DATE 05/07/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000025780

APPLICANT GLENN KEEN PHONE 867-0156

ADDRESS 1534 SW DEKLE RD LAKE CITY FL 32024

OWNER JOHN KEEN/GLENN KEEN PHONE 867-0155

ADDRESS 594 SW KIRBY AVE LAKE CITY FL 32024

CONTRACTOR JASON ELIXSON CONSTRUCTION PHONE 623-1741

LOCATION OF PROPERTY 90W, TL ON 247S, TL ON KIRBY RD, GO TO KIRBY OAKS S/D, 2ND LOT ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 83600.00

HEATED FLOOR AREA 1672.00 TOTAL AREA 2148.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 16

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

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

PARCEL ID 11-4S-16-02919-012 SUBDIVISION KIRBY OAKS

LOT 2 BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES ____

000001378	____	CBC1250031		
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
CULVERT	07-316	BK	JH	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 1253

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

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

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

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

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

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

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

BUILDING PERMIT FEE $ 420.00 CERTIFICATION FEE $ 10.74 SURCHARGE FEE $ 10.74

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** 541.48

INSPECTORS OFFICE Gale Tedder CLERKS OFFICE CH

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."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

(2)

Prepared by:
Elaine R. Davis / Megan Marable
American Title Services of Lake City, Inc.
321 Sw Main Blvd., Suite 105
Lake City, Florida 32025

File Number: 07-172

Inst:2007007834 Date:04/05/2007 Time:15:19
Doc Stamp-Deed : 336.00
________DC,P.DeWitt Cason,Columbia County B:1115 P:2214

Warranty Deed

Made this April 4, 2007 A.D.

By **ERSTON L. KIRBY AND CAROLYN D. KIRBY**, husband and wife, 477 SW Carolyn Lane, Lake City, Florida 32024, hereinafter called the grantor, to

JOHN W. KEEN , whose post office address is: 1534 SW Dekle Road, Lake City, Florida 32024, hereinafter called the grantee:

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

Lot 2, of Kirby's Oak, according to the Plat thereof, as recorded in Plat Book 7, at Page 129 through 130, of the Public Records of Columbia County, Florida

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: **02919-012**

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, 2006.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Megan Marable (signature) — Erston L Kirby (signature) (Seal)
Witness Printed Name Megan Marable
Erston L. Kirby
Address: 477 SW Carolyn Lane, Lake City, Florida 32024

Elaine R. Davis (signature) — Carolyn D. Kirby (signature) (Seal)
itness Printed Name Elaine R. Davis
Carolyn D. Kirby
Address:

ate of Florida
ounty of Columbia

e foregoing instrument was acknowledged before me this 4th day of April, 2007, by Erston L. Kirby and Carolyn D. Kirby, husband d wife, who is/are personally known to me or who has produced Known as identification.

Elaine R. Davis (signature)
Notary Public
Print Name: Elaine R. Davis

My Commission Expires:________

...te of Florida
...Oct 14, 2007
... # DD 223411

ED Individual Warranty Deed With Non-Homestead-Legal on Face
...ers' Choice

CK #1253 @ 9:30am

Columbia County Building Permit Application

For Office Use Only Application # 0704-07 Date Received 4/26/07 By G Permit # 1378/25780
Application Approved by - Zoning Official BLK Date 03.05.07 Plans Examiner OK JTH Date 4-30-07
Flood Zone X per plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. LOW DEN.
Comments
☑ NOC ☑ EH ☐ Deed or PA ☑ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit Glenn L. Keen Phone (386) 867-0156 Fax
Address 1534 SW Dekle Rd. Lake City, FL 32024
Owners Name John W. Keen / Glenn Keen Phone (386) 867-0155
911 Address 594 SW Kirby Rd. Lake City, FL 32024
Contractors Name Jason Elvxson Construction, L.L.C. Phone (386) 623-1741
Address Rt. 3 Box 190 Lake Butler, FL 32054
Fee Simple Owner Name & Address
Bonding Co. Name & Address 32056
Architect/Engineer Name & Address Mark Disosway / Ben Sparks P.O. Box 868 L.C, FL
Mortgage Lenders Name & Address First Federal Savings P.O. Box 2029 L.C. FL 32056

Circle the correct power company - FL Power & Light - (Clay Elec.) - Suwannee Valley Elec. - Progressive Energy
Property ID Number 11-4S-16-02919-012 Estimated Cost of Construction 96,800.00
Subdivision Name Kirby OAKS Lot 2 Block Unit Phase
Driving Directions Go 90 West to C.Rd. 247 South, Turn left & go 2½ miles to Kirby Rd., Turn Left & go 1½ miles to Kirby OAKS (subdivision) 2nd lot on right (Lot 2 is right off Kirby Rd. when you go down 1½ miles).
Type of Construction Residential (New Home) Number of Existing Dwellings on Property 0
Total Acreage .69 Lot Size Do you need a - (Culvert Permit) or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 35' Side 25' Side 25' Rear 190'
Total Building Height 16'2" Number of Stories 1 Heated Floor Area 1672 TOTAL 2148 Roof Pitch 6/12

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.

OWNERS AFFIDAVIT: 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.

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

L. K Keith Framing
Owner Builder or Authorized Person by Notarized Letter

Contractor Signature
Contractors License Number CBC 1250331
Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 19th day of April 20 07.
Personally known ✓ or Produced Identification

