.
4. PROTECT ADJACENT SURFACES FROM DAMAGE AND SPILLS BY APPLYING A PROTECTANT TO THE SURFACES OF THE DOOR AND SIDELITE.
5. PROTECT ADJACENT SURFACES FROM DAMAGE AND SPILLS BY APPLYING A PROTECTANT TO THE SURFACES OF THE DOOR AND SIDELITE.
6. PROTECT ADJACENT SURFACES FROM DAMAGE AND SPILLS BY APPLYING A PROTECTANT TO THE SURFACES OF THE DOOR AND SIDELITE.

ITEM	DESCRIPTION	QUANTITY
1	DOOR	1
2	SIDELITE	2
3	DOOR	1
4	SIDELITE	2
5	DOOR	1
6	SIDELITE	2

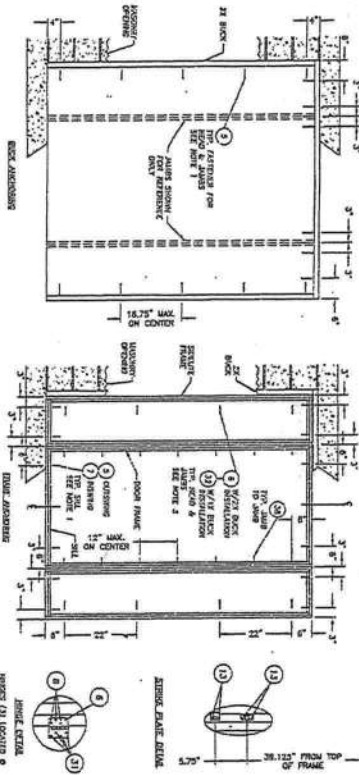


ITEM	DESCRIPTION	QUANTITY
1	DOOR	1
2	SIDELITE	2
3	DOOR	1
4	SIDELITE	2
5	DOOR	1
6	SIDELITE	2

ITEM	DESCRIPTION	QUANTITY
1	DOOR	1
2	SIDELITE	2
3	DOOR	1
4	SIDELITE	2
5	DOOR	1
6	SIDELITE	2

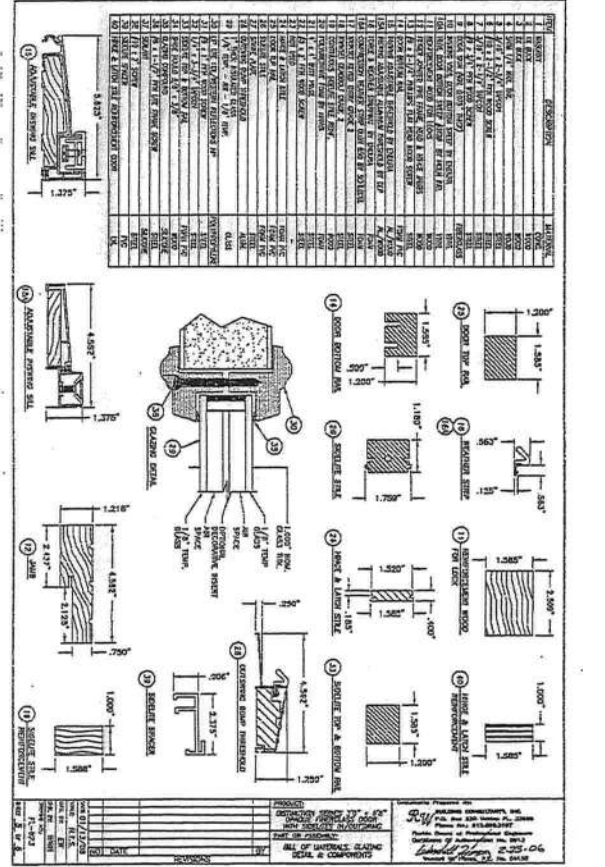


ITEM	DESCRIPTION	QUANTITY
1	DOOR	1
2	SIDELITE	2
3	DOOR	1
4	SIDELITE	2
5	DOOR	1
6	SIDELITE	2



1. 3/4" TYPICAL SPACING TO ADJACENT WALLS AND A MINIMUM 3/4" CLEARANCE TO ADJACENT WALLS.
2. 1/4" TYPICAL SPACING TO ADJACENT WALLS AND A MINIMUM 3/4" CLEARANCE TO ADJACENT WALLS.
3. 1/4" TYPICAL SPACING TO ADJACENT WALLS AND A MINIMUM 3/4" CLEARANCE TO ADJACENT WALLS.
4. 1/4" TYPICAL SPACING TO ADJACENT WALLS AND A MINIMUM 3/4" CLEARANCE TO ADJACENT WALLS.
5. 1/4" TYPICAL SPACING TO ADJACENT WALLS AND A MINIMUM 3/4" CLEARANCE TO ADJACENT WALLS.
6. 1/4" TYPICAL SPACING TO ADJACENT WALLS AND A MINIMUM 3/4" CLEARANCE TO ADJACENT WALLS.

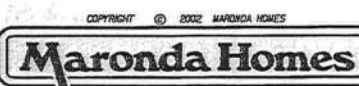
ITEM	DESCRIPTION	QUANTITY
1	DOOR	1
2	SIDELITE	2
3	DOOR	1
4	SIDELITE	2
5	DOOR	1
6	SIDELITE	2



ITEM	DESCRIPTION	QUANTITY
1	DOOR	1
2	SIDELITE	2
3	DOOR	1
4	SIDELITE	2
5	DOOR	1
6	SIDELITE	2

FIBERGLASS EXTERIOR DOORS IN SWING / OUT SWING DOOR WITH (TWO) SIDELITES

RELEASE DATE: 09/02/08



14071 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

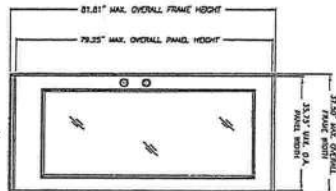
REVISIONS	DESCRIPTION
1	DOOR
2	SIDELITE
3	DOOR
4	SIDELITE
5	DOOR
6	SIDELITE

Florida Product Approval #6184.5

FD-2

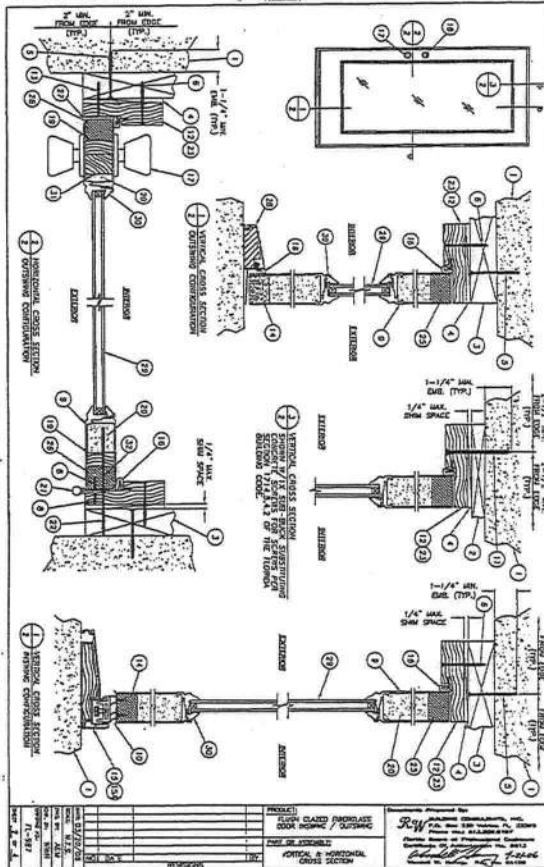
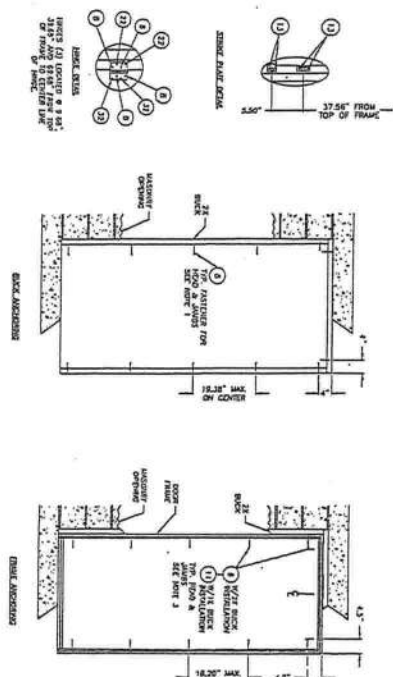
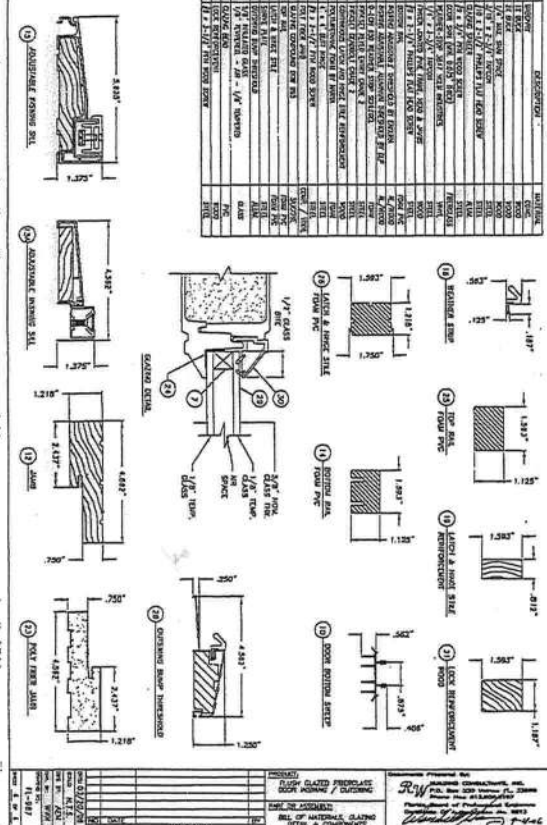
DISTINCTION SERIES
30" x 68" FLUSH GLAZED
FIBERGLASS DOOR
INSWING / OUTSWING
"NON-IMPACT"

TABLE 1	
LIST OF CONTIGS	
Contig #	Sequence
1	TRICHL. GLABRATA (GENE) PESTICIDATE & GUTTERAL MOTTS
2	TRICHL. & MONOTRICH. GUTTERAL MOTTS
3	TRICHL. & TRICHL. MONOTRICH.
4	TRICHL. & MONOTRICH. GUTTERAL MOTTS



TIME	FRACTION OF DROPLETS COLLAPSED	CLASS TIME	EXPOSED PISTON (mm)	
			POSITIVE	NEGATIVE
33.50"	26.15"	1/8" ELAPSED	+110.0	-60.0
INTERVAL	81.81"	65.15"	- AIR -	
33.50"	38.33"	1/8" ELAPSED	+120.0	-50.0
OUTGOING	80.15"	63.92"		

DRAWING NO. DATE SCALE SHEET NO.		PROJECT FURNISH GLASS / FRIGGLASS DOOR INSIDE / OUTSIDE		DRAWING NUMBER R.W. P.O. Box 238, Mountain View, CA 94039 PHONE (415) 947-1000	
DESIGNED BY CHECKED BY APPROVED BY		PART OR ASSEMBLY TYPICAL ELEVATION, DESIGN SPECIFICATIONS & GENERAL NOTES		DRAWING DATE 2-21-86	
PROJECT NAME PROJECT ADDRESS PROJECT CITY PROJECT STATE PROJECT ZIP		PROJECT DATE PROJECT LOCATION		PROJECT NO. PROJECT NO.	

[illegible][illegible][illegible][illegible]

Florida Product Approval #6729.1

FD-4

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Maronda Homes

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

REVISIONS :

FIBERGLASS EXTERIOR DOORS
IN SWING / OUT SWING DOOR
GLAZED DOOR

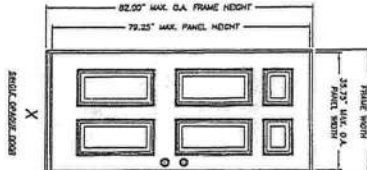
RELEASE DATE: 09/02/08

9 PEACH TREE HILL ROAD
LIVINGSTON, NEW JERSEY 07039
PH: 800-779-0561 FAX: 973-768-4001

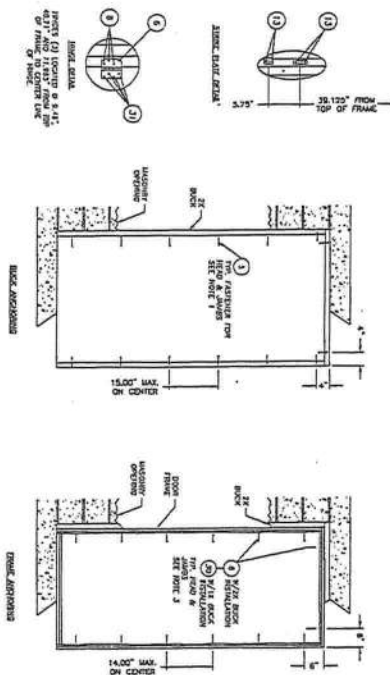
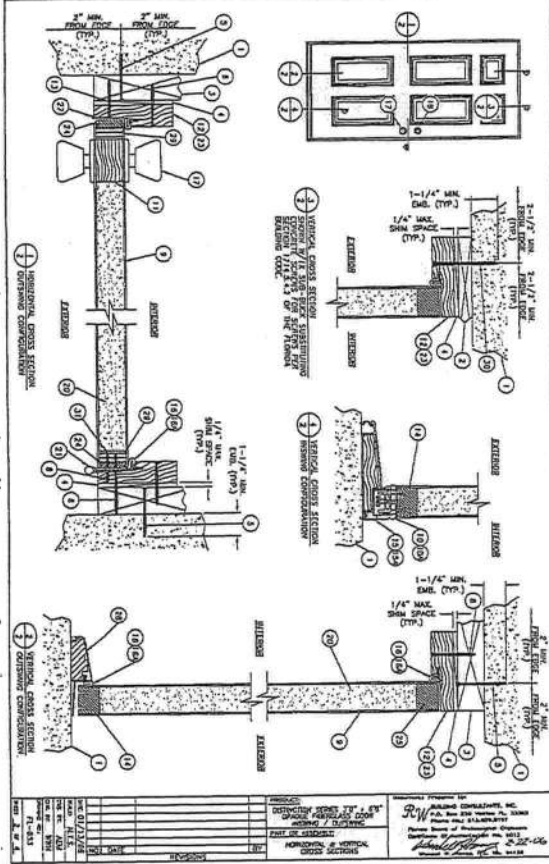
DISTINCTION SERIES
3'0" x 6'8" OPAQUE FIBERGLASS DOOR
IN SWING / OUT SWING

- [illegible]

Sheet /	DESCRIPTION
1	TYPICAL ELEVATION, DESIGN PARAMETERS & GENERAL NOTES
2	HORIZONTAL & VERTICAL CROSS SECTIONS
3	BACK & FILL PLAN
4	LIST OF MATERIALS & COMPONENTS



TIME	OVERALL FRAME CONDITION	CROWN PRESSURE (PSI)	
		POSITIVE	NEGATIVE
WINDING	37.50" x 81.00"	+85.0	-70.0
OUTWIND	37.50" x 80.31"	+85.0	-65.0

[illegible][illegible][illegible]

DISTINGUISH MARKS 70" x 54" OPAL GLASS DOOR HINGED OPENING PRICE OF MATERIALS HOURS OF LABOR TOTAL COST DATE	BUILDING CONSULTANTS, INC. P.O. Box 250 Madison Ave. 10005 Phone (212) 681-8100 Please Send us information regarding Distribution of <i>Journal of the IBC</i> \$2.00
--	--

REVISIONS :

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Maronda Homes

14071 321-0064 4005 MARONDA WAY SANFORD. FLORIDA

FIBERGLASS EXTERIOR DOORS
IN SWING / OUT SWING DOOR
SINGLE DOOR

RELEASE DATE: 09/02/08

SHEET:

Florida Product Approval #6184.1

ED-0

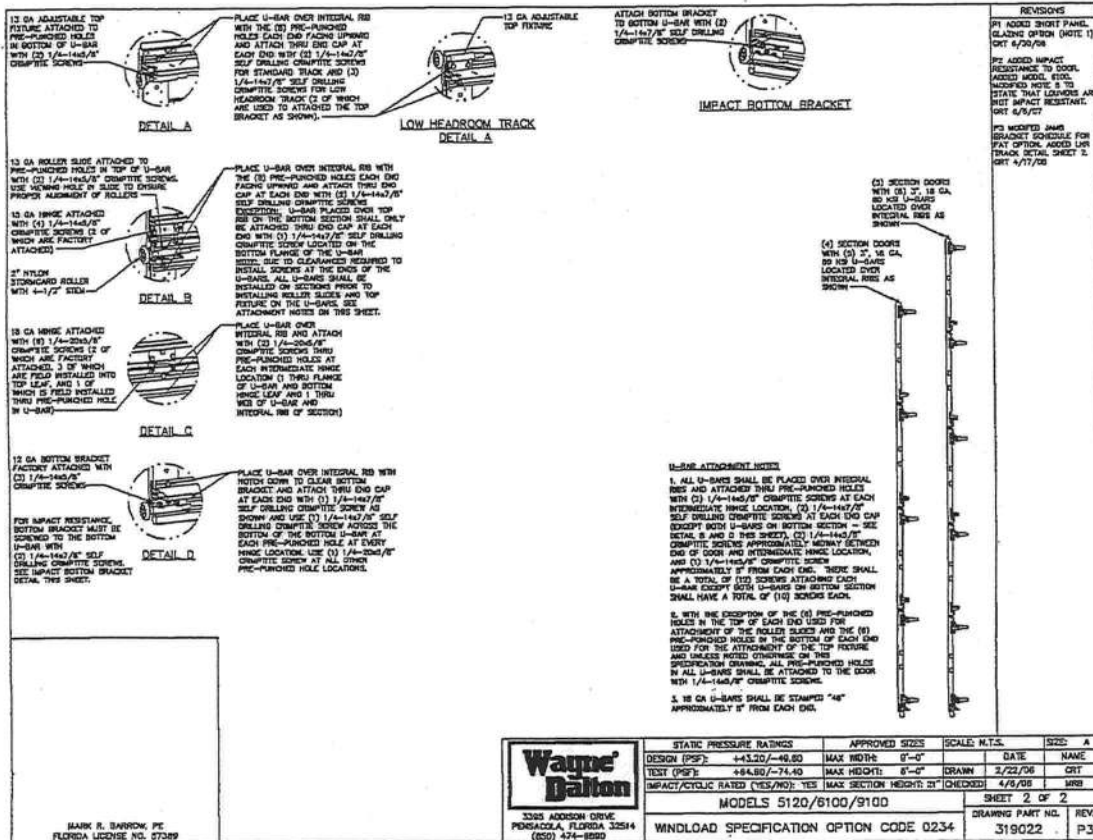
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(407) 321-0064 4005 WARDNA WAY SANFORD. FLORIDA

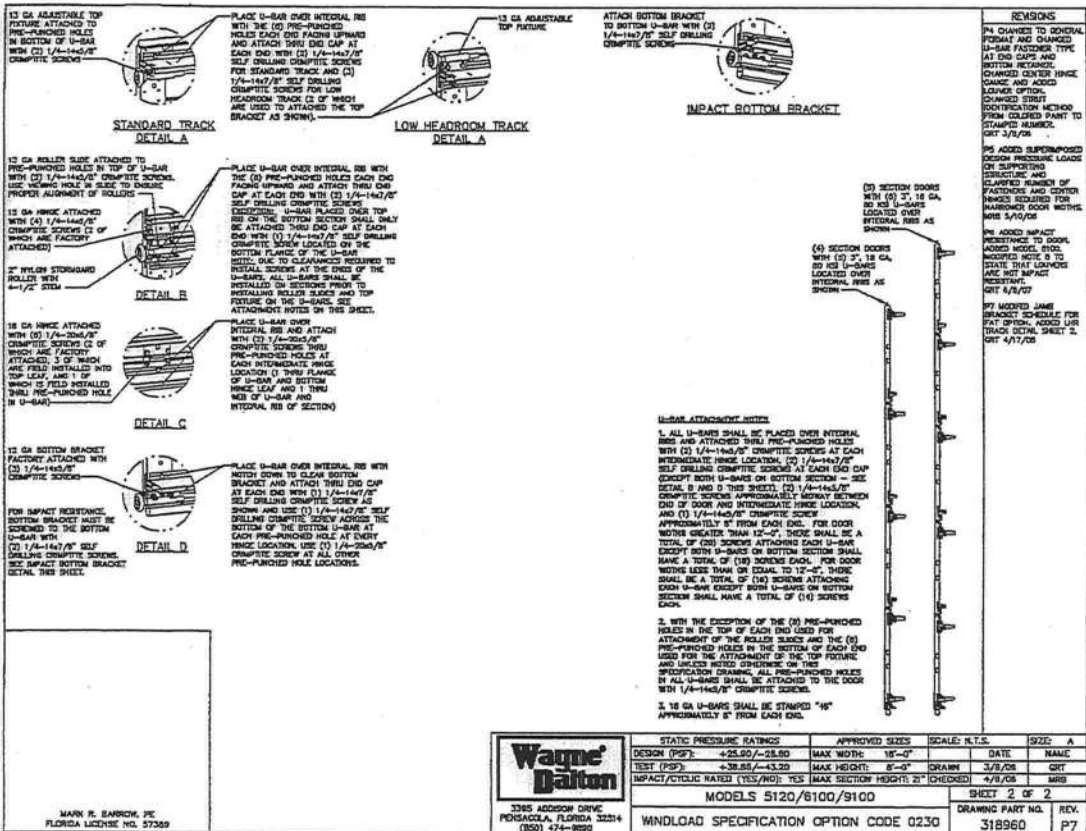
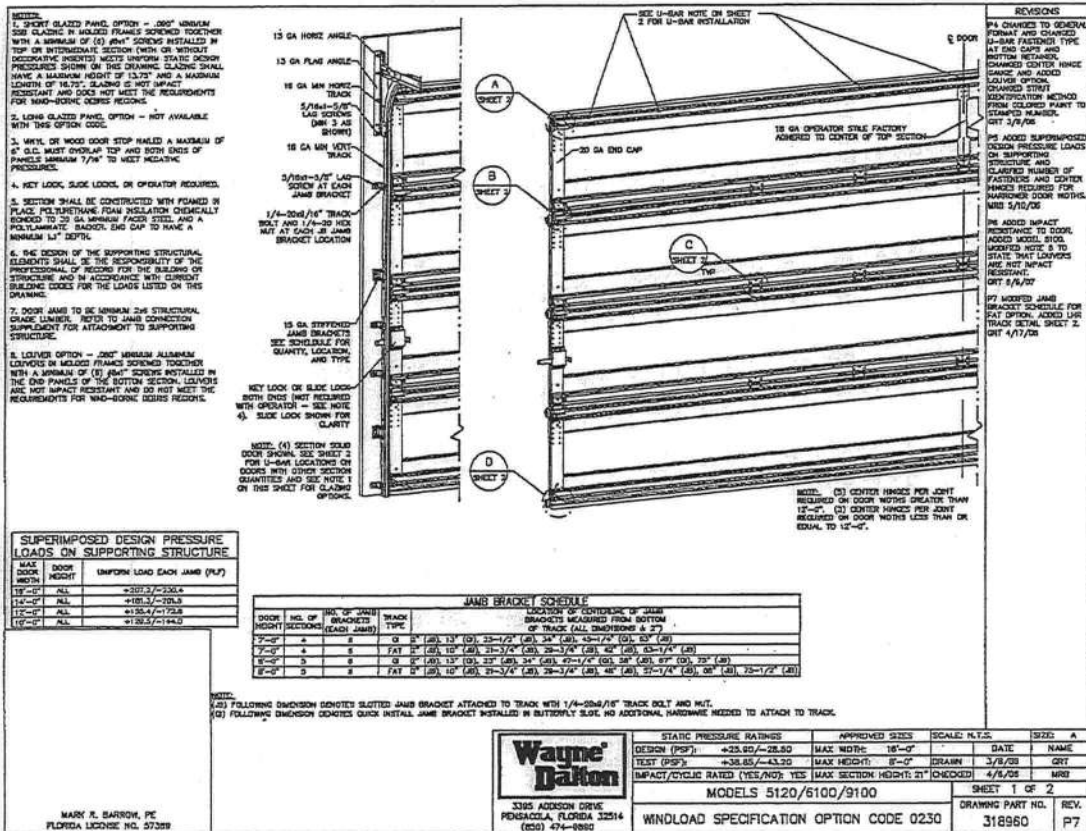
REVISIONS :
1-18-08 Revise Garage Door Supplier
2-19-09 Update to Code.

GDI



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

REVISIONS :
1-18-08 Revise Garage Door Supplier
2-19-09 Update to Code.

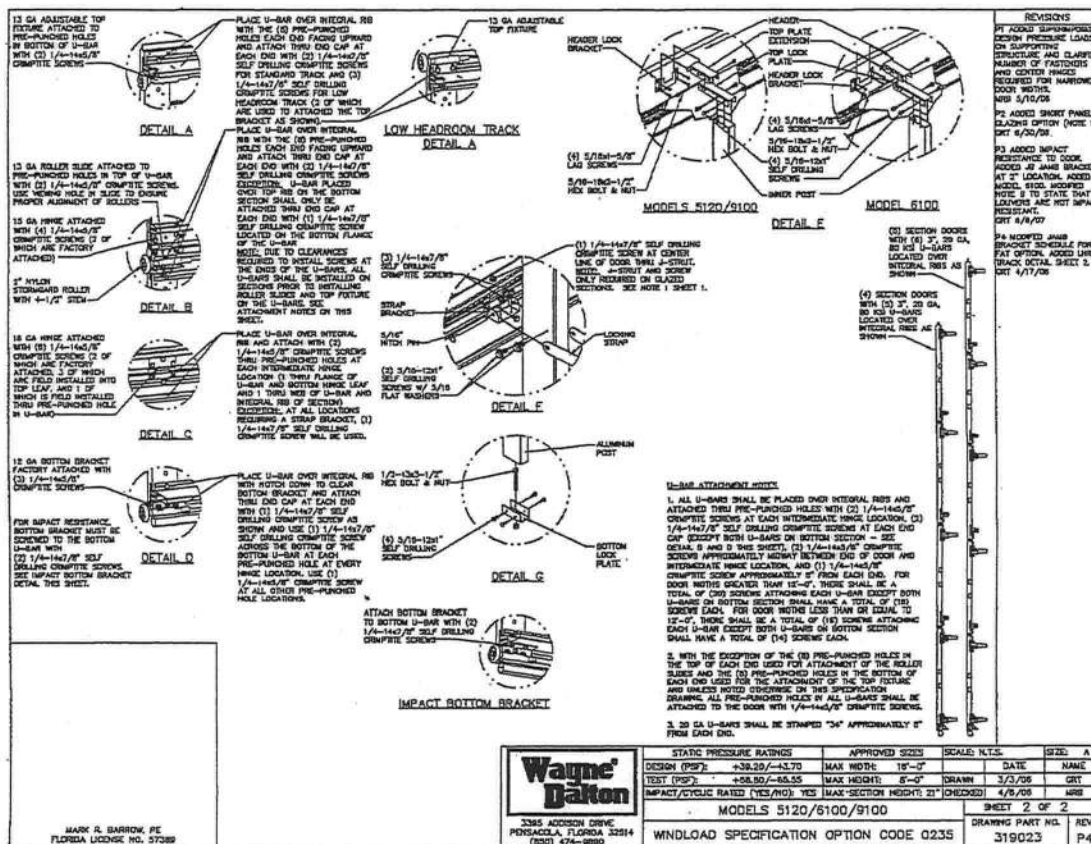


GARAGE DOORS	
10'-16' Wide	Wind Zone 140

Maronda Homes

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

1-18-08	Revise Garage Door Supplier
2-19-09	Update to Code.



Wayne Dalton

3385 ADDISON DRIVE
PENSACOLA, FLORIDA 32514
(904) 474-9880

STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A	
DESIGN (PSF): +39.29/-42.70		MAX HEIGHT: 19'-0"		DATE		NAME	
TEST (PSF): +58.80/-66.55		MAX HEIGHT: 6'-0"		3/3/06		GRT	
IMPACT/CYCLIC RATED (YES/NO): YES		MAX-SECTION HEIGHT: 21'		CHC9302		WRB	
MODELS 5120/6100/9100							
WINDLOAD SPECIFICATION OPTION CODE 0235				SHEET 2 OF 2			
				DRAWING PART NO.		REV	
				319023		P4	

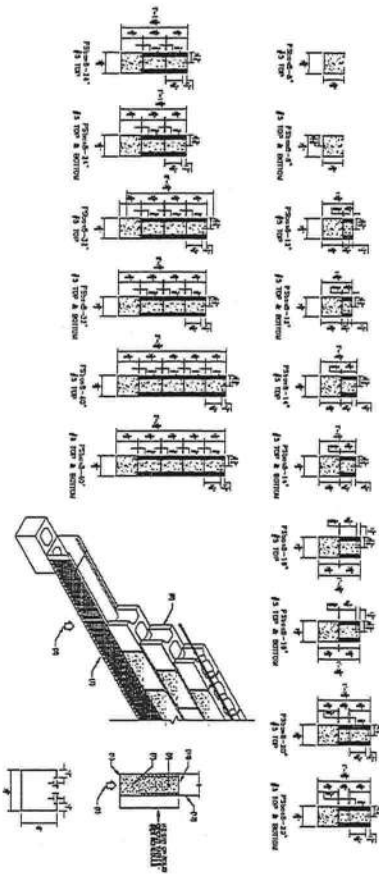
1-18-08	Revise Garage Door Supplier
2-19-09	Update to Code.

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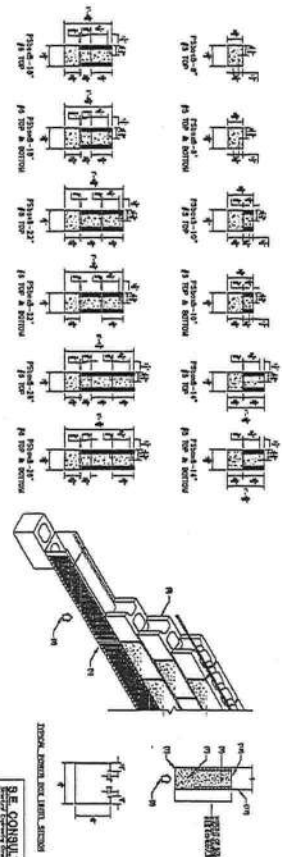
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Florida Product Approval # FL6264-R1

S.E. CONSULTANTS, INC.
Structural Engineering Consultants
6800 East Thomas Road, Suite 104
Scottsdale, AZ 85261
(602)437-1160
Fax (602)437-5408

CITY OF HONOLULU	JOB NAME
	JOB NO. 0308-08
	ADDRESS
	CONTRACTOR MARCONA

POWERS STEEL & WIRE
(602) 437-1160  FAX 437-5409

DETAILER
DATE AUG. 2008
GRADE

NO.	REVISION	BY	DATE
-----	----------	----	------

Project Name: _____ Permit # _____
Project Address: _____

As required by Florida Statutes 553.492 and Florida Administrative Code 9B-72, please provide the information and product approval number(s) for the building components listed below as applicable to the building construction project for the permit number listed above. You should contact your product supplier if you do not know the product approval number for any of the applicable listed products. Information regarding statewide product approval may be obtained at: www.floridabuilding.org.

REVISED 2-18-2009

Category/Category	Manufacturer	Product Description	Limitation of Use	State 2007W	Design Pressures
A. EXTERIOR DOORS					
1. Sliding	Plaintro Inc./ Nucor Plastics Corp.	Piberglass Dr-Single Piberglass Dr-w/ Shutoff Piberglass Dr-w/ DBI Shutters	Evaluated for use in locations adhering to the Florida Building Code minimum pressure requirements as determined by ACS17 Minimum Design Loads for Building and Other Structures.	FL 6184.1 FL 6184.3 FL 6184.5	+45 / -70 +50 / -50 +50 / -50
2. Sliding	Simonton Windows Florida Extruders	Piberglass Dr-Single Sliding Glass Doors		FL 6120.1	+50 / -50
3. Sectional	Wayne Dalton Corp.	Garage Doors 120 10'- 18" 9" 9100 / 5120 Garage Doors 140 10'- 16" 8" 9100 / 5120	As indicated in evaluation report and as determined by the manufacturer. Not to be used in HVHZ.	FL 9174.3 FL 9174.1 FL 9174.6 FL 9174.5	+35.9 / +28.8 +35.9 / +30.8 +39.2 / +43.7 +43.2 / +46.8
B. WINDOWS					
1. Single Hung	Florida Extruders	Killatone Series 1000	31" x 84" Top Window have not been evaluated for use in High Velocity Hurricane Zones. Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL 9262.2	+45 / -45
2. Horizontal slider	Florida Extruders	Killatone Series 1000	Horizontal Sliders, Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL 9261.1	+45 / -45
5. Fixed	Florida Extruders	Killatone Series 1000	Fixed Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL 9242.2	+45 / -45
Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State 2007W	Design Pressures
7. Rear-through					
8. Projected					
9. Multiten	Florida Extruders	Killatone Tubes Mold	Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ACS17 Minimum Design Loads for Building and Other Structures.	FL 3156-R3	60 PSF
10. Wind breaker					
11. Dual action					
13. Other					
C. PANEL WALL					
1. Sliding	Alcoa Metal Corp	Quad 4 Aluminum Soffit Systems	For use as soffit only; Not for use in HVHZ.	FL 4459-R1	62.0 PSF
2. Soffit					
D. ROOFING					
1. Asphalt shingles	Owens Corning Certain Teed Corp.	Asphalt Shingle Asphalt Shingle	This material may be used in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed.	FL 1067-R1 FL 5444-R1	N/A N/A
2. Underlayment					
3. Roofing fasteners					
4. Structural metal roof					
5. Built-up roofing					
6. Modified bitumen	Polyglass USA	Two layer torch down	The next design pressure for the next design wind speed shall exceed the Zone 1 design pressure determined in accordance with FBC chapter 16.	FL 1634-R4	N/A / - 62.5
7. Single ply roofing					

Category/Subcategory	Manufacturer	Product Description	Limitation or Use	State 2007R	Broken Pipes
8. Roofing tiles					
9. Roofing insulation					
10. Thermal break elements					
12. Roofing slate					
13. Liquid applied roofing					
14. Concrete adhesive compounds					
15. Road tile adhesive					
16. Spray applied polyurethane roof coating	Owens Corning Lemnatec	Ridge Vent Ridge Vant CTR Fibre Vent	This Approval was first used in the HVHZ. All FPC decisions that apply to concrete except fibreglass and fibreglass board shall be followed.	EL 10748 EL 3192-3J N/A N/A	N/A
17. Roof seams					
E. ATTACHMENTS					
1. Storm Panels	A&L Building Products Artlun Shelters, Inc. Aluhlu Hurricane Shelters Inc. KD Manufacturing	21 g ² Galvalume Steel Storm Panel 26 GA GAlV. Steel Panel 24 & 23 GA Bred Panel KD STORM PANEL	The product may only be installed on concrete, except fibreglass or fibreglass board. Vehicle Hurricane Zones or Balle Wind Speed > 140.	EL 7989-3J N/A EL 5437 EL 4804 EL 2773 N/A	+30 / -10 N/A N/A N/A N/A
F. STRUCTURAL COMPONENTS	United Steel Products	Anchors, Hangers Etc. Structural Components Weld Connections	Subject to Limitation and Installation instructions specified in NDA 05-0107-06.	65-RC, 567- K3, 508-3, 32-508-3, 32-508-3, R3, 574- 32-574- 570-R2, 271- 576-R2, 315- R1, R16-	

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	Design Sources
2. Truss plates				
3. Engineered lumber	Mill Creek Lumber Co.	Truss Connections	No Limitation of Use.	FL 2197 RI
4. Railing				
5. Cooriter-deckers				
6. Concrete subframes				
7. Material				
8. Installation forms				
9. Plastics				
10. Deck-roof				
11. Wall				
12. Sheds				
13. Other	Forwards Steel Inc.	PB5008 PB5008(4-5/8)	Limits shall not exceed the allowable design load and spans. The limits shall not be used in a fire resistance rated assembly. A fire resistance rating is required when using corrugated lumber products in contact with steel trusses. Do not use in fire rated or fire rated fireproofed counties at this time.	6264 RI
G. BRACKETING				
1. Strylight				
2. Other				
H. NERVE PLATE				
PHODUCITS				
3.				

The product listed below did not demonstrate product approval at a time of plan review. I understand that before these products can be imported, they must be submitted for review for sole compliance and approved by a Phase Examination. This firm will be required to include each new product in the categories listed above and will be highlighted to indicate the new product and required documentation.

Authorized Project Agent
(Contractor or Design Professional) _____ (Print Name) _____ (Signature) _____

Company Name: _____

Mailing Address: _____

City _____ State _____ Zip Code _____
Telephone Numbers () _____ Fax Numbers () _____
Call Phone Numbers () _____ E-mail Address: _____

City of Port St. Lucie Building Department Approval Submittal Affidavit
Building Permit: _____ Building Address: _____ Contractor: _____
Opening Schedule: Swing Doors, Overhead Doors, Sliding Doors, Fixed Glass, Windows & Skylights: _____
Revision 2-23-2009

Opening ID	Product	Model #	Manufacturer	Glass	Attachment Method	Design Pressures	State Approved #
B	Garage Door 7'x16'	8100, 5120	Wayne Dalton		Attach door bracket to jam w/ 5/16"x1-5/8" lag screws not to exceed 14" O.C. The 2x6 (jam) anchored by 8" J-bolts @ 24" O.C. Ea. side. Blk-1/2"x3" lag, 1 5/8" emb.	+39.2 / -43.7	FL 9174.6
D	Garage Door 7'x8'	8100, 5120	Wayne Dalton		Attach door bracket to jam w/ 5/16"x1-5/8" lag screws not to exceed 14" O.C. The 2x6 (jam) anchored by 8" J-bolts @ 24" O.C. Ea. side. Blk-1/2"x3" lag, 1 5/8" emb.	+43.2 / -49.6	FL 9174.5
A	Entry Door	Distinction	Plaspro Inc.	(SIDE LITE TEMP.)	Inswing 3/16" Tapcons @ 16" O.C. w/ 1-1/2" Embedment	+50 / -50	FL 6184
A	Windows w/ All 1x Wood Bucks	Series 1000 Single Hung Millstone	Florida Extruders / Millstone	See floor plan	(3) 3/16" x 2 1/4" Tapcons w/ 1-1/4" Min. Embedment @ 24" O.C. Max. SEE DETAILS FOR ATTACHMENT OF 1x WOOD BUCK TO BLOCK	+45 / -45	FL 9282
A	Sliding Glass Door	Series 1000 SGD	Florida Extruders / Millstone	TEMP.	#10 x 1-3/4" screws to 2x wood buck w/ 1-1/2" Embedment @ top and sides. 3/16" x 1-3/4" Tapcons @ Threshold SEE DETAILS FOR ATTACHMENT OF 2x WOOD BUCK BLOCK	+45 / -45	FL 8409
A	Windows w/ All 1x Wood Bucks	Series 1000 Horizontal Slider	Florida Extruders / Millstone	See floor plan	(3) 3/16" x 2 1/4" Tapcons w/ 1-1/4" Min. Embedment @ 24" O.C. Max. SEE DETAILS FOR ATTACHMENT OF 1x WOOD BUCK TO BLOCK	+45 / -45	FL 9236
A	Windows w/ 1x Wood Bucks and Bowtop / Arches using 2x Wood Bucks	Series 1000 Fixed Millstone	Florida Extruders / Millstone	See floor plan	(3) 3/16" x 3-1/4" Tapcons (w- 1 1/4" Min. Embedment) @ 24" O.C. Max. @ 1x and #10 Screw w/ 1-1/2" Min. Embedment @ 2x Wood Buck SEE DETAILS FOR ATTACHMENT OF ALL WOOD BUCKS TO BLOCK	+45 / -45	FL 9242
A	Windows w/ 2x Frame Wall	Series 1000 Single Hung Millstone	Florida Extruders / Millstone	See floor plan	(3) 10x1-3/4 Screws w/ 1-1/2" Min Embedment @ 24" O.C. Max.	+45 / -45	FL 9282

Building Design Pressures	
A	+ 35.3 / -36.2
B	+ 29.7 / -33.1
C	+ 35.3 / -47.2
D	+ 31.0 / -35.1

Product	Model #	Manufacturer	Frame-Block	Attachment Method	Design Pressures	State Approved #
Mullions	FLA-45	FLORIDA EXTRUDERS / MILESTONE	Block	(2) #10 x 3/4" Embedment w/ 1 1/2" Min. Embedment (2) 1/4" x 2-1/4" Tapcons w/ 1 1/4" Min. Embedment Window Frame to Mullion x 3/4" Screw	+45 / -45	FL3139-R3
Roof	CLASSIC	OWENS CORNING		B x 1 1/4" 11-12 GA W/3/8" Head Roofing Nails Staple thru Soffit 8" oc 3/8" wide x 6/8 length. T-Nail (6/8" long into block or 1 3/4" Long into Stucco over Block) or Staple 3/8" wide x 6/8" Length into wood @ 16" oc thru Channel. 1 1/4" SS Trim Nail thru Fascia @ 48" oc.		FL 10674-R1
Soffit	16" Vented Soffit QUAD	ALSCO METAL CORP.			45.71 Pa	FL 4459 R1
Hurricane Steel Non- Porous Storm Panels	018" Galvanized Steel Non- Porous Storm Panels	ASI BUILDING PRODUCTS	Block- Frame-	1/4" Rawl Calk-in @ 12.5" O.C. w/ 7/8" Embedment 7/16" Brass Bushing & 1/4"-20 Screw @ 12.5" O.C. w/ 5/8" Embedment	+ 70 / - 70	FL 7969 R2

SELECTION OF THE PRODUCTS LISTED ARE BASED
ON THE FLORIDA PRODUCT APPROVALS
ON THE FLORIDA PRODUCT APPROVALS
RESPECTIVE MANUFACTURERS WEBSITE AND
SOLE RESPONSIBILITY FOR THE PRODUCTS



PSL PRODUCT AFFIDAVIT
FBC / FRC 2007 CODES
DRAWN BY: _____ GARAGE: _____
RELEASE DATE: MARCH 1, 2009
MAR 09

REVISIONS	
10-29-07	UPDATE LISTS
01-21-08	UPDATE ROLL UP DOORS
06-14-08	ADDED POWERS STEEL LINTELS
09-16-08	ADDED MANUF. ENGRS NOTE
02-23-2009	UPDATED FOR 2007 CODES

DWAVE
COMING

1a

Arbeits-
(M) Ar

(c) Approved by the Board of Directors.