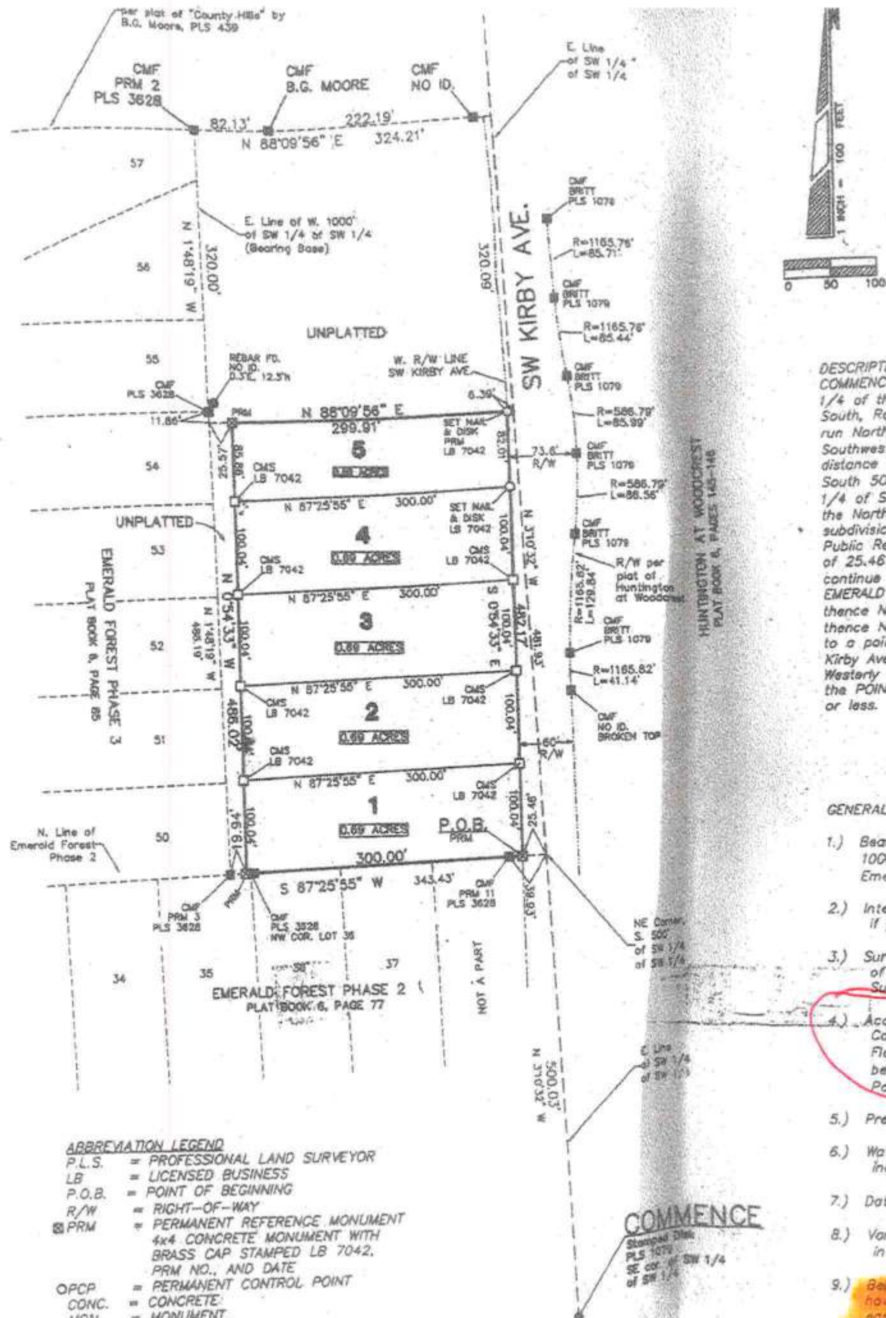
NOTARY STAMP/SEAL
NOTARY PUBLIC STATE OF FLORIDA
BARRY COLEMAN
MY COMMISSION # DD 597907
EXPIRES: September 24, 2010
Bonded Thru Budget Notary Services

Notary Signature

(Revised Sept. 2006)

KIRBY'S OAK

IN SECTION 11, TOWNSHIP 4 SOUTH, RANGE 16 EAST
COLUMBIA CO., FLORIDA



DESCRIPTION
COMMENCE at the Southeast corner of the Southwest 1/4 of the Southwest 1/4 of Section 11, Township 4 South, Range 16 East, Columbia County, Florida and run North 03°10'32" West along the East line of the Southwest 1/4 of the Southwest 1/4 of Section 11 a distance of 500.03 feet to the Northeast corner of the South 500 feet of the Southwest 1/4 of the Southwest 1/4 of Section 11; thence South 87°25'55" West along the North line of EMERALD FOREST PHASE 2, a subdivision recorded in Plat Book 6, Page 77 of the Public Records of Columbia County, Florida, a distance of 25.46 feet to the POINT OF BEGINNING; thence continue South 87°25'55" West along said North line of EMERALD FOREST PHASE 2 a distance of 300.00 feet; thence North 00°54'33" West a distance of 486.02 feet; thence North 88°09'56" East a distance of 299.91 feet to a point on the Westerly Right-of-Way line of SW Kirby Avenue; thence South 00°54'33" East along said Westerly Right-of-Way line a distance of 482.17 feet to the POINT OF BEGINNING. Containing 3.33 acres, more or less.

GENERAL NOTES

1.) Bearings projected from the East line of the West 1000 feet of the SW 1/4 of the SW 1/4 (E. Line of Emerald Forest Phase 3) -N 01°48' 19"W.

2.) Interior improvements or underground encroachments, if present, were not located with this survey.

3.) Survey closure precision exceeds the requirements of the Minimum Technical Standards for Land Surveying in Florida.

4.) According to the official Flood maps (FIRM) of Columbia County, this development lies within Flood Zone "X", which has been determined to be outside of the 500 year flood plain (Community Panel No. 120070 125 B).

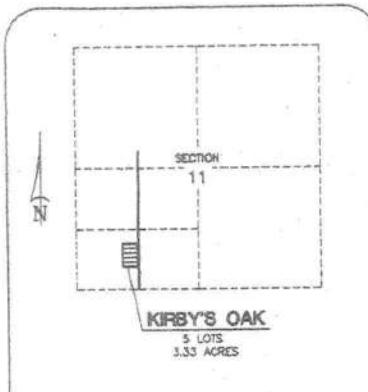
5.) Preliminary approval: 2/6/2003.

6.) Water and Sewerage disposal to be provided by individual lot owners, subject to County approval.

7.) Date of Plat: 08/4/2003.

8.) Variance request for Lot 5 (less than 100 feet in width) granted 2/6/2003 with preliminary approval.

9.) BellSouth Communications and Clay Electric Coop., Inc. have indicated that they do not require any utility easements across this development.



VICINITY MAP
SCALE: 1" = 2000'

NOTICE: This Plat as recorded in its graphic form, is the official depiction of the subdivided lands described herein and will in no circumstances be supplanted in authority by any other graphic or digital form of the Plat. There may be additional restrictions that are not recorded on this Plat that may be found in the Public Records of this County.

NOTICE: All Platted utility easements shall provide that such easements shall also be easements for the construction, installation, maintenance, and operation of cable television services; provided however, no such construction, installation, maintenance, and operation of cable television services shall interfere with the facilities and services of electric, telephone, gas, or other public utility. In the event that a cable television company damages the facilities of a public utility, it shall be solely responsible for the damages.

ABBREVIATION LEGEND

- P.L.S. = PROFESSIONAL LAND SURVEYOR
- LB = LICENSED BUSINESS
- P.O.B. = POINT OF BEGINNING
- R/W = RIGHT-OF-WAY
- PRM = PERMANENT REFERENCE MONUMENT 4x4 CONCRETE MONUMENT WITH BRASS CAP STAMPED LB 7042, PRM NO., AND DATE
- PCP = PERMANENT CONTROL POINT
- CONC. = CONCRETE
- MON. = MONUMENT
- Δ = DELTA (CENTRAL ANGLE)
- R = RADIUS OF CURVE
- L = ARC LENGTH OF CURVE
- CH = CHORD OF CURVE
- P.B. = PLAT BOOK
- PG. = PAGE
- IRC = IRON ROD AND CAP
- NC = NAIL AND CAP FOUND
- RC = 5/8" REBAR SET WITH PLASTIC CAP STAMPED LB 7042

DEVELOPER
Erston Kirby
Lake City, FL 32055
Ph. (386) 752-3987

SURVEYOR'S CERTIFICATE

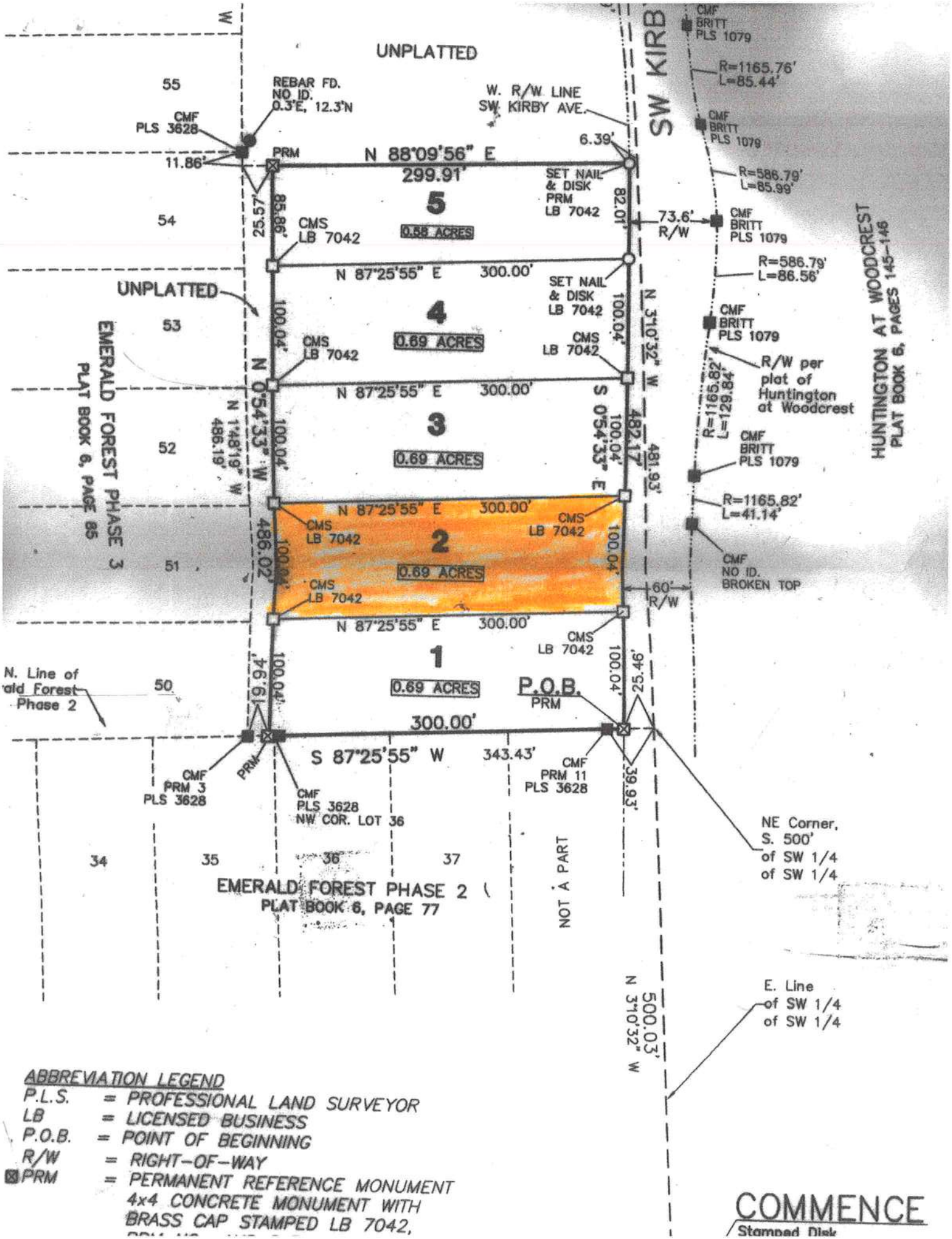
I HEREBY CERTIFY this to be a true and correct representation of the lands surveyed and shown hereon, that the Survey was made under my responsible supervision, direction and control, that Permanent Reference Monuments have been set as shown and that survey data complies with the Columbia County Subdivision Ordinance and Chapter 177 of the Florida Statutes.

SIGNED : Timothy A. Delbene, P.S.M.
Florida Registered Cert. No.

DATE: 8 / 11 / 2003

SHEET 1 OF 2 PLAT DATE: 7 / 30 / 2003

Donald F. Lee and Associates, Inc.
SURVEYORS — ENGINEERS
140 Northwest Ridgewood Avenue, Lake City, Florida
Phone: (386) 755-6166 FAX: (386) 755-6167
LB# 7042

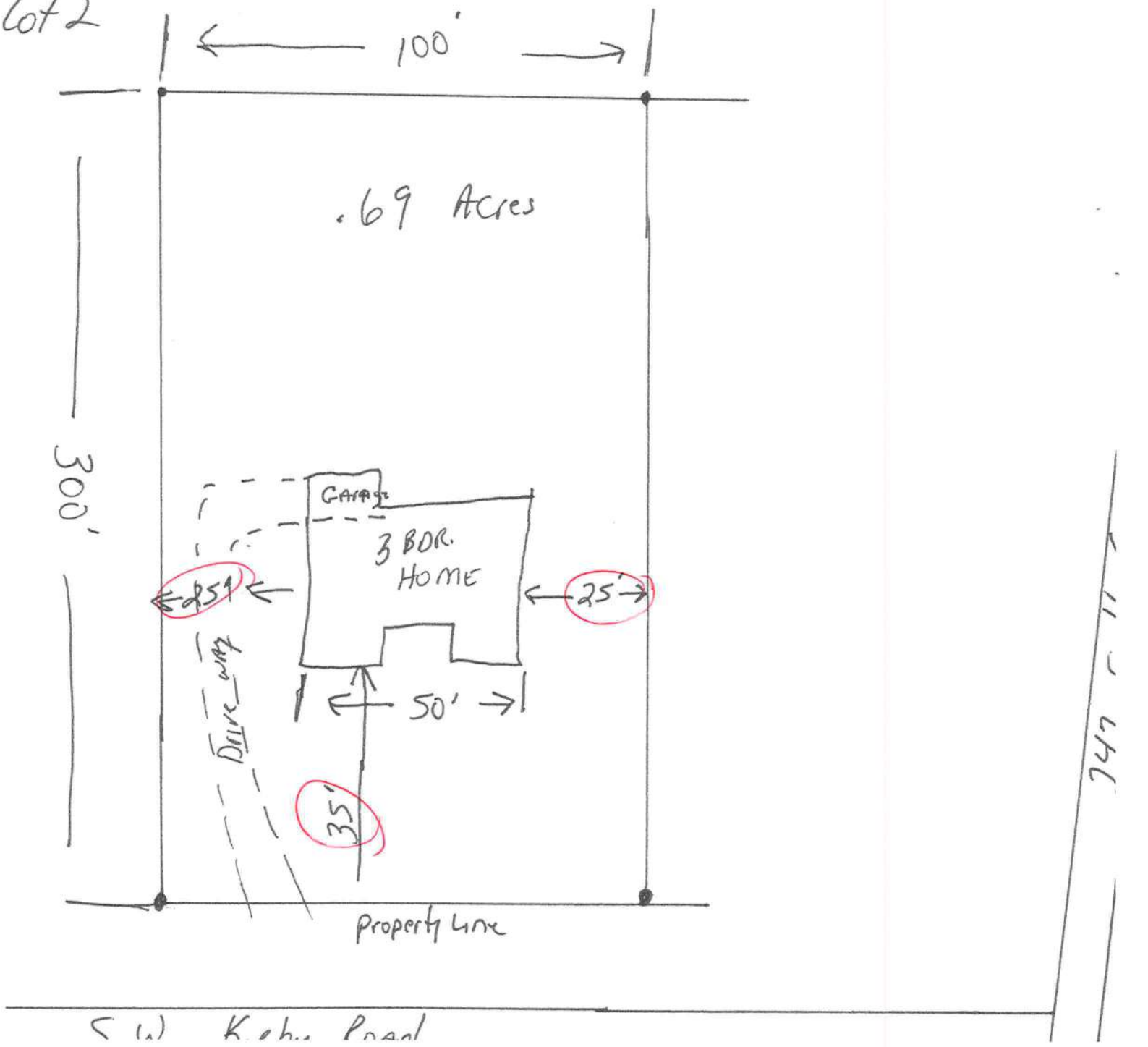


ABBREVIATION LEGEND

P.L.S. = *PROFESSIONAL LAND SURVEYOR*
LB = *LICENSED BUSINESS*
P.O.B. = *POINT OF BEGINNING*
R/W = *RIGHT-OF-WAY*
PRM = *PERMANENT REFERENCE MONUMENT*
4x4 CONCRETE MONUMENT WITH
BRASS CAP STAMPED LB 7042,