1

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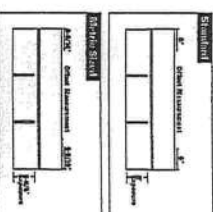
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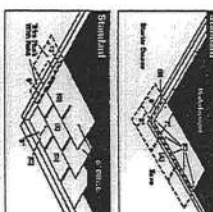


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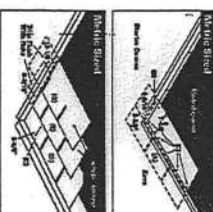


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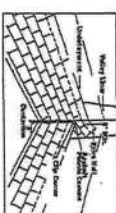
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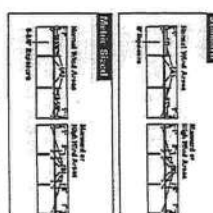
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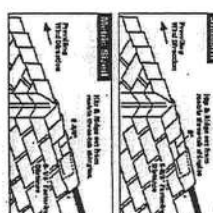
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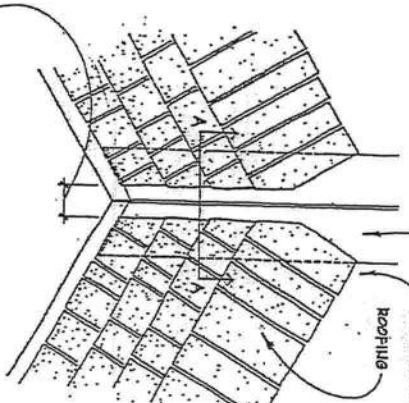
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...the ridge, but
...1' up from the



VALLEY
FLAHLING

VALLEY FLAMING IN
LOCATIONS W/ SEVERE
WEATHER



PITCH-CHANGE FLASHING

Type of Flashing: Galvanized
Thickness of Flashing: 26 gauge
Minimum over lap joint: 4-6 inches

VALLEY LINING TO
BE AT LEAST 16" WIDE
AS PER R905.2.8.2

VALLEY FLASHING

VALLEY BETWEEN ROOFING IS WIDER AT EAVE THAN AT TOP, ESPECIALLY IN AREAS OF EXTREME COLD. TYPICAL VALLEY IS 1/2 IN. TO 1 IN. WIDE @ TOP & INCREASES TO 1 1/2 IN. PER LINEAR FOOT OF VALLEY



INNOVATIONS FOR LUMKO™

APPROVED APPLICATIONS

Treatment

Use On: Residential, Vent from Low Profile, Vent from Ridge Vent, Vent from Gable End

System Type A:

Mechanical attachment of ridge vent system over composition shingles.

Details:



1. Determine whether the ridge is vent or ridgepole. If vent, the ridgepole is 1/2" x 1/2" (ridge pole) and the ridge is 1/2" x 1/2" (ridge pole). If ridgepole, a minimum of 4" must be left over on each end of the ridge. Once the lid is cut and any overlapping shingles covering the ridge are removed, the ridge is ready for vent installation.



2. Place the Vent from Ridge Vent over the ridge pole. The ridge pole must be centered under the ridge. The ridge pole must be secured with nails. Multiple lengths of ridge pole may be joined by holding them together.



3. Pull apart a 3" or 1 1/4" section of the ridge pole. Using construction adhesive or wooden nails, insert the ridge pole into the ridge. The ridge pole must be secured with nails. Multiple lengths of ridge pole may be joined by holding them together.



4. Make a ridge pole between the vent and the roof shingles. The ridge pole must be centered under the ridge. The ridge pole must be secured with nails. Multiple lengths of ridge pole may be joined by holding them together.



5. After vent has been installed, seal ridge shingles, gables, and roof with roofing with a common overlapping pattern. The ridge pole must be centered under the ridge. The ridge pole must be secured with nails. Multiple lengths of ridge pole may be joined by holding them together.

Not For Use:

Roofs to manufacturers' published literature

3-12



LOMANGO 770D ROOF VENT INSTALLATION INSTRUCTIONS

Thank you for your participation in purchasing the LOMANGO 770D Roof Vent. The 770D is an advanced roof vent that will enhance your home's ventilation and reduce your energy costs. Proper installation is essential for proper operation.

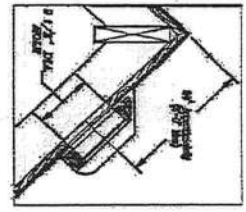
IMPORTANT

READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION

1. Installation of the Lomango 770D Roof Vent should comply with all local codes and standards. Ventilation is a critical part of your home's energy efficiency. Use proper ventilation techniques to avoid moisture damage to your home.

INSTALLATION:

1. Accessibility: It is best to locate vents on the roof slope of the house. You also want to center vents on the roof slope. If you are installing two vents, the vents should be spaced apart by 1/2" to 1/4". When installing three vents, locate one in the center and the other two 1/2" from the center and one end of roof.



2. The team of three should be centered on the roof slope. The vents should be spaced apart by 1/2" to 1/4". When installing three vents, locate one in the center and the other two 1/2" from the center and one end of roof.

3. When installing the Lomango 770D Roof Vent, you must follow the instructions carefully. The vents should be spaced apart by 1/2" to 1/4". When installing three vents, locate one in the center and the other two 1/2" from the center and one end of roof.

4. Using marked positions as center point, secure the vents with screws. The vents should be spaced apart by 1/2" to 1/4". When installing three vents, locate one in the center and the other two 1/2" from the center and one end of roof.

5. Flush mounting by sealing the vent with the supplied sealant. The vents should be spaced apart by 1/2" to 1/4". When installing three vents, locate one in the center and the other two 1/2" from the center and one end of roof.

6. Check for proper ventilation. The vents should be spaced apart by 1/2" to 1/4". When installing three vents, locate one in the center and the other two 1/2" from the center and one end of roof.

Florida Product Approval # FL10758

Florida Product Approval # FL3792-R3



ROOF VENT DETAILS

1 of 2

DRAWN BY: GARAGE: RELEASE DATE:

REVISIONS: 2-16-09 Updated to Code.

RVD

SHEET:

Mount Type C

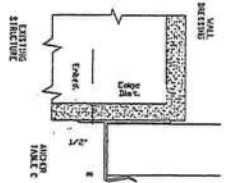


TABLE C - MAXIMUM ANCHOR SPACING IN CORNER

ANCHOR A	ANCHOR B	ANCHOR C	ANCHOR D	ANCHOR E	ANCHOR F	ANCHOR G	ANCHOR H	ANCHOR I	ANCHOR J	ANCHOR K	ANCHOR L	ANCHOR M	ANCHOR N	ANCHOR O	ANCHOR P	ANCHOR Q	ANCHOR R	ANCHOR S	ANCHOR T	ANCHOR U	ANCHOR V	ANCHOR W	ANCHOR X	ANCHOR Y	ANCHOR Z
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

ALUFAB
 12000 W. 30th Ave.
 Miami, FL 33154
 Tel: (305) 585-0033
 Fax: (305) 585-0033

Product:
 24 & 22 ga
 Galvanized
 Steel Storm
 Panels

Engineer:
 Engle & Jnr.
 12000 W. 30th Ave.
 Miami, FL 33154
 Tel: (305) 585-0033
 Fax: (305) 585-0033

Mount Type D

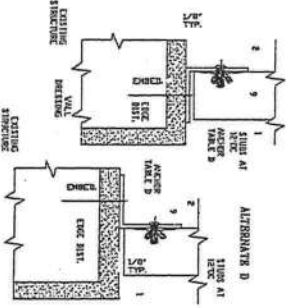


TABLE D - MAXIMUM ANCHOR SPACING IN CORNER

ANCHOR A	ANCHOR B	ANCHOR C	ANCHOR D	ANCHOR E	ANCHOR F	ANCHOR G	ANCHOR H	ANCHOR I	ANCHOR J	ANCHOR K	ANCHOR L	ANCHOR M	ANCHOR N	ANCHOR O	ANCHOR P	ANCHOR Q	ANCHOR R	ANCHOR S	ANCHOR T	ANCHOR U	ANCHOR V	ANCHOR W	ANCHOR X	ANCHOR Y	ANCHOR Z
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

ALUFAB
 12000 W. 30th Ave.
 Miami, FL 33154
 Tel: (305) 585-0033
 Fax: (305) 585-0033

Product:
 24 & 22 ga
 Galvanized
 Steel Storm
 Panels

Engineer:
 Engle & Jnr.
 12000 W. 30th Ave.
 Miami, FL 33154
 Tel: (305) 585-0033
 Fax: (305) 585-0033

Mount Type G

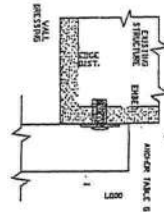
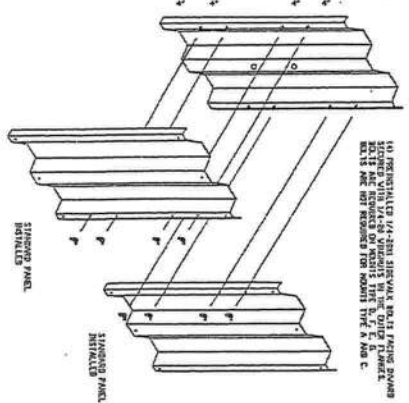


TABLE G - MAXIMUM ANCHOR SPACING IN CORNER

ANCHOR A	ANCHOR B	ANCHOR C	ANCHOR D	ANCHOR E	ANCHOR F	ANCHOR G	ANCHOR H	ANCHOR I	ANCHOR J	ANCHOR K	ANCHOR L	ANCHOR M	ANCHOR N	ANCHOR O	ANCHOR P	ANCHOR Q	ANCHOR R	ANCHOR S	ANCHOR T	ANCHOR U	ANCHOR V	ANCHOR W	ANCHOR X	ANCHOR Y	ANCHOR Z
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"



INSIDE ACCESS PANEL
 INSIDE ACCESS PANEL, ON AND PANEL, INSTALLED FOR LAST,
 VENTILATED A REMOVABLE PANEL ON THE INSIDE SIDE TO
 MAINTAIN THE CONTAMINATION.

HOLES IN CORNER
 REMOVABLE PANEL
 NO PERMANENT 1/4-20 STEEL BOLTS ARE REQUIRED
 BOLTS ARE COVERED BY MOUNT TYPE G, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

ALUFAB
 12000 W. 30th Ave.
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Product:
 24 & 22 ga
 Galvanized
 Steel Storm
 Panels

Engineer:
 Engle & Jnr.
 12000 W. 30th Ave.
 Miami, FL 33154
 Tel: (305) 585-0033
 Fax: (305) 585-0033

Mount Type F



TABLE F - MAXIMUM ANCHOR SPACING IN CORNER

ANCHOR A	ANCHOR B	ANCHOR C	ANCHOR D	ANCHOR E	ANCHOR F	ANCHOR G	ANCHOR H	ANCHOR I	ANCHOR J	ANCHOR K	ANCHOR L	ANCHOR M	ANCHOR N	ANCHOR O	ANCHOR P	ANCHOR Q	ANCHOR R	ANCHOR S	ANCHOR T	ANCHOR U	ANCHOR V	ANCHOR W	ANCHOR X	ANCHOR Y	ANCHOR Z
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

ALUFAB
 12000 W. 30th Ave.
 Miami, FL 33154
 Tel: (305) 585-0033
 Fax: (305) 585-0033

Product:
 24 & 22 ga
 Galvanized
 Steel Storm
 Panels

Engineer:
 Engle & Jnr.
 12000 W. 30th Ave.
 Miami, FL 33154
 Tel: (305) 585-0033
 Fax: (305) 585-0033

Mount Type K

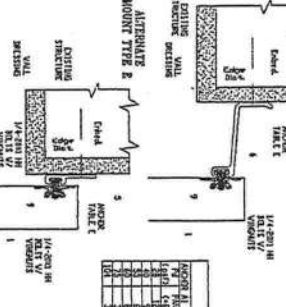


TABLE K - MAXIMUM ANCHOR SPACING IN CORNER

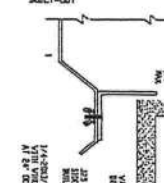
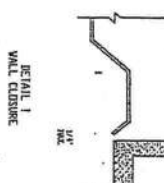
ANCHOR A	ANCHOR B	ANCHOR C	ANCHOR D	ANCHOR E	ANCHOR F	ANCHOR G	ANCHOR H	ANCHOR I	ANCHOR J	ANCHOR K	ANCHOR L	ANCHOR M	ANCHOR N	ANCHOR O	ANCHOR P	ANCHOR Q	ANCHOR R	ANCHOR S	ANCHOR T	ANCHOR U	ANCHOR V	ANCHOR W	ANCHOR X	ANCHOR Y	ANCHOR Z
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

ALUFAB
 12000 W. 30th Ave.
 Miami, FL 33154
 Tel: (305) 585-0033
 Fax: (305) 585-0033

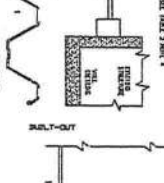
Product:
 24 & 22 ga
 Galvanized
 Steel Storm
 Panels

Engineer:
 Engle & Jnr.
 12000 W. 30th Ave.
 Miami, FL 33154
 Tel: (305) 585-0033
 Fax: (305) 585-0033

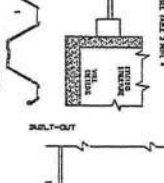
Detail L



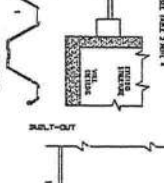
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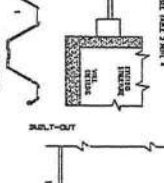
Detail I



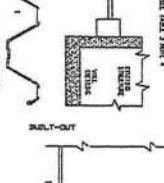
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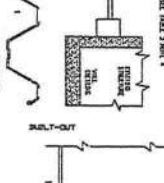
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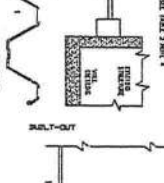
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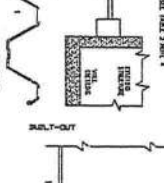
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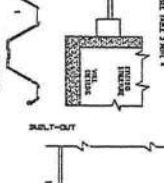
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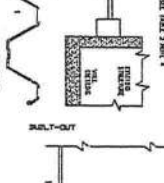
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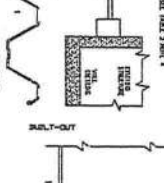
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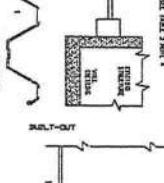
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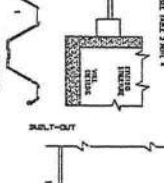
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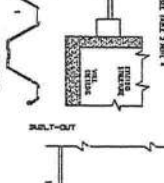
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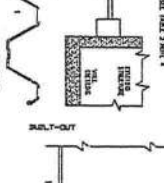
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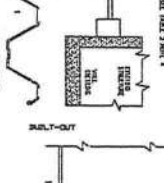
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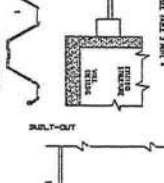
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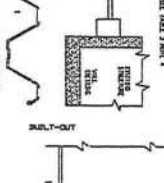
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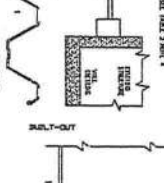
Detail X



Detail Y



Detail Z



DIRECT MOUNT SECTION

EDGE DISTANCE

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

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1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

WALL MOUNT

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

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1/2" MIN. SPACING BETWEEN PLATES

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1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

FACE MOUNT

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

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1/2" MIN. SPACING BETWEEN PLATES

AIR CORNER DETAIL

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

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1/2" MIN. SPACING BETWEEN PLATES

1/2" MIN. SPACING BETWEEN PLATES

NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL
1	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50
2	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50
3	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50
4	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50
5	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50
6	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50
7	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50
8	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50
9	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50
10	1/2" x 1/4" x 1/4" ALUMINUM PLATE	10	EA.	0.15	1.50

ASI BUILDING PRODUCTS

SHUTTER DETAILS

RELEASE DATE: MARCH 1, 2009

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Maronda Homes

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

ANCHOR SCHEDULE									
SECTION A						SECTION B			
CONCRETE						CONCRETE			
ANCHOR						ANCHOR			
1. 1/2" DIA. 1000						1. 1/2" DIA. 1000			
2. 1/2" DIA. 1000						2. 1/2" DIA. 1000			
3. 1/2" DIA. 1000						3. 1/2" DIA. 1000			
4. 1/2" DIA. 1000						4. 1/2" DIA. 1000			
5. 1/2" DIA. 1000						5. 1/2" DIA. 1000			
6. 1/2" DIA. 1000						6. 1/2" DIA. 1000			
7. 1/2" DIA. 1000						7. 1/2" DIA. 1000			
8. 1/2" DIA. 1000						8. 1/2" DIA. 1000			
9. 1/2" DIA. 1000						9. 1/2" DIA. 1000			
10. 1/2" DIA. 1000						10. 1/2" DIA. 1000			
11. 1/2" DIA. 1000						11. 1/2" DIA. 1000			
12. 1/2" DIA. 1000						12. 1/2" DIA. 1000			
13. 1/2" DIA. 1000						13. 1/2" DIA. 1000			
14. 1/2" DIA. 1000						14. 1/2" DIA. 1000			
15. 1/2" DIA. 1000						15. 1/2" DIA. 1000			
16. 1/2" DIA. 1000						16. 1/2" DIA. 1000			
17. 1/2" DIA. 1000						17. 1/2" DIA. 1000			
18. 1/2" DIA. 1000						18. 1/2" DIA. 1000			
19. 1/2" DIA. 1000						19. 1/2" DIA. 1000			
20. 1/2" DIA. 1000						20. 1/2" DIA. 1000			
21. 1/2" DIA. 1000						21. 1/2" DIA. 1000			
22. 1/2" DIA. 1000						22. 1/2" DIA. 1000			
23. 1/2" DIA. 1000						23. 1/2" DIA. 1000			
24. 1/2" DIA. 1000						24. 1/2" DIA. 1000			
25. 1/2" DIA. 1000						25. 1/2" DIA. 1000			
26. 1/2" DIA. 1000						26. 1/2" DIA. 1000			
27. 1/2" DIA. 1000						27. 1/2" DIA. 1000			
28. 1/2" DIA. 1000						28. 1/2" DIA. 1000			
29. 1/2" DIA. 1000									

REVISIONS :

SHEET:

SHU

Manufacturer
ALSCO METALS CORPORATION
3101 Poplarwood Court, Suite 200
Raleigh, NC 27615

Sub-Category:

Evaluation Method

Statements:

Standards:

References

Product / System Description:

Quantity Adjustment Documentation

1. The Quid 4 subject to th

2. T-nails for sufficient test

4. Halls for soft

Limitations / Conclusions

2. Installations 1402-86, Sect

4. Limitations re performance:

accordance with
data in accoun

1. END East does company main
2. END East is

3. Robert Niemelä, *Manufacturing*
4. Robert Niemelä

Respectfully submit

Florida Pub. No. 59166
General Manager, EMD
independentair.com

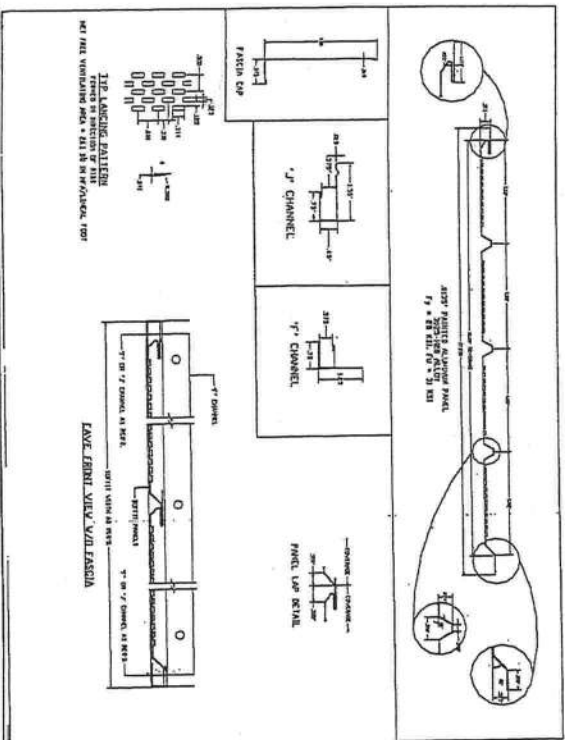
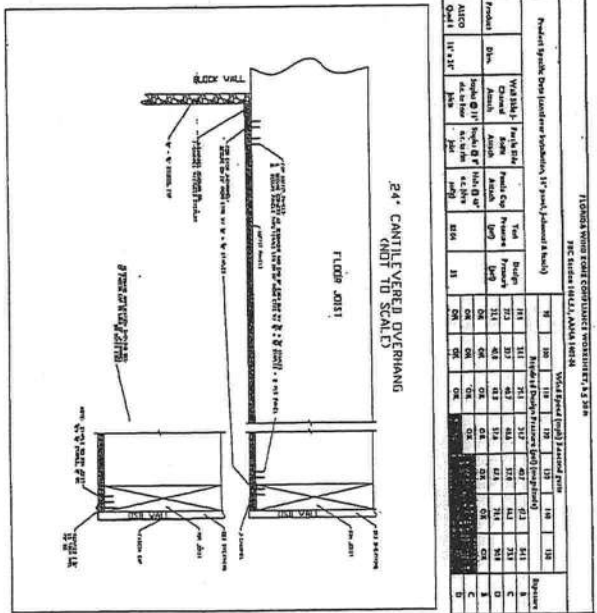
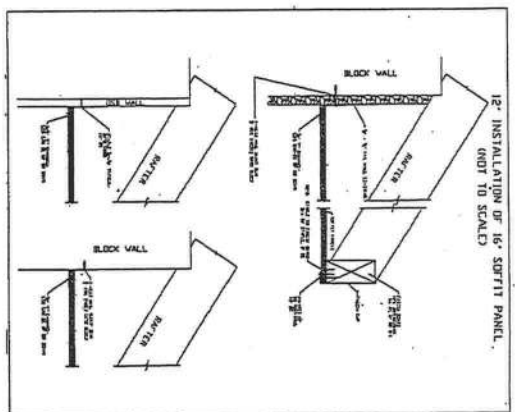
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1.

Main Office: 2412 7th
 EMD 5411 J Me
 Laboratory: 600

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Florida Product Approval # FL4459-RI

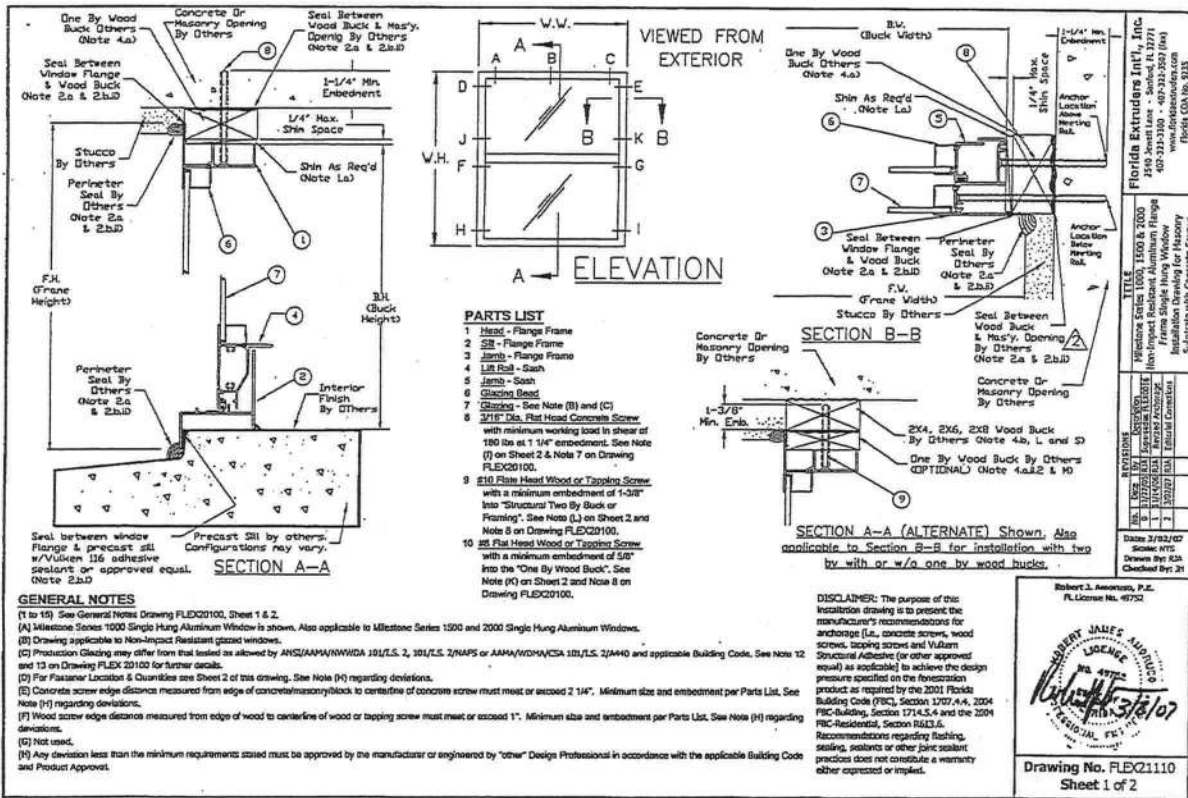


SOFFIT VENTED DETAILS

Maronda Homes

REVISIONS :
2-16-09 Updated to Code.

AS



FASTENER LOCATION TABLE (see Elevation View)

Size Code	Width	Height	Head	Jamb
12	18 1/8	25	A, C	D, E, F, G, H, I
13	18 1/8	37 3/8	A, C	D, E, F, G, H, I
14	18 1/8	49 5/8	A, C	D, E, F, G, H, I
14S	18 1/8	55 1/4	A, C	D, E, F, G, H, I
15	18 1/8	62	A, C	D, E, F, G, H, I, J, K
16	18 1/8	71	A, C	D, E, F, G, H, I, J, K
17	18 1/8	83	A, C	D, E, F, G, H, I, J, K
1H2	25 1/2	25	A, C	D, E, F, G, H, I
1H3	25 1/2	37 3/8	A, C	D, E, F, G, H, I
1H4	25 1/2	49 5/8	A, C	D, E, F, G, H, I
1H4S	25 1/2	55 1/4	A, C	D, E, F, G, H, I
1H5	25 1/2	62	A, C	D, E, F, G, H, I, J, K
1H6	25 1/2	71	A, C	D, E, F, G, H, I, J, K
1H7	25 1/2	83	A, C	D, E, F, G, H, I, J, K
3H2	29 1/2	25	A, C	D, E, F, G, H, I
3H3	29 1/2	37 3/8	A, C	D, E, F, G, H, I
3H4	29 1/2	49 5/8	A, C	D, E, F, G, H, I
3H4S	29 1/2	55 1/4	A, C	D, E, F, G, H, I
3H5	29 1/2	62	A, C	D, E, F, G, H, I, J, K
3H6	29 1/2	71	A, C	D, E, F, G, H, I, J, K
3H7	29 1/2	83	A, C	D, E, F, G, H, I, J, K
22	36	25	A, C	D, E, F, G, H, I
23	36	37 3/8	A, C	D, E, F, G, H, I
24	36	49 5/8	A, C	D, E, F, G, H, I
24S	36	55 1/4	A, C	D, E, F, G, H, I
25	36	62	A, C	D, E, F, G, H, I, J, K
26	36	71	A, C	D, E, F, G, H, I, J, K
27	36	83	A, C	D, E, F, G, H, I, J, K
482	47	25	A, B, C	D, E, F, G, H, I
483	47	37 3/8	A, B, C	D, E, F, G, H, I
484	47	49 5/8	A, B, C	D, E, F, G, H, I
484S	47	55 1/4	A, B, C	D, E, F, G, H, I
485	47	62	A, B, C	D, E, F, G, H, I, J, K
486	47	71	A, B, C	D, E, F, G, H, I, J, K
487	47	83	A, B, C	D, E, F, G, H, I, J, K
32	52 1/8	25	A, B, C	D, E, F, G, H, I
33	52 1/8	37 3/8	A, B, C	D, E, F, G, H, I
34	52 1/8	49 5/8	A, B, C	D, E, F, G, H, I
34S	52 1/8	55 1/4	A, B, C	D, E, F, G, H, I
35	52 1/8	62	A, B, C	D, E, F, G, H, I, J, K
36	52 1/8	71	A, B, C	D, E, F, G, H, I, J, K
37 (Note 1)	52 1/8	83	A, B, C	D, E, F, G, H, I, J, K

Notes

- (1) Only applicable to Series 2000.

FASTENER INSTALLATION INSTRUCTIONS - FLEX2110

3/16" DIA. CONCRETE SCREW WITH NON-STRUCTURAL ONE BY WOOD BUCK:

- (1) Where window is installed in an opening with a non-structural one by wood buck for the head and jamb and a masonry or concrete sill, installation is as follows:
- At the head and jamb, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw size, embedment and load requirements. See FLEX20100, Note 7 for additional concrete screw requirements.
 - At the sill, apply a Structural Adhesive Sealant meeting the requirements of Note 2.b.i on FLEX20100 for the full length of the sill.

- (2) See fastener location table this sheet for concrete screw locations and any additional installation requirements.

- (3) Any remaining factory applied installation fastener hole in the head at location "B" not used for concrete screw installation per the fastener location table shall be filled with a #8 wood screws of sufficient length to provide min. 5/8" embedment into wood buck. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment requirements. See FLEX20100, Note 9 for additional wood screw requirements.

#10 WOOD SCREW WITH STRUCTURAL TWO BY WOOD BUCK AND OPTIONAL ONE BY WOOD BUCK (SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION, SIMILAR FOR SECTION B-B):

- (4) Where window is installed in an opening with a structural two by wood buck for the head and jamb and a masonry or concrete sill, installation is as follows:

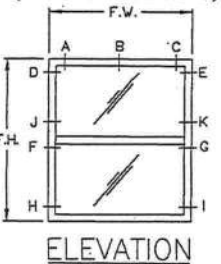
- At the head and jamb, use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.
- At the sill, apply a Structural Adhesive Sealant meeting the requirements of Note 2.b.i on FLEX20100 for the full length of the sill.

- (5) If a two by and one by wood buck are used together (See Section A-A Alternate, similar for Section B-B), then #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck will be used and the one by wood buck will be secured to the two by wood buck as required in Note 4.a.i.2 on drawing FLEX20100.

- (6) #10 wood screws shall be installed at all factory applied installation fastener hole locations.

- (7) Wood screws shall not be used to fasten assembly into the end grain of wood.

VIEWED FROM EXTERIOR (FASTENER LOCATIONS)



DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

- (8) If exact window size is not listed in fastener installation table, use fastener quantity listed for next larger size.

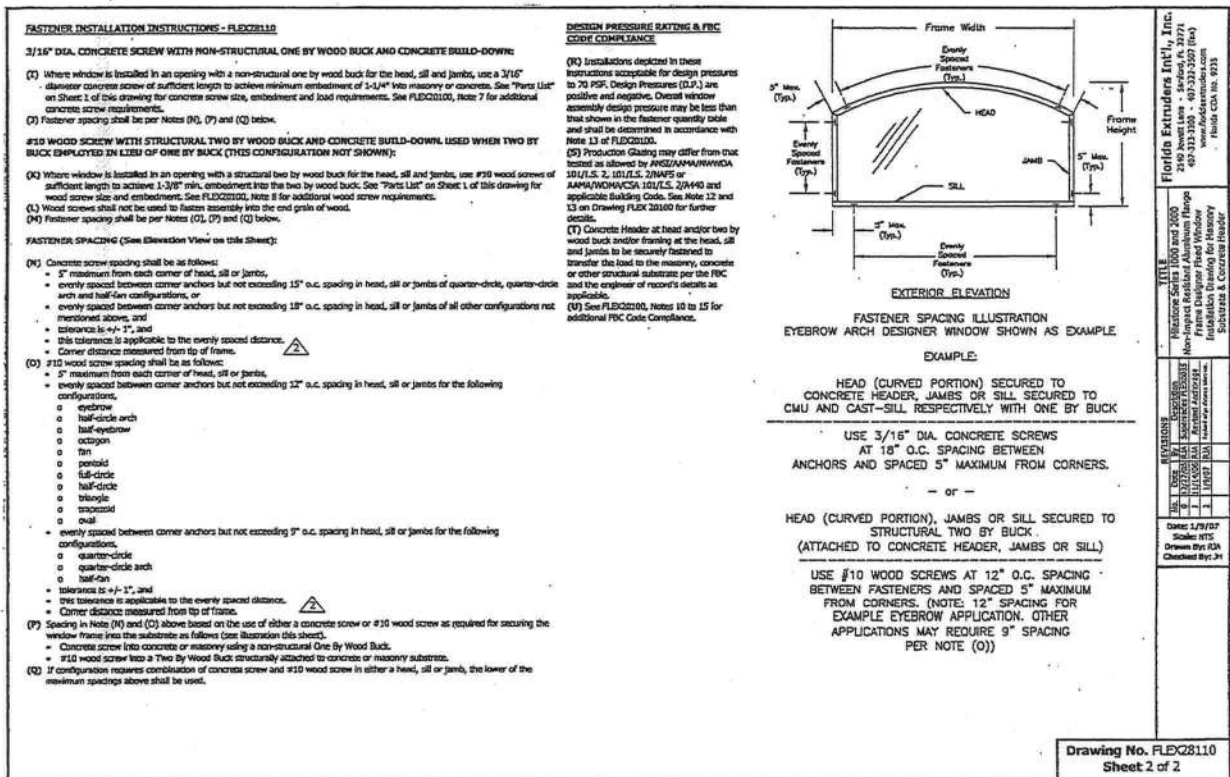
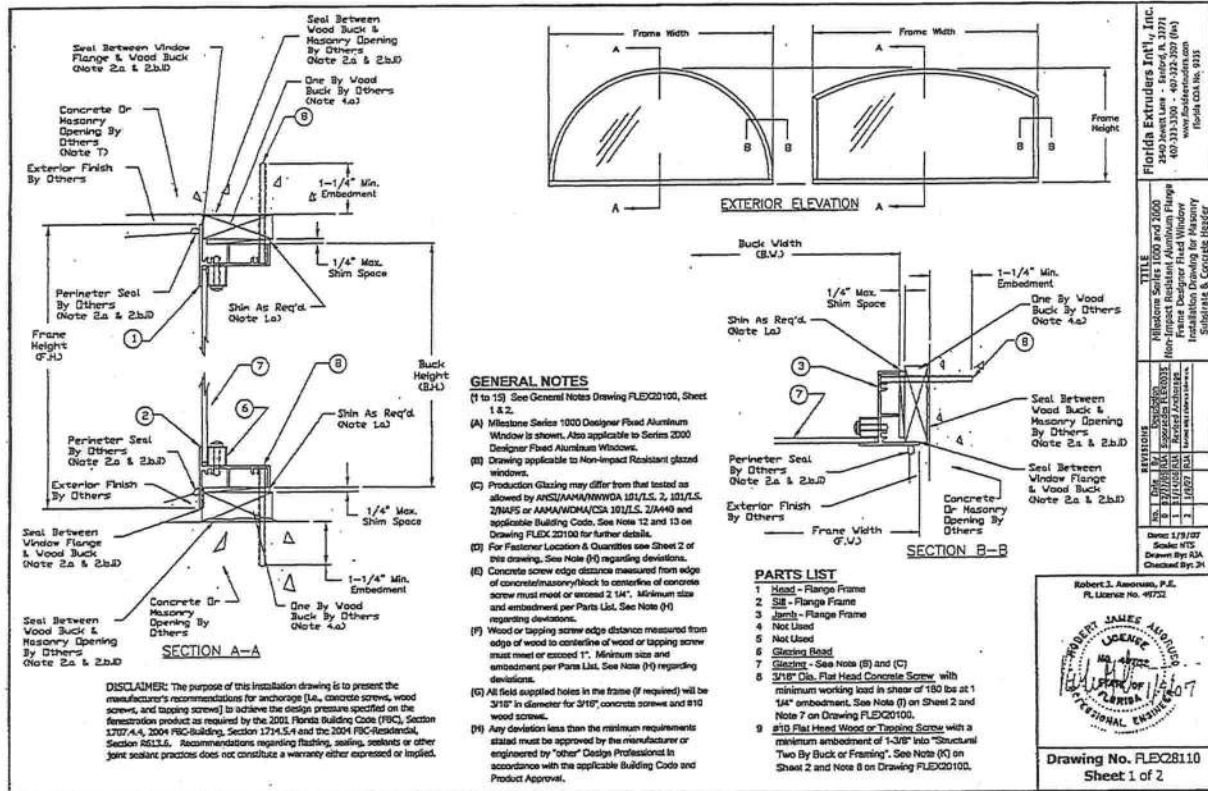
- (9) Installations depicted in these instructions acceptable for design pressures to 70 PSF for the window sizes shown in the table. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener location table and shall be determined in accordance with Note 13 of FLEX20100.

- (10) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWFA 101/LS 2, 101/LS 2/NAFS or AAMA/NWFA/CSA 101/LS 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

- (11) Two by wood buck and/or framing at the head and jamb to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.