John W. Keen

Kirby OAKS Lot 2

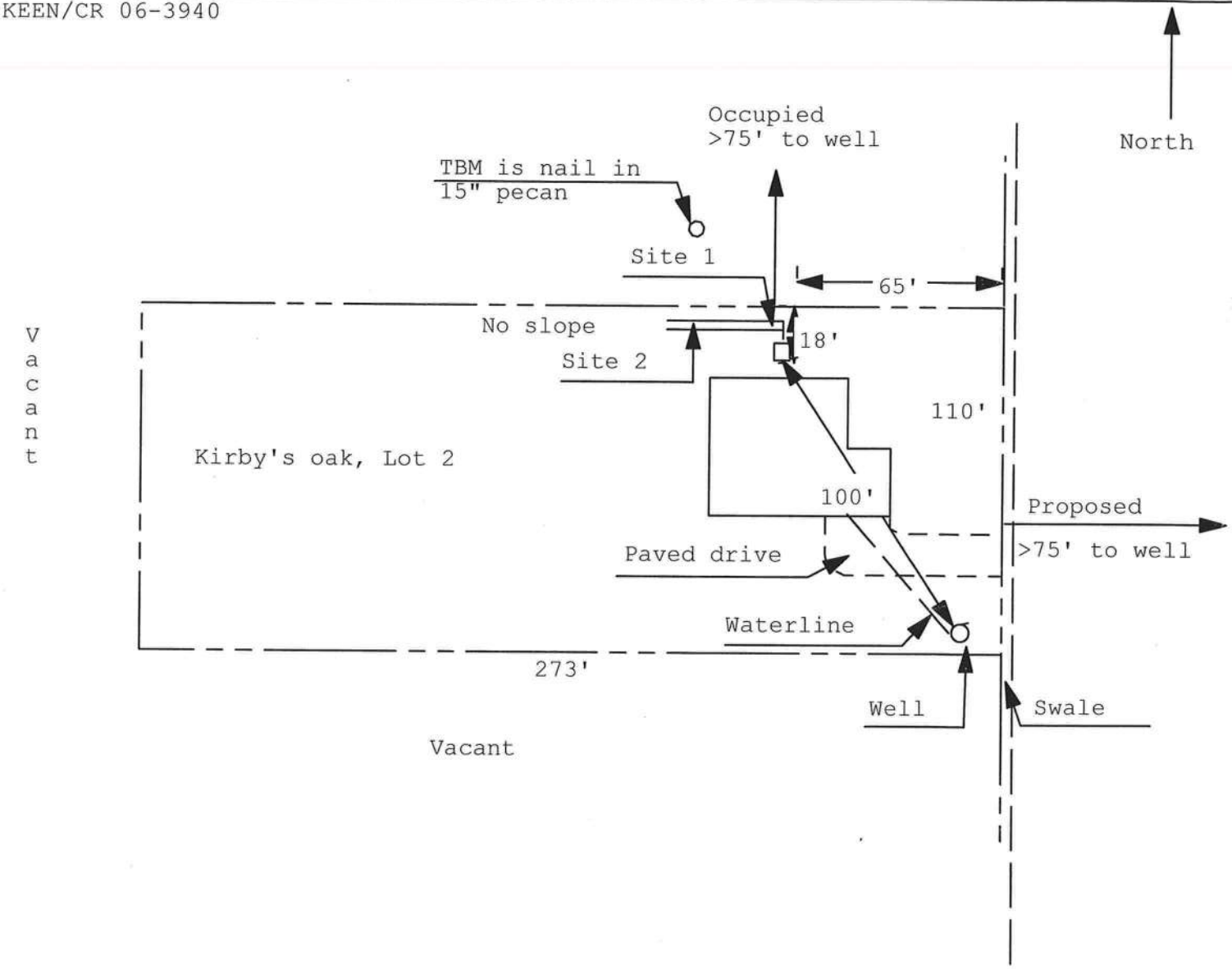


Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 07-316

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

KEEN/CR 06-3940



1 inch = 50 feet

Site Plan Submitted By Paul Lloyd **Date** 4/4/07

Plan Approved ✓ **Not Approved** ____ **Date** 4/24/07

By [illegible] [illegible] **CPHU**

Notes: ____

Permit Number:

Tax Folio Number: **02919-012**

State of: **Florida**
County of: **Columbia**

File Number: **07-172**

Inst:2007008548 Date:04/16/2007 Time:11:42
DC,P.DeWitt Cason,Columbia County B:1116 P:1644

NOTICE OF COMMENCEMENT

The undersigned hereby gives notice that improvement will be made to certain real property, and, in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of Property:
   Lot 2, of Kirby's Oak, according to the Plat thereof, as recorded in Plat Book 7, at Page 129 through 130, of the Public Records of Columbia County, Florida

2. General Description of Improvements: Residential

3. Owner Information:
   a. Name and Address: Erston L. Kirby and Carolyn D. Kirby, 477 SW Carolyn Lane, Lake City, Florida 32024

   b. Interest in property: Fee Simple

   c. Names and address of fee simple title holder (if other than owner):

4. Contractor: K & H Framing & Vinyl Siding, Inc.

5. Surety: N/A

6. Lender: First Federal Savings Bank of Florida, 4705 West U. S. Highway 90, Lake City, Florida 32055

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1) (a)7., Florida Statutes.

8. In addition to himself, Owner designates the following persons to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of Notice of Commencement (the expiration date is 1 year from date of recording unless a different date is specified): April 4, 2008.

John W. Keen

Sworn to and subscribed before me April 4, 2007 by ~~Erston L. Kirby and Carolyn D. Kirby~~ John W. Keen who is personally known to me or who did provide drivers license as identification.

[illegible] as identification.

Elaine R. Davis

Notary Public

My Commission Expires: _____

Notary Public - State of Florida
My Commission Expires Oct 14, 2007
Commission # DD 223411
Bonded By National Notary Assn

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By Sharon Teagle
Deputy Clerk
Date 04-16-2007

CLERK CIRCUIT COURT
COLUMBIA COUNTY, FLORIDA

Gaylord Pump & Irrigation Inc.