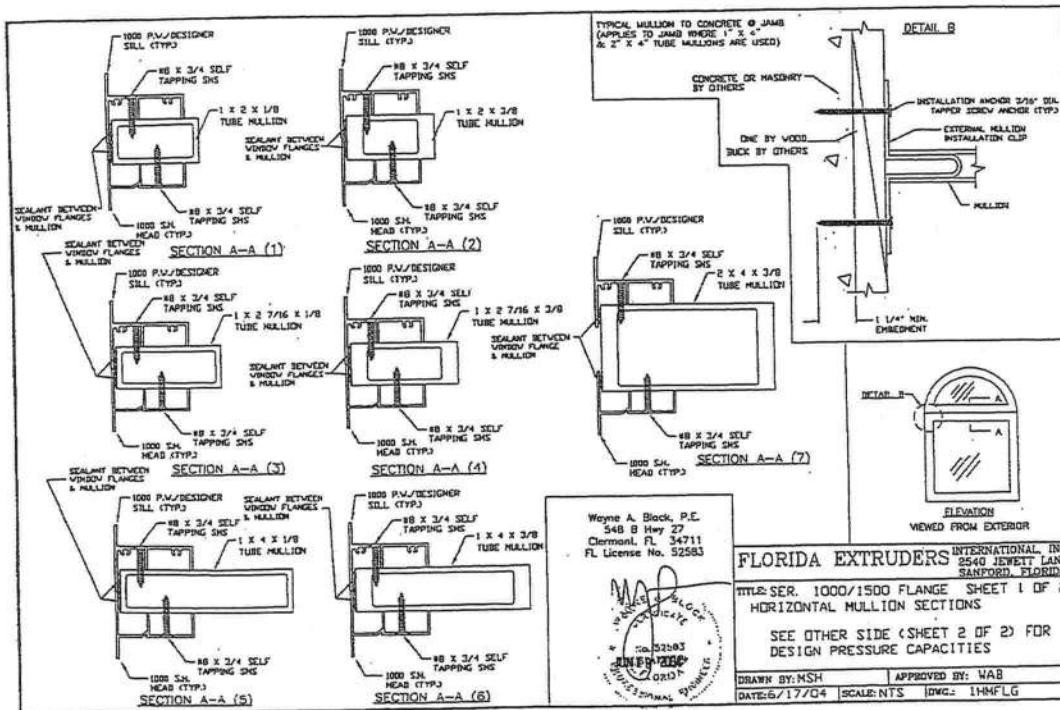
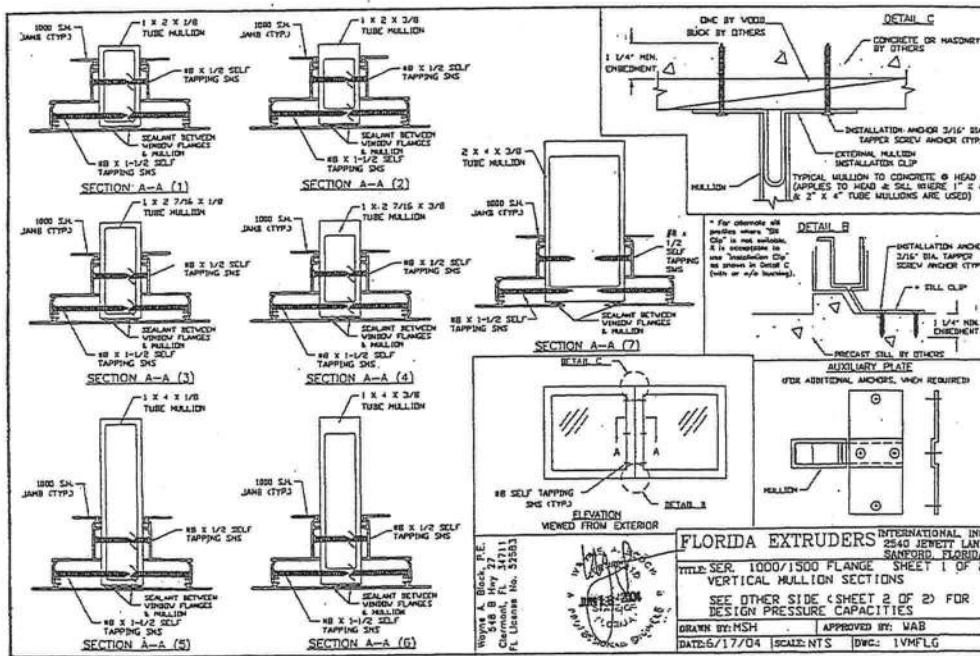
- (12) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

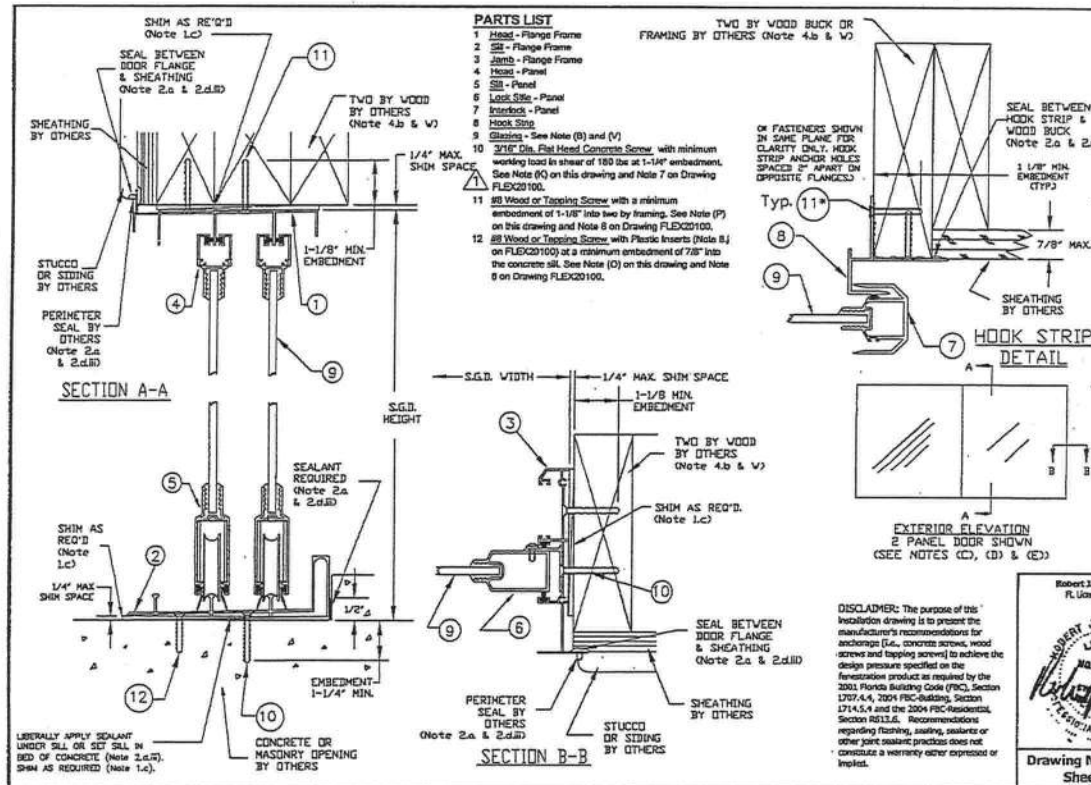
Drawing No. FLEX21110
Sheet 2 of 2



FASTENER QUANTITIES TABLE (See Elevation View which depicts for illustrative purposes only maximum number of fasteners in Head & Jamb)

Series 1000 Horizontal Slider OX - CX Configuration				
Size Code	Frame (1)		Fastener Quantities (2)	
	Width	Height	Head	Jamba
1002	28 1/2	28	4	2
1004	28 1/2	36 3/8	4	2
1006	28 1/2	30 5/8	4	2
1008	28 1/2	36 1/4	4	2
1010	28 1/2	63	4	2
1012	28 1/2	72	4	2
1014	30 1/2	28	4	2
1016	30 1/2	36 3/8	4	2
1018	30 1/2	30 5/8	4	2
1020	30 1/2	36 1/4	4	2
1022	30 1/2	63	4	2
1024	30 1/2	72	4	2
1026	32 1/2	28	4	2
1028	32 1/2	36 3/8	4	2
1030	32 1/2	30 5/8	4	2
1032	32 1/2	36 1/4	4	2
1034	32 1/2	63	4	2
1036	32 1/2	72	4	2
1038	34 1/2	28	4	2
1040	34 1/2	36 3/8	4	2
1042	34 1/2	30 5/8	4	2
1044	34 1/2	36 1/4	4	2
1046	34 1/2	63	4	2
1048	34 1/2	72	4	2
1050	36 1/2	28	4	2
1052	36 1/2	36 3/8	4	2
1054	36 1/2	30 5/8	4	2
1056	36 1/2	36 1/4	4	2
1058	36 1/2	63	4	2
1060	36 1/2	72	4	2
1062	38 1/2	28	4	2
1064	38 1/2	36 3/8	4	2
1066	38 1/2	30 5/8	4	2
1068	38 1/2	36 1/4	4	2
1070	38 1/2	63	4	2
1072	38 1/2	72	4	2
1074	40 1/2	28	4	2
1076	40 1/2	36 3/8	4	2
1078	40 1/2	30 5/8	4	2
1080	40 1/2	36 1/4	4	2
1082	40 1/2	63	4	2
1084	40 1/2	72	4	2
1086	42 1/2	28	4	2
1088	42 1/2	36 3/8	4	2
1090	42 1/2	30 5/8	4	2
1092	42 1/2	36 1/4	4	2
1094	42 1/2	63	4	2
1096	42 1/2	72	4	2
1098	44 1/2	28	4	2
1100	44 1/2	36 3/8	4	2
1102	44 1/2	30 5/8	4	2
1104	44 1/2	36 1/4	4	2
1106	44 1/2	63	4	2
1108	44 1/2	72	4	2
1110	46 1/2	28	4	2
1112	46 1/2	36 3/8	4	2
1114	46 1/2	30 5/8	4	2
1116	46 1/2	36 1/4	4	2
1118	46 1/2	63	4	2
1120	46 1/2	72	4	2
1122	48 1/2	28	4	2
1124	48 1/2	36 3/8	4	2
1126	48 1/2	30 5/8	4	2
1128	48 1/2	36 1/4	4	2
1130	48 1/2	63	4	2
1132	48 1/2	72	4	2
1134	50 1/2	28	4	2
1136	50 1/2	36 3/8	4	2
1138	50 1/2	30 5/8	4	2
1140	50 1/2	36 1/4	4	2
1142	50 1/2	63	4	2
1144	50 1/2	72	4	2
1146	52 1/2	28	4	2
1148	52 1/2	36 3/8	4	2
1150	52 1/2	30 5/8	4	2
1152	52 1/2	36 1/4	4	2
1154	52 1/2	63	4	2
1156	52 1/2	72	4	2
1158	54 1/2	28	4	2
1160	54 1/2	36 3/8	4	2
1162	54 1/2	30 5/8	4	2
1164	54 1/2	36 1/4	4	2
1166	54 1/2	63	4	2
1168	54 1/2	72	4	2
1170	56 1/2	28	4	2
1172	56 1/2	36 3/8	4	2
1174	56 1/2	30 5/8	4	2
1176	56 1/2	36 1/4	4	2
1178	56 1/2	63	4	2
1180	56 1/2	72	4	2
1182	58 1/2	28	4	2
1184	58 1/2	36 3/8	4	2
1186	58 1/2	30 5/8	4	2
1188	58 1/2	36 1/4	4	2
1190	58 1/2	63	4	2
1192	58 1/2	72	4	2
1194	60 1/2	28	4	2
1196	60 1/2	36 3/8	4	2
1198	60 1/2	30 5/8	4	2
1200	60 1/2	36 1/4	4	2
1202	60 1/2	63	4	2
1204	60 1/2	72	4	2
1206	62 1/2	28	4	2
1208	62 1/2	36 3/8	4	2
1210	62 1/2	30 5/8	4	2
1212	62 1/2	36 1/4	4	2
1214	62 1/2	63	4	2
1216	62 1/2	72	4	2
1218	64 1/2	28	4	2
1220	64 1/2	36 3/8	4	2
1222	64 1/2	30 5/8	4	2
1224	64 1/2	36 1/4	4	2
1226	64 1/2	63	4	2
1228	64 1/2	72	4	2
1230	66 1/2	28	4	2
1232	66 1/2	36 3/8	4	2
1234	66 1/2	30 5/8	4	2
1236	66 1/2	36 1/4	4	2
1238	66 1/2	63	4	2
1240	66 1/2	72	4	2
1242	68 1/2	28	4	2
1244	68 1/2	36 3/8	4	2
1246	68 1/2	30 5/8	4	2
1248	68 1/2	36 1/4	4	2
1250	68 1/2	63	4	2
1252	68 1/2	72	4	2
1254	70 1/2	28	4	2
1256	70 1/2	36 3/8	4	2
1258	70 1/2	30 5/8	4	2
1260	70 1/2	36 1/4	4	2
1262	70 1/2	63	4	2
1264	70 1/2	72	4	2
1266	72 1/2	28	4	2
1268	72 1/2	36 3/8	4	2
1270	72 1/2	30 5/8	4	2
1272	72 1/2	36 1/4	4	2
1274	72 1/2	63	4	2
1276	72 1/2	72	4	2
1278	74 1/2	28	4	2
1280	74 1/2	36 3/8	4	2
1282	74 1/2	30 5/8	4	2
1284	74 1/2	36 1/4	4	2
1286	74 1/2	63	4	2
1288	74 1/2	72	4	2
1290	76 1/2	28	4	2
1292	76 1/2	36 3/8	4	2
1294	76 1/2	30 5/8	4	2
1296	76 1/2	36 1/4	4	2
1298	76 1/2	63	4	2
1300	76 1/2	72	4	2
1302	78 1/2	28	4	2
1304	78 1/2	36 3/8	4	2
1306	78 1/2	30 5/8	4	2
1308	78 1/2	36 1/4	4	2
1310	78 1/2	63	4	2
1312	78 1/2	72	4	2
1314	80 1/2	28	4	2
1316	80 1/2	36 3/8	4	2
1318	80 1/2	30 5/8	4	2
1320	80 1/2	36 1/4	4	2
1322	80 1/2	63	4	2
1324	80 1/2	72	4	2
1326	82 1/2	28	4	2
1328	82 1/2	36 3/8	4	2
1330	82 1/2	30 5/8	4	2
1332	82 1/2	36 1/4	4	2
1334	82 1/2	63	4	2
1336	82 1/2	72	4	2
1338	84 1/2	28	4	2
1340	84 1/2	36 3/8	4	2
1342	84 1/2	30 5/8	4	2
1344	84 1/2	36 1/4	4	2
1346	84 1/2	63	4	2
1348	84 1/2	72	4	2
1350	86 1/2	28	4	2
1352	86 1/2	36 3/8	4	2
1354	86 1/2	30 5/8	4	2
1356	86 1/2	36 1/4	4	2
1358	86 1/2	63	4	2
1360	86 1/2	72	4	2
1362	88 1/2	28	4	2
1364	88 1/2	36 3/8	4	2
1366	88 1/2	30 5/8	4	2
1368	88 1/2	36 1/4	4	2
1370	88 1/2	63	4	2
1372	88 1/2	72	4	2
1374	90 1/2	28	4	2
1376	90 1/2	36 3/8	4	2
1378	90 1/2	30 5/8	4	2
1380	90 1/2	36 1/4	4	2
1382	90 1/2	63	4	2
1384	90 1/2	72	4	2
1386	92 1/2	28	4	2
1388	92 1/2	36 3/8	4	2
1390	92 1/2	30 5/8	4	2
1392	92 1/2	36 1/4	4	2
1394	92 1/2	63	4	2
1396	92 1/2	72	4	2
1398	94 1/2	28	4	2
1400	94 1/2	36 3/8	4	2
1402	94 1/2	30 5/8	4	2
1404	94 1/2	36 1/4	4	2
1406	94 1/2	63	4	2
1408	94 1/2	72	4	2
1410	96 1/2	28	4	2
1412	96 1/2	36 3/8	4	2
1414	96 1/2	30 5/8	4	2
1416	96 1/2	36 1/4	4	2
1418	96 1/2	63	4	2
1420	96 1/2	72	4	2
1422	98 1/2	28	4	2
1424	98 1/2	36 3/8	4	2
1426	98 1/2	30 5/8	4	2
1428	98 1/2	36 1/4	4	2
1430	98 1/2	63	4	2
1432	98 1/2	72	4	2
1434	100 1/2	28	4	2
1436	100 1/2	36 3/8	4	2
1438	100 1/2	30 5/8	4	2
1440	100 1/2	36 1/4	4	2
1442	100 1/2	63	4	2
1444	100 1/2	72	4	2
1446	102 1/2	28	4	2
1448	102 1/2	36 3/8	4	2
1450	102 1/2	30 5/8	4	2
1452	102 1/2	36 1/4	4	2
1454	102 1/2	63	4	2
1456	102 1/2	72	4	2
1458	104 1/2	28	4	2
1460	104 1/2	36 3/8	4	2
1462	104 1/2	30 5/8	4	2
1464	104 1/2	36 1/4	4	2
1466	104 1/2	63	4	2
1468	104 1/2	72	4	2
1470	106 1/2	28	4	2
1472	106 1/2	36 3/8	4	2
1474	106 1/2	30 5/8	4	2
1476	106 1/2	36 1/4	4	2
1478	106 1/2	63	4	2
1480	106 1/2	72	4	2
1482	108 1/2	28	4	2
1484	108 1/2	36 3/8	4	2
1486	108 1/2	30 5/8	4	2
1488	108 1/2	36 1/4	4	2
1490	108 1/2	63		



[illegible]

Prewelder Installation Check Notes:

- 1) In some cases concrete screws are only required in one of the factory applied installation hole sets (i.e., a hole set being the two holes lying in a plane perpendicular to the width of the door).
- 2) In some cases concrete screws are required in all of the "C" or "D" hole sets of the holes will require concrete screws and the remaining holes will be filled in accordance with Notes C and D.
- 3) In some cases concrete screws are required in both factory applied installation hole sets. "C" and "D" hole sets in valves are not required in valves with concrete screws are required. The remaining holes will be filled in accordance with Notes C and D.
- 4) "C" means, install two concrete screws in one set of installation holes.
- 5) "D" means, install two concrete screws in two sets of installation holes.
- 6) "C" means, install two concrete screws in three sets of installation holes.
- 7) "D" means, install two concrete screws in four sets of installation holes.
- 8) "C" means, install two concrete screws in five sets of installation holes.
- 9) "D" means, install two concrete screws in six sets of installation holes.
- 10) "C" means, install two concrete screws in seven sets of installation holes.
- 11) "D" means, install two concrete screws in eight sets of installation holes.

2) Location of additional screws in holes that are not prioritized are as follows:

- a) First, adjacent to inlets or butt lines in head & tail.
- b) Secondly, at each end and in head & tail near jammer corner, if needed.
- c) Location in head & tail other than in lines in a b.

3) Location of additional screws in valves that are not prioritized are as follows:

- a) First, adjacent to holes in jaws.
- b) Secondly, in each end of jaws near jaws & sit corners.
- c) Location in jaws other than in lines in a b.

4) CS = concrete screw WS = wood screw

GENERAL NOTES

- (1) to 125) See General Notes Drawing FLE02010, Sheet 1 & 2.
- (A) Milestone Series 1000 Sliding Glass Door is shown. Also applicable to Milestone Series 2000 Sliding Glass Door.
- (B) Drawing applicable to Non-Impact Resistant Sliding Glass Doors glazed with 3/16" fully tempered glass. See Note (V).
- (C) Where "X" represents movable panel and "O" represents fixed panel, approved configurations are as listed on the fastener installation chart on Sheet 2.
- (D) All configurations listed on the fastener chart are shown on this drawing, however installation sections "A-A", "B-B" & Hook Strip Detail apply to installation of all approved configurations.
- (E) For pocket door configurations, use closest by-pass door size and configuration in the chart to the finished opening of the pocket door.
- (F) Concrete screw edge distance: measured from edge of concrete/masonry/block to centerline of concrete screw must meet or exceed 2 1/4" Minimum size and embedment per Parts List. See Note (3) regarding deviations.
- (G) Wood screw edge distance: measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1 1/2". Minimum size and embedment per Parts List. See Note (3) regarding deviations.
- (H) All lead supplied holes in the frame (if required) will be 3/16" in diameter.
- (I) Wood screw withdrawal values used to generate the fastening requirements are based on Spruce-Pine-Fir with a Specific Gravity of 0.50.
- See Note (3) regarding deviations.
- The deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

FASTENER INSTALLATION INSTRUCTIONS - FLEC24111

3/16" DIA. CONCRETE SCREW WITH STEEL:

- (K) Where door is installed in an opening with a masonry or concrete sill, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw sizes, embedment and load requirements. See FLE0031010, Note 7 for additional concrete screw requirements.
- (L) See fastener installation chart this sheet for concrete screw quantities and additional installation requirements.
- (M) Install one concrete screw in each pair of factory installed fastener holes unless noted. See "Parts List" on Sheet 1 of this drawing for concrete screw sizes, embedment and load requirements. See FLE0031010, Note 7 for additional concrete screw requirements.
- (N) Alternate concrete screw installation fasteners from top to back in the sill frame member when both sets of holes are not used.
- (O) All remaining factory installed fastener holes in the sill not used for concrete screw installation shall be anchored with plastic anchors. See FLE0031010, Note 8 for details and 48 wood screws of sufficient length to provide min. 7/8" in. embedment into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for wood screw sizes and embedment requirements. See FLE0031010, Note 8 for additional wood screw requirements.

#8 WOOD SCREW WITH STRUCTURAL TWO BY WOOD BUCK FOR HEAD, JAMBS AND POCKET DOOR HOOK STRIP:

- (P) Where the head, jamb and post door hook strip is installed in a wood opening with a structural two by wood buck and/or framing, use #8 wood screws of sufficient length to achieve 1-1/8" minimum embedment into the two by wood buck and/or framing receiving the point as all factory installed installation holes. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment requirements. See FLE020100, Note 8 for additional wood screw requirements.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

- (T) If each door size is not listed, fastener installation chart, use fastener quantity listed for next larger size, for the appropriate design pressure required.
- (U) Installations depicted in these instructions acceptable for design pressures to 55 PSF for the window sizes shown in chart. Design Pressures (D.P.s) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener chart. Positive and small interior pressure in accordance with ASCE 7-13, 6.5.4.2.
- (V) Production Glazing may differ from that tested as allowed by ANSI/AAMA-NWMA 1017.15, 1017.15.2, 2/NAPS or AAMA/NWMA/CSA 1017.15.2/M40 and applicable Building Code. See Notes 12 and 13 on Drawing LE010.0 for further details.
- (W) Top by wind and/or framing to be secured fastener to transfer the load to the masonry, concrete or structural substrate per the FBC and the engineer of record's details as applicable.
- (X) See FBC 2019, Notes 16 to 15 for additional FBC Code Compliance.

REVISIONS		TITLE
No.	Date	Description
0	3/27/87	As Issued
1	3/28/87	As Issued for new H2SO4

Drawn By: JSA
 Checked By: JSA
 Date: 3/22/87
 Sheet: 1 of 1
 Project: H2S

Florida Extruders Int'l, Inc.
 2549 Jewett Lane - Sanford, FL 32771
 407-223-2330 - 407-223-1957 (fax)
 www.floridextruders.com
 Florida CDA No. 9335

v/Consolidated Service & Field
 Operations of JSA, M&E, etc.

Robert J. Amoroso, P.E.
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ROBERT JAMES ALDRICO
JOENSE
NO. 45772
FBI LABORATORY
3/8/01
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE

Drawing No. FLD24111
Sheet 1 of 2

Florida Extruders Int'l., Inc.
2540 Seventh Lane - Sanford, FL 32771
407-323-3300 - 407-323-3507 (fax)
www.floridextruders.com
Florida COA No. 9235

TITLE
Windows Series 1000 & 2000 Non-Impact Resistant Aluminum Squeeze Frame Sliding Glass Door Installation Drawing for Concrete Sill w/Concrete Screws & Wood

REVISIONS			
No.	Date	By	Description
0	3/7/75	ALA	Supersedes FLP-00337
1	3/02/07	ALA	Revised for new testing

Date: 3/02/03
 Scale: NTS
 Drawn By: RJA
 Checked By: J

Drawing No. FLEX24111
Sheet 2 of 2

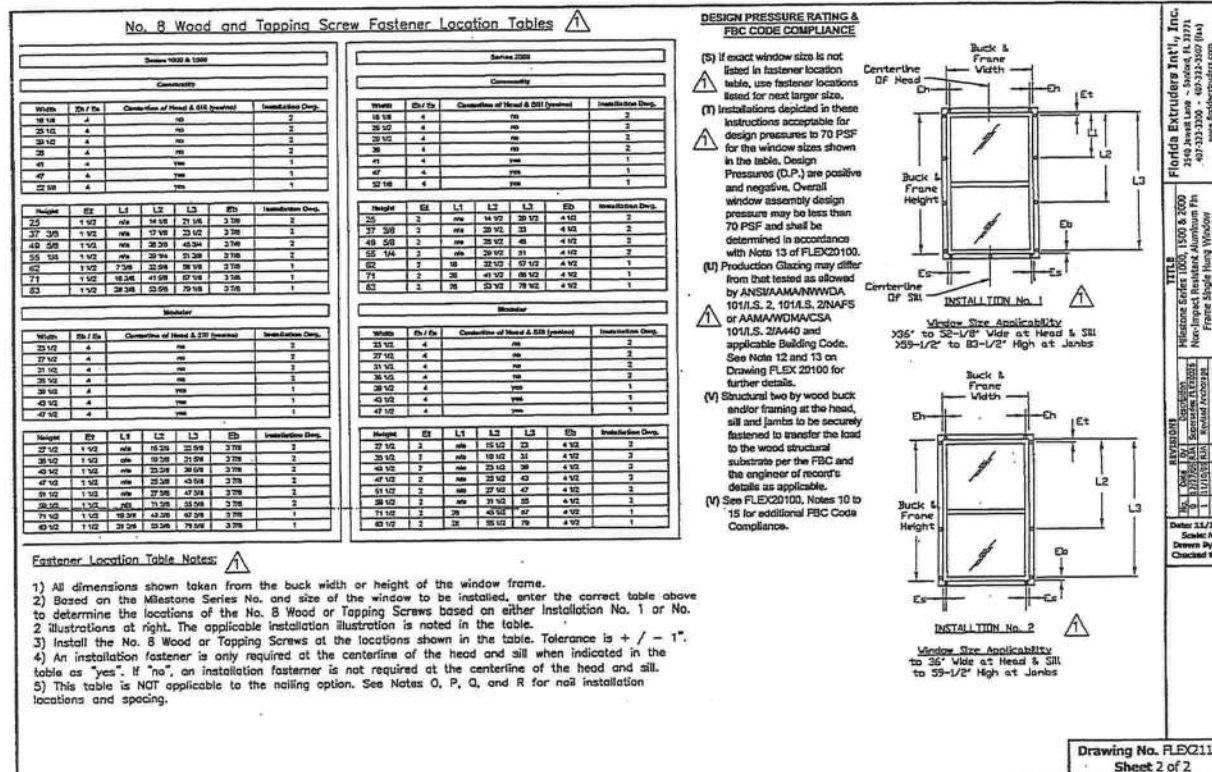
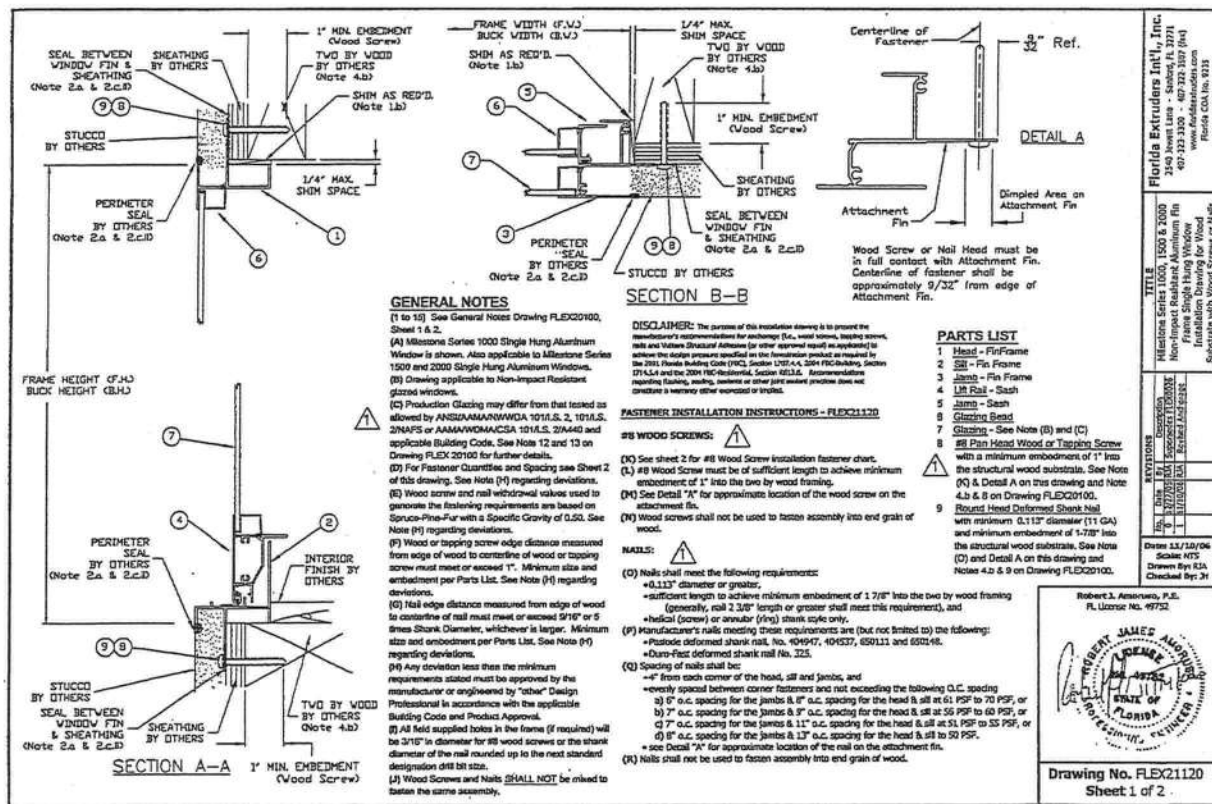
REVISIONS :
2-16-09 Updated to Code.

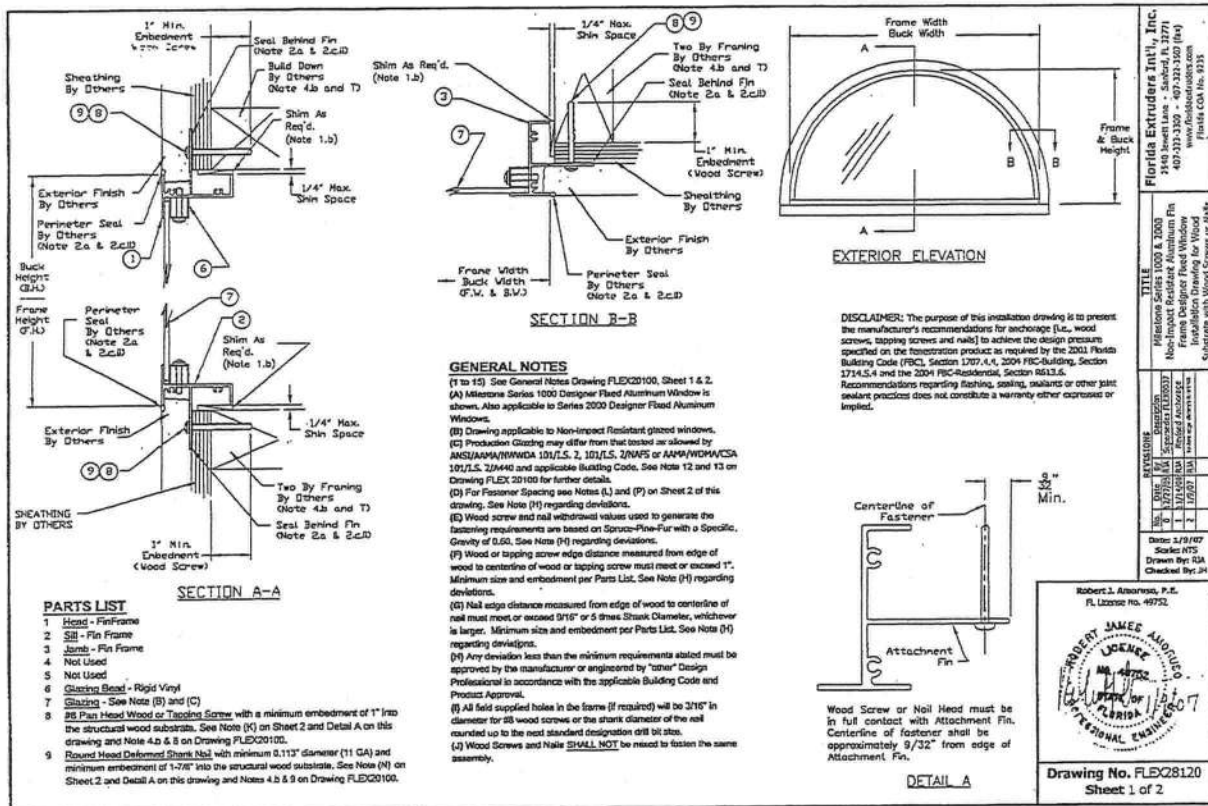
FLORIDA EXTRUDERS
WINDOWS IN BLOCK
6 of 6

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Maronda Homes

RELEASE DATE: 09/03/08 (407) 321-0064 4005 WARDONDA WAY SANFORD, FLORIDA





FASTENER INSTALLATION INSTRUCTIONS - FLEX28120

#8 WOOD SCREWS:

- (K) #8 Wood Screw must be of sufficient length to achieve minimum embedment of 1" into the two by wood framing or the build-down framing component.
- (L) #8 Wood Screw spacing shall be as follows:
- 4-1/2" maximum from each corner of head, sill or jamb;
 - evenly spaced between corner fasteners but not exceeding 16" o.c. spacing in head, sill or jamb for the following configurations at design pressures to 70 PSF,
 - eyebrow
 - half-circle arch
 - half-eyebrow
 - octagon
 - fan
 - pentoid
 - full-circle
 - half-circle
 - triangle
 - trapezoid
 - oval
 - evenly spaced between corner fasteners but not exceeding 15" o.c. spacing in head, sill or jamb for the following configurations at design pressures to 70 PSF,
 - quarter-circle
 - half-circle arch
 - half-fan
 - tolerance is +/- 1", and
 - this tolerance is applicable to the evenly spaced distance.
- Corner distance measured from frame/buck width or height dimension of frame.
- (M) Wood screws shall not be used to fasten assembly into end grain of wood.

NAILS:

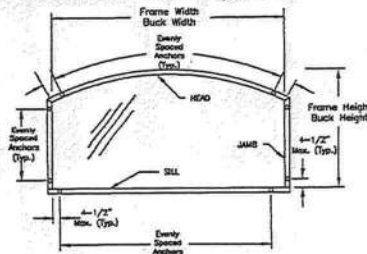
- (N) Nails shall meet the following requirements:
- 0.113" diameter or greater,
 - sufficient length to achieve minimum embedment of 1 7/8" into the two by wood or build-down framing (generally, nail 2 3/8" length or greater shall meet this requirement), and
 - helical (screw) or annular (ring) shank style only.
- (O) Manufacturer's nails meeting these requirements are (but not limited to) the following:
- Passive deformed shank nail, No. 404947, 404537, 550111 and 550149.
 - Duro-Fast deformed shank nail No. 325.
- (P) Spacing of nails shall be:
- 4-1/2" maximum from each corner of the head, sill and jamb;
 - evenly spaced between corner fasteners but not exceeding the o.c. spacing in head, sill and jamb for the following configurations at design pressures 46 to 70 PSF,
 - eyebrow 9" o.c. spacing
 - half-eyebrow 9" o.c. spacing
 - fan 6" o.c. spacing
 - half-fan 4" o.c. spacing
 - full-circle 7" o.c. spacing
 - half-circle 6" o.c. spacing
 - half-circle arch 6" o.c. spacing
 - quarter-circle 4" o.c. spacing
 - quarter-circle arch 4" o.c. spacing
 - oval 12" o.c. spacing
 - octagon 7" o.c. spacing
 - pentoid 5" o.c. spacing
 - triangle 5" o.c. spacing
 - trapezoid 5" o.c. spacing

(P) Spacing of nails shall be (continued):

- every spaced between corner fasteners but not exceeding the o.c. spacing in head, sill and jamb for the following configurations at design pressures to 45 PSF,
 - eyebrow 9" o.c. spacing
 - half-eyebrow 9" o.c. spacing
 - fan 6" o.c. spacing
 - half-fan 7" o.c. spacing
 - full-circle 11" o.c. spacing
 - half-circle 9" o.c. spacing
 - half-circle arch 9" o.c. spacing
 - quarter-circle 7" o.c. spacing
 - quarter-circle arch 7" o.c. spacing
 - oval 17" o.c. spacing
 - octagon 11" o.c. spacing
 - pentoid 9" o.c. spacing
 - triangle 9" o.c. spacing
 - trapezoid 9" o.c. spacing
 - tolerance is +/- 1", and
 - this tolerance is applicable to the evenly spaced distance.
- Corner distance measured from frame/buck width or height dimension of frame.
- (Q) Nails shall not be used to fasten assembly into end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

- (R) Installations depicted in these instructions acceptable for design pressures to 70 PSF with fastener spacing in Notes (L) and (P). Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than 70 PSF and shall be determined in accordance with Note 13 of FLEX20100.
- (S) Production Glazing may differ from that tested as allowed by ANSIA/WHWDA 101/LS. 2, 101/LS. 2/NAPS or ANSIA/WHWDA 101/LS. 2/NAPS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
- (T) Structural two by wood and/or framing at the head, sill and jamb to be securely fastened to transfer the load to the wood structural substrate per the FBC and the engineer of record's details as applicable.
- (U) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.



EXTERIOR ELEVATION

ANCHOR SPACING ILLUSTRATION
EYEBROW ARCH DESIGNER WINDOW

Drawing No. FLEX28120
Sheet 2 of 2

FLORIDA EXTRUDERS
WINDOWS IN FRAME
3 of 7

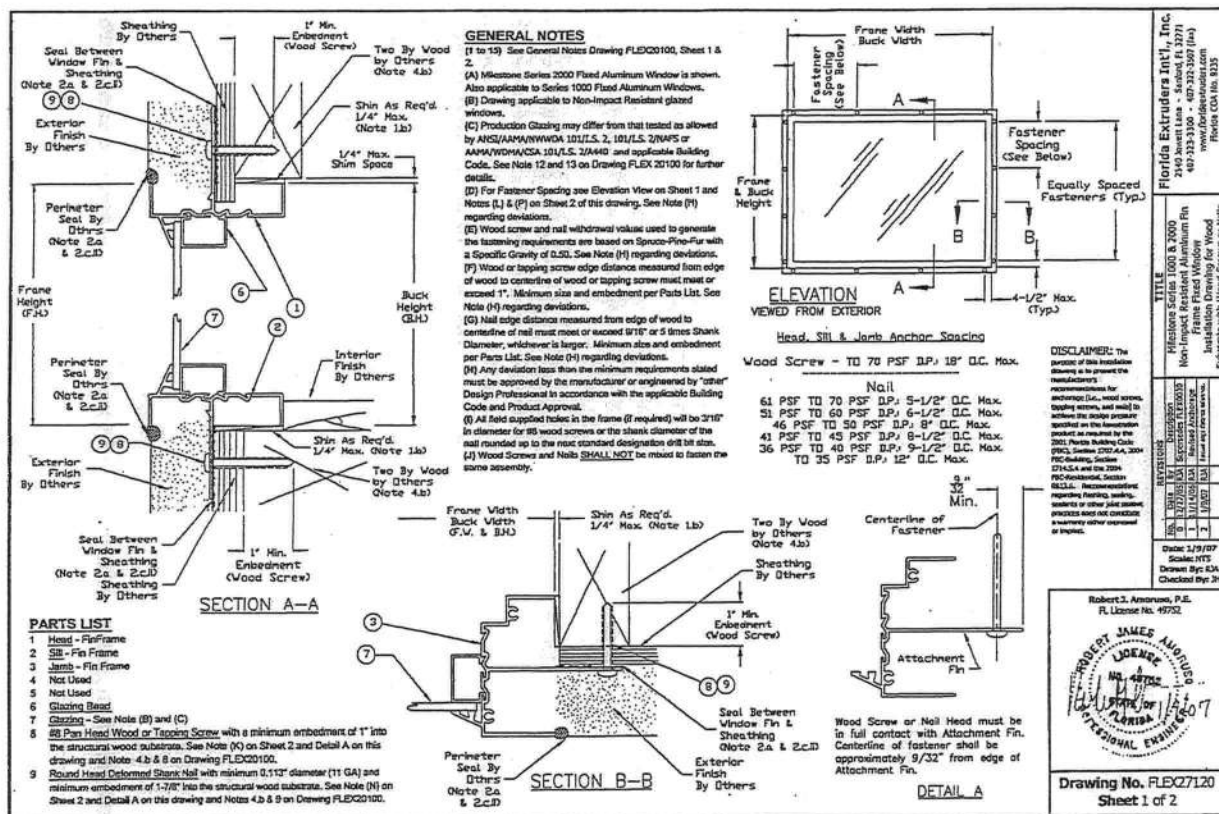
RELEASE DATE: 09/03/08

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Maronda Homes

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

REVISIONS:
2-16-09 Updated to Code.



FASTENER INSTALLATION INSTRUCTIONS - FLEX27120

#8 WOOD SCREWS:

- (K) #8 Wood Screw must be of sufficient length to achieve minimum embedment of 1" into the two by wood framing.
- (L) Spacing of wood screws shall be:
 - 4-1/2" max. from each corner of the head, sill and jambs, and
 - evenly spaced between corner fasteners but not exceeding 18" o.c. spacing for the head, sill and jambs as shown in Elevation View on Sheet 1 of this drawing.
 - Tolerance is +/- 1". This tolerance is applicable to the evenly spaced distance.
 - Corner distance measured from frame/buck width or height dimension of frame.
- (M) Wood screws shall not be used to fasten assembly into end grain of wood.

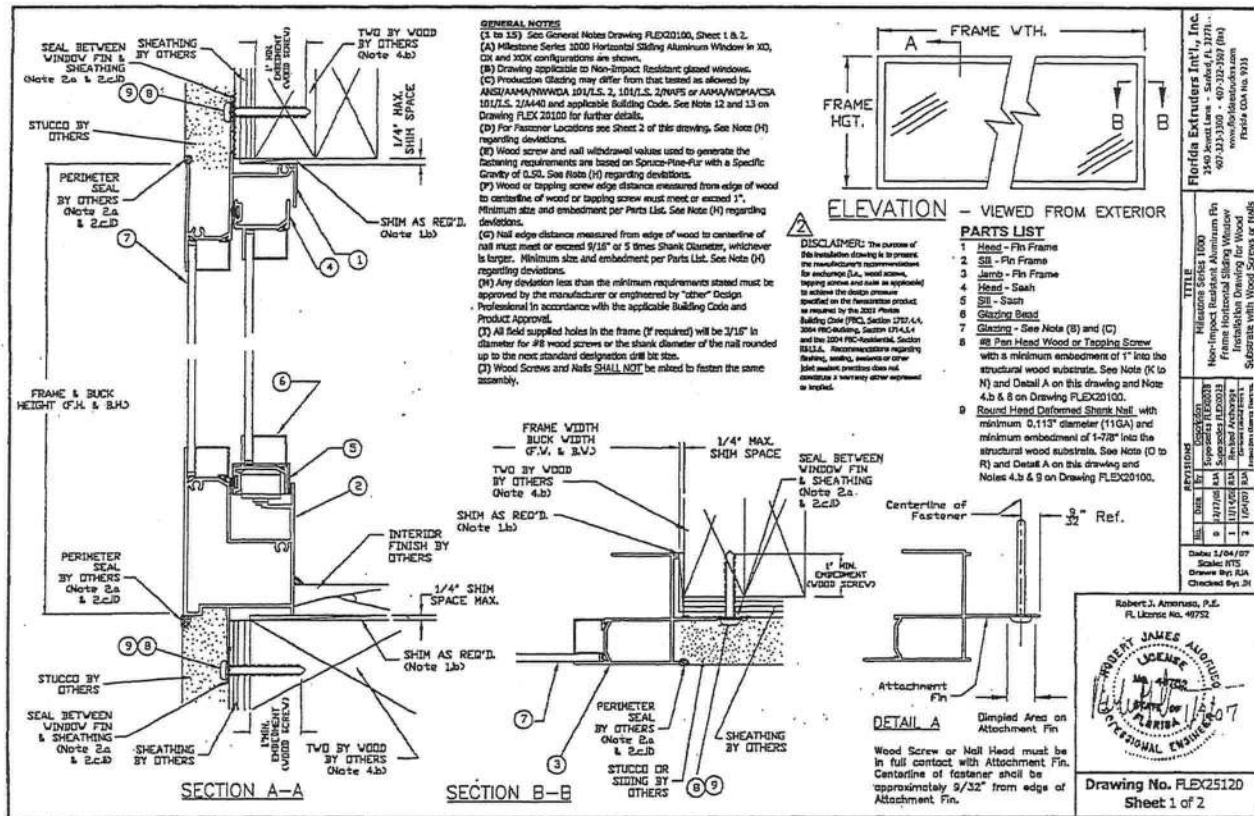
NAILS:

- (N) Nails shall meet the following requirements:
 - 0.113" diameter or greater,
 - sufficient length to achieve minimum embedment of 1 7/8" into the two by wood framing
 - generally, nail 2 3/8" length or greater shall meet this requirement, and
 - helical (screw) or annular (ring) shank style only.
- (O) Manufacturer's nails meeting these requirements are (but not limited to) the following:
 - Paslode deformed shank nail, No. 404947, 404537, 650111 and 650148.
 - Duro-Fast deformed shank nail No. 325.
- (P) Spacing of nails shall be:
 - 4-1/2" max. from each corner of the head, sill and jambs, and
 - evenly spaced between corner fasteners and not exceeding o.c. spacing for the head, sill and jambs as shown in Elevation View on Sheet 1 of this drawing.
 - Tolerance is +/- 1". This tolerance is applicable to the evenly spaced distance.
 - Corner distance measured from frame/buck width or height dimension of frame.
- (Q) Nails shall not be used to fasten assembly into end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

- (R) Installations depicted in these instructions acceptable for design pressures to 70 PSF with fastener spacing shown the Elevation View on Sheet 1 of this drawing for the following window sizes:
 - to 52 1/8" x 95
 - to 63" x 80"
 - to 71" x 71"
 - to 75" x 75"
 - to 82" x 55 1/4"
 - to 95" x 49 5/8"
 - to 119" x 37 3/8"
- Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than 70 PSF and shall be determined in accordance with Note 13 of FLEX20100.
- (S) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWMA 101/L.S. 2, 101/L.S. 2/NAFS or AAMA/NWMA/CSA 101/L.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX20100 for further details.
- (T) Structural two by wood buck and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the wood structural substrate per the FBC and the engineer of record's details as applicable.
- (U) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

Drawing No. FLEX27120
Sheet 2 of 2



No. 8 Wood and Tapping Screw Fastener Location Tables

Series 1000 Horizontal Slider XO/OX and XOX - Modular

J A M B S	Buck Height	No. Fasteners in each Jamb	Fastener Location			
			Eb	Et	L1	L2
J A M B S	20	2	0	0	N/A	N/A
	25	2	0	0	N/A	N/A
	30	2	0	0	25 1/2"	N/A
	35	2	0	0	19 3/4"	13 1/2"
	40	2	0	0	25 1/2"	16 1/2"
S	71	4	0	0	25 3/4"	16 1/2"

Series 1000 Horizontal Slider XO/OX - Modular						
		Buck Width	No. Fasteners in Head & Sill	Fastener Location		
				Es	Eh	L3
HEAD & SILL	20	4	4 1/8"	4 1/8"	8 1/4"	
	25	4	4 1/8"	4 1/8"	14 1/4"	
	30	4	4 1/8"	4 1/8"	20 1/4"	
	35	4	4 1/8"	4 1/8"	23 1/4"	
	50	4	4 1/8"	4 1/8"	28 1/4"	
	66	4	4 1/8"	4 1/8"	29 1/8"	
SILL	71	4	4 1/8"	4 1/8"	23 1/4"	

Series 1000 Horizontal Slider XOX - Modular						
H E A D S I L L		Sill Width	No. Fasteners in Head & Sill	Fastener Location		
				Es	Eh	L4
H E A D	S I L L	71	6	4 1/8	4 1/8	14 1/4
		83	6	4 1/8	4 1/8	14 1/4
		96	6	4 1/8	4 1/8	20 1/4
		107	6	4 1/8	4 1/8	28 1/4
		119	6	4 1/8	4 1/8	38 1/4

FASTENER INSTALLATION INSTRUCTIONS - FLEX20120

#8 WOOD SCREWS:

(K) See fastener location table and Elevation Views on this sheet for location of #8 Wood Screws.

(L) #8 Wood Screw must be of sufficient length to achieve minimum embedment of 1" into the two by wood framing.

(M) See Detail "A" on sheet 1 for approximate location of the wood screw in the attachment fin.

(N) Wood screws shall not be used to fasten assembly into and grain of wood.

NAILS:

(O) Nails shall meet the following requirements:

- 0.113" diameter or greater,
- sufficient length to achieve minimum embedment of 1.75" into the two by wood framing (generally, nail 2 3/8" length or greater shall meet this requirement), and
- helical (screw) or annular (ring) shank style only.

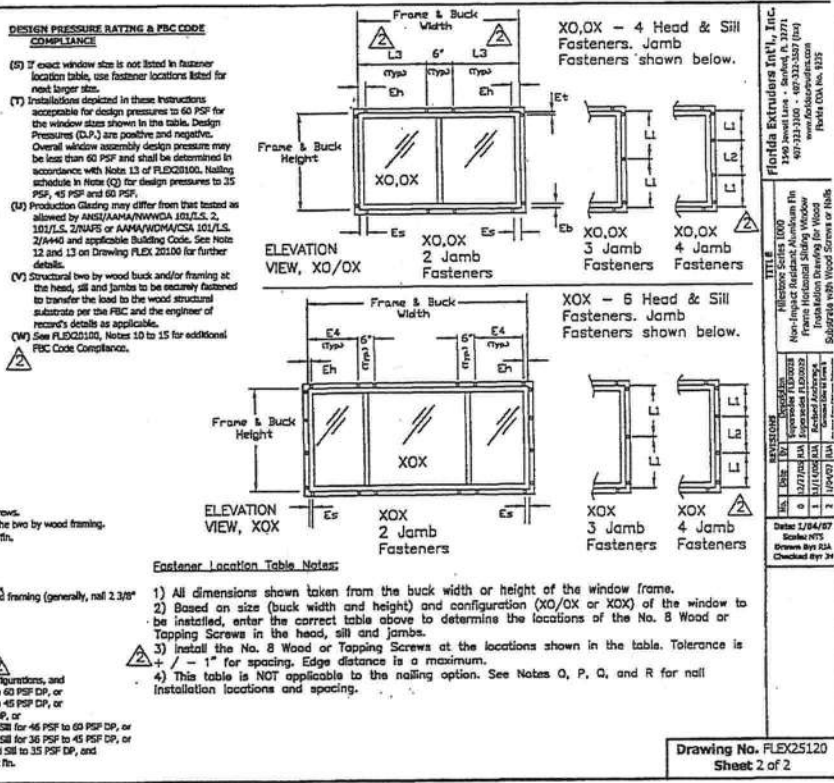
(P) Manufacturer's nails meeting these requirements are (but not limited to) the following:

- Paslode deformed shank nail, No. 40447, 40452, 620111 and 620146.
- Duo-Fast deformed shank nail No. 225.

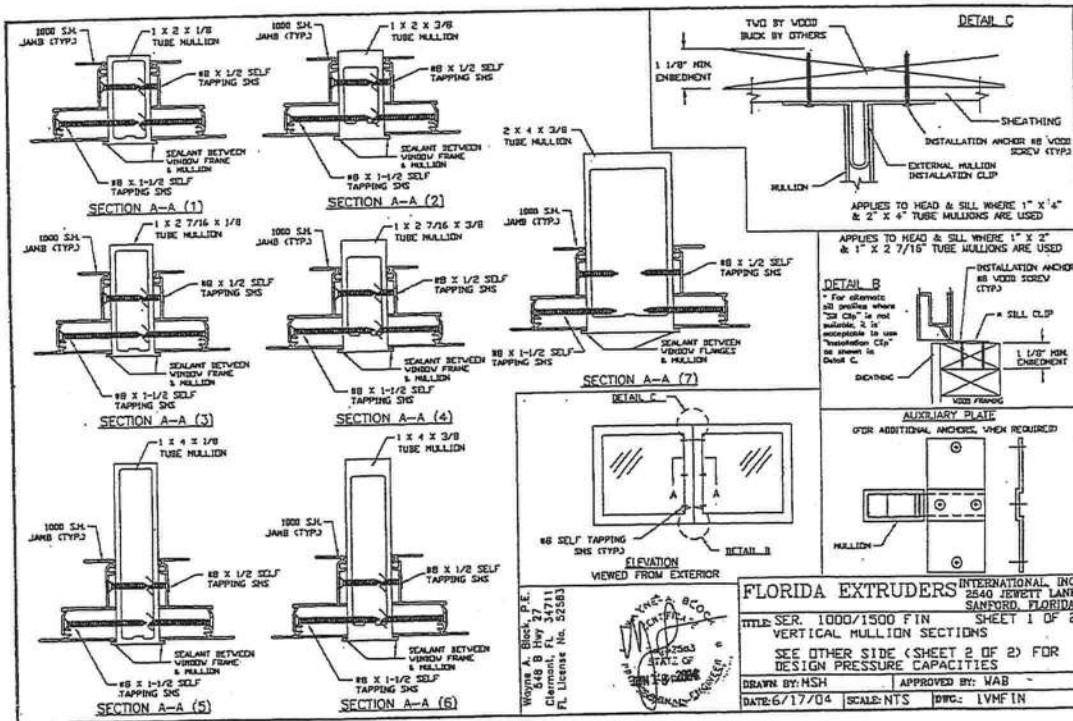
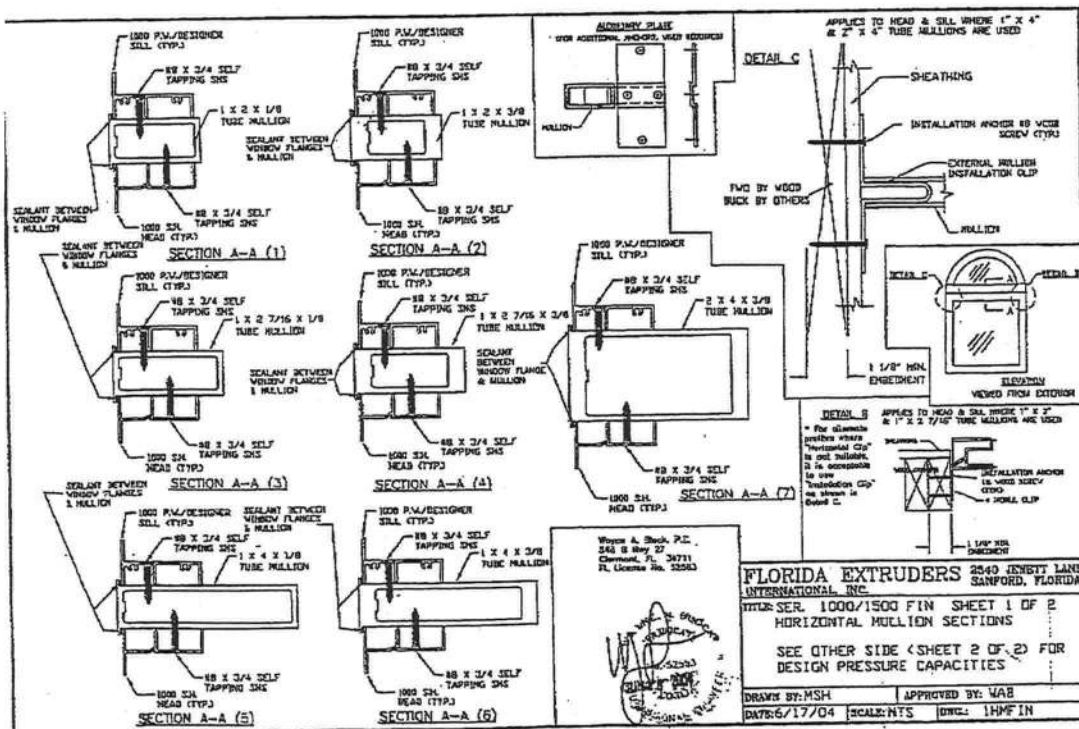
(Q) Location of nails shall be (+/- 1" tolerance on spacing, edge distance is a maximum):

- 4" maximum from each corner of the head, sill and jamb for XO/OX & XO/OX configurations, and
- for the XO/OX Configuration, 2" O.C. Max. for Jamb, Head and Sill for 45 PSF to 60 PSF DP, or
- for the XO/OX Configuration, 2" O.C. Max. for Jamb, Head and Sill for 35 PSF to 45 PSF DP, or
- for the XO/OX Configuration, 12" O.C. Max. for Jamb, Head and Sill for 45 PSF to 60 PSF DP, or
- for the XO/OX Configuration, 7" O.C. Max. for Jamb & 5" O.C. max. for Head and Sill for 45 PSF to 60 PSF DP, or
- for the XO/OX Configuration, 9" O.C. Max. for Jamb & 7" O.C. max. for Head and Sill for 35 PSF to 45 PSF DP, or
- for the XO/OX Configuration, 12" O.C. Max. for Jamb & 9" O.C. max. for Head and Sill for 35 PSF DP, and
- See Detail "A" on sheet 1 for approximate location of the nail in the attachment fin.

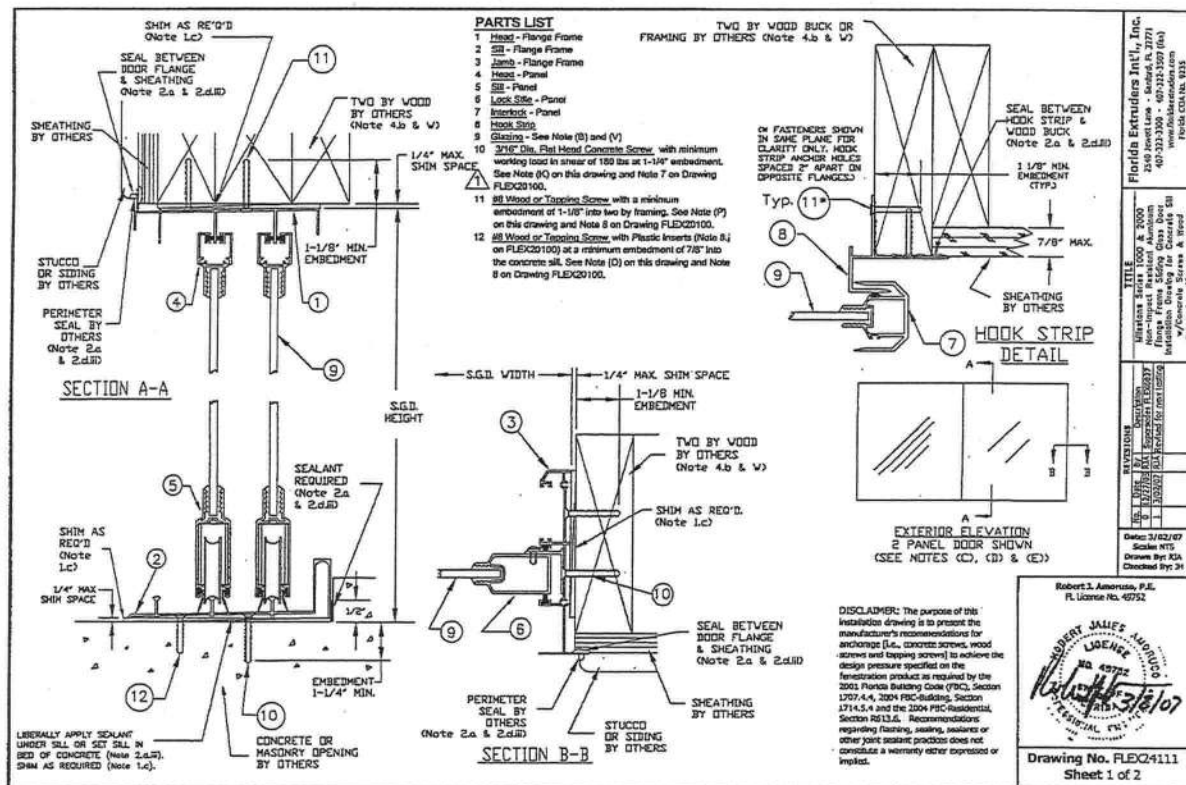
(R) Nails shall not be used to fasten assembly into and grain of wood.



Drawing No. FLEX25120
Sheet 2 of 2



SHEET 3



Fastener Installation Chart						
Size Code	Configuration	Fastener		Minimum Spacing of Fasteners		Min. Spacing of Fasteners (in. & mm)
		Width	Height	Joist (No. 5 W3)	Roof (No. 6 W3)	
9000	XXX, CXX, CXX 45	45	8	12	12	3 (76.2)
9008	XXX, CXX, CXX 60	60	8	12	12	3 (76.2)
9008	XXX, CXX, CXX 75	75	8	12	12	3 (76.2)
9008	XXX, CXX, CXX 90	90	8	12	12	3 (76.2)
10064	XXX, CXX, CXX 120	120	8	12	12	3 (76.2)
9000	XXX, CXX, CXX 80	80	10	10	10	3 (76.2)
9000	XXX, CXX, CXX 90	90	10	10	10	3 (76.2)
9000	XXX, CXX, CXX 100	100	10	10	10	3 (76.2)
9000	XXX, CXX, CXX 120	120	10	10	10	3 (76.2)
90100	XXX, CXX, CXX 75	75	12	12	12	4 (101.6)
90100	XXX, CXX, CXX 90	90	12	12	12	4 (101.6)
9000	CXX 100	100	8	10	10	3 (76.2)
10088	CXX 145	145	8	14	14	3 (76.2)
10088	CXX 161	161	8	14	14	3 (76.2)
9000	CXX 130	130	10	10	10	3 (76.2)
12000	CXX 145	145	10	14	14	3 (76.2)
12000	CXX 161	161	10	14	14	3 (76.2)
90100	CXX 100	100	12	12	12	4 (101.6)
120100	CXX 145	145	12	14	14	4 (101.6)
120100	CXX 161	161	12	14	14	4 (101.6)
9000	CXX 100	100	8	10	10	3 (76.2)
9000	CXX 120	120	8	10	10	3 (76.2)
9000	CXX 140	140	8	10	10	3 (76.2)
9000	CXX 160	160	8	10	10	3 (76.2)
9000	CXX 180	180	8	10	10	3 (76.2)
9000	CXX 200	200	8	10	10	3 (76.2)
9000	CXX 220	220	8	10	10	3 (76.2)
9000	CXX 240	240	8	10	10	3 (76.2)
9000	CXX 260	260	8	10	10	3 (76.2)
9000	CXX 280	280	8	10	10	3 (76.2)
9000	CXX 300	300	8	10	10	3 (76.2)
9000	CXX 320	320	8	10	10	3 (76.2)
9000	CXX 340	340	8	10	10	3 (76.2)
9000	CXX 360	360	8	10	10	3 (76.2)
9000	CXX 380	380	8	10	10	3 (76.2)
9000	CXX 400	400	8	10	10	3 (76.2)
9000	CXX 420	420	8	10	10	3 (76.2)
9000	CXX 440	440	8	10	10	3 (76.2)
9000	CXX 460	460	8	10	10	3 (76.2)
9000	CXX 480	480	8	10	10	3 (76.2)
9000	CXX 500	500	8	10	10	3 (76.2)
9000	CXX 520	520	8	10	10	3 (76.2)
9000	CXX 540	540	8	10	10	3 (76.2)
9000	CXX 560	560	8	10	10	3 (76.2)
9000	CXX 580	580	8	10	10	3 (76.2)
9000	CXX 600	600	8	10	10	3 (76.2)
9000	CXX 620	620	8	10	10	3 (76.2)
9000	CXX 640	640	8	10	10	3 (76.2)
9000	CXX 660	660	8	10	10	3 (76.2)
9000	CXX 680	680	8	10	10	3 (76.2)
9000	CXX 700	700	8	10	10	3 (76.2)
9000	CXX 720	720	8	10	10	3 (76.2)
9000	CXX 740	740	8	10	10	3 (76.2)
9000	CXX 760	760	8	10	10	3 (76.2)
9000	CXX 780	780	8	10	10	3 (76.2)
9000	CXX 800	800	8	10	10	3 (76.2)
9000	CXX 820	820	8	10	10	3 (76.2)
9000	CXX 840	840	8	10	10	3 (76.2)
9000	CXX 860	860	8	10	10	3 (76.2)
9000	CXX 880	880	8	10	10	3 (76.2)
9000	CXX 900	900	8	10	10	3 (76.2)
9000	CXX 920	920	8	10	10	3 (76.2)
9000	CXX 940	940	8	10	10	3 (76.2)
9000	CXX 960	960	8	10	10	3 (76.2)
9000	CXX 980	980	8	10	10	3 (76.2)
9000	CXX 1000	1000	8	10	10	3 (76.2)
9000	CXX 1020	1020	8	10	10	3 (76.2)
9000	CXX 1040	1040	8	10	10	3 (76.2)
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9000	CXX 1080	1080	8	10	10	3 (76.2)
9000	CXX 1100	1100	8	10	10	3 (76.2)
9000	CXX 1120	1120	8	10	10	3 (76.2)
9000	CXX 1140	1140	8	10	10	3 (76.2)
9000	CXX 1160	1160	8	10	10	3 (76.2)
9000	CXX 1180	1180	8	10	10	3 (76.2)
9000	CXX 1200	1200	8	10	10	3 (76.2)
9000	CXX 1220	1220	8	10	10	3 (76.2)
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9000	CXX 1320	1320	8	10	10	3 (76.2)
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9000	CXX 1640	1640	8	10	10	3 (76.2)
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9000	CXX 2820	2820	8	10	10	3 (76.2)
9000	CXX 2840	2840	8	10	10	3 (76.2)
9000	CXX 2860	2860	8	10	10	3 (76.2)
9000	CXX 2880	2880	8	10	10	3 (76.2)
9000	CXX 2900	2900	8	10	10	3 (76.2)
9000	CXX 2920	2920	8	10	10	3 (76.2)
9000	CXX 2940	2940	8	10	10	3 (76.2)
9000	CXX 2960	2960	8	10	10	3 (76.2)
9000	CXX 2980	2980	8	10	10	3 (76.2)
9000	CXX 3000	3000	8	10	10	3 (76.2)
9000	CXX 3020	3020	8	10	10	3 (76.2)
9000	CXX 3040	3040	8	10	10	3 (76.2)
9000	CXX 3060	3060	8	10	10	3 (76.2)
9000	CXX 3080	3080	8	10	10	3 (76.2)
9000	CXX 3100	3100	8	10	10	3 (76.2)
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9000	CXX 3160	3160	8	10	10	3 (76.2)
9000	CXX 3180	3180	8	10	10	3 (76.2)
9000	CXX 3200	3200	8	10	10	3 (76.2)
9000	CXX 3220	3220	8	10	10	3 (76.2)
9000	CXX 3240	3240	8	10	10	3 (76.2)
9000	CXX 3260	3260	8	10	10	3 (76.2)
9000	CXX 3280	3280	8	10	10	3 (76.2)
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9000	CXX 3380	3380	8	10	10	3 (76.2)
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9000	CXX 3440	3440	8	10	10	3 (76.2)
9000	CXX 3460	3460	8	10	10	3 (76.2)
9000	CXX 3480	3480	8	10	10	3 (76.2)
9000	CXX 3500	3500	8	10	10	3 (76.2)
9000	CXX 3520	3520	8	10	10	3 (76.2)
9000	CXX 3					

Preparer/ Installation/ Check Notes:

- 1) In some cases concrete screws are only required in one of the factory applied installation holes (see (A)), a hole being taken the two holes lying in a plane perpendicular to the width of the door.
- 2) In some cases concrete screws are required in two of the factory applied installation holes (see (D)) through "DZ" designations in which case 4 configurations two concrete screws are required. The remaining holes in the "DZ" need no screw.
- 3) "D1" means, install two concrete screws in one set of installation holes.
- 4) "D2" means, install two concrete screws in two sets of installation holes.
- 5) "D3" means, install two concrete screws in three sets of installation holes.
- 6) "D4" means, install two concrete screws in four sets of installation holes.
- 7) "D5" means, install two concrete screws in five sets of installation holes.
- 8) "D6" means, install two concrete screws in six sets of installation holes.
- 9) "D7" means, install two concrete screws in seven sets of installation holes.
- 10) "D8" means, install two concrete screws in eight sets of installation holes.
- 11) Location of additional concrete screws in head & tail must also be identified as follows:
 - a) If not stated in literature or if not asked in head & tail, U.S.
 - b) Secondly, at each end of head & tail new jamb corner, if needed.
 - c) Location in head & tail other than in head & tail, if asked.
- 12) Location of additional concrete screws in jamb must be identified as follows:
 - a) First, adjacent to lock in jamb.
 - b) Secondly, at each end of jamb new jamb & set corners.
 - c) Location in jamb other than adjacent to lock, if asked.
- 13) GSI = Glue in place and MS = screw in place.

GENERAL NOTES

- (C) to 15) See General Notes Drawn: FLEX2010, Sheet 1 & 2 .
- (A) Milestone Series 1000 Sliding Glass Door, shown. Also applicable to Milestone Series 2000 Sliding Glass Door.
- (B) Drawing applicable to Non-Impact Resistant Sliding Glass Doors glazed with 3/16" fully tempered glass. See Note (V).
- (C) Where "2" represents moving panel and "10" represents fixed panel, approved configurations are as listed on the fastener installation chart on Sheet 2.
- (D) Not all configurations listed on the fastener chart are shown on this drawing, however installation sections "A-A", "B-B" & Hook Strip Detail apply to installation of all approved configurations.
- (E) For pocket door configurations, use closest by-pass door size and configuration in the chart to the finished opening of the pocket door.
- (F) Concrete screw edge distances measured from edge of concrete/masonry/pilot to centerline of concrete screw must meet or exceed 2 1/4" Minimum size and embedment per Parts List. See Note (C) regarding deviations.
- (G) Concrete screw edge distances measured from edge of concrete/masonry/pilot to centerline of wood or metal fastener must meet or exceed 1". Minimum size and embedment per Parts List. See Note (C) regarding deviations.
- (H) All solid filled bolts in the frame (if required) will be 3/16" in diameter.
- (I) Wood screw withdrawal values used to generate the fastening requirements are based on Spruce-Pine-Fir with a Specific Gravity of 0.50.
- (J) See Note (C) regarding deviations.
- (K) Any deviation from the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

FASTENER INSTALLATION INSTRUCTIONS - FLE024111

3/16" DIA. CONCRETE SCREW WITH STILL:

- (K) Where door is installed in an opening with a masonry or concrete sill, use 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw size and embedment and load requirements. See FLEC02100, Note 7 for additional concrete screw requirements.
- (L) See fastener installation chart this sheet for concrete screw quantities and additional installation requirements.
- (M) Install one concrete screw in each pair of fastener installation holes unless noted otherwise on the fastener installation chart. It is acceptable to install a 3/16" diameter concrete screw with a 1-1/4" embedment in all holes in the sill which will exceed the minimum requirements of the Fastener Installation Chart.
- (N) Alternate concrete screw installation fasteners from top to back in the sill frame member when both sets of holes are not used.
- (O) All remaining factory applied installation fastener holes in the sill not used for concrete screw installation shall be anchored with plastic anchors (see FLEC02100, Note 8 on Sheet 1) and fasten screws of sufficient length to achieve min. 1" in concrete or masonry. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment requirements. See FLEC02100, Note 8 for additional wood screw requirements.
- #8 WOOD SCREW WITH STRUCTURAL TWO BY TWO BUCK FOR HEAD, JAMBS AND POCKET DOOR HOOK STRIP:**
- (P) Where the head, jamb and pocket door hook strip is installed in a wood opening with a structural two by wood buck and/or framing, use #8 wood screws of sufficient length to achieve 1-1/8" minimum embedment into the two by wood buck and/or framing receiving the point of all factory applied installation holes. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment requirements. See FLEC02100, Note 8 for additional wood screw requirements.
- (Q) See fastener installation chart this sheet for #8 wood screw requirements in jamb(s), head and hook strip.
- (R) Not used.
- (S) Wood screws shall not be used to fasten against end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

- (T) If exact door size is not listed in fastener installation chart, use fastener quantity listed for next larger size, for the appropriate design pressure required.
- (U) Installations depicted in these instructions accomplish design pressures to 55 PSF for the window sizes shown in the chart. Design Pressures (D.P.s) are positive and negative. Overall window assembly design pressures may be less than that shown in the chart. Fastener sizes and shall be determined in accordance with Note 12 of FLECO2000.
- (V) Production Glazing may differ from that tested as allowed by ANSI/AAMA-NW1017.1, 2, 1017.1.5, 2/NAPS or AAMA/NW1014/CSA 101.1.2.1/AA40 and applicable Building Code. See Note 12 and 13 on Drawing FLECO 2000 for further details.
- (W) Two by two holdup or framing to be securely fastened to transfer the load to the masonry, concrete or other structural member per the RBC and the engineer of record details as applicable.
- (X) See FLECO2000, Notes 16 to 18 for additional details. See Code Comments.

Drawing No. FLE04111
Sheet 2 of 2

REVISIONS :
2-16-09 Updated to Code

FLORIDA EXTRUDERS
WINDOWS IN FRAME
7 of 7

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Maronda Homes

(407) 321-0064 4005 MARCONA WAY SANFORD, 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

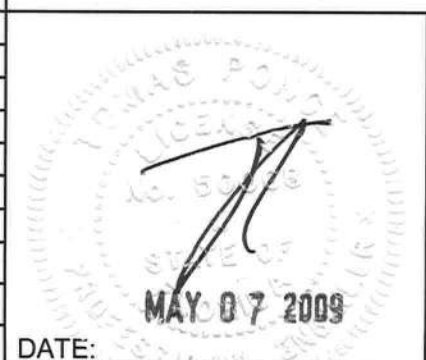
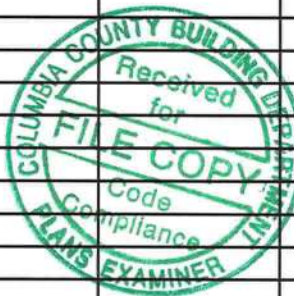
PLAN JOB #	LOT	ADDRESS	DIV/SUB	MODEL	NANTUCKET 'M' 4BED BLOCK
9TM01501	15-1	414 SW TIMBER RIDGE DR	JAX-9TM	NATM42B RIGHT	

This structure was designed in accordance with, and meets the requirements of TPI standards and the FLORIDA 2007 BUILDING CODE for 140 M.P.H. Wind Zone. Truss loading is in accordance with ASCE 7-05. 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.

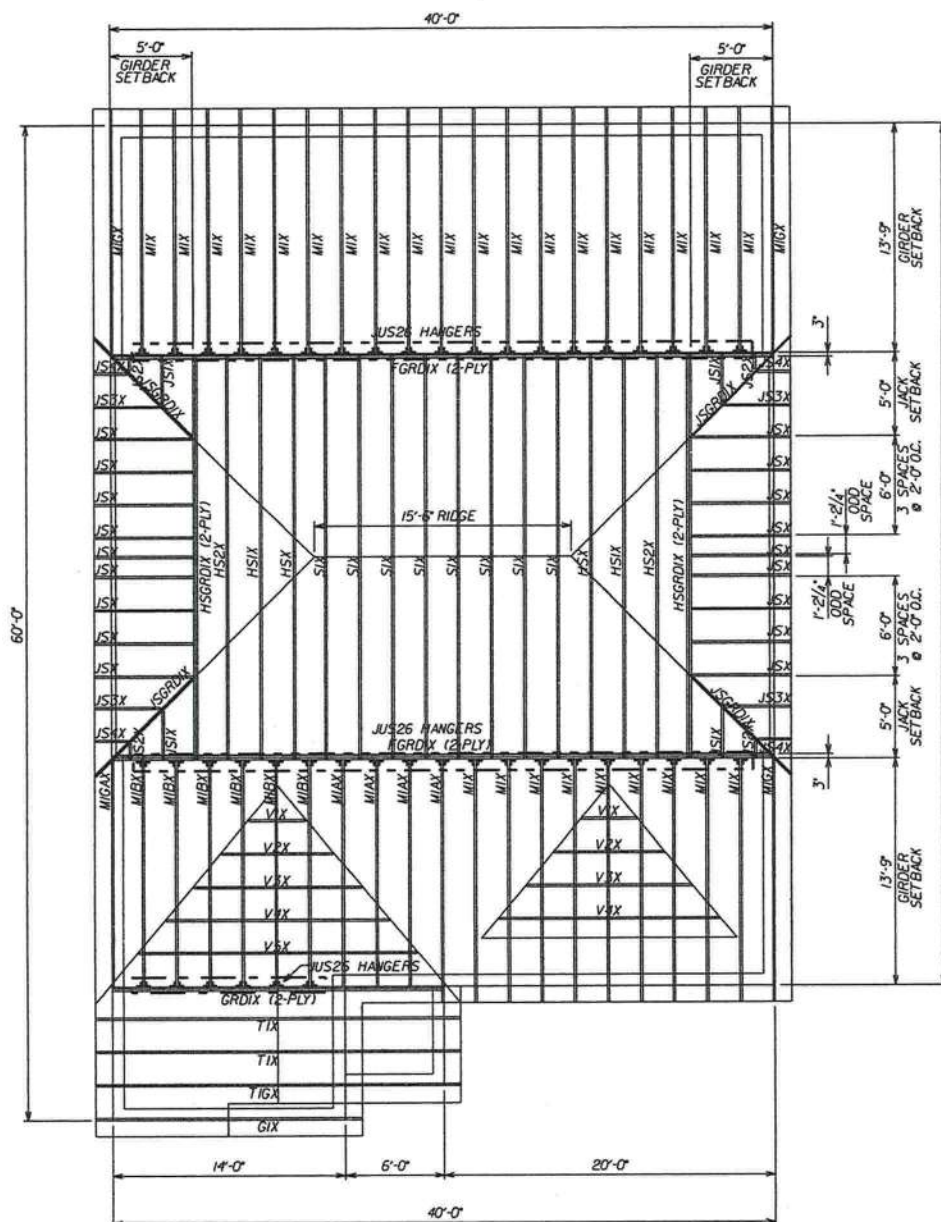
I, Tomas Ponce P.E. the Engineer of Record for the above referenced lot Have reviewed the package and confirmed that it matches the physical and structural Parameters found on the set of permit drawings.