P.O. Box 548
Branford, Fl. 32008
386-935-0932 Fax 386-935-0778

04/11/07

We will be drilling a well for John Keen. The property ID number is 11-4S-16-02919-012. The following equipment will be used.

4" Steel Casing
1 Hp Submersible pump
1-1/4" Galvanize drop pipe
81Gallon diaphragm tank with 24.9 gallons of draw down

This equipment meets or exceeds the Florida building code, plumbing section 612 table 612.1

Sincerely,

Donald Gaylord

Donald Gaylord
Licensed Well Driller
Florida License 2630

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 4/4/2007 **DATE ISSUED:** 4/5/2007

ENHANCED 9-1-1 ADDRESS:

594 SW KIRBY AVE

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

11-4S-16-02919-012

Remarks:

LOT 2 KIRBY'S OAK S/D

Address Issued By: _____
Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

700

Approved Address

APR 0 5 2007

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**703052K&HFramingVinylSidingInc**	Builder:	Jason Elkson
Address:	**Lot: 2, Sub: Curby Oaks S/D, Plat:**	Permitting Office:	Columbia
City, State:	**, FL**	Permit Number:	25780
Owner:	**The Keen Model III**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 32.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1672 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT) 7a.	(Dble Default) 145.0 ft²	a. Electric Heat Pump	Cap: 32.0 kBtu/hr
b. SHGC:			HSPF: 7.90
(or Clear or Tint DEFAULT) 7b.	(Clear) 145.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 193.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Exterior	R=13.0, 1039.0 ft²		EF: 0.93
b. Frame, Wood, Adjacent	R=13.0, 300.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	
a. Under Attic	R=30.0, 1776.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 130.0 ft		
b. N/A			

Glass/Floor Area: 0.09 Total as-built points: 21052 Total base points: 25290 **PASS**

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

PREPARED BY: _____

DATE: 4-9-09

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 2, Sub: Curby Oaks S/D, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	1672.0	20.04	6031.2	Double, Clear	N	1.5	5.5	45.0	19.20	0.93	802.0
				Double, Clear	E	1.5	3.5	6.0	42.06	0.78	195.7
				Double, Clear	S	1.5	0.0	60.0	35.87	0.43	929.5
				Double, Clear	S	1.5	0.0	8.0	35.87	0.43	123.9
				Double, Clear	S	1.5	5.5	20.0	35.87	0.83	597.0
				Double, Clear	W	1.5	3.5	6.0	38.52	0.78	180.0
				As-Built Total:				**145.0**			**2828.1**

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	300.0	0.70	210.0	Frame, Wood, Exterior	13.0	1039.0	1.50	1558.5
Exterior	1039.0	1.70	1766.3	Frame, Wood, Adjacent	13.0	300.0	0.60	180.0
Base Total:	**1339.0**		**1976.3**	**As-Built Total:**		**1339.0**		**1738.5**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	40.0	4.10	164.0
Exterior	40.0	4.10	164.0	Adjacent Insulated	20.0	1.60	32.0
Base Total:	**60.0**		**196.0**	**As-Built Total:**	**60.0**		**196.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	1672.0	1.73	2892.6	Under Attic	30.0	1776.0	1.73 X 1.00	3072.5
Base Total:	**1672.0**		**2892.6**	**As-Built Total:**		**1776.0**		**3072.5**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	193.0(p)	-37.0	-7141.0	Slab-On-Grade Edge Insulation	0.0	193.0(p	-41.20	-7951.6
Raised	0.0	0.00	0.0					
Base Total:			**-7141.0**	**As-Built Total:**		**193.0**		**-7951.6**

INFILTRATION	Area X	BSPM	= Points	Area X	SPM	= Points
	1672.0	10.21	17071.1	1672.0	10.21	17071.1

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 2, Sub: Curby Oaks S/D, Plat: , , FL,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 21026.2			**Summer As-Built Points:**					**16954.6**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 32000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
			16955	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000	5064.2
21026.2	**0.4266**	**8969.8**	**16954.6**	**1.00**	**1.138**	**0.263**	**1.000**	**5064.2**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 2, Sub: Curby Oaks S/D, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	1672.0	12.74	3834.2	Double, Clear	N	1.5	5.5	45.0	24.58	1.00	1109.3
				Double, Clear	E	1.5	3.5	6.0	18.79	1.09	123.3
				Double, Clear	S	1.5	0.0	60.0	13.30	3.66	2920.1
				Double, Clear	S	1.5	0.0	8.0	13.30	3.66	389.4
				Double, Clear	S	1.5	5.5	20.0	13.30	1.15	305.1
				Double, Clear	W	1.5	3.5	6.0	20.73	1.07	132.6
				As-Built Total:				**145.0**			**4979.8**
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Adjacent	300.0	3.60	1080.0	Frame, Wood, Exterior			13.0	1039.0	3.40		3532.6
Exterior	1039.0	3.70	3844.3	Frame, Wood, Adjacent			13.0	300.0	3.30		990.0
Base Total:	**1339.0**		**4924.3**	**As-Built Total:**				**1339.0**			**4522.6**
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points
Adjacent	20.0	8.00	160.0	Exterior Insulated				40.0	8.40		336.0
Exterior	40.0	8.40	336.0	Adjacent Insulated				20.0	8.00		160.0
Base Total:	**60.0**		**496.0**	**As-Built Total:**				**60.0**			**496.0**
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =		Points
Under Attic	1672.0	2.05	3427.6	Under Attic			30.0	1776.0	2.05 X 1.00		3640.8
Base Total:	**1672.0**		**3427.6**	**As-Built Total:**				**1776.0**			**3640.8**
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Slab	193.0(p)	8.9	1717.7	Slab-On-Grade Edge Insulation			0.0	193.0(p	18.80		3628.4
Raised	0.0	0.00	0.0								
Base Total:			**1717.7**	**As-Built Total:**				**193.0**			**3628.4**
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points
	1672.0	-0.59	-986.5					1672.0	-0.59		-986.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 2, Sub: Curby Oaks S/D, Plat: , , FL,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**13413.4**	**Winter As-Built Points:**					**16281.1**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 32000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			16281.1	1.000	(1.069 x 1.169 x 0.93)	0.432	1.000	8167.4
13413.4	**0.6274**	**8415.5**	**16281.1**	**1.00**	**1.162**	**0.432**	**1.000**	**8167.4**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 2, Sub: Curby Oaks S/D, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	40.0	0.93	3	1.00	2606.67	1.00	7820.0	
				As-Built Total:						**7820.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
8970	**8416**	**7905**	**25290**	**5064**	**8167**	**7820**	**21052**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 2, Sub: Curby Oaks S/D, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.6

The higher the score, the more efficient the home.