Truss ID	Run Date	Drawing Reviewed	Truss ID	Run Date	Drawing Reviewed	No. of Eng. Dwgs:	39
Layout	04/15/09	04/17/09				Roof Loads-	
BCSI-B1	2008	04/17/09				TC Live:	16.0 psf
HIP TRUSS	02/09/09	04/17/09				TC Dead:	7.0 psf
VALLEY	02/09/09	04/17/09				BC Live:	10.0 psf
TOE NAIL	02/09/09	04/17/09				BC Dead:	10.0 psf
S1X	02/26/09	04/17/09	FLOOR TRUSSES			Total	43.0 psf
HSX	02/26/09	04/17/09	LAYOUT	09/28/07	04/17/09		
HS1X	02/26/09	04/17/09	FA	02/26/09	04/17/09	DurFac- Lbr:	1.25
HS2X	02/26/09	04/17/09	FB	02/26/09	04/17/09	DurFac- Plt:	1.25
HSGRD1X	02/26/09	04/17/09	FB-A	02/26/09	04/17/09	O.C. Spacing:	24.0"
FGRD1X	02/26/09	04/17/09	FC	02/26/09	04/17/09		
M1GX	02/26/09	04/17/09	FD	02/26/09	04/17/09		
M1GAX	02/26/09	04/17/09	FE	02/26/09	04/17/09		
M1X	02/26/09	04/17/09				Floor Loads-	
M1AX	02/26/09	04/17/09				TC Live:	40.0 psf
M1BX	02/26/09	04/17/09				TC Dead:	10.0 psf
JSGRD1X	03/04/09	04/17/09				BC Live:	0.0 psf
JSX	03/04/09	04/17/09				BC Dead:	5.0 psf
JS1X	02/26/09	04/17/09				Total	55.0 psf
JS2X	02/26/09	04/17/09				DurFac- Lbr:	1.00
JS3X	02/26/09	04/17/09				DurFac- Plt:	1.00
JS4X	02/26/09	04/17/09				O.C. Spacing:	24.0"
GRD1X	02/26/09	04/17/09					
T1X	02/26/09	04/17/09					
T1GX	02/26/09	04/17/09					
G1X	02/26/09	04/17/09					
V1X	02/26/09	04/17/09					
V2X	02/26/09	04/17/09	INV #	DESC	QNTY		
V3X	02/26/09	04/17/09	050060.0114	THD48			
V4X	02/26/09	04/17/09	050060.0047	THD28			
V5X	02/26/09	04/17/09	050060.0110	JUS26	44		
			050060.0058	THJ26			
			050060.0049	THD28-2			
			050060.0272	THD179			
			SEAT PLATES			57	
			FLOOR SEAT PLATES			26	



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 07 2009

HARDWARE MANUFACTURED
BY USP

* HARDWARE MANUFACTURED
BY SIMPSON

** HARDWARE MANUFACTURED
BY CLEVELAND

NANTUCKET "M" - FL

GARAGE: RIGHT

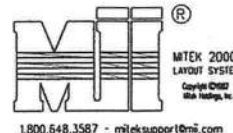
DRAWN BY: SWE
CHECKER: MIKE

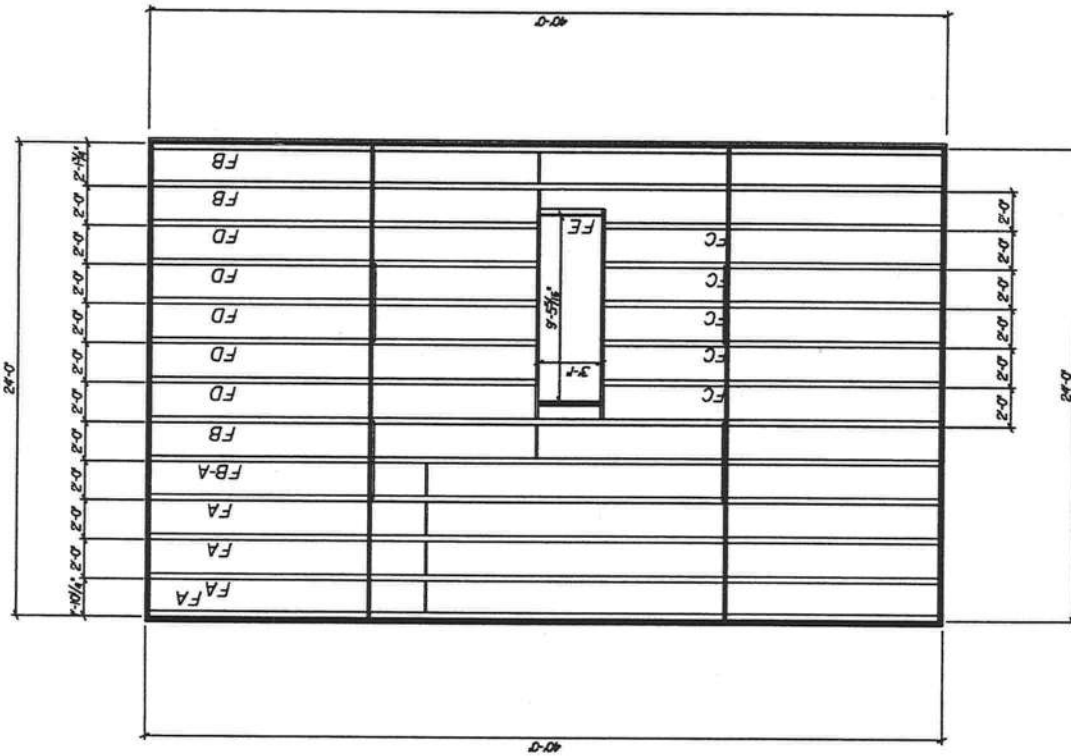
SCALE: NTS
DATE: 04-15-09

LOADING-FRC2007/TPI2002

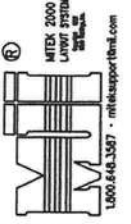
TC LIVE	16.00	SNOW LOAD	0.00
TC DEAD	7.00	LUMBER DOL	1.25
BC LIVE	0.00	PLATE DOL	1.25
BC DEAD	10.00	WIND	140
TOTAL	33.00	SPACING	2'-0"

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SCALE: 1/8" = 1'-0"
DATE: 09/28/07



DESIGNER: J. Pitcock
CHECKER: K. Cooper

LOADING-FRC2007/TPI2002

TC LIVE	40.00	SNOW LOAD	N/A
TC DEAD	10.00	LUMBER DOL	1.00
BC LIVE	0.00	PLATE DOL	1.00
BC DEAD	5.00	WIND	N/A
TOTAL	55.00	SPACING	2'-0"

NANTUCKET - FL

ALL ELEVATIONS

GARAGE : RIGHT

HARDWARE
LEGEND
HARDWARE MANUFACTURED
BY USP

- 1 THD28-2
- 2 THD48
- 3 THD48-IF
- 4 THD179

PERMIT

FT2

MAY 07 2009

WARNING! BCSI-B1 SUMMARY SHEET - GUIDE FOR HANDLING TRUSSES

Spans over 60' may require complex permanent bracing. Please refer to BCSI-B2 Summary Sheet - Truss Installation & Temporary Restraint/Bracing for more information.

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.

Warning! 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 arrioste incorrecto puede ser la caída de la estructura o aún peor, heridos o muertos.

Warning! 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. Lleve guantes y lentes protectores cuando corte los empaques.

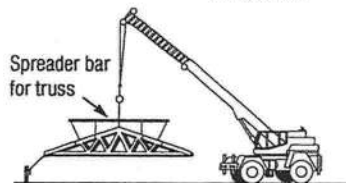
HANDLING — MANEJO

Warning! Avoid lateral bending. — Evite la flexión lateral.



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

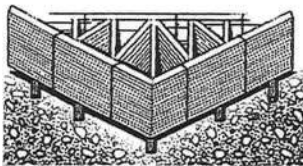
Utilice cuidado especial en días ventosos o cerca de cables eléctricos o de aeropuertos.



Use proper rigging and hoisting equipment. Use equipo apropiado para levantar e improvisar.

Warning! 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.



Check! 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 a 8 hasta 10 pies en el centro.

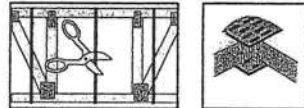
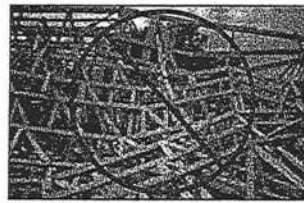
Para trusses guardados por más de una semana, cubra los paquetes para prevenir aumento de humedad pero permita ventilación.

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

NOTAS GENERALES

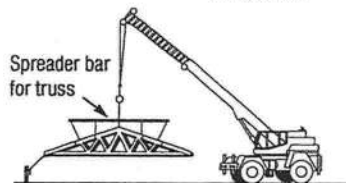
Los trusses no están marcados de ningún modo que identifique la frecuencia o localización de restricción lateral y arrioste diagonal temporales. Use las recomendaciones de manejo, instalación, restricción y arrioste temporal de los trusses. Vea el folleto BCSI Guía de Buena Práctica para el Manejo, Instalación, Restricción y Arrioste 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/Arrioste Permanente de Cuerdas y Miembros Secundarios*** para más información. El resto de los diseños de arriostres permanentes son la responsabilidad del Diseñador del Edificio.



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

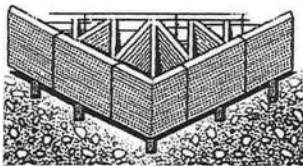
Utilice cuidado especial en días ventosos o cerca de cables eléctricos o de aeropuertos.



Use proper rigging and hoisting equipment. Use equipo apropiado para levantar e improvisar.

Warning! 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.



Check! 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 a 8 hasta 10 pies en el centro.

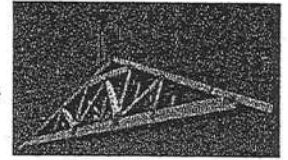
Para trusses guardados por más de una semana, cubra los paquetes para prevenir aumento de humedad pero permita ventilación.

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

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

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

Warning! 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 paquetes empaqueados individualmente.



Check! 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'. Use 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 hasta 60 pies. Use por lo menos tres puntos de levantar para paquetes más de 60 pies.

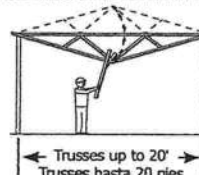
Warning! Do not over load supporting structure with truss bundle.
¡Advertencia! No sobrecargue la estructura apoyada con el paquete de trusses.

Check! Place truss bundles in stable position. Puse paquetes de trusses en una posición estable.

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

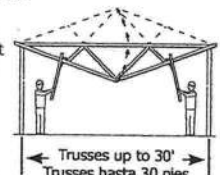
Check! Trusses 20' or less, support at peak.

Soporte del pico los trusses de 20 pies o menos.



Check! Trusses 30' or less, support at quarter points.

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



HOISTING OF SINGLE TRUSSES — LEVANTAMIENTO DE TRUSSES INDIVIDUALES

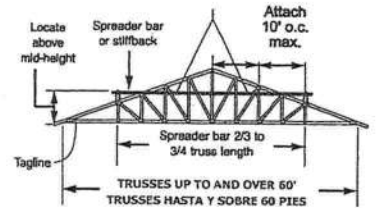
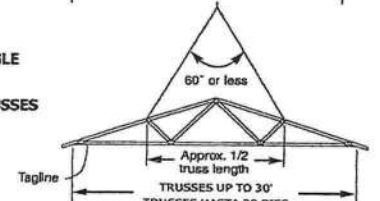
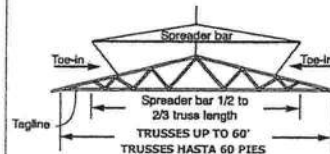
Check! Hold each truss in position with the erection equipment until top chord temporary lateral restraint is installed and the truss is fastened to the bearing points.

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 en el pico para levantar puede hacer daño al truss.



HOISTING RECOMMENDATIONS FOR SINGLE TRUSSES RECOMENDACIONES PARA LEVANTAR TRUSSES INDIVIDUALES



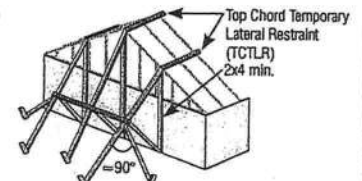
TEMPORARY RESTRAINT & BRACING RESTRICCIÓN Y ARRIOSTRE TEMPORAL

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

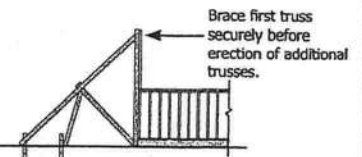
Vea el resumen BCSI-B2 - Instalación de Trusses y Restricción/Arrioste Temporal*** para más información.

Check! 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 línea con cada una de las filas de restricción lateral temporal de la cuerda superior (vea la tabla en la próxima columna).



Warning! Do not walk on unbraced trusses. No camine en trusses sueltos.



HANDLING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES

Please always consult a Professional Engineer.

STEPS TO SETTING TRUSSES

LAS MEDIDAS DE LA INSTALACIÓN DE LOS TRUSSES

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

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

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

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

RESTRAINT/BRACING FOR ALL PLANES OF TRUSSES

RESTRICCIÓN/ARRIOSTRE PARA TODOS PLANOS DE TRUSSES

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

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

1) TOP CHORD - CUERDA SUPERIOR

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

*Consult a Professional Engineer for trusses longer than 60'.

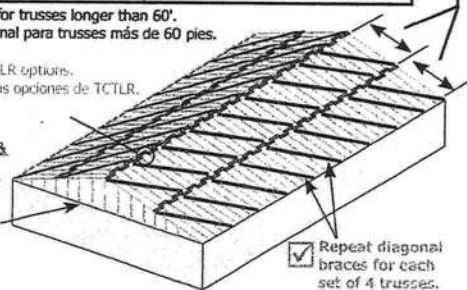
*Consulte a un Ingeniero Profesional para trusses más de 60 pies.

- 1) See BCSI-B2*** for TCLTR options.

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

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 Armazones Hastiales vea el resumen BCSI-B3 - Restricción/Arriostre Permanente de Cuerdas y Miembros Secundarios***



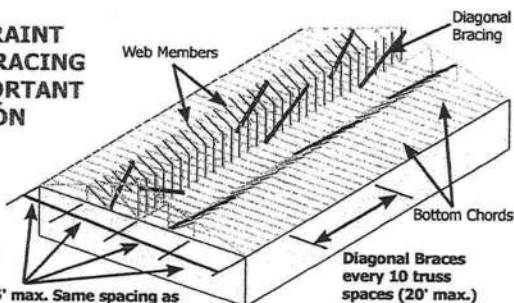
Repeat diagonal braces for each set of 4 trusses.

Repita los arriostres diagonales para cada grupo de 4 trusses.

2) WEB MEMBER PLANE - PLANO DE LOS MIEMBROS SECUNDARIOS

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

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



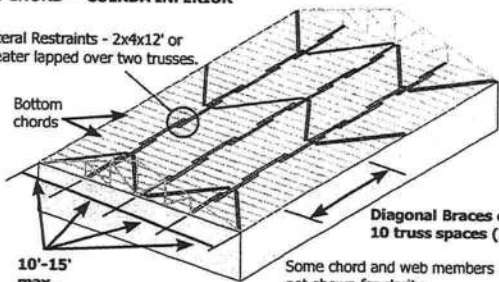
Diagonal Braces every 10 truss spaces (20' max.)

3) BOTTOM CHORD - CUERDA INFERIOR

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

Bottom chords

10'-15' max.



Diagonal Braces every 10 truss spaces (20' max.)

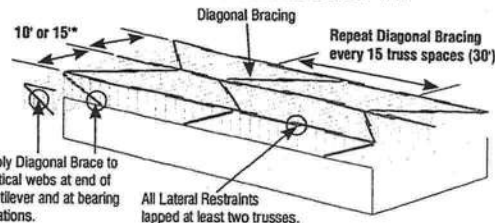
Some chord and web members not shown for clarity.

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

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

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

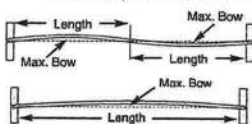
Vea el resumen BCSI-B7 - Restricción/Arriostre Temporal y Permanente para Trusses de Cuerdas Paralelas*** para más información.



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

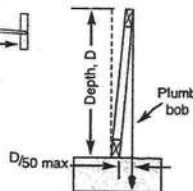
INSTALLING - INSTALACIÓN

- 1) Tolerances for Out-of-Plane.



- 1) Tolerances for Out-of-Plane.

Tolerancias para Fuera de Plano



Out of Plumb		Out of Plane	
D/50	D (ft.)	Max. Bow	Truss Length
1/4"	1'	3/4"	12.5'
1/2"	2'	7/8"	14.6'
3/4"	3'	1"	16.7'
1"	4'	1-1/8"	18.8'
1-1/4"	5'	1-1/4"	20.8'
1-1/2"	6'	1-3/8"	22.9'
1-3/4"	7'	1-1/2"	25.0'
2"	≥8'	1-3/4"	29.2'
		2"	≥33.3'

CONSTRUCTION LOADING - CARGA DE CONSTRUCCIÓN

- 1) 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.

- 2) Do not exceed maximum stack heights. Refer to BCSI-B4 Summary Sheet - Construction Loading*** for more information.

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



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

- 3) Do not overload small groups or single trusses.

No sobrecargue pequeños grupos o trusses individuales.

- 4) Never stack materials near a peak.

Nunca amontone los materiales cerca de un pico.

- 5) Place loads over as many trusses as possible.

Coloque las cargas sobre tantos trusses como sea posible.

- 6) Monitor loads with load bearing walls.

Monitoree las cargas con las paredes de carga.



ALTERATIONS - ALTERACIONES

- 1) Refer to BCSI-B5 Summary Sheet - Truss Damage, Jobsite Modifications & Installation Errors***

Vea el resumen BCSI-B5 Daños de Trusses, Modificaciones en la Obra y Errores de Instalación***

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

No corte, altere o perforo ningún miembro estructural de un truss, a menos que esté específicamente permitido en el Dibujo del Diseño del Truss.

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

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

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

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



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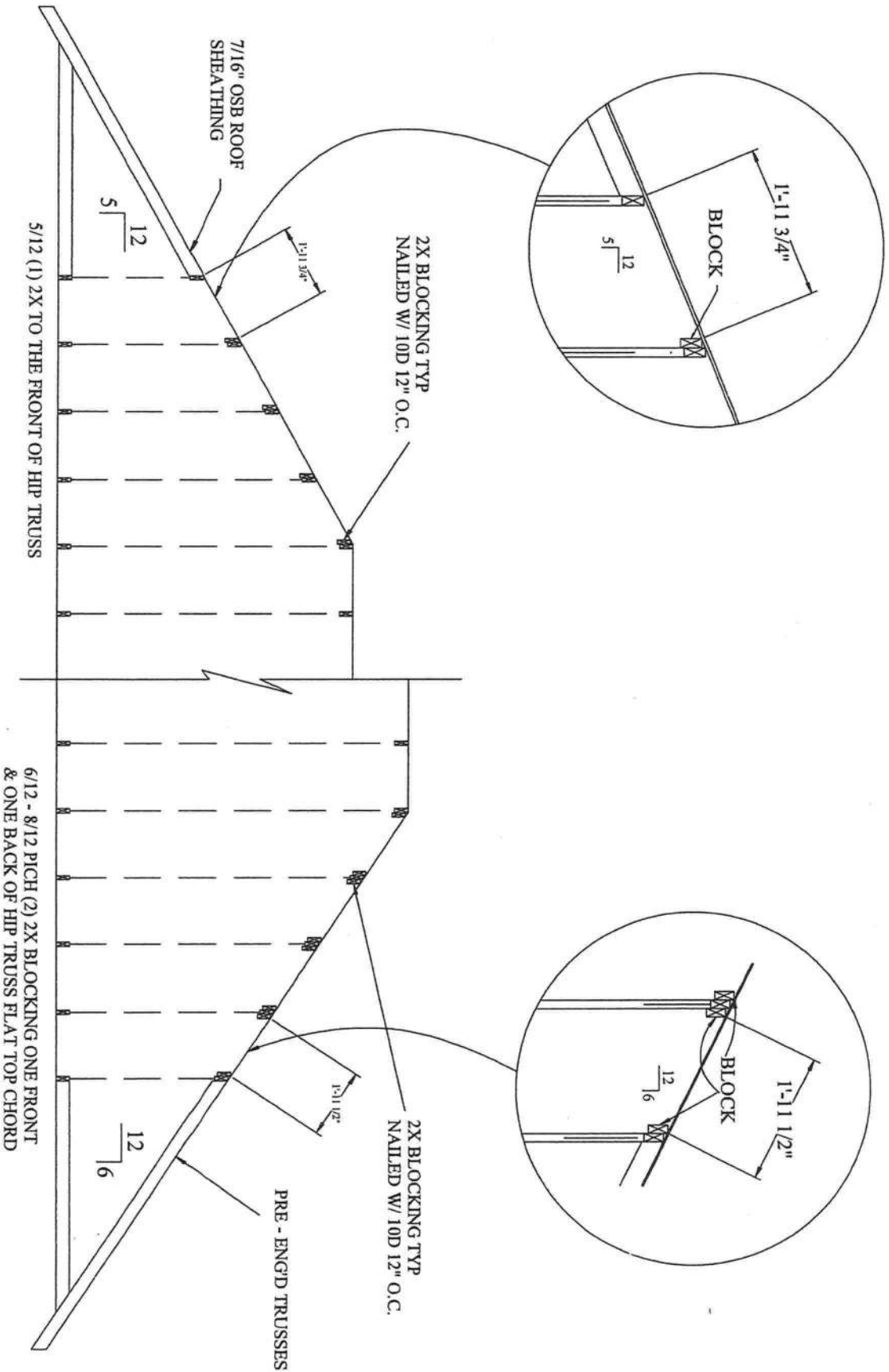


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703/683-1010 • www.tpinet.org

B1WARN11x17 070724

PARA EL MANEJO, INSTALACIÓN, RESTRICCIÓN Y ARRIOSTRE DE LOS TRUSSES
Por favor, siempre consulte a un Ingeniero Profesional.

HIP TRUSS BLOCKING REQUIREMENTS

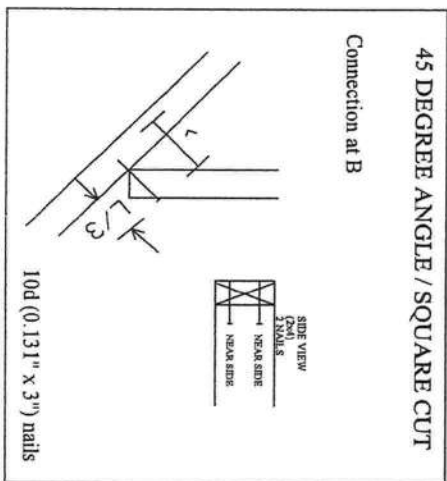
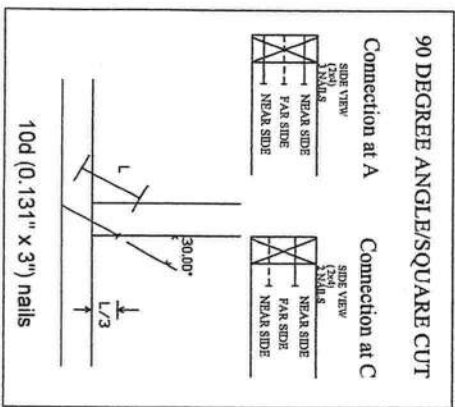
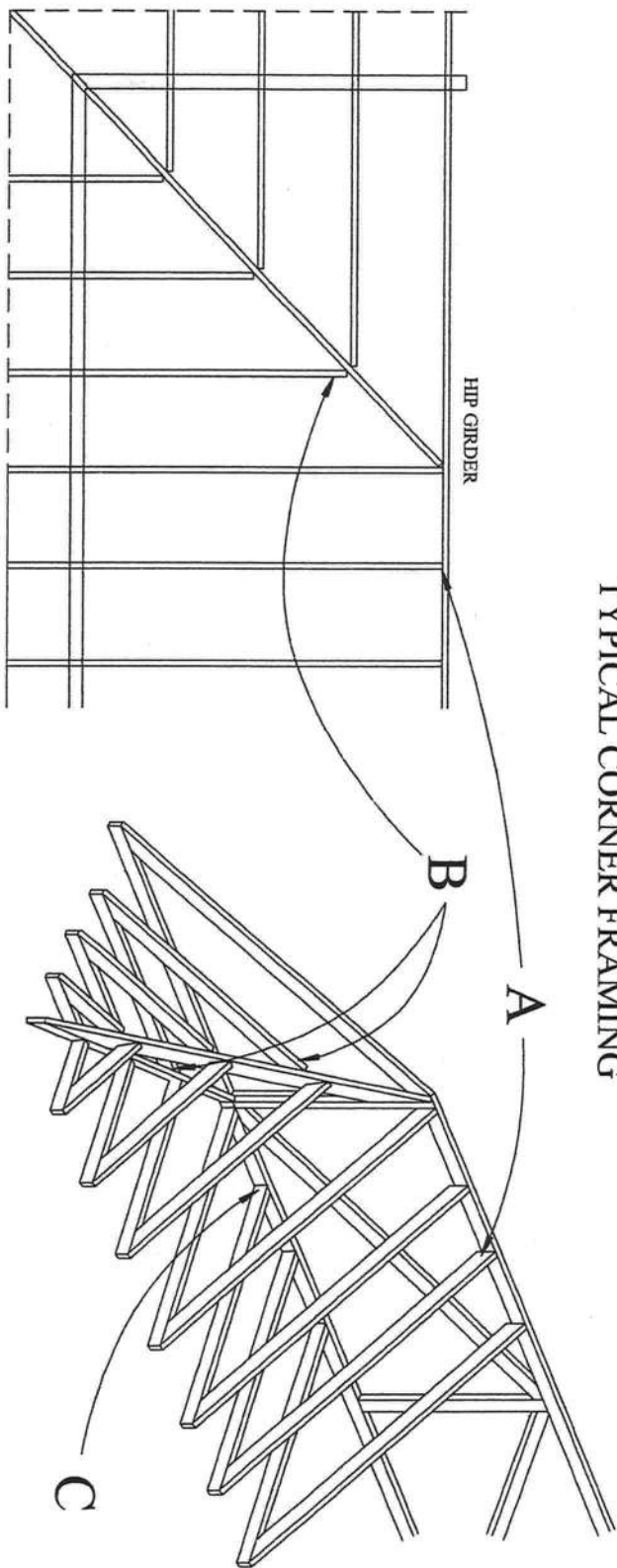


NOTE: NO BLOCKING IS REQUIRED ON 4/12 AND BELOW PITCHED ROOFS

SHEET: HB1	TRUSS DETAILS HIP TRUSS BLOCKING		Maronda Homes (407) 321-9964 4005 MARONDA WAY SANFORD, FLORIDA	REVISIONS:
	DRAWN BY:	GARAGE:		
	RELEASE DATE: 2/9/09			
	PLOT DATE:			

TOE-NAILED CONNECTIONS AT BEARING LOCATIONS

TYPICAL CORNER FRAMING



CONNECTION VALUES:

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

Wind loading: Basic wind speed is 140 MPH.
 Exposure category B or C.
 Occupancy category II
 4.8 psf top chord dead load.
 4.2 psf bottom chord dead load.
 25' roof height.
 MW/PRS gable end zone.
 Enclosed building (Cond. I)
 FBCR-07, TP1-02, ASCE 7-05
 Duration of load is 1.60
 L = NAIL LENGTH

TRUSS DETAILS

TOE-NAILED CONNECTIONS

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

Maronda Homes

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

REVISIONS:

TNI

SHEET:

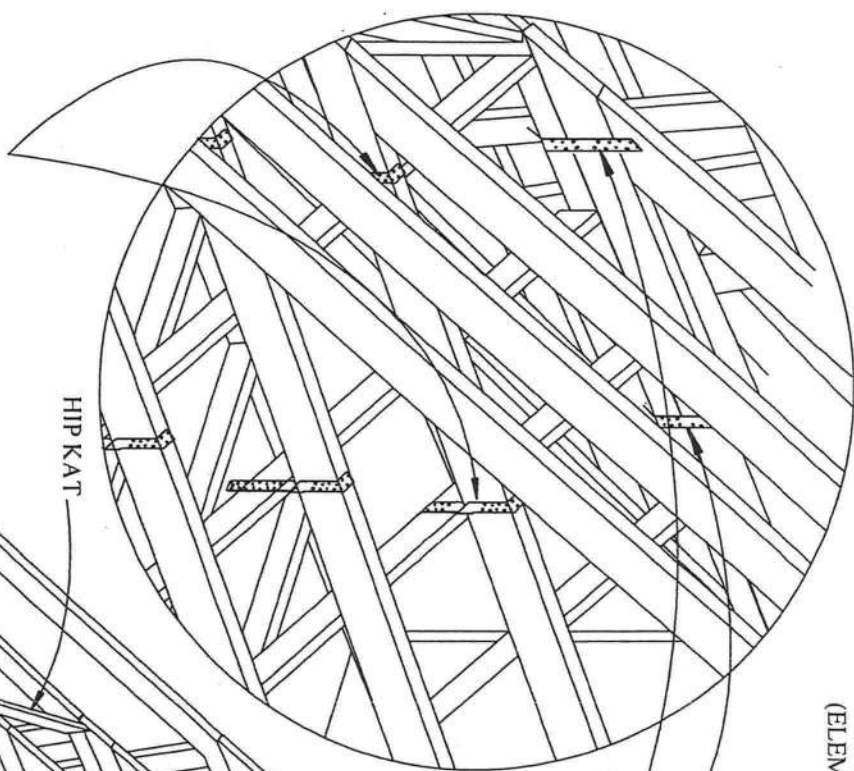
PLOT DATE:

VALLEY CONNECTIONS

(ELEMENTS NOT SHOWN FOR CLARITY)

Notes: Valley trusses can be installed either a top main body roof trusses or a top 7/16 sheathing. Connections of strapping remain the same as illustrated. Valley kats are required when a top main body truss option is utilized.

See truss engineering and standard details for truss bracing requirements.

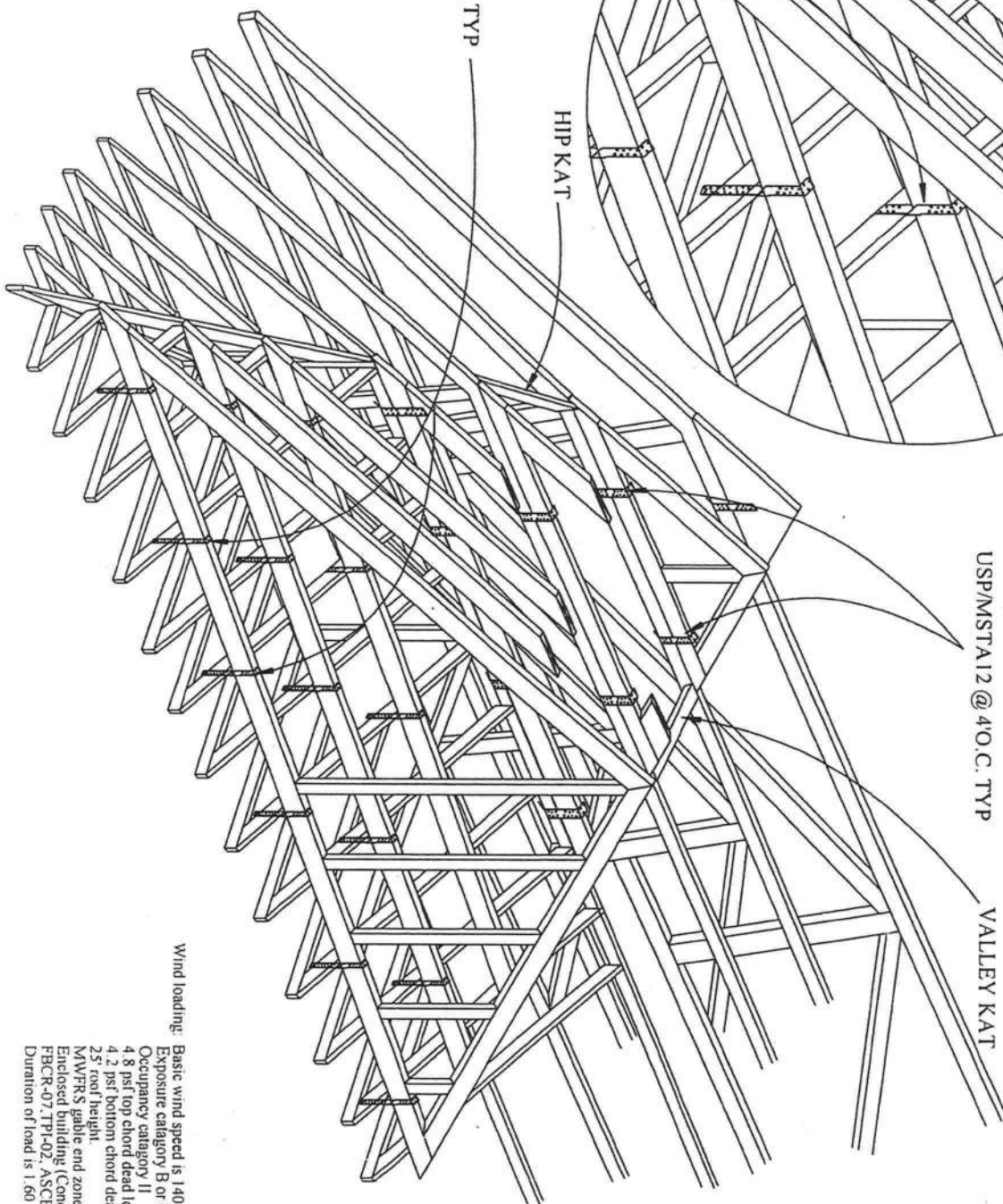


USP/MSTA12 @ 40.C. TYP

VALLEY KAT

HIP KAT

USP/LTW12 @ 40.C. TYP



Wind loading:

Basic wind speed is 140 MPH.
Exposure category B or C.
Occupancy category II
4.8 psf top chord dead load
4.2 psf bottom chord dead load
25' roof height
MWFRS gable end zone
Enclosed building (Cond. 1)
FBCR-07-TPI-02, ASCE 7-05
Duration of load is 1.60

TRUSS DETAILS VALLEY CONNECTIONS

DRAWN BY: J.FESSIA GARAGE:
RELEASE DATE: 2/9/09

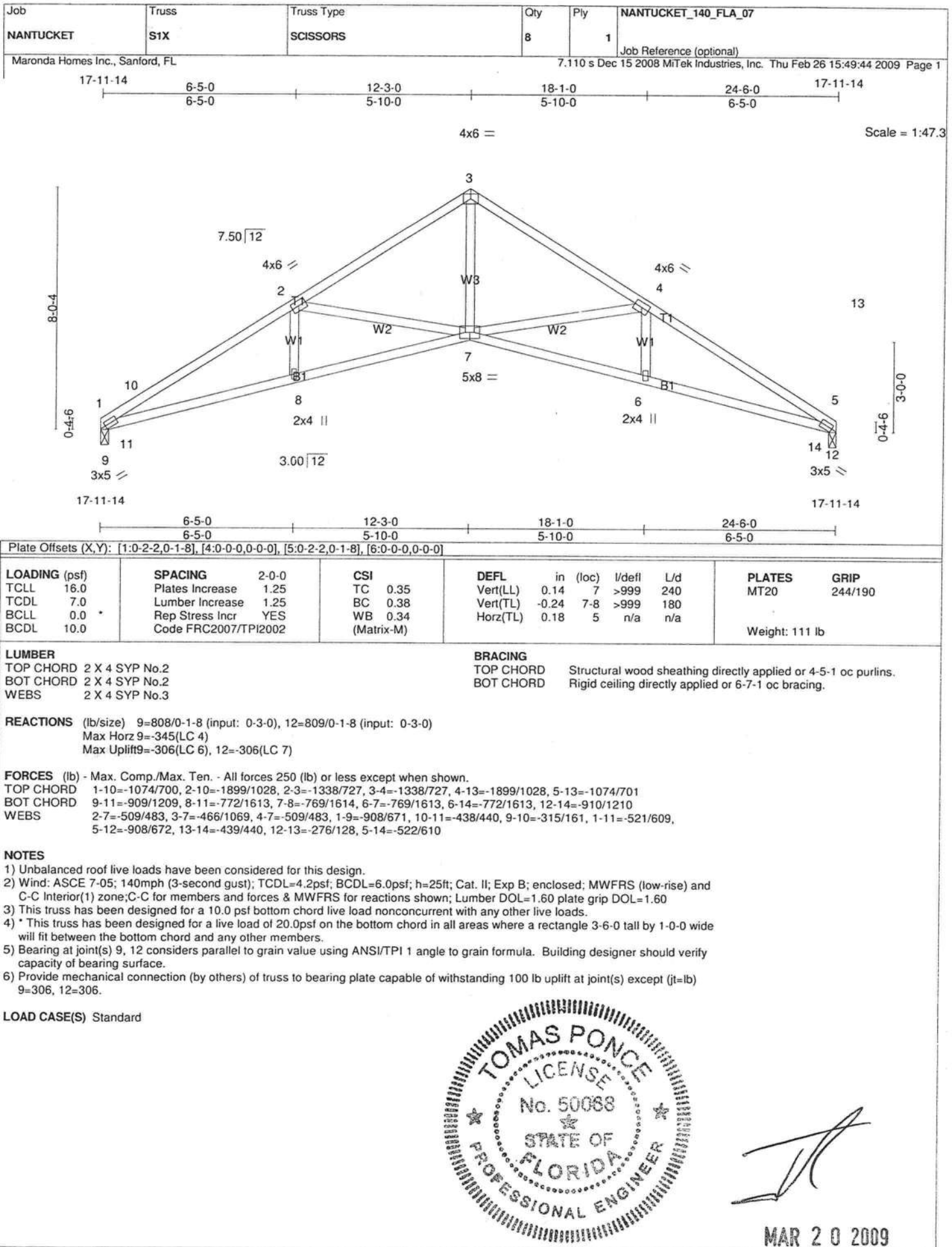
Maronda Homes

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

REVISIONS:

SHEET:

VC1



Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	HSX	SPECIAL	2	1	Job Reference (optional)

Maronda Homes Inc., Sanford, FL

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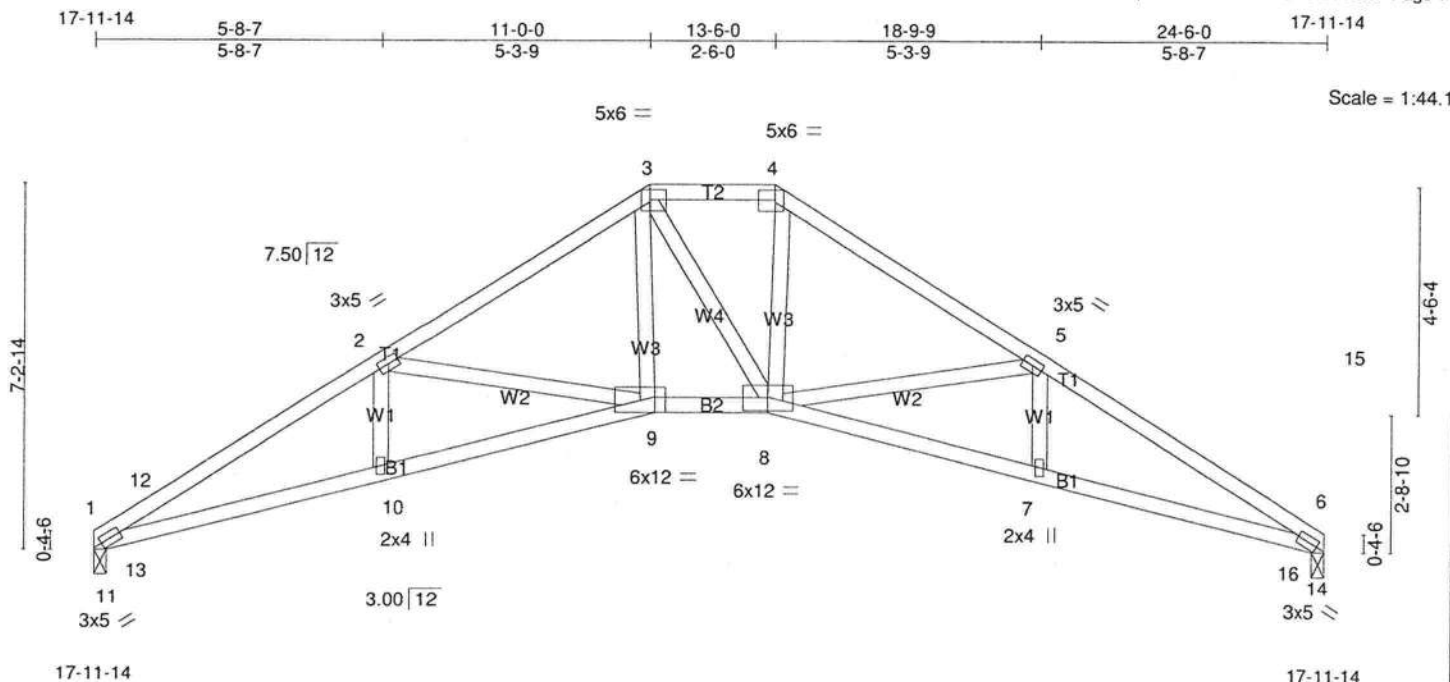


Plate Offsets (X,Y): [1:0-2-2,0-1-8], [3:0-4-0,0-2-4], [4:0-4-0,0-2-4], [6:0-2-2,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.32	Vert(LL)	0.14	9	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.34	Vert(TL)	-0.24	9-10	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	Horz(TL)	0.17	6	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002		(Matrix-M)							
									Weight: 120 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-3 oc bracing.