The Keen Model III, Lot: 2, Sub: Curby Oaks S/D, Plat: , , FL,

1.	New construction or existing	New			
2.	Single family or multi-family	Single family			
3.	Number of units, if multi-family	1			
4.	Number of Bedrooms	3			
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1672 ft²			
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor: (or Single or Double DEFAULT)	7a. Description (Dble Default)	Area 145.0 ft²		
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear)	145.0 ft²		
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 193.0(p) ft			
	b. N/A				
	c. N/A				
9.	Wall types				
	a. Frame, Wood, Exterior	R=13.0, 1039.0 ft²			
	b. Frame, Wood, Adjacent	R=13.0, 300.0 ft²			
	c. N/A				
	d. N/A				
	e. N/A				
10.	Ceiling types				
	a. Under Attic	R=30.0, 1776.0 ft²			
	b. N/A				
	c. N/A				
11.	Ducts				
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 130.0 ft			
	b. N/A				
12.	Cooling systems				
	a. Central Unit			Cap: 32.0 kBtu/hr	
				SEER: 13.00	
	b. N/A				
	c. N/A				
13.	Heating systems				
	a. Electric Heat Pump			Cap: 32.0 kBtu/hr	
				HSPF: 7.90	
	b. N/A				
	c. N/A				
14.	Hot water systems				
	a. Electric Resistance			Cap: 40.0 gallons	
				EF: 0.93	
	b. N/A				
	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)				
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)				

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: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

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

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

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 11-4S-16-02919-012 **Building permit No.** 000025780

Use Classification SFD,UTILITY **Fire:** 11.16

Permit Holder JASON ELIXSON CONSTRUCTION **Waste:** 33.50

Owner of Building JOHN KEEN/GLENN KEEN **Total:** 44.66

Location: 594 SW KIRBY AVE, LAKE CITY, FL

Date: 08/21/2007

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001378

DATE 05/07/2007 PARCEL ID # 11-4S-16-02919-012

APPLICANT GLENN KEEN PHONE 867-0156

ADDRESS 1534 SW DEKLE RD LAKE CITY FL 32024

OWNER JOHN KEEN/GLENN KEEN PHONE 867-0155

ADDRESS 594 SW KIRBY AVE LAKE CITY FL 32024

CONTRACTOR JASON ELIXSON CONSTRUCTION PHONE 623-1741

LOCATION OF PROPERTY 90W, TL ON 247S, TL ON KIRBY RD, GO TO KIRBY OAKS S/D,

2ND LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT KIRBY OAKS 2

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

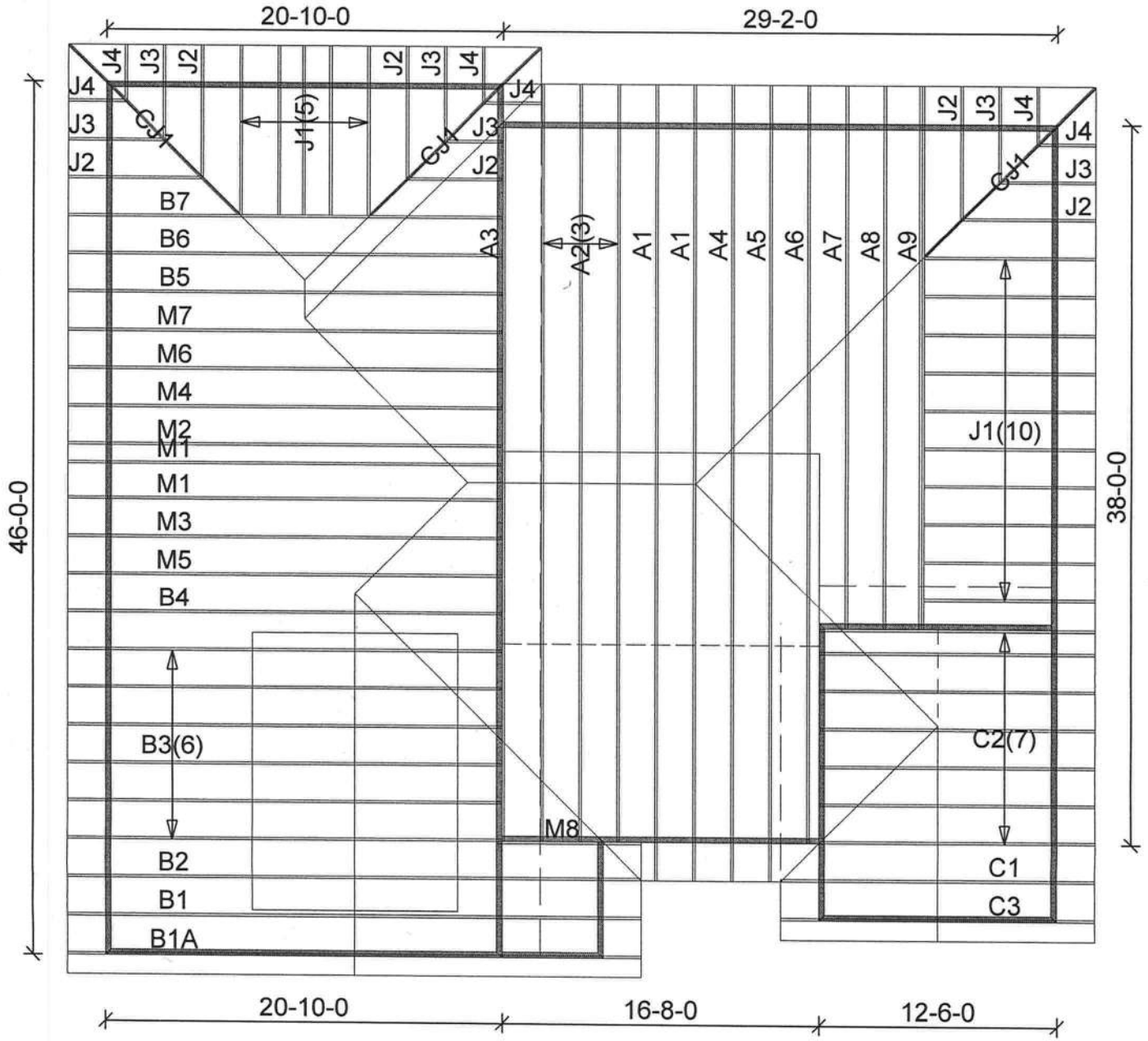
[ ] Other _____

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA



Mayo Truss Co. Inc. 845 East US 27 MAYO, FL 32066 (386)294-3988 (877)-558-6262	K AND H FRAMING KEEN MODEL 3 LOT 2 CURBY OAKS S/D COLUMBIA COUNTY,FLA 120 MPH ASCE WIND LOAD	Roof Loading TC Live: 20.00 psf TC Dead: 10.00 psf BC Live: 0.00 psf BC Dead: 10.00 psf TC Stress Inc: 25.00 BC Stress Inc: 25.00 Spacing: 2- 0- 0 o.c.	Account: CONTRACTORS Job: KH-KEEN3 Designer: C. LITTLE Checker: M.MURRAY Date: 04-10-07

Permit Number: _____ Lot Number: _____

Miscellaneous: _____ Address: _____

The information in this box is for administrative purposes only and is not part of the engineering review.

Truss Fabricator: Mayo Truss Company, Inc

Job Reference: KH-KEEN3 - KEEN MODEL 3

Standard Loading:

T.C Live	20 psf
T.C Dead	10 psf
B.C Live	0 psf
B.C Dead	10 psf
Total	40 psf

ROBBINS ENGINEERING, INC.