REACTIONS

(lb/size) 11=808/0-1-8 (input: 0-3-0), 14=809/0-1-8 (input: 0-3-0)
Max Horz 11=-310(LC 4)
Max Uplift 11=-298(LC 6), 14=-298(LC 7)

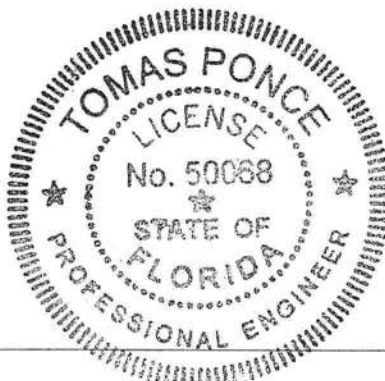
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-12=-1003/639, 2-12=-1942/1086, 2-3=-1430/808, 3-4=-1175/774, 4-5=-1433/809, 5-15=-1940/1085, 6-15=-1004/639
BOT CHORD 11-13=-771/1078, 10-13=-836/1655, 9-10=-836/1657, 8-9=-369/1172, 7-8=-835/1655, 7-16=-835/1653,
14-16=-772/1079
WEBS 2-9=-453/446, 5-8=-449/444, 4-8=-229/547, 3-9=-228/545, 1-11=-825/584, 12-13=-423/389, 1-13=-348/413,
6-14=-826/585, 15-16=-423/389, 6-16=-347/413

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
11=298, 14=298.

LOAD CASE(S) Standard



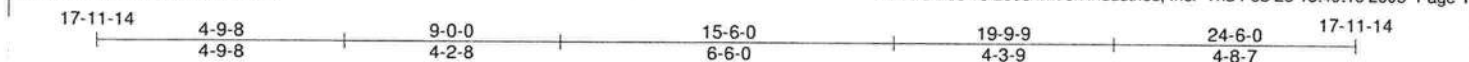
[Signature]

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	HS1X	SPECIAL	2	1	Job Reference (optional)

Maronda Homes Inc., Sanford, FL

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Scale = 1:43.2

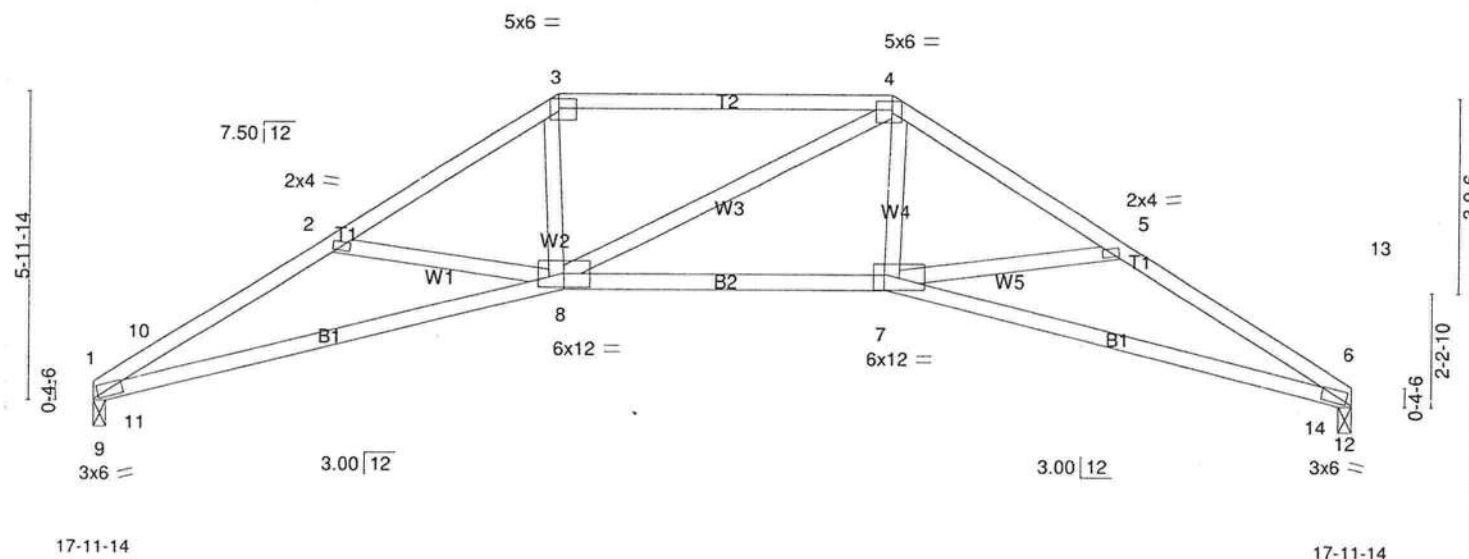


Plate Offsets (X,Y): [1:0-2-8,0-1-8], [3:0-4-0,0-2-4], [4:0-3-12,0-2-0], [6:0-2-8,0-1-8], [7:0-6-0,0-2-12]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.32	Vert(LL) 0.16	7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.54	Vert(TL) -0.36	7-14	>810	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.20	Horz(TL) 0.16	6	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002	(Matrix-M)						
							Weight: 112 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3: 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-5-2 oc bracing.

REACTIONS (lb/size) 9=809/0-1-8 (input: 0-3-0), 12=808/0-1-8 (input: 0-3-0)
Max Horz 9=-254(LC 4)
Max Uplift 9=-281(LC 6), 12=-281(LC 7)

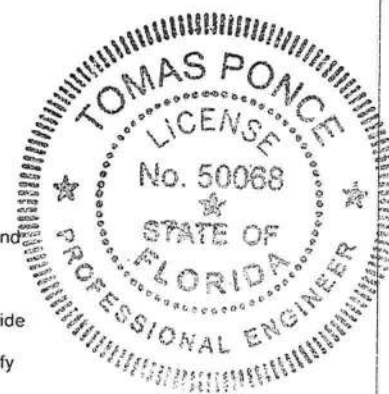
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-10=-1111/492, 2-10=-1898/1203, 2-3=-1629/957, 3-4=-1365/902, 4-5=-1633/958,
5-13=-1905/1211, 6-13=-1110/484
BOT CHORD 9-11=-515/1289, 8-11=-952/1636, 7-8=-574/1367, 7-14=-961/1643, 12-14=-498/1284
WEBS 2-8=-229/351, 5-7=-235/356, 4-7=-190/613, 3-8=-193/612, 1-9=-909/429,
10-11=-328/428, 9-10=0/319, 1-11=-824/52, 6-12=-907/418, 13-14=-326/426,
12-13=0/313, 6-14=-816/27

NOTES

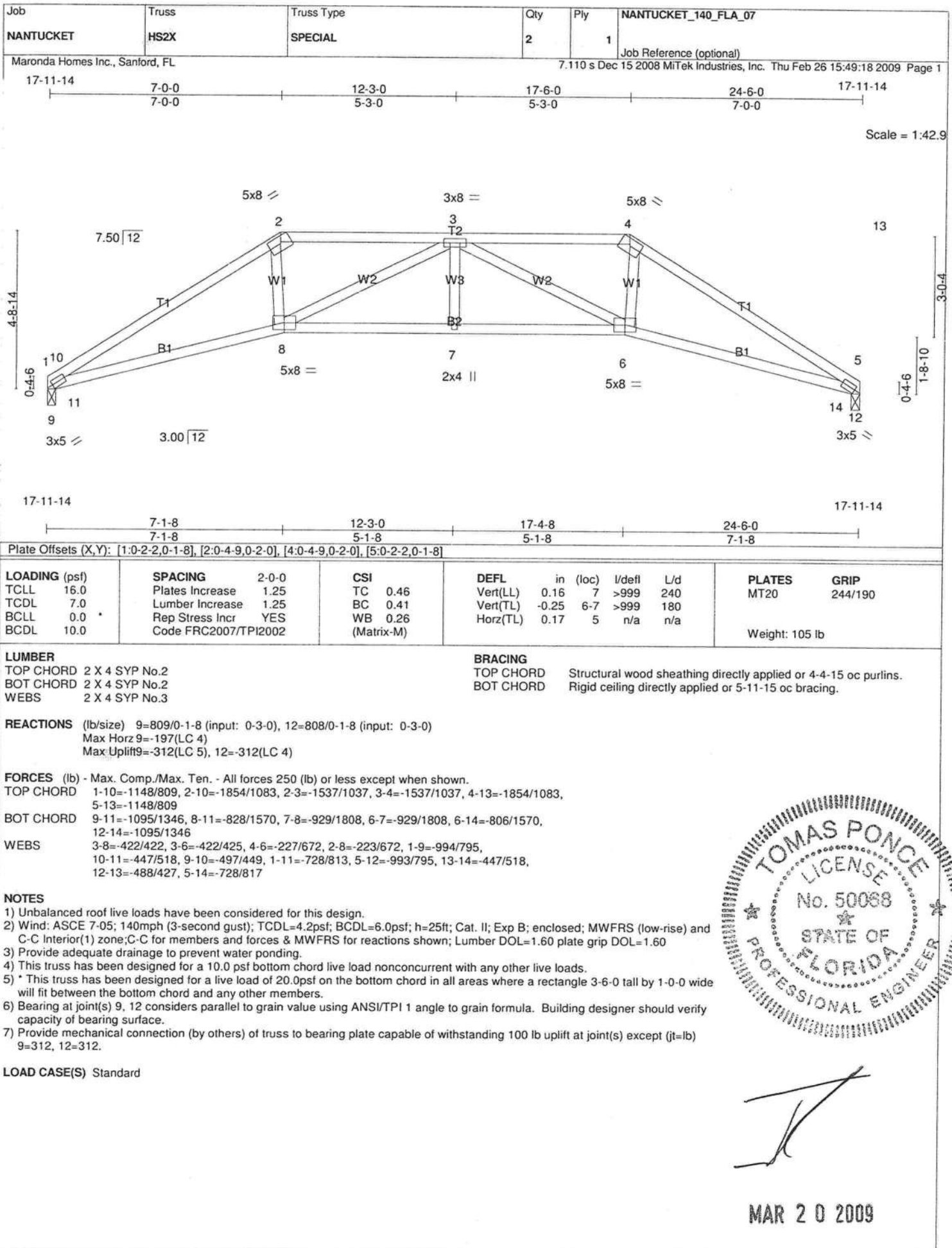
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 9, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=281, 12=281.

LOAD CASE(S) Standard



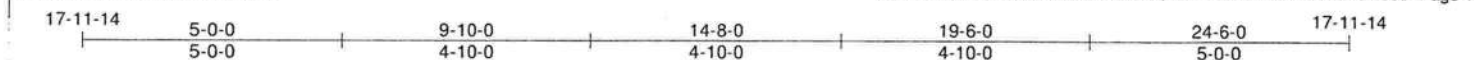
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MAR 20 2009



Job NANTUCKET	Truss HSGRD1X	Truss Type SPECIAL	Qty 2	Ply 2	NANTUCKET_140_FLA_07
Maronda Homes Inc., Sanford, FL			Job Reference (optional)		

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Scale = 1:43.0

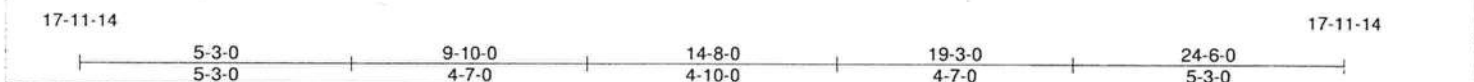
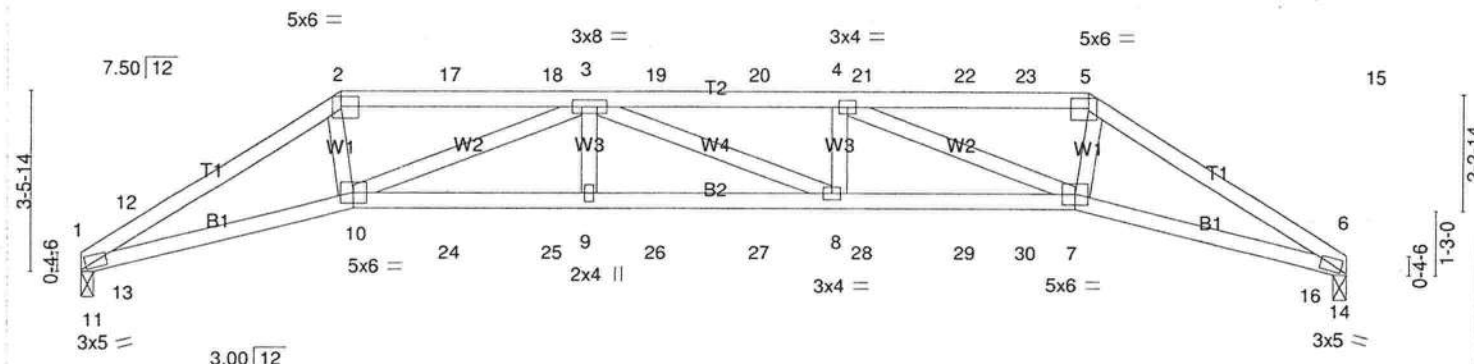


Plate Offsets (X,Y): [2:0-4-0,0-2-4], [5:0-4-0,0-2-4]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.61	Vert(LL) 0.31 8-9 >961 240		
BCLL 0.0	Rep Stress Incr NO	WB 0.28	Vert(TL) -0.40 8-9 >736 180		
BCDL 10.0	Code FRC2007/TPI2002	(Matrix-M)	Horz(TL) 0.22 6 n/a n/a		
Weight: 216 lb					

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-6 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-10-2 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 11=1508/0-1-8 (input: 0-3-0), 14=1553/0-1-8 (input: 0-3-0)
Max Horz 11=141(LC 4)
Max Uplift 11=-1110(LC 7), 14=-1170(LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1988/1481, 2-12=-3988/3032, 2-17=-3540/2754, 17-18=-3540/2753, 3-18=-3539/2753, 3-19=-5087/3906, 19-20=-5087/3906, 4-20=-5087/3906, 4-21=-3665/2880, 21-22=-3666/2880, 22-23=-3666/2881, 5-23=-3666/2881, 5-15=-4131/3181, 6-15=-2025/1511
BOT CHORD 11-13=-1417/1806, 10-13=-2694/3421, 10-24=-3872/5017, 24-25=-3872/5017, 9-25=-3872/5017, 9-26=-3872/5017, 26-27=-3872/5017, 8-27=-3872/5017, 8-28=-3902/5087, 28-29=-3902/5087, 29-30=-3902/5087, 7-30=-3902/5087, 7-16=-2669/3547, 14-16=-1362/1821
WEBS 3-9=0/330, 4-8=0/326, 4-7=-1601/1352, 5-7=-1028/1752, 2-10=-1035/1711, 3-10=-1662/1405, 1-11=-1391/1037, 12-13=-690/627, 11-12=-462/457, 1-13=-284/145, 6-14=-1410/1051, 15-16=-716/633, 14-15=-503/488, 6-16=-345/192

NOTES

- 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 4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1110, 14=1170.



[Signature]

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	HSGRD1X	SPECIAL	2	2	Job Reference (optional)

Maronda Homes Inc., Sanford, FL

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NOTES

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 198 lb down and 378 lb up at 5-0-0, 57 lb down and 152 lb up at 7-0-12, 57 lb down and 152 lb up at 9-0-12, 57 lb down and 152 lb up at 11-0-12, 57 lb down and 152 lb up at 13-0-12, 57 lb down and 152 lb up at 15-0-12, 57 lb down and 152 lb up at 17-0-12, and 57 lb down and 152 lb up at 18-3-0, and 198 lb down and 378 lb up at 19-6-0 on top chord, and 161 lb down at 5-3-0, 56 lb down at 7-0-12, 56 lb down at 9-0-12, 56 lb down at 11-0-12, 56 lb down at 13-0-12, 56 lb down at 15-0-12, 56 lb down at 17-0-12, and 56 lb down at 18-3-0, and 161 lb down at 19-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

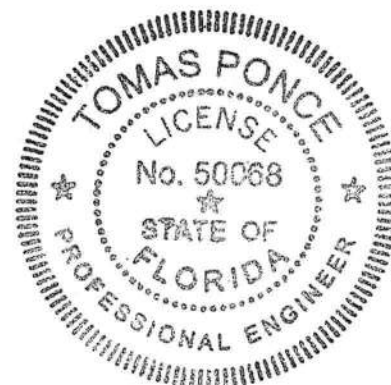
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-46, 2-5=-46, 5-6=-46, 10-11=-20, 7-10=-20, 7-14=-20

Concentrated Loads (lb)

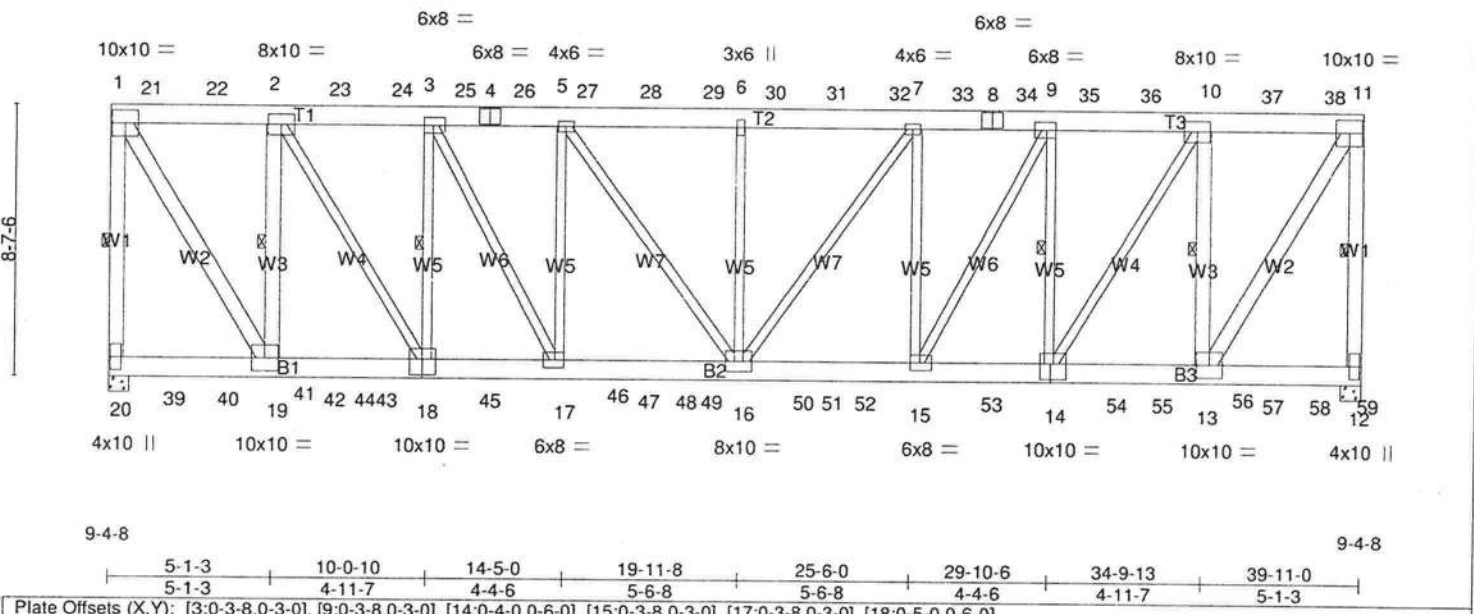
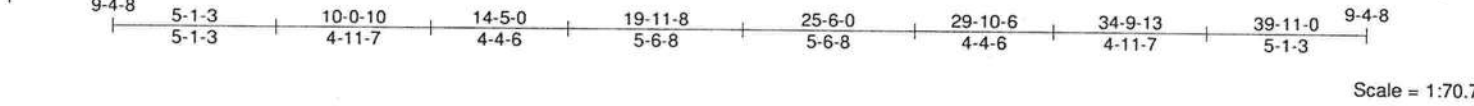
Vert: 2=-166(F) 5=-166(F) 10=-161(F) 7=-161(F) 17=-57(F) 18=-57(F) 19=-57(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=-57(F) 24=-56(F) 25=-56(F) 26=-56(F) 27=-56(F) 28=-56(F) 29=-56(F) 30=-56(F)



A handwritten signature in black ink, appearing to be "T. Ponche", written over the seal area.

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FL_A_07
NANTUCKET	FGRD1X	SPECIAL	2	2	Job Reference (optional)
Maronda Homes Inc., Sanford, FL			7.110 s Dec 15 2008 MiTek Industries, Inc. Thu Feb 26 15:49:11 2009 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.56	in (loc) l/defl L/d	MT20	187/170
TCDL 7.0	Lumber Increase 1.25	BC 0.44	Vert(LL) -0.39 16 >999 240		
BCLL 0.0	Rep Stress Incr NO	WB 0.96	Vert(TL) -0.78 15-16 >610 180		
BCDL 10.0	Code FRC2007/TPI2002	(Matrix-M)	Horz(TL) 0.16 12 n/a n/a		
				Weight: 1002 lb	

LUMBER
 TOP CHORD 2 X 8 SYP No.1D
 BOT CHORD 2 X 8 LSL Truss Grade
 WEBS 2 X 4 SYP No.2 *Except*
 W1,W2: 2 X 6 SYP No.1D, W3: 2 X 6 SYP No.2, W4: 2 X 4 SYP No.1D

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-3-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.
 WEBS 1 Row at midpt 1-20, 11-12, 2-19, 3-18, 9-14, 10-13

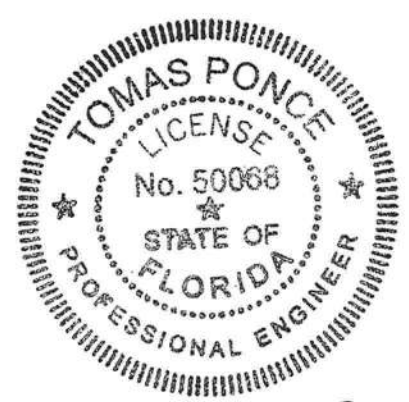
REACTIONS (lb/size) 20=14527/0-5-8 (input: 0-7-14), 12=14330/0-5-7 (input: 0-7-14)
 Max Uplift20=5183(LC 8), 12=5160(LC 7)

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

TOP CHORD
 1-20=-13906/4909, 1-21=-8539/2997, 21-22=-8539/2997, 2-22=-8539/2997,
 2-23=-14464/4810, 23-24=-14464/4810, 3-24=-14464/4810, 3-25=-17880/5844,
 4-25=-17880/5844, 4-26=-17880/5844, 5-26=-17880/5844, 5-27=-19553/6358,
 27-28=-19553/6358, 28-29=-19553/6358, 6-29=-19553/6358, 6-30=-19553/6358,
 30-31=-19553/6358, 31-32=-19553/6358, 7-32=-19553/6358, 7-33=-17857/5838,
 8-33=-17857/5838, 8-34=-17857/5838, 9-34=-17857/5838, 9-35=-14532/4828,
 35-36=-14532/4828, 10-36=-14532/4828, 10-37=-8511/2993, 37-38=-8511/2993,
 11-38=-8511/2993, 11-12=-13839/4902

BOT CHORD
 19-42=-2997/8539, 42-43=-2997/8539, 43-44=-2997/8539, 18-44=-2997/8539,
 18-45=-4852/14611, 45-46=-4852/14611, 17-46=-4852/14611, 17-47=-5844/17880,
 47-48=-5844/17880, 48-49=-5844/17880, 16-49=-5844/17880, 16-50=-5838/17857,
 50-51=-5838/17857, 51-52=-5838/17857, 15-52=-5838/17857, 15-53=-4844/14588,
 14-53=-4844/14588, 14-54=-2993/8511, 54-55=-2993/8511, 55-56=-2993/8511,
 13-56=-2993/8511

WEBS
 1-19=-5663/16160, 2-19=-12444/4222, 2-18=-3522/11496, 3-18=-8653/2462,
 3-17=-2136/7016, 5-17=-4891/1289, 5-16=-896/2889, 6-16=-3123/707, 7-16=-906/2930,
 7-15=-4895/1293, 9-15=-2139/7015, 9-14=-8614/2455, 10-14=-3521/11537,
 10-13=-12391/4210, 11-13=-5656/16113



- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 8 - 2 rows at 0-7-0 oc.
 Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=5183, 12=5160.
- Continued on page 2

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FL_A_07
NANTUCKET	FGRD1X	SPECIAL	2	2	Job Reference (optional)

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NOTES

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 5 lb up at 1-1-5, 75 lb down at 3-1-5, 1696 lb down and 1001 lb up at 5-1-0, 997 lb down and 176 lb up at 7-0-4, 997 lb down and 221 lb up at 9-0-4, 997 lb down and 184 lb up at 11-0-4, 997 lb down and 191 lb up at 12-10-12, 997 lb down and 191 lb up at 14-10-12, 997 lb down and 191 lb up at 16-10-12, 997 lb down and 191 lb up at 18-10-12, 997 lb down and 191 lb up at 20-10-12, 997 lb down and 191 lb up at 22-10-12, 997 lb down and 191 lb up at 24-10-12, 997 lb down and 191 lb up at 26-10-12, 997 lb down and 184 lb up at 28-10-12, 997 lb down and 221 lb up at 30-10-12, 997 lb down and 176 lb up at 32-10-12, 1696 lb down and 1001 lb up at 34-10-0, and 62 lb down at 36-9-11, and 48 lb down at 38-9-11 on top chord, and 98 lb down and 53 lb up at 0-2-12, 487 lb down and 261 lb up at 1-10-12, 527 lb down and 261 lb up at 3-10-12, 527 lb down and 261 lb up at 5-10-12, 487 lb down and 261 lb up at 7-10-12, 487 lb down and 261 lb up at 9-10-12, 487 lb down and 261 lb up at 11-10-12, 527 lb down and 261 lb up at 13-10-12, 527 lb down and 261 lb up at 15-10-12, 487 lb down and 261 lb up at 17-10-12, 527 lb down and 261 lb up at 19-10-12, 487 lb down and 261 lb up at 21-10-12, 527 lb down and 261 lb up at 23-10-12, 527 lb down and 261 lb up at 25-10-12, 487 lb down and 261 lb up at 27-10-12, 527 lb down and 261 lb up at 29-10-12, 487 lb down and 261 lb up at 31-10-12, 527 lb down and 261 lb up at 33-10-12, 527 lb down and 261 lb up at 35-10-12, and 487 lb down and 261 lb up at 37-10-12, and 42 lb down and 53 lb up at 39-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

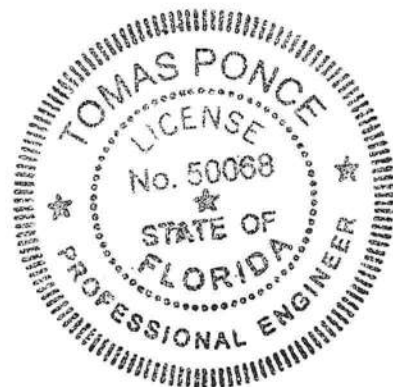
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-11=-23, 20-40=-30, 19-40=-10, 19-43=-30, 18-43=-10, 18-45=-30, 17-45=-10, 17-48=-30, 48-51=-10, 15-51=-30, 15-53=-10, 14-53=-30, 14-55=-10, 13-55=-30, 13-58=-10, 12-58=-30

Concentrated Loads (lb)

Vert: 20=-98(F) 2=-1696(B) 18=-487(F) 16=-527(F) 15=-527(F) 14=-527(F) 10=-1696(B) 21=5(B) 22=-75(B) 23=-997(B) 24=-997(B) 25=-997(B) 26=-997(B) 27=-997(B) 28=-997(B) 29=-997(B) 30=-997(B) 31=-997(B) 32=-997(B) 33=-997(B) 34=-997(B) 35=-997(B) 36=-997(B) 39=-487(F) 41=-527(F) 42=-527(F) 44=-487(F) 45=-487(F) 46=-527(F) 47=-527(F) 49=-487(F) 50=-487(F) 52=-527(F) 53=-487(F) 54=-487(F) 56=-527(F) 57=-527(F) 59=-487(F)

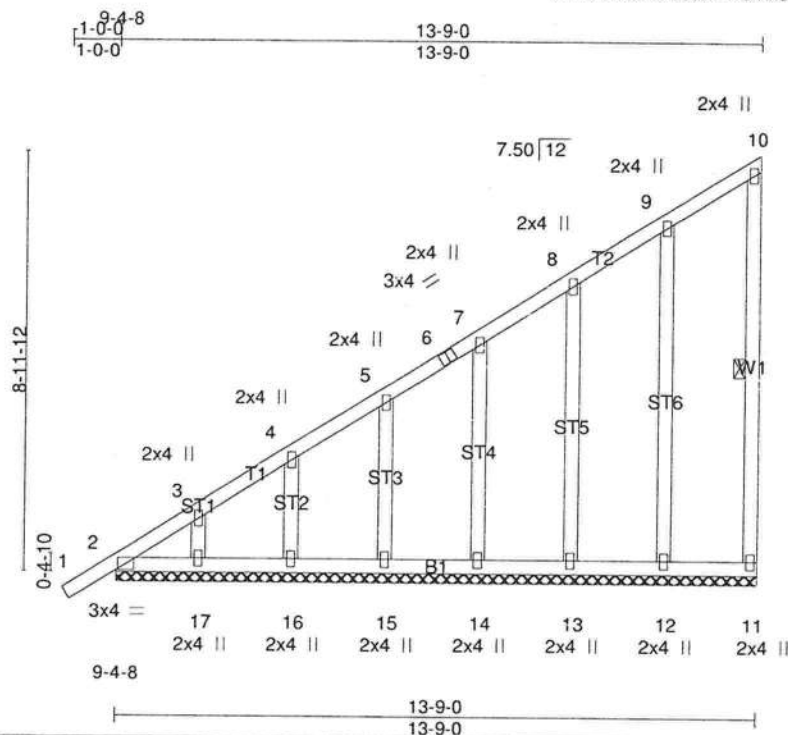


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MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FL_A_07
NANTUCKET	M1GX	GABLE	3	1	Job Reference (optional)
Maronda Homes Inc., Sanford, FL					

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Scale: 1/4"=1'

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	2'-0"-0"	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.04	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0	Lumber Increase 1.25	WB 0.08	Vert(TL) -0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) -0.00 11 n/a n/a		
	Code FRC2007/TPI2002				
				Weight: 95 lb	

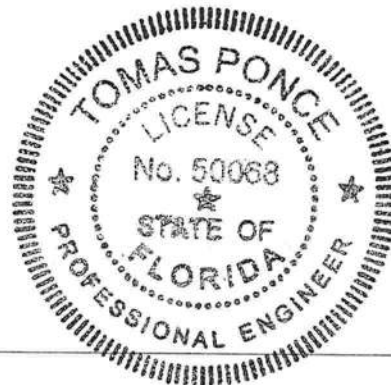
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 2 X 4 SYP No.2	WEBS 1 Row at midpt 10-11
OTHERS 2 X 4 SYP No.3 *Except*	
ST6: 2 X 4 SYP No.2	

REACTIONS All bearings 13'-9"-0".
 (lb) - Max Horz 2=704(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 11, 2 except 12=165(LC 6), 13=168(LC 6), 14=168(LC 6), 15=164(LC 6), 16=180(LC 6), 17=135(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 11, 2, 12, 13, 14, 15, 16, 17

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-709/69, 3-4=-603/54, 4-5=-489/45, 5-6=-380/32, 6-7=-372/36, 7-8=-269/27

- NOTES**
- 1) Wind: ASCE 7-05; 140mph (3-second gust); TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Builder's "Gable End Wall Bracing / Connection Details"
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2'-0" oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 1'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2 except (jt=1b) 12=165, 13=168, 14=168, 15=164, 16=180, 17=135.

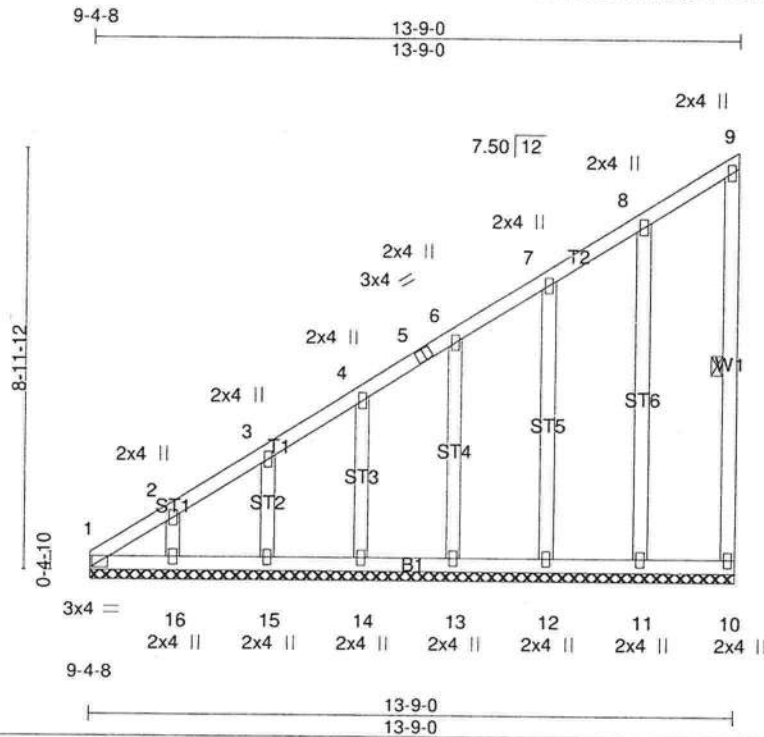
LOAD CASE(S) Standard



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MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	M1GAX	GABLE	1	1	Job Reference (optional)
Maronda Homes Inc., Sanford, FL			7.110 s Dec 15 2008 MiTek Industries, Inc. Thu Feb 26 15:49:29 2009 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.03	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber Increase 1.25	WB 0.08	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) -0.00 10 n/a n/a		
	Code FRC2007/TPI2002			Weight: 93 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.2	WEBS 1 Row at midpt 9-10
OTHERS 2 X 4 SYP No.3 *Except*	
ST6: 2 X 4 SYP No.2	

REACTIONS All bearings 13-9-0.
 (lb) - Max Horz 1=640(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 1 except 11=165(LC 6), 12=168(LC 6), 13=167(LC 6), 14=168(LC 6), 15=165(LC 6), 16=200(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 10, 11, 12, 13, 14, 15, 16 except 1=365(LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-722/66, 2-3=-601/55, 3-4=-490/45, 4-5=-380/32, 5-6=-372/36, 6-7=-269/27

- NOTES**
- 1) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Builder's "Gable End Wall Bracing / Connection Details"
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 1 except (jt=lb) 11=165, 12=168, 13=167, 14=168, 15=165, 16=200.

LOAD CASE(S) Standard



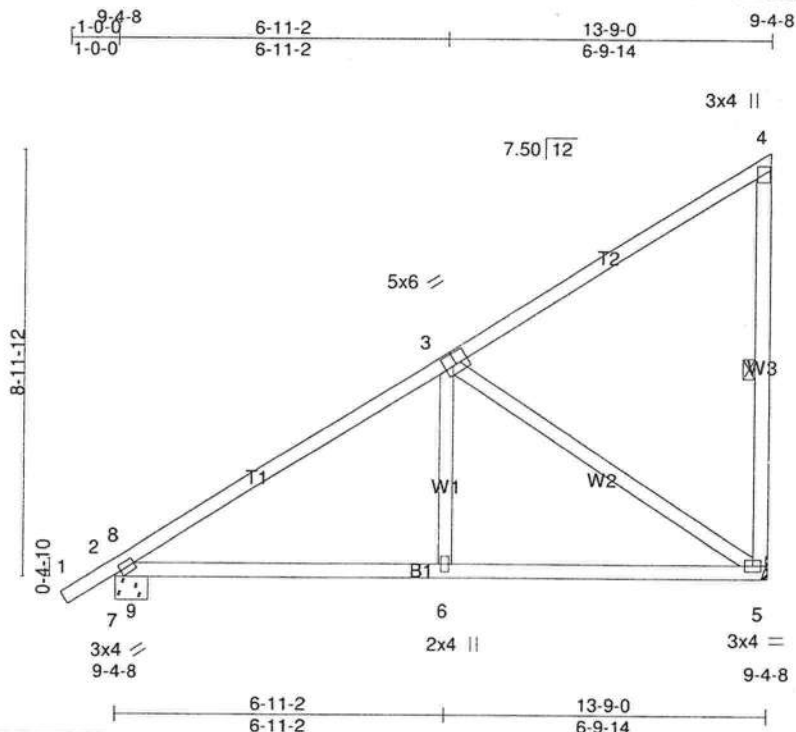
[Signature]

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Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	M1X	MONO TRUSS	28	1	Job Reference (optional)

Maronda Homes Inc., Sanford, FL

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Scale = 1:46.9

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

LOADING (psf)	SPACING	2:0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.34	Vert(LL)	-0.04	5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.29	Vert(TL)	-0.10	5-6	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(TL)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FRC2007/TP12002		(Matrix-M)							
									Weight: 77 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 *Except*
 W1: 2 X 4 SYP No.3

BRACING

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

REACTIONS (lb/size) 5=435/Mechanical, 7=512/0-1-8 (input: 0-8-6)
 Max Horz 7=497(LC 6)
 Max Uplift 5=-343(LC 6), 7=-166(LC 6)

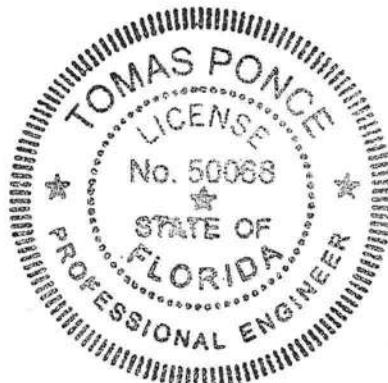
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-651/335, 3-8=-533/9
 BOT CHORD 7-9=-1102/977, 6-9=-384/391, 5-6=-384/391
 WEBS 3-6=0/292, 3-5=-448/439, 2-7=-608/537, 8-9=-134/393, 7-8=-789/521, 2-9=-974/940

NOTES

- 1) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=343, 7=166.

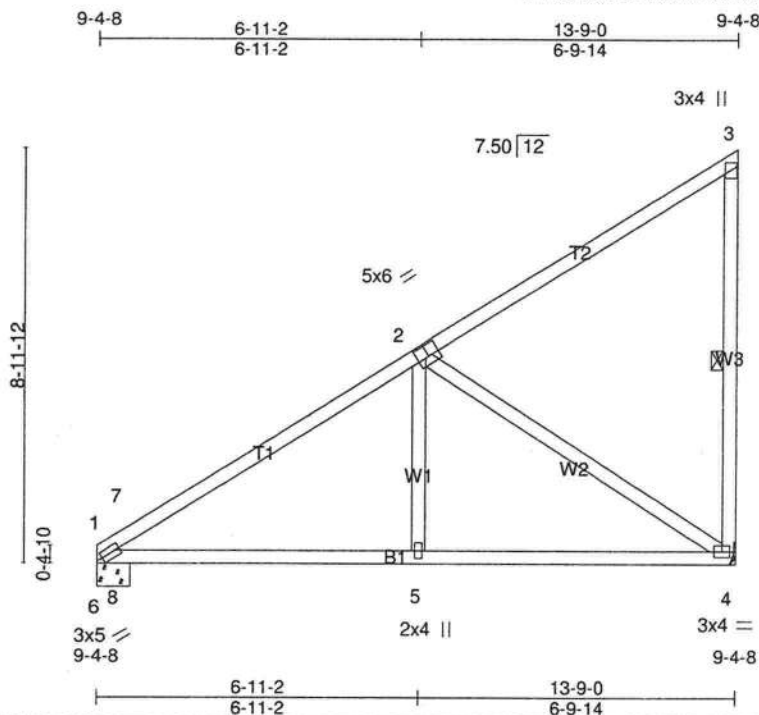
LOAD CASE(S) Standard



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MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FL_A_07
NANTUCKET	M1AX	MONO TRUSS	4	1	Job Reference (optional)
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Scale = 1:46.8

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.34	Vert(LL)	0.05	5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.29	Vert(TL)	-0.10	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(TL)	-0.01	4	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002		(Matrix-M)							
									Weight: 75 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 *Except*
W1: 2 X 4 SYP No.3

REACTIONS (lb/size) 4=436/Mechanical, 6=462/0-1-8 (input: 0-8-6)
Max Horz 6=442(LC 6)
Max Uplift 4=345(LC 6), 6=85(LC 6)

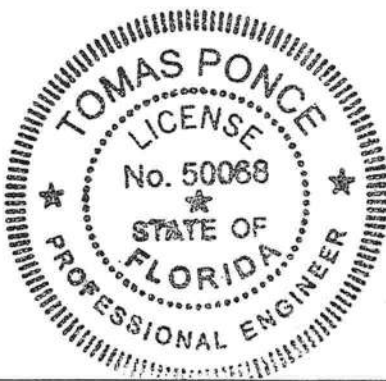
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-7=-693/525, 2-7=-535/13
BOT CHORD 6-8=-1371/1060, 5-8=-388/393, 4-5=-388/393
WEBS 2-5=0/293, 2-4=-450/444, 1-6=-546/435, 7-8=-202/426, 6-7=-945/567, 1-8=-1015/1154

NOTES

- 1) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 1'-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=345.