6904 Parke East Blvd.
Tampa, FL 33610-4115
Phone: (813) 972-1135

Engineering Index Sheet

Index Page 1 of 1

ANSI/ASCE 7-02
Wind Speed - 120 MPH
Mean Roof Ht. - 15 FT
Exposure Catergory - B
Occupancy Factor - 1.00
C and C
Enclosed

Job Number	Date	FBC - 2004 Chapter 16 and 23	Specification Quantity
T07040595	04/09/2007		33

A Professional Engineer's seal affixed to this Index Sheet indicates the acceptance of Professional Engineering responsibilities for individual truss components fabricated in accordance with the listed and attached Truss Specification Sheets. Determination as to the suitability of these individual truss components for any structure is the responsibilty of the Building Designer, as defined in ANSI/TPI 1-2002, Section 2.2. Permanent files of the original Truss Specificstion Sheet are maintained by Robbins Engineering, Inc. Questions regarding this Index Sheet and/or the attached Specification Sheets may be directed to the truss fabricator listed above or Robbins Engineering, Inc. (Sofware - Online Plus)

Notes: Refer to individual truss design drawings for special loading conditions.

	Date	Mark
1	04/09/07	A1
5	04/09/07	A5
9	04/09/07	A9
13	04/09/07	B3
17	04/09/07	B7
21	04/09/07	CJ1
25	04/09/07	J4
29	04/09/07	M4
33	04/09/07	M8

	Date	Mark
2	04/09/07	A2
6	04/09/07	A6
10	04/09/07	B1
14	04/09/07	B4
18	04/09/07	C1
22	04/09/07	J1
26	04/09/07	M1
30	04/09/07	M5

	Date	Mark
3	04/09/07	A3
7	04/09/07	A7
11	04/09/07	B1A
15	04/09/07	B5
19	04/09/07	C2
23	04/09/07	J2
27	04/09/07	M2
31	04/09/07	M6

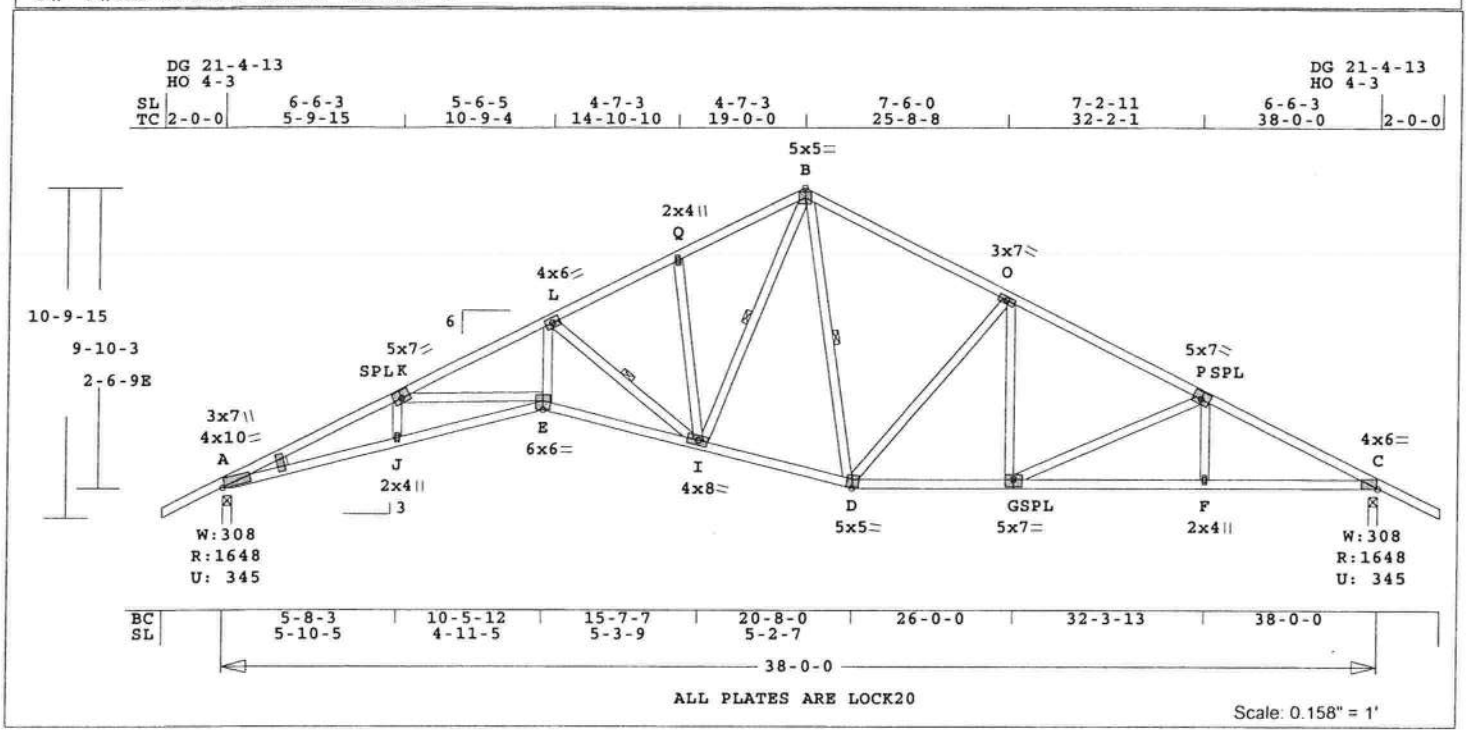
	Date	Mark
4	04/09/07	A4
8	04/09/07	A8
12	04/09/07	B2
16	04/09/07	B6
20	04/09/07	C3
24	04/09/07	J3
28	04/09/07	M3
32	04/09/07	M7

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 4/9/2007

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	A1	2	SP	38000	6	2- 0- 0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 281.5 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.64	2x 4	SP-#2
BC	0.99	2x 4	SP-#2
WB	0.57	2x 4	SP-#2
WG	---	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	38- 0- 0
BC	Cont.	0- 0- 0	38- 0- 0

WB 1 rows CLB on L -I
WB 1 rows CLB on I -B
WB 1 rows CLB on B -D
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1648	345 U	243 R
C	1648	345 U	243 R

Jt	Brg Size	Required
A	3.5"	1.9"
C	3.5"	1.9"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -K	0.49	5162	C	0.38	0.11
K -L	0.59	4610	C	0.24	0.35
L -Q	0.35	2359	C	0.19	0.16
Q -B	0.53	2304	C	0.20	0.33
B -O	0.62	1806	C	0.16	0.46
O -P	0.64	2305	C	0.18	0.46
P -C	0.48	2824	C	0.21	0.27
Bottom Chords					
A -J	0.93	4739	T	0.79	0.14
J -E	0.99	4751	T	0.79	0.20
E -I	0.79	4191	T	0.70	0.09
I -D	0.36	1610	T	0.27	0.09
D -G	0.51	2072	T	0.34	0.17
G -F	0.55	2525	T	0.42	0.13
F -C	0.51	2525	T	0.42	0.09
Webs					
J -K	0.02	144	T		
K -E	0.14	475	C		
E -L	0.42	2291	T		
L -I	0.39	2526	C	1 Br	
Q -I	0.08	266	T		
I -B	0.25	1356	T	1 Br	
B -D	0.06	281	T	1 Br	
D -O	0.57	713	C		
G -O	0.06	393	T		
G -P	0.30	496	C		
F -P	0.03	230	T		

TL Defl -0.71" in J -E L/633
LL Defl -0.35" in J -E L/999

Hz Disp	LL	DL	TL
Jt C	0.20"	0.20"	0.39"