LOAD CASE(S) Standard

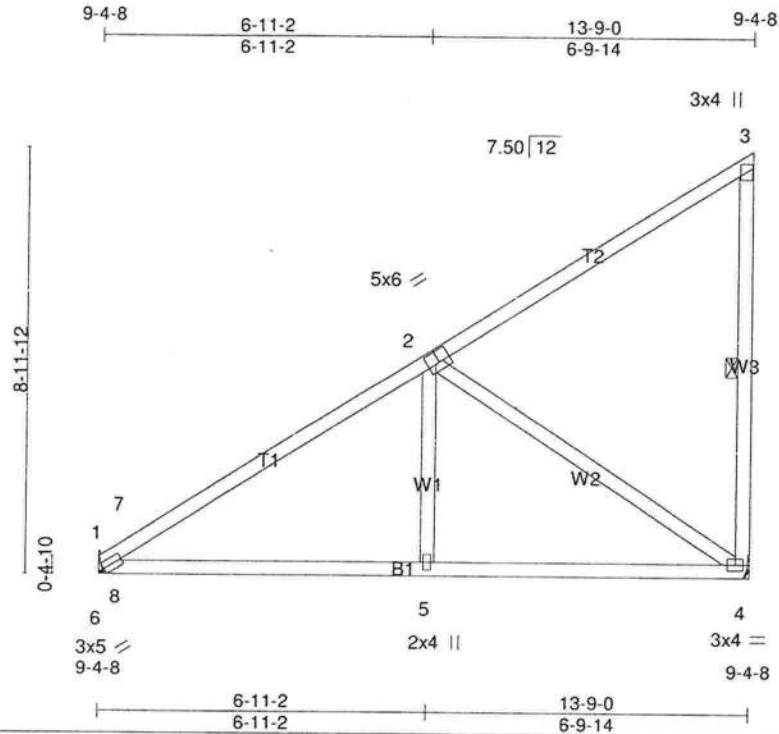


[Signature]

APR 16 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	M1BX	MONO TRUSS	6	1	Job Reference (optional)
Maronda Homes Inc., Sanford, FL					

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Scale = 1:46.8

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.34	Vert(LL)	0.05	5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.29	Vert(TL)	-0.10	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(TL)	-0.01	4	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002		(Matrix-M)							
										Weight: 75 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 *Except*
 W1: 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-5-10 oc bracing.
 WEBS 1 Row at midpt 3-4

REACTIONS

(lb/size) 4=436/Mechanical, 6=462/Mechanical
 Max Horz 6=442(LC 6)
 Max Uplift 4=345(LC 6), 6=85(LC 6)

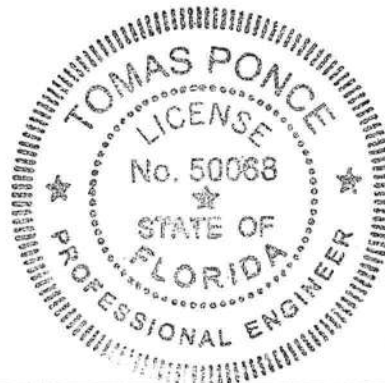
FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-7=-693/525, 2-7=-535/13
 BOT CHORD 6-8=-1371/1060, 5-8=-388/393, 4-5=-388/393
 WEBS 2-5=0/293, 2-4=-450/444, 1-6=-546/435, 7-8=-202/426, 6-7=-945/567, 1-8=-1015/1154

NOTES

- 1) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=345.

LOAD CASE(S) Standard



[Signature]

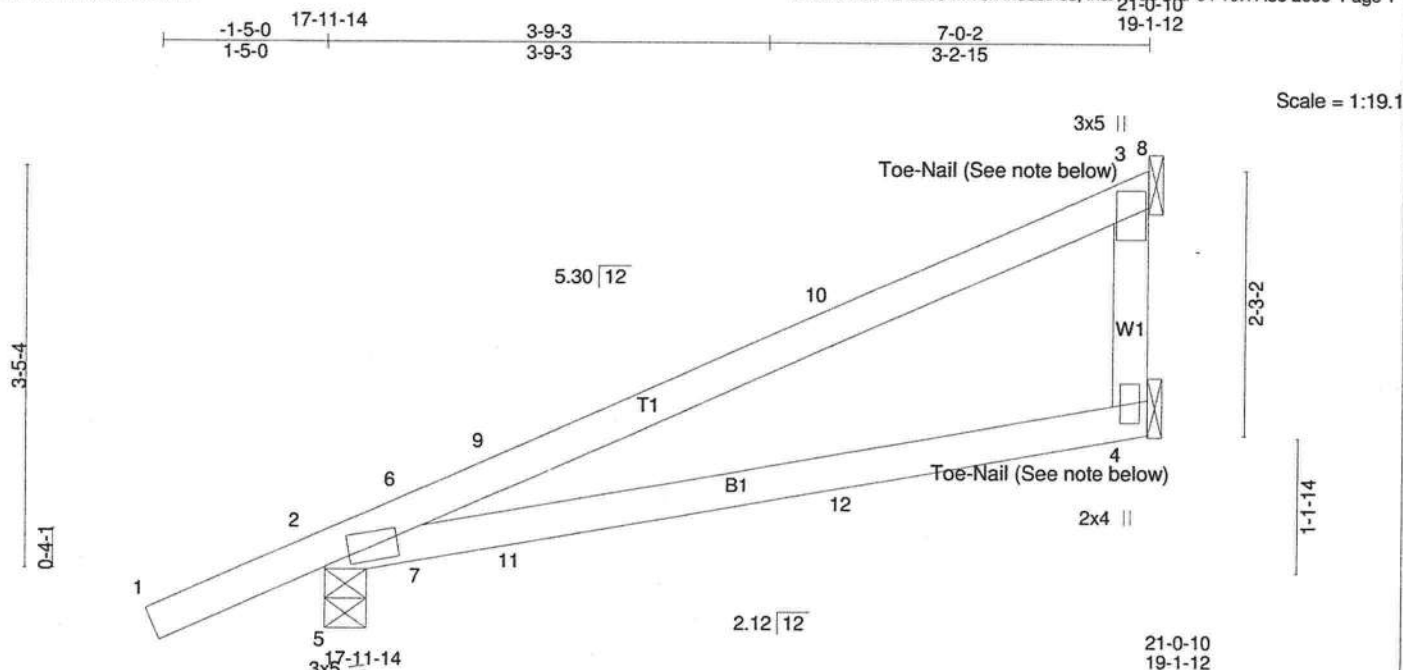
MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	JSGRD1X	MONO SCISSOR	4	1	

Job Reference (optional)

Maronda Homes Inc., Sanford, FL

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.39	Vert(LL) 0.13 4-7 >630 240		
BCLL 0.0 *	Lumber Increase 1.25	WB 0.01	Vert(TL) -0.19 4-7 >429 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) -0.01 2 n/a n/a		
	Code FRC2007/TPI2002				
					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.3

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) 5=343/0-1-8 (input: 0-4-3), 4=63/Mechanical, 3=166/Mechanical
Max Horz 5=215(LC 7)
Max Uplift 5=263(LC 7), 3=241(LC 7)
Max Grav 5=343(LC 1), 4=108(LC 2), 3=166(LC 1)

FORCES

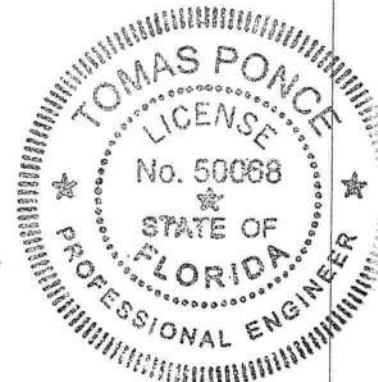
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-745/617
BOT CHORD 5-7=-942/940
WEBS 2-5=-791/775, 6-7=-82/338, 5-6=-983/898, 2-7=-1162/1155

NOTES

- 1) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 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 263 lb uplift at joint 5 and 241 lb uplift at joint 3.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 52 lb down and 44 lb up at 0-0-5, 11 lb down and 24 lb up at 1-6-12, 19 lb down and 93 lb up at 4-4-12, and 6 lb down and 67 lb up at 4-4-12, and 44 lb down at 1-6-13 on top chord, and 21 lb up at 1-6-12, 21 lb up at 1-6-13, and 16 lb down at 4-4-12, and 16 lb down at 4-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 4 and 5.

LOAD CASE(S)

- Standard
- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-8=-46, 4-5=-20
- Concentrated Loads (lb)
- Vert: 2=-52(F) 9=24(F) 10=-25(F=-19, B=-6) 11=42(F=21, B=21) 12=-32(F=-16, B=-16)



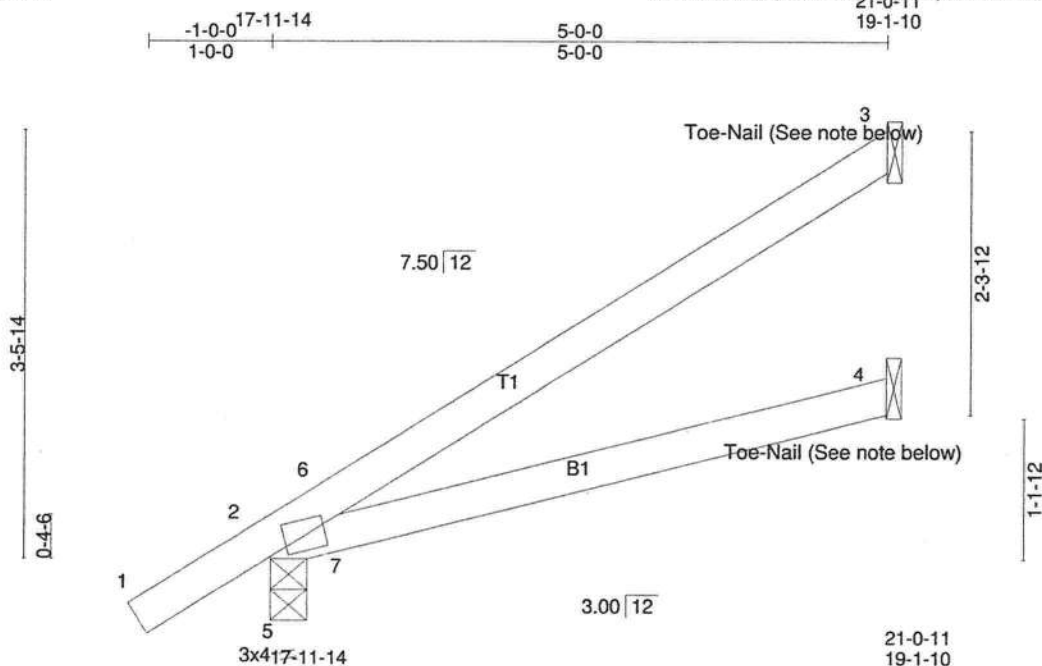
[Signature]

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	JSX	MONO SCISSOR	18	1	

Maronda Homes Inc., Sanford, FL

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LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.23	Vert(LL) 0.05	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.20	Vert(TL) -0.06	4-7	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.01	3	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002	(Matrix-M)						
							Weight: 19 lb	

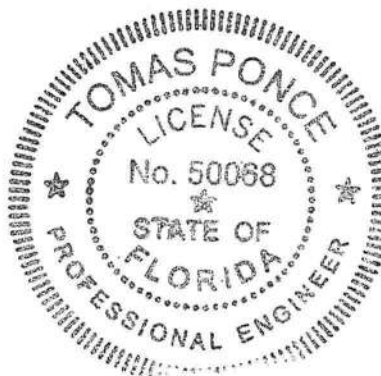
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 3=95/Mechanical, 5=226/0-1-8 (input: 0-3-8), 4=54/Mechanical
 Max Horz 5=216(LC 6)
 Max Uplift 3=121(LC 6), 5=118(LC 6)
 Max Grav 3=95(LC 1), 5=226(LC 1), 4=85(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-6=-312/161
 BOT CHORD 5-7=-523/468
 WEBS 2-5=-424/496, 6-7=-47/269, 5-6=-422/299, 2-7=-520/546

- NOTES** (7)
- 1) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Bearing at joint(s) 5 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 121 lb uplift at joint 3 and 118 lb uplift at joint 5.
 - 7) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 4 and 5.

LOAD CASE(S) Standard

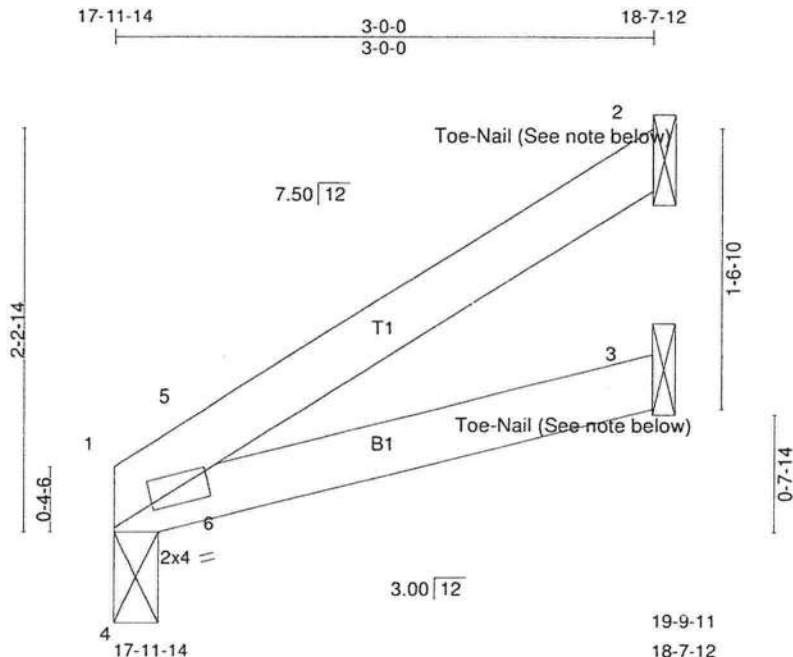


[Signature]

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FL_A_07
NANTUCKET	JS1X	MONO SCISSOR	4	1	Job Reference (optional)
Maronda Homes Inc., Sanford, FL					

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Scale = 1:12.3

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.08	Vert(LL)	0.01	3-6	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.09	Vert(TL)	-0.01	3-6	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002		(Matrix-M)							
									Weight: 10 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) 4=101/0-1-8 (input: 0-3-0), 2=57/Mechanical, 3=36/Mechanical

Max Horz 4=95(LC 6)

Max Uplift 4=-16(LC 6), 2=-72(LC 6), 3=-5(LC 6)

Max Grav 4=101(LC 1), 2=57(LC 1), 3=51(LC 2)

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

NOTES

- 1) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 3.
- 7) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 2 and 3.

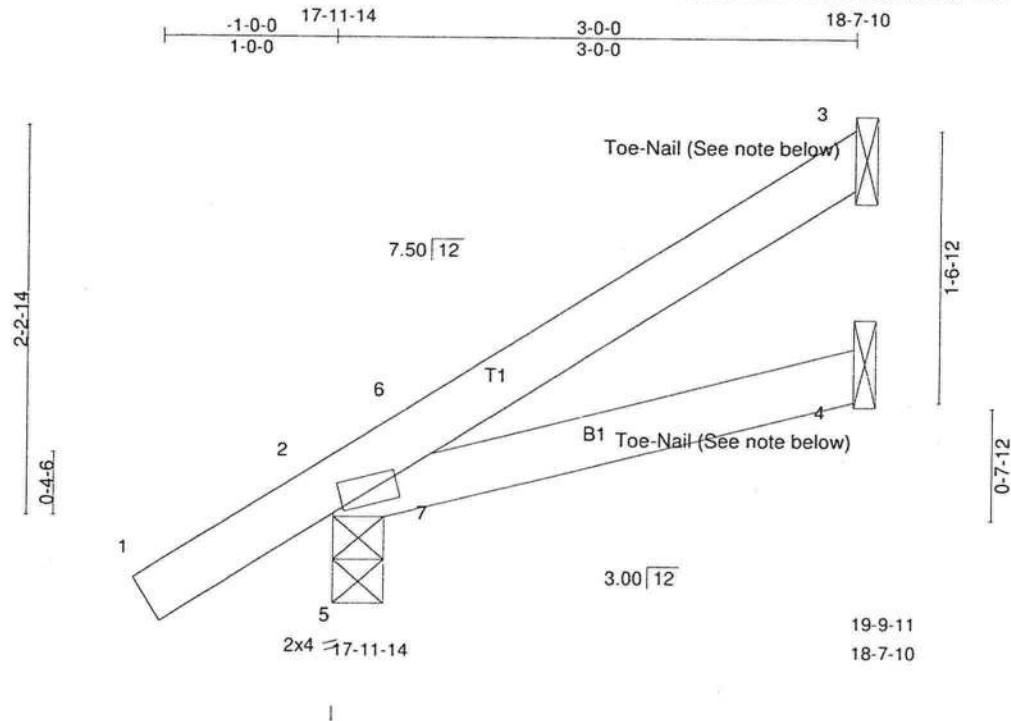
LOAD CASE(S) Standard



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MAR 20 2009

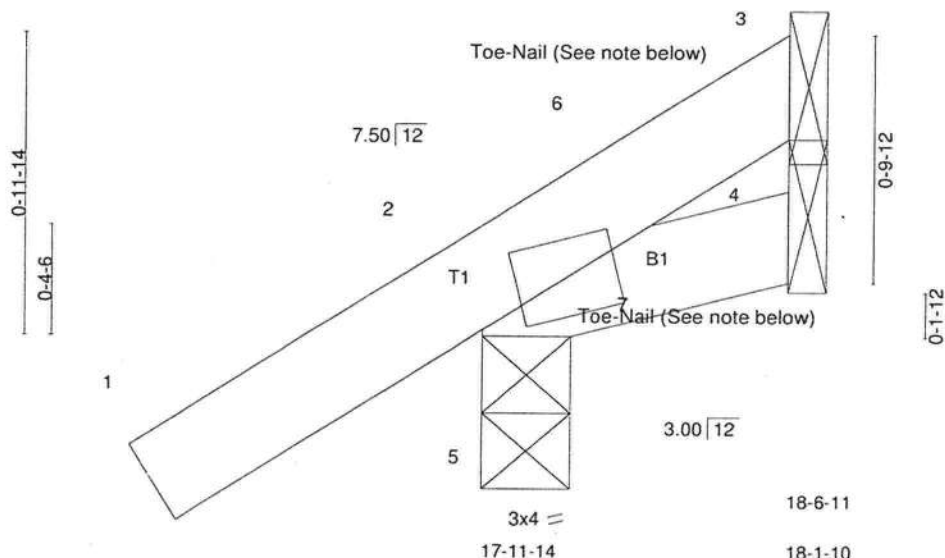
Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FL_A_07
NANTUCKET	JS3X	MONO SCISSOR	4	1	Job Reference (optional)

Plate Offsets (X,Y): [2:0-0-11,0-0-1]

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	JS4X	MONO SCISSOR	4	1	Job Reference (optional)
Maronda Homes Inc., Sanford, FL 7.110 s Dec 15 2008 MiTek Industries, Inc. Thu Feb 26 15:49:24 2009 Page 1					

-1-0-0 17-11-14 1-0-0 18-1-10
 1-0-0 1-0-0

Scale = 1:7.3



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.13	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.02	Vert(TL)	-0.00	7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	2	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002		(Matrix-M)							
										Weight: 5 lb

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

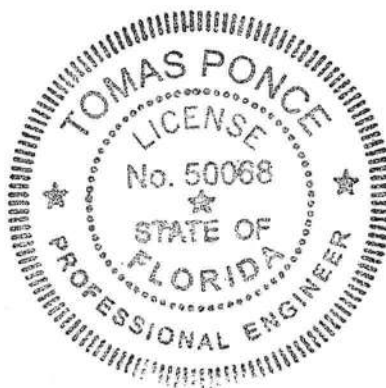
REACTIONS (lb/size) 5=107/0-1-8 (input: 0-3-8), 4=1/Mechanical, 3=7/Mechanical
 Max Horz 5=87(LC 6)
 Max Uplift 5=129(LC 6), 3=8(LC 5)
 Max Grav 5=107(LC 1), 4=19(LC 6), 3=12(LC 4)

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

NOTES (7)

- 1) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=129.
- 7) Attach with (2) 16d Common Toe-Nails (0.162"x3.5") at joints 3 and 4.

LOAD CASE(S) Standard



[Signature]

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	GRD1X	COMMON	1	2	Job Reference (optional)

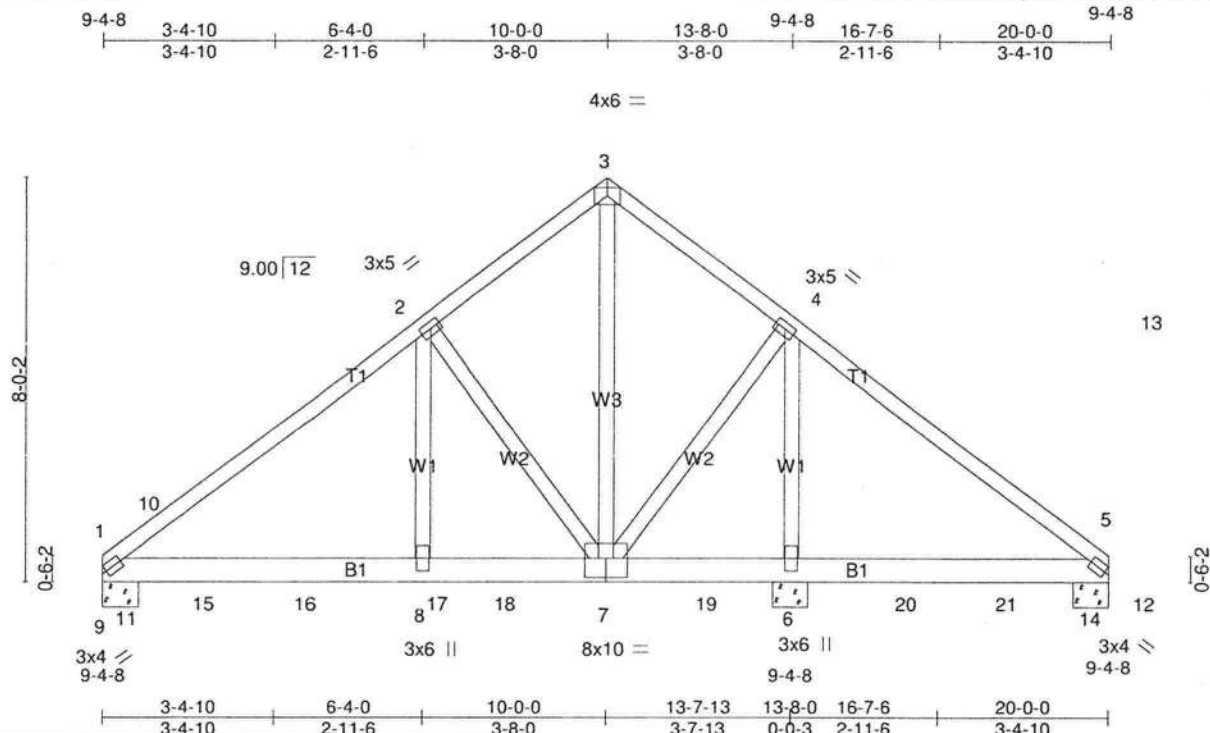
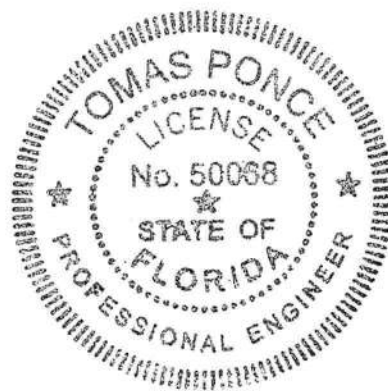


Plate Offsets (X,Y): [7:0-5:0,0-4:8]									
LOADING (psf)		SPACING 2:0-0		CSI		DEFL in (loc) l/defl L/d		PLATES GRIP	
TCLL	16.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.05 8-11 >999 240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.11 8-11 >999 180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(TL)	0.01 6 n/a n/a		
BCDL	10.0	Code FRC2007/TPI2002		(Matrix-M)				Weight: 251 lb	

REACTIONS (lb/size) 9=2037/0-1-8 (input: 0-8-6), 12=1160/0-1-8 (input: 0-8-6), 6=3558/0-2-2 (input: 0-8-6)
 Max Horz 9=-337(LC 3)
 Max Uplift 9=-518(LC 5), 12=-271(LC 6), 6=-841(LC 5)
 Max Grav 9=2037(LC 1), 12=1168(LC 10), 6=3558(LC 1)

TOP CHORD 1-10=-2093/400, 2-10=-2176/548, 2-3=-967/375, 3-4=-972/372, 5-13=-1151/155
BOT CHORD 9-11=-999/2599, 11-15=-522/1703, 15-16=-522/1703, 16-17=-522/1703, 8-17=-522/1703,
8-18=-522/1703, 7-18=-522/1703, 12-14=-636/1949
WEBS 2-8=-343/1758, 2-7=-1640/594, 3-7=-347/991, 4-7=-326/1108, 4-6=-1661/509,
1-9=-1737/308, 10-11=-177/515, 1-11=-1111/518, 5-12=-1032/150, 13-14=-179/619,
12-13=-299/558, 5-14=-1559/609

- 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 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) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
9=518, 12=271, 6=841.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 38 lb down and 22 lb up at 0-4-0, 542 lb down and 116 lb up at 1-11-4, 542 lb down and 116 lb up at 3-11-4, 542 lb down and 116 lb up at 5-11-4, 542 lb down and 116 lb up at 7-11-4, 542 lb down and 116 lb up at 9-11-4, 542 lb down and 116 lb up at 11-11-4, 531 lb down and 107 lb up at 13-11-4, 531 lb down and 107 lb up at 15-11-4, and 531 lb down and 107 lb up at 17-11-4, and 551 lb down and 107 lb up at 19-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	GRD1X	COMMON	1	2	Job Reference (optional)

Maronda Homes Inc., Sanford, FL

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LOAD CASE(S) Standard

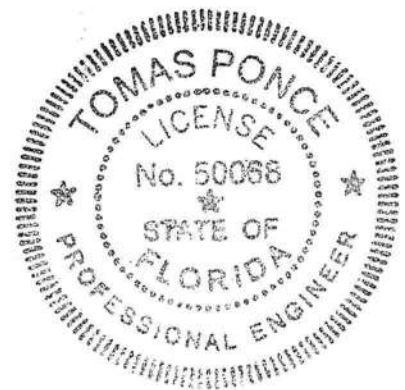
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-46, 3-5=-46, 9-12=-20

Concentrated Loads (lb)

Vert: 7=-542(F) 6=-531(F) 11=-38(F) 14=-551(F) 15=-542(F) 16=-542(F) 17=-542(F) 18=-542(F) 19=-542(F) 20=-531(F) 21=-531(F)



A stylized handwritten signature in black ink, appearing to be "T. Poncet".

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Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	T1X	COMMON	2	1	Job Reference (optional)
Maronda Homes Inc., Sanford, FL			7.110 s Dec 15 2008 MiTek Industries, Inc. Thu Feb 26 15:49:48 2009 Page 1		

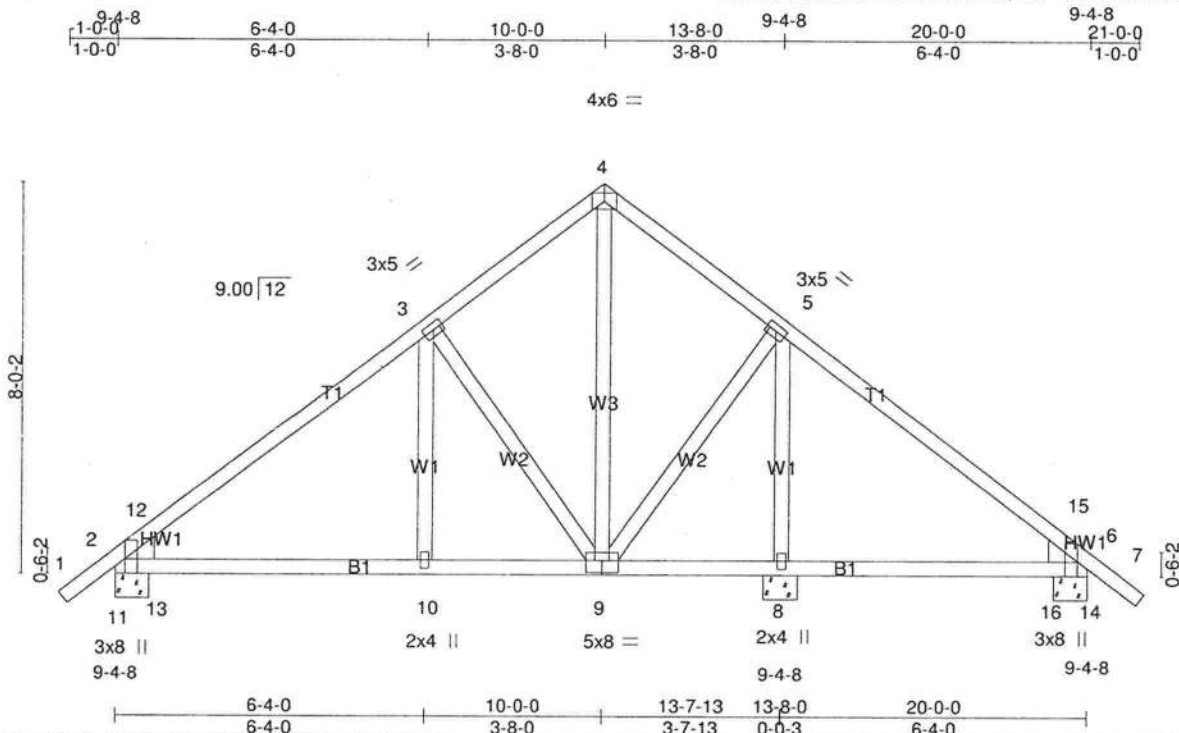


Plate Offsets (X,Y): [2:0-3-8,Edge], [6:0-3-8,Edge], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.35	Vert(LL)	0.07	8-16	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.28	Vert(TL)	-0.09	8-16	>855	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.30	Horz(TL)	0.01	6	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002		(Matrix-M)							
Weight: 116 lb										

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 WEBS 2 X 4 SYP No.3 *Except*
 W3: 2 X 4 SYP No.2

WEDGE

Left: 2 X 6 SYP No.2, Right: 2 X 6 SYP No.2

REACTIONS

(lb/size) 11=540/0-1-8 (input: 0-8-6), 8=536/0-1-8 (input: 0-8-6), 14=344/0-1-8 (input: 0-8-6)
 Max Horz 11=335(LC 5)
 Max Uplift 11=275(LC 6), 8=149(LC 6), 14=257(LC 7)

FORCES

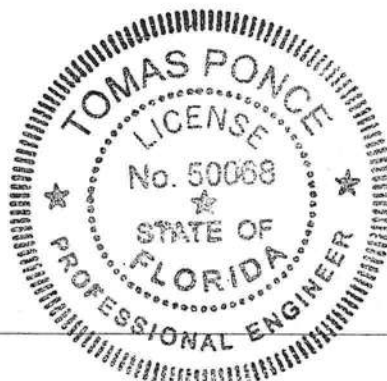
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-12=-258/37, 3-12=-564/374, 3-4=-325/397, 4-5=-327/397
 BOT CHORD 11-13=-184/268, 10-13=-204/398, 9-10=-204/398
 WEBS 3-9=-327/351, 4-9=-340/226, 5-9=-145/308, 5-8=-380/230, 2-11=-325/280,
 12-13=-108/317, 15-16=-96/311

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
 11=275, 8=149, 14=257.

LOAD CASE(S) Standard



[Signature]

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	T1GX	GABLE	1	1	Job Reference (optional)

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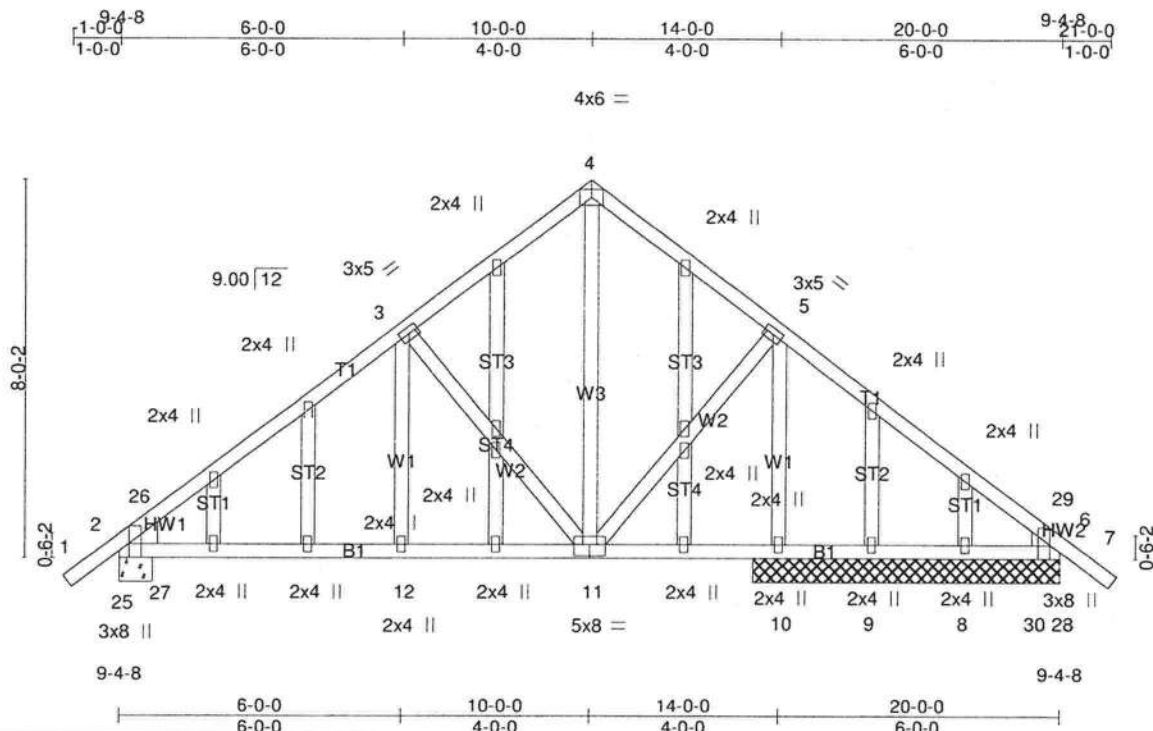


Plate Offsets (X,Y): [2:0-3-8,Edge], [6:0-3-8,Edge], [11:0-4-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.41	Vert(LL)	0.08 12-27	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.35	Vert(TL)	-0.07 12-27	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.27	Horz(TL)	0.01 6	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002		(Matrix-M)						
								Weight: 145 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 WEBS 2 X 4 SYP No.3 *Except*
 W3: 2 X 4 SYP No.2
 OTHERS 2 X 4 SYP No.3
 WEDGE
 Left: 2 X 6 SYP No.2, Right: 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

All bearings 6-6-8 except (jt=length) 25=0-8-6.

(lb) - Max Horz 25=429(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 9 except 25=-447(LC 6), 10=-367(LC 6), 28=-186(LC 7), 8=-241(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 28, 9, 8 except 25=522(LC 1), 10=578(LC 1)

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

TOP CHORD 2-26=-250/80, 3-26=-542/445, 3-4=-302/439, 4-5=-300/436, 6-29=-264/72

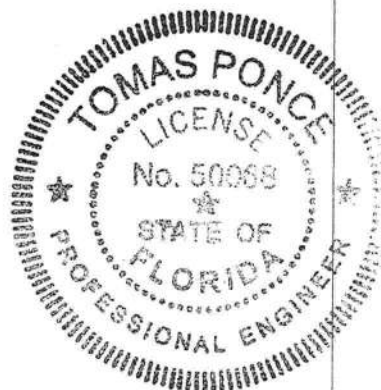
BOT CHORD 25-27=-248/330, 12-27=-306/412, 11-12=-306/412

WEBS 3-11=-308/462, 4-11=-307/176, 5-11=-144/293, 5-10=-492/413, 2-25=-316/319, 26-27=-97/362, 29-30=-259/610

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Builder's "Gable End Wall Bracing / Connection Details"
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 25=447, 10=367, 28=186, 8=241.

LOAD CASE(S) Standard



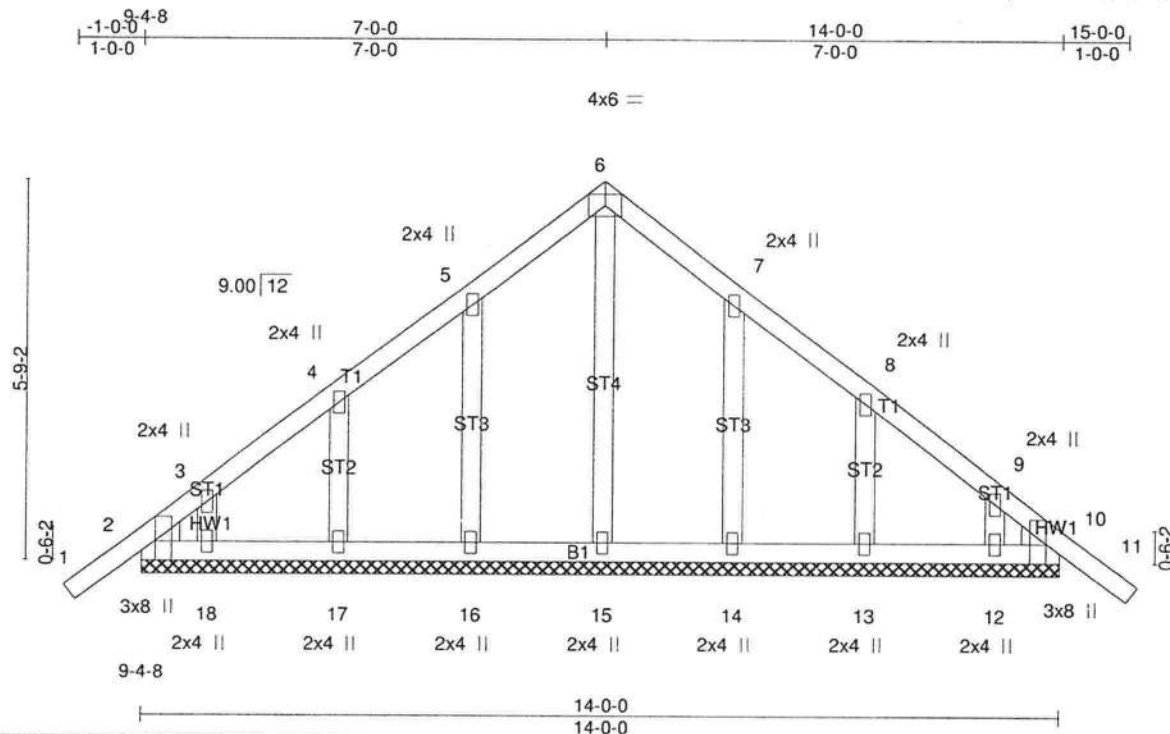
[Signature]

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	G1X	GABLE	1	1	Job Reference (optional)

Maronda Homes Inc., Sanford, FL

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Scale = 1:33.7

Plate Offsets (X,Y): [2:0-3-8,Edge], [10:0-3-8,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 0.13	Vert(LL)	-0.00	11	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.09	Vert(TL)	-0.00	11	n/r	120		
BCLL 0.0	Rep Stress Incr	NO	WB 0.07	Horz(TL)	0.00	10	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002		(Matrix)							
									Weight: 80 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 OTHERS 2 X 4 SYP No.3
 WEDGE
 Left: 2 X 4 SYP No.2, Right: 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

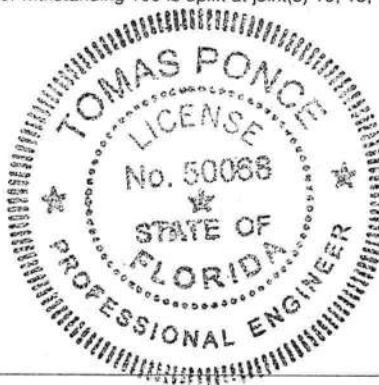
All bearings 14-0-0.
 (lb) - Max Horz 2=-243(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 18, 12 except 2=-150(LC 4), 16=-114(LC 6), 17=-136(LC 6), 14=-112(LC 7), 13=-137(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Builder's "Gable End Wall Bracing / Connection Details"
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 18, 12 except (jt=lb) 2=150, 16=114, 17=136, 14=112, 13=137.

LOAD CASE(S) Standard



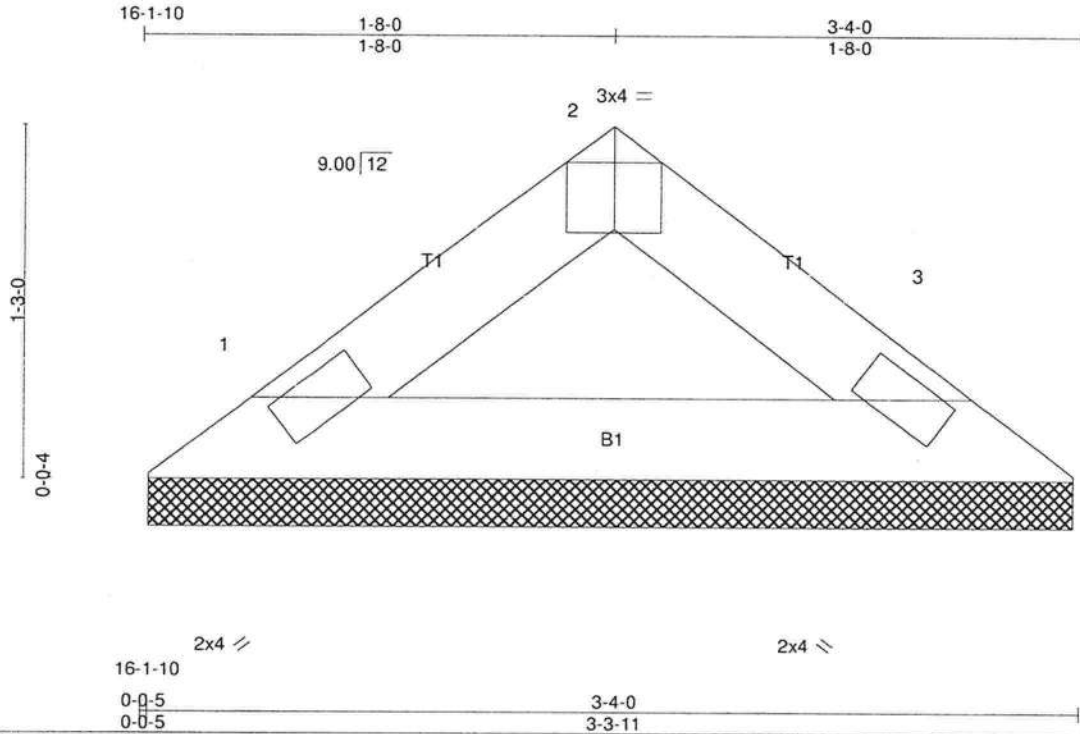
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MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	V1X	VALLEY	2	1	Job Reference (optional)

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Scale = 1:7.9

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 0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.06	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL 10.0	Code FRC2007/TP12002		(Matrix)							
									Weight: 10 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 3-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

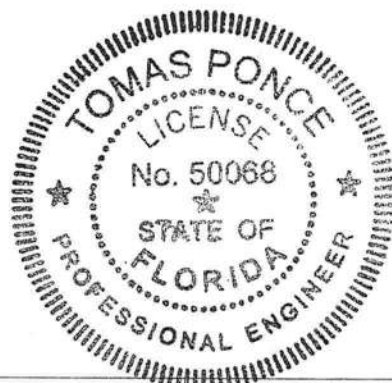
REACTIONS (lb/size) 1=81/0-1-8 (input: 3-3-6), 3=81/0-1-8 (input: 3-3-6)
Max Horz 1=-41(LC 4)
Max Uplift 1=-30(LC 6), 3=-30(LC 7)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

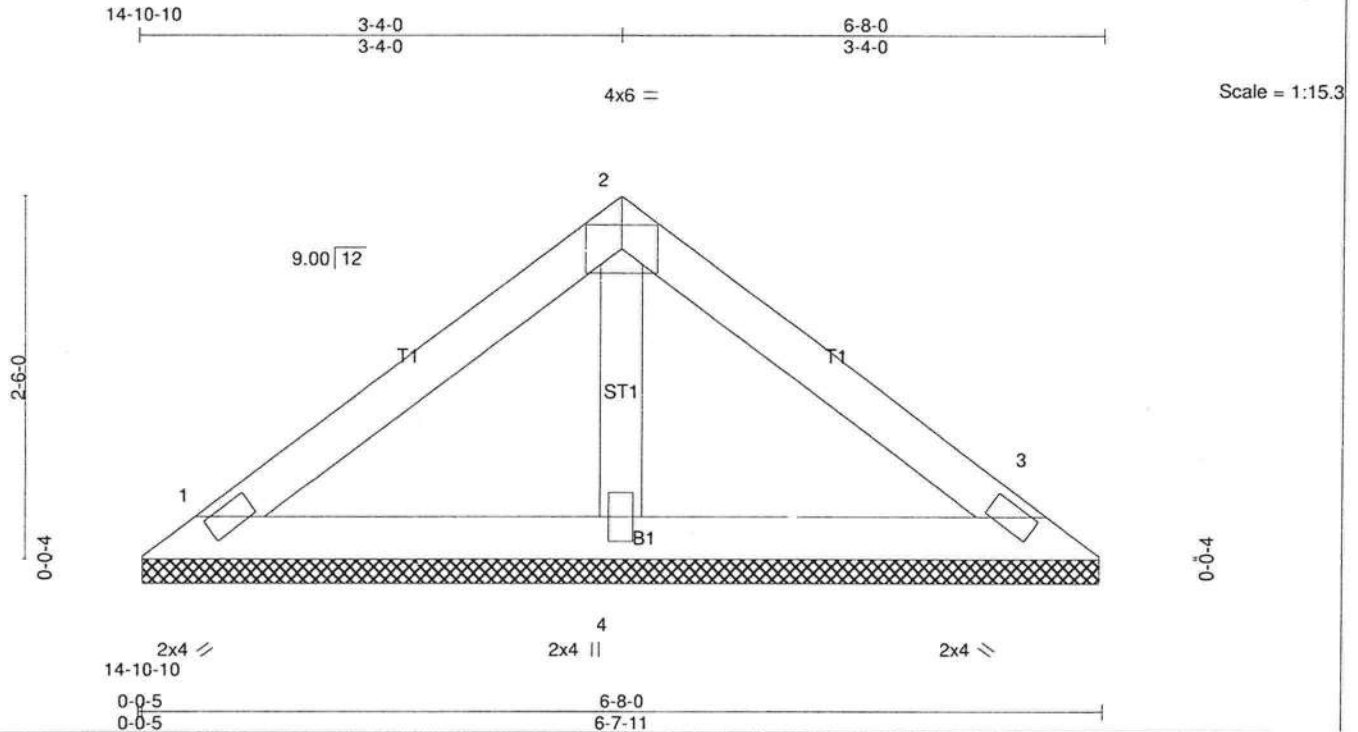
LOAD CASE(S) Standard



[Signature]

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FL_A_07
NANTUCKET	V2X	GABLE	2	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 0.15	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 0.0	Rep Stress Incr YES	WB 0.03	Horz(TL) 0.00 3 n/a n/a		
BCDL 10.0	Code FRC2007/TPI2002	(Matrix)			Weight: 24 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 OTHERS 2 X 4 SYP No.3

BRACING

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

REACTIONS

(lb/size) 1=105/0-1-8 (input: 6-7-6), 3=105/0-1-8 (input: 6-7-6), 4=173/0-1-8 (input: 6-7-6)
 Max Horz 1=-98(LC 4)
 Max Uplift 1=-59(LC 6), 3=-67(LC 7), 4=-21(LC 6)
 Max Grav 1=105(LC 1), 3=105(LC 1), 4=175(LC 2)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 1'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

LOAD CASE(S) Standard



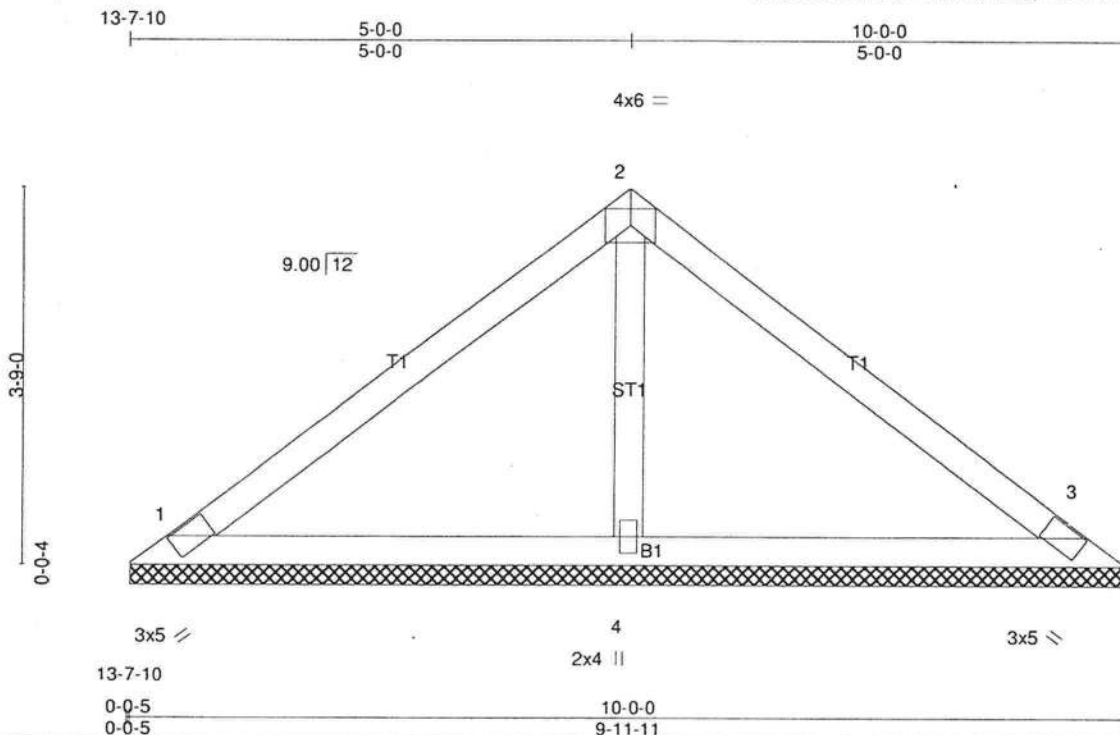
[Signature]

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	V3X	GABLE	2	1	Job Reference (optional)

Maronda Homes Inc., Sanford, FL

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Scale = 1:22.2

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.13	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(TL)	0.00	3	n/a	n/a		
BCDL 10.0	Code FRC2007/TPI2002		(Matrix)							
									Weight: 37 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING

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

REACTIONS

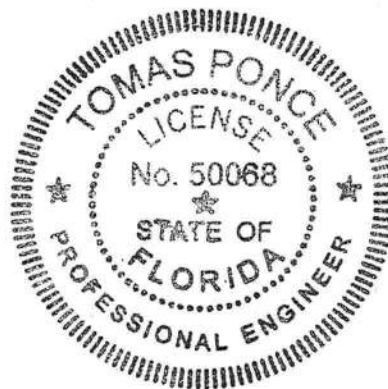
(lb/size) 1=146/0-1-8 (input: 9-11-6), 3=146/0-1-8 (input: 9-11-6), 4=311/0-1-8 (input: 9-11-6)
Max Horz 1=-154(LC 4)
Max Uplift 1=-65(LC 6), 3=-78(LC 7), 4=-89(LC 6)

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

LOAD CASE(S) Standard



[Signature]

MAR 20 2009

Job NANTUCKET	Truss V4X	Truss Type GABLE	Qty 2	Ply 1	NANTUCKET_140_FLA_07 Job Reference (optional)
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LOADING (psf) TCCL 16.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING 2'-0" Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FRC2007/TPI2002	CSI TC 0.15 BC 0.08 WB 0.07 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 5 n/a n/a	PLATES MT20 GRIP 244/190 Weight: 54 lb
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LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 OTHERS 2 X 4 SYP No.3

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

REACTIONS All bearings 13'-4"-0."
 (lb) - Max Horz 1=-210(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-220(LC 6), 6=-220(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

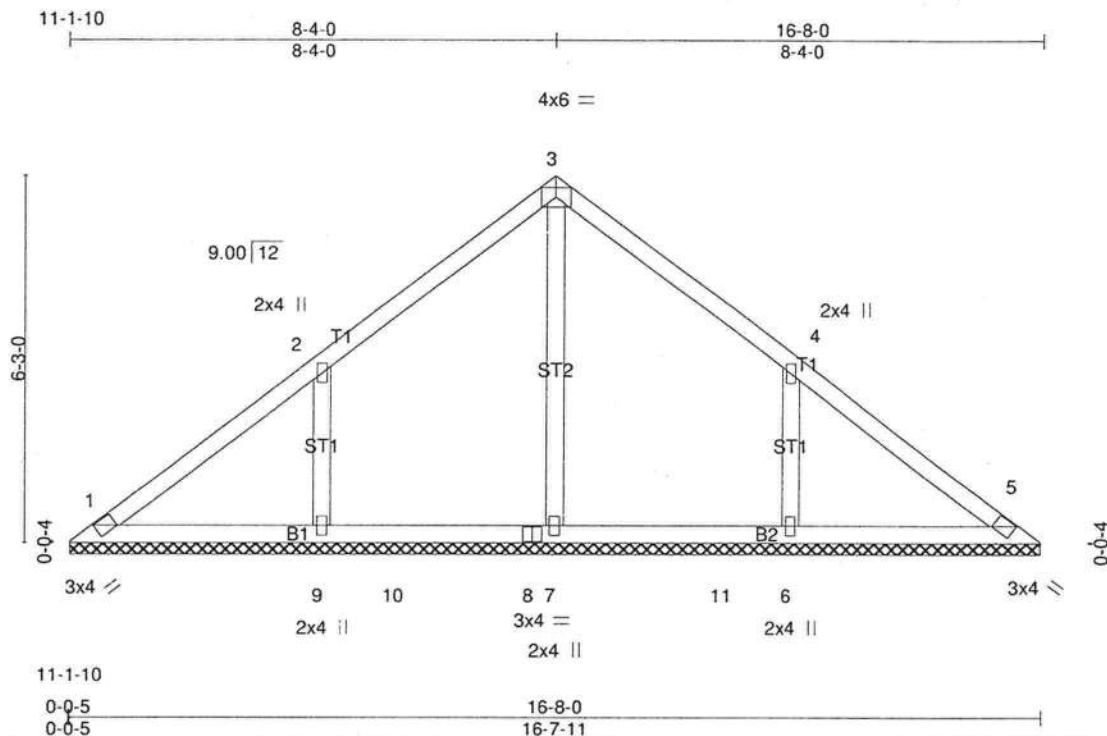
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-170/296, 4-6=-170/296

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Gable requires continuous bottom chord bearing.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 1'-0" wide will fit between the bottom chord and any other members.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=220, 6=220.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	NANTUCKET_140_FLA_07
NANTUCKET	V5X	GABLE	1	1	Job Reference (optional)
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Scale = 1:37.9

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	2'-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.11	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber Increase 1.25	WB 0.09	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 5 n/a n/a		
	Code FRC2007/TPI2002			Weight: 71 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING

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

REACTIONS

All bearings 16-7-6.
(lb) - Max Horz 1=-266(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-278(LC 6), 6=-278(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=370(LC 1), 9=335(LC 10), 6=335(LC 11)

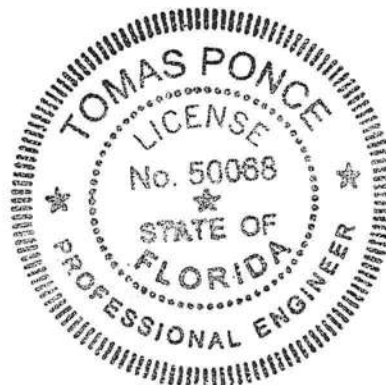
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-9=-204/345, 4-6=-204/345

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 140mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 1'-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=278, 6=278.

LOAD CASE(S) Standard



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Job	Truss Type	Qty	Ply	ELEV M Job Reference (optional)
ELEV_M	FA	FLOOR	4	1

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0-1-8
1-3-0

1-9-0 1-2-0 1-2-0 1-2-0 1-2-0 1-2-0 1-2-0 1-2-0

0-9-0 1-2-0 1-2-0 1-2-0 1-2-0 1-2-0 1-2-0 1-2-0

1-8-0
0-8-4 0-10-4

0-1-8
Scale = 1:70.6

4x6 =

4x6 = 3x4 = 1.5x4 || 3x4 =

1.5x4 = 4x6 = 3x4 = 3x4 = 1.5x4 || 3x6 FP = 4x6 = 4x6 = 5x6 = 6x12 =

3x6 FP = 3x6 || 3x6 || 1.5x4 =

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23

4x6 = 4x6 || 3x6 FP = 3x6 || 4x6 || 4x6 || 4x6 || 5x6 || 6x8 = 4x8 =

5x6 || 4x6 || 3x6 || 3x6 FP = 8x10 || 5x6 = 4x6 = 3x4 =

3x6 FP =

11-1-8 12-0-0 25-11-8 31-10-12 33-6-12 39-9-8

11-1-8 0-10-8 13-1-0 5-11-4 0-10-0 6-2-12

0-10-8 0-10-0

Plate Offsets (X,Y): [1:Edge,0-1-8], [3:0-1-12,Edge], [13:0-2-12,Edge], [14:0-5-4,Edge], [15:0-3-0,Edge], [17:0-3-0,Edge], [19:0-3-0,0-0-0], [22:0-1-8,0-0-8], [22:0-3-0,Edge], [23:Edge,0-1-8], [24:0-1-12,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [29:0-2-8,Edge], [34:0-3-0,Edge], [35:0-3-0,Edge], [38:0-3-0,Edge], [43:0-3-0,Edge], [44:0-3-0,Edge], [45:Edge,0-1-8], [46:0-1-8,0-0-12]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 40.0	Plates Increase 1.00	TC 0.96	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.85	Vert(LL) -0.53 39 >578 480		
BCLL 0.0	Rep Stress Incr YES	WB 0.92	Vert(TL) -0.82 39 >377 360		
BCDL 5.0	Code FRC2007/TPI2002	(Matrix)	Horz(TL) 0.06 30 n/a n/a		
				Weight: 259 lb	

LUMBER

TOP CHORD 4 X 2 SYP No.2 *Except*
T2: 4 X 2 SYP No.1D

BOT CHORD 4 X 2 SYP No.2

WEBS 4 X 2 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-1-5 oc bracing.

REACTIONS (lb/size) 45=1606/0-1-8 (input: 0-6-12), 23=766/0-1-8 (input: 0-6-12), 30=2824/0-1-8 (input: 0-3-8)
Max Uplift 23=56(LC 2)
Max Grav 45=1628(LC 2), 23=1031(LC 3), 30=2824(LC 1)

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

TOP CHORD 45-46=1621/0, 1-46=1618/0, 22-23=1023/65, 1-2=1336/0, 2-3=3360/0, 3-4=4751/0, 4-5=5565/0, 5-6=5726/0, 6-7=5726/0, 7-8=5726/0, 8-9=4904/0, 9-10=4904/0, 10-11=3724/0, 11-12=1995/0, 12-13=0/904, 13-14=0/3579, 14-15=0/3827, 15-16=517/2763, 16-17=517/2763, 17-18=1327/1668, 18-19=1327/1668, 19-20=1327/1668, 20-21=1311/749, 21-22=590/245

BOT CHORD 43-44=0/2505, 42-43=0/4186, 41-42=0/5298, 40-41=0/5298, 39-40=0/5766, 38-39=0/5726, 37-38=0/5379, 36-37=0/4439, 35-36=0/4439, 34-35=0/2976, 33-34=246/994, 32-33=1966/0, 31-32=1966/0, 30-31=5263/0, 29-30=5267/0, 28-29=3266/9, 27-28=2223/1023, 26-27=1668/1327, 25-26=1112/1459, 24-25=475/1110

WEBS 7-38=351/0, 14-30=2973/0, 18-27=994/0, 19-26=0/664, 1-44=0/1656, 2-44=1586/0, 2-43=0/1161, 3-43=1120/0, 3-42=0/767, 4-42=742/0, 4-40=0/401, 5-40=430/99, 5-39=522/421, 14-31=0/2304, 13-31=2255/0, 13-33=0/1812, 14-29=0/2024, 15-29=1493/0, 15-28=0/1067, 17-28=1123/0, 17-27=0/1432, 22-24=319/768, 21-24=706/312, 21-25=371/273, 20-25=201/493, 20-26=1060/0, 12-33=1773/0, 12-34=0/1433, 11-34=1406/0, 11-35=0/1081, 10-35=1033/0, 10-37=0/679, 8-37=738/0, 8-38=16/902

NOTES

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 23.
- Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 426 lb down at 0-2-4, and 426 lb down at 39-8-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	
ELEV_M	FA	FLOOR	4	1	ELEV M

Job Reference (optional)

Maronda Homes, Inc, Pittsburgh, PA

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LOAD CASE(S) Standard

1) Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 23-45=-10, 1-22=-100

Concentrated Loads (lb)

Vert: 1=-426(F) 22=-426(F)



A handwritten signature in black ink, appearing to be "TP" or similar initials, located below the professional seal.

MAR 20 2009

Job ELEV_M	Truss FB	Truss Type FLOOR	Qty 3	Ply 1	ELEV M Job Reference (optional)
Maronda Homes, Inc, Pittsburgh, PA			7.110 s Dec 15 2008 MiTek Industries, Inc. Thu Feb 26 15:34:47 2009 Page 1		

0-1-8
1-3-0

1-9-0
0-9-0 1-1-10

1-9-0
0-10-10 1-0-4

0-1-8
Scale = 1:70.6

3x6 FP=

4x6 = 1.5x4 || 3x6 FP= 1.5x4 || 3x4 = 4x6 =

1.5x4 = 3x4 = 3x4 = 3x4 = 3x4 = 4x6 = 4x6 = 4x6 = 5x10 = 4x6 = 3x4 = 4x6 = 1.5x4 || 3x4 = 3x4 = 1.5x4 =

1 2 3 T1 4 5 6 7 8 9 10 T2 11 12 13 14 15 16 17 18 T3 19 20 21

44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22

4x6 = 3x4 = 3x6 || 3x6 || 3x6 || 4x6 || 5x6 = 6x8 = 5x6 = 4x6 = 3x4 = 4x6 = 3x4 = 3x4 = 3x4 = 4x6 =

4x6 = 3x4 = 3x6 FP= 3x6 || 4x6 = 3x6 FP= 4x6 =

11-1-8
11-1-8

12-0-0
0-10-8

20-6-2
7-7-10

29-1-12
8-7-10

30-10-12
30-0-4
0-10-8

39-9-8
8-10-12

Plate Offsets (X,Y): [1:Edge,0-1-8], [2:0-1-12,Edge], [7:0-1-8,Edge], [13:0-1-12,Edge], [21:0-1-8,Edge], [22:Edge,0-1-8], [26:0-1-8,Edge], [27:0-1-8,Edge], [28:0-1-12,Edge], [31:0-2-12,Edge], [34:0-2-12,Edge], [35:0-3-0,Edge], [36:0-3-0,0-0-0], [42:0-1-12,Edge], [44:Edge,0-1-8], [45:0-1-8,0-0-12], [46:0-1-8,0-0-12]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plates Increase 1.00	TC 0.82	Vert(LL) -0.31 37-38 >780 480	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.98	Vert(TL) -0.47 37-38 >522 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.76	Horz(TL) 0.06 22 n/a n/a		
BCDL 5.0	Code FRC2007/TPI2002	(Matrix)			
				Weight: 224 lb	

LUMBER

TOP CHORD 4 X 2 SYP No.2 *Except*
T3: 4 X 2 SYP No.1D

BOT CHORD 4 X 2 SYP No.2 *Except*
B4: 4 X 2 SYP No.1D

WEBS 4 X 2 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.

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

REACTIONS (lb/size) 44=1316/0-1-8 (input: 0-6-12), 22=1251/0-1-8 (input: 0-6-12), 32=2621/0-1-8 (input: 0-3-8)
Max Grav 44=1395(LC 2), 22=1334(LC 3), 32=2621(LC 1)

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

TOP CHORD 44-45=-1395/0, 1-45=-1394/0, 22-46=-1330/0, 21-46=-1329/0, 1-2=-1011/0, 2-3=-2426/0, 3-4=-3418/0, 4-5=-3805/0, 5-6=-3329/126, 6-7=-3329/126, 7-8=-2489/535, 8-9=-2489/535, 9-10=-972/1168, 10-11=0/2466, 11-12=0/2153, 12-13=-944/1063, 13-14=-2211/512, 14-15=-2211/512, 15-16=-3055/2, 16-17=-3055/2, 17-18=-3055/2, 18-19=-2977/0, 19-20=-2247/0, 20-21=-937/0

BOT CHORD 42-43=0/1867, 41-42=0/3036, 40-41=0/3036, 39-40=0/3749, 38-39=0/3749, 37-38=0/3671, 36-37=-126/3329, 35-36=-126/3329, 34-35=-839/1835, 33-34=-1542/52, 32-33=-3871/0, 31-32=-3587/0, 30-31=-1411/136, 29-30=-1411/136, 28-29=-755/1712, 27-28=-254/2726, 26-27=-2/3055, 25-26=0/3155, 24-25=0/2736, 23-24=0/1740

WEBS 1-43=0/1276, 2-43=-1191/0, 2-42=0/778, 3-42=-848/0, 3-40=-11/518, 4-40=-449/35, 5-38=0/480, 5-37=-934/0, 11-33=0/1830, 10-33=-1762/0, 10-34=0/1368, 9-34=-1282/0, 9-35=0/1011, 7-35=-1436/0, 11-31=0/1903, 12-31=-1605/0, 12-29=0/1251, 13-29=-1188/0, 13-28=0/800, 15-28=-854/0, 15-27=0/982, 21-23=0/1180, 6-37=0/299, 7-36=0/639, 11-32=-2719/0, 16-27=-552/0, 17-26=-58/269, 20-23=-1117/0, 20-24=0/705, 19-24=-681/0, 19-25=-32/334, 18-26=-597/64

TOMAS PONCE

LICENSE

No. 50068

STATE OF

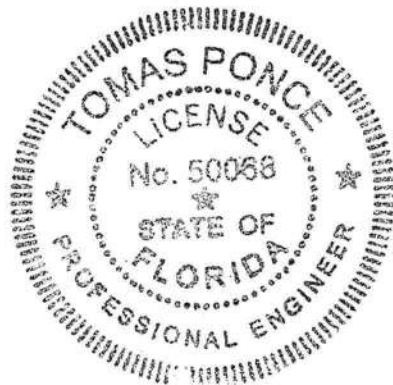
FLORIDA

PROFESSIONAL ENGINEER

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	
ELEV_M	FB	FLOOR	3	1	ELEV M
Maronda Homes, Inc, Pittsburgh, PA					Job Reference (optional)
					7.110 s Dec 15 2008 MiTek Industries, Inc. Thu Feb 26 15:34:47 2009 Page 2

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 1=-426(F) 21=-426(F)



A handwritten signature in black ink, appearing to be "TP" or similar initials, written over a horizontal line.

MAR 20 2009

MAR 20 2009

Job	Truss	Truss Type	Qty	Ply	
ELEV_M	FB-A	FLOOR	1	1	ELEV M
					Job Reference (optional)

Maronda Homes, Inc, Pittsburgh, PA

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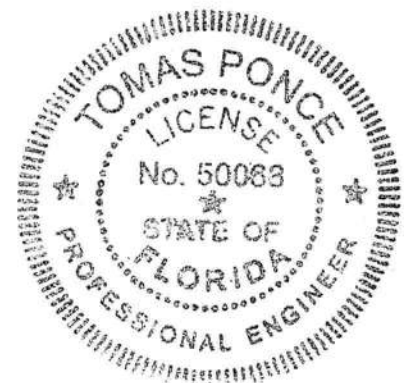
LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-23=-100, 24-47=-10

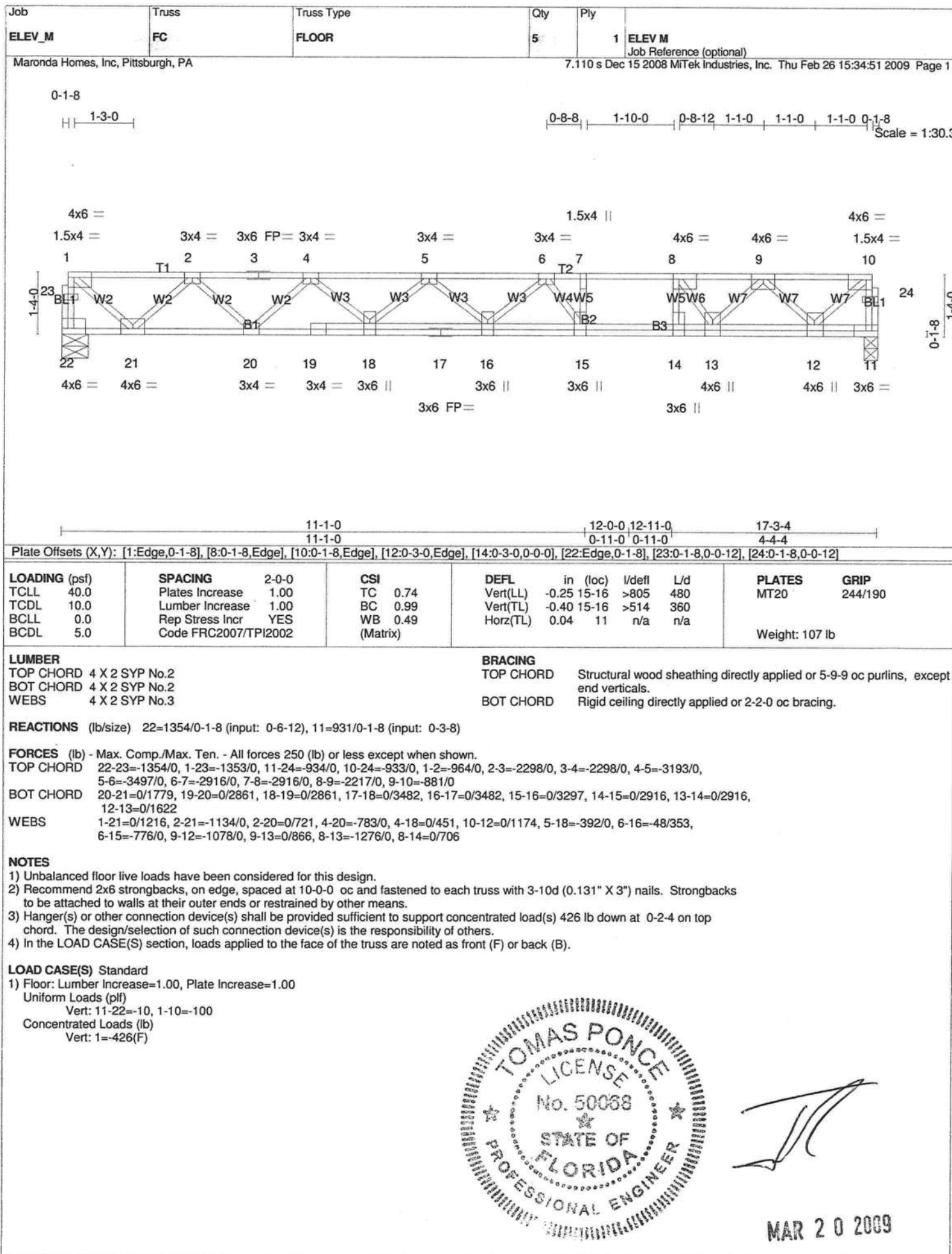
Concentrated Loads (lb)

Vert: 1=-426(F) 23=-426(F)



A handwritten signature in black ink, appearing to be "T. Ponce", written over the seal area.

MAR 20 2009



Job ELEV_M	Truss FD	Truss Type FLOOR	Qty 5	Ply 1	ELEV M Job Reference (optional)
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Maronda Homes, Inc, Pittsburgh, PA 7.110 s Dec 15 2008 MiTek Industries, Inc. Thu Feb 26 15:34:53 2009 Page 1

0-1-8

1-3-0 1-2-8 2-0-0 1-2-12

0-1-8
Scale = 1:34.2

LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr YES Code FRC2007/TPI2002	CSI TC 0.73 BC 0.92 WB 0.61 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.32 20-21 >726 480 Vert(TL) -0.49 20-21 >465 360 Horz(TL) 0.06 14 n/a n/a
--	---	---	---

PLATES MT20 GRIP 244/190 Weight: 123 lb

LUMBER

TOP CHORD 4 X 2 SYP No.2

BOT CHORD 4 X 2 SYP No.2

WEBS 4 X 2 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-22,20-21,16-18.

REACTIONS (lb/size) 26=1050/0-1-8 (input: 0-3-8), 14=1474/0-1-8 (input: 0-6-12)

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

TOP CHORD 26-27=-1042/0, 1-27=-1041/0, 14-28=-1474/0, 13-28=-1472/0, 1-2=-1228/0, 2-3=-1228/0, 3-4=-2878/0, 4-5=-2878/0, 5-6=-4210/0, 6-7=-4210/0, 7-8=-4447/0, 8-9=-4447/0, 9-10=-3889/0, 10-11=-2731/0, 11-12=-1196/0, 12-13=-1196/0

BOT CHORD 24-25=0/2203, 23-24=0/3527, 22-23=0/3527, 21-22=0/4210, 20-21=0/4210, 19-20=0/4272, 18-19=0/4272, 17-18=0/3436, 16-17=0/3436, 15-16=0/2088

WEBS 6-22=-324/0, 7-21=-382/31, 1-25=0/1525, 3-25=-1294/0, 3-24=0/915, 5-24=-862/0, 5-22=0/1140, 13-15=0/1491, 11-15=-1212/0, 11-16=0/894, 10-16=-981/0, 10-18=0/615, 9-18=-519/0, 9-20=0/296, 7-20=-297/583

NOTES

- Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 426 lb down at 19-3-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 14-26=-10, 1-13=-100

Concentrated Loads (lb)

Vert: 13=-426(F)

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Job	Truss	Truss Type	Qty	Ply	ELEV M
ELEV_M	FE	FLOOR	1	1	Job Reference (optional)
Maronda Homes, Inc, Pittsburgh, PA			7.110 s Dec 15 2008 MiTek Industries, Inc. Thu Feb 26 15:34:54 2009 Page 1		

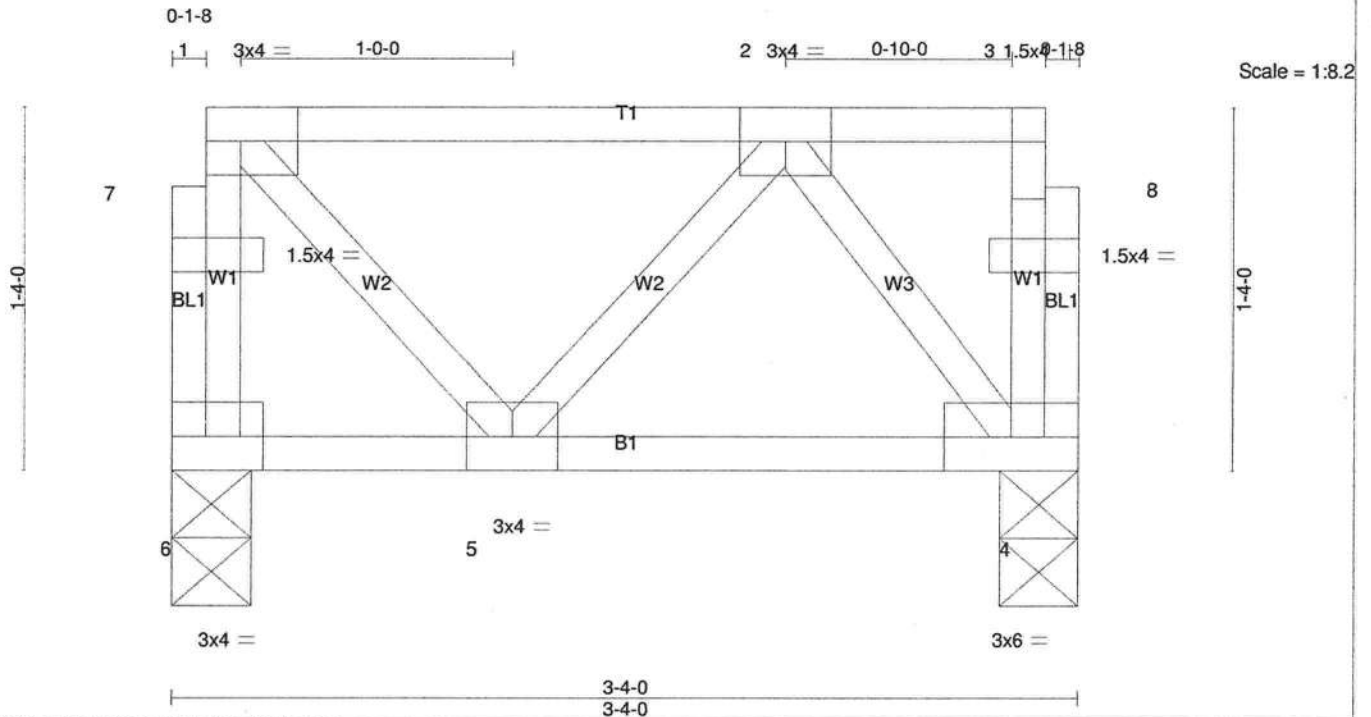


Plate Offsets (X,Y): [7:0-1-8,0-0-12], [8:0-1-8,0-0-12]												
LOADING (psf)		SPACING 2-0-0		CSI		DEFL in (loc)		I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plates Increase	1.00	TC	0.22	Vert(LL)	-0.00	5	>999	480	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.05	Vert(TL)	-0.00	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.04	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FRC2007/TPI2002		(Matrix)							Weight: 22 lb	

LUMBER

TOP CHORD 4 X 2 SYP No.2
BOT CHORD 4 X 2 SYP No.2
WEBS 4 X 2 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=163/0-1-8 (input: 0-3-8), 4=163/0-1-8 (input: 0-3-8)

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

NOTES

1) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



MAR 20 2009