Shear // Grain in B -O 0.28

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x10.0	0.4	0.4	0.97
A	LOCK	3.0x 7.0	Ctr	Ctr	0.00
K	LOCK	5.0x 7.0	-0.2	0.5	0.76
L	LOCK	4.0x 6.0	Ctr	Ctr	0.94
Q	LOCK	2.0x 4.0	Ctr	Ctr	0.46
B	LOCK	5.0x 5.0	Ctr	Ctr	0.76
O	LOCK	3.0x 7.0	Ctr	Ctr	0.46
P	LOCK	5.0x 7.0	0.2	0.5	0.76
C	LOCK	4.0x 6.0	Ctr	0.1	0.72
J	LOCK	2.0x 4.0	Ctr	Ctr	0.46
E	LOCK	6.0x 6.0	Ctr	-0.6	0.82
I	LOCK	4.0x 8.0	-0.5	0.1	0.91
D	LOCK	5.0x 5.0	0.3	2.8	0.90
G	LOCK	5.0x 7.0	Ctr	-0.5	0.77
F	LOCK	2.0x 4.0	Ctr	Ctr	0.46

REVIEWED BY:

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

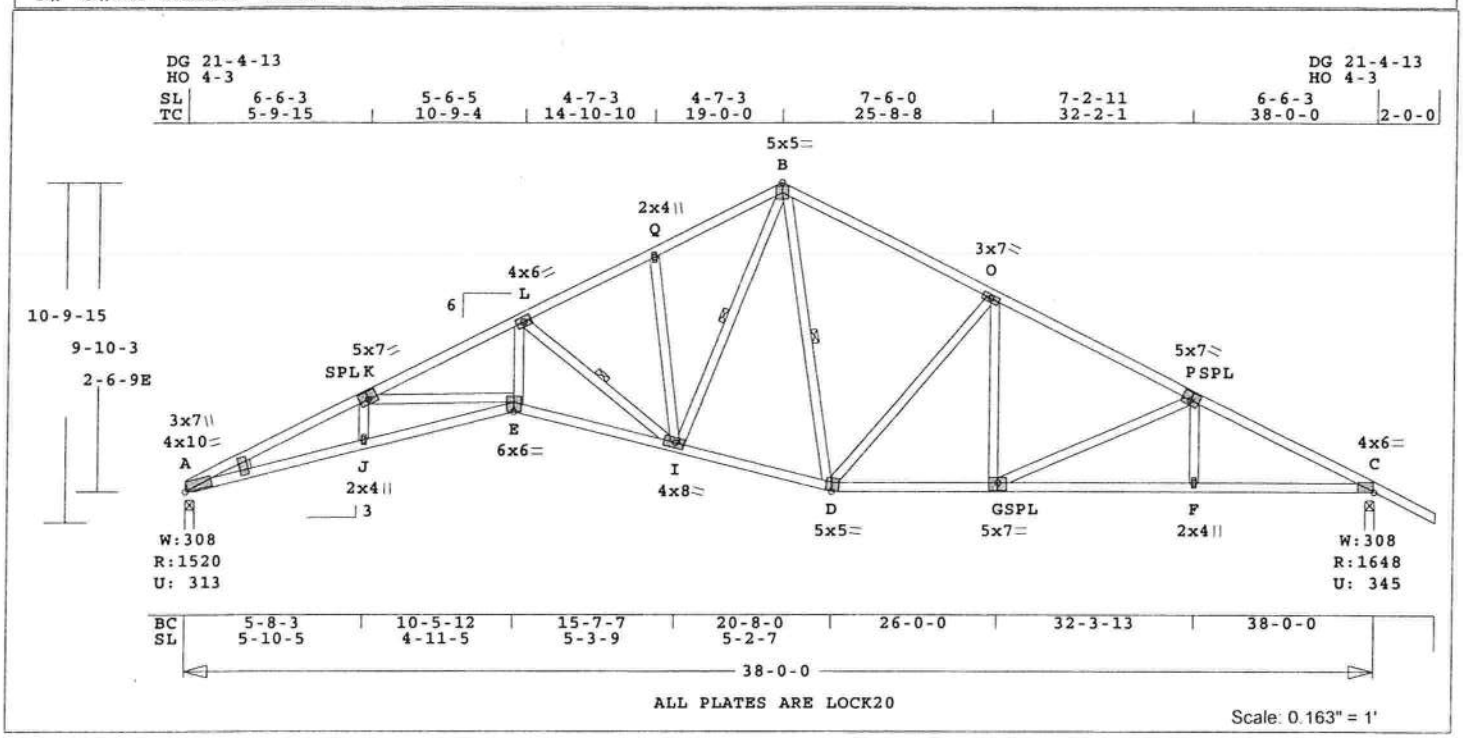
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 5162 Lbs
Max tens. force 4751 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	A2	3	SP	38000	6	0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 277.3 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.64	2x 4	SP-#2
BC	0.99	2x 4	SP-#2
WB	0.57	2x 4	SP-#2
WG	---	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	38- 0- 0
BC	Cont.	0- 0- 0	38- 0- 0

WB 1 rows CLB on L -I
WB 1 rows CLB on I -B
WB 1 rows CLB on B -D
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1520	313 U	243 R
C	1648	345 U	243 R

Jt	Brg Size	Required
A	3.5"	1.8"
C	3.5"	1.9"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -K	0.49	5162 C	0.38	0.11
K -L	0.59	4610 C	0.24	0.35
L -Q	0.35	2359 C	0.19	0.16
Q -B	0.53	2304 C	0.20	0.33
B -O	0.62	1806 C	0.16	0.46
O -P	0.64	2305 C	0.18	0.46
P -C	0.48	2824 C	0.21	0.27
Bottom Chords				
A -J	0.93	4739 T	0.79	0.14
J -E	0.99	4751 T	0.79	0.20
E -I	0.79	4191 T	0.70	0.09
I -D	0.36	1610 T	0.27	0.09
D -G	0.51	2072 T	0.34	0.17
G -F	0.55	2525 T	0.42	0.13
F -C	0.51	2525 T	0.42	0.09
Webs				
J -K	0.02	144 T		
K -E	0.14	475 C		
E -L	0.42	2291 T		
L -I	0.39	2526 C		1 Br
Q -I	0.08	266 T		
I -B	0.25	1356 T		1 Br
B -D	0.06	281 T		1 Br
D -O	0.57	713 C		
G -O	0.06	393 T		
G -P	0.30	496 C		
F -P	0.03	230 T		

TL Defl	-0.71" in J -E	L/633
LL Defl	-0.35" in J -E	L/999

Hz Disp	LL	DL	TL
Jt C	0.20"	0.20"	0.39"

Shear // Grain in B -O 0.28

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x10.0	0.4	0.4	0.97
A	LOCK	3.0x 7.0	Ctr	Ctr	0.00
K	LOCK	5.0x 7.0	-0.2	0.5	0.76
L	LOCK	4.0x 6.0	Ctr	Ctr	0.94
Q	LOCK	2.0x 4.0	Ctr	Ctr	0.46
B	LOCK	5.0x 5.0	Ctr	Ctr	0.76
O	LOCK	3.0x 7.0	Ctr	Ctr	0.46
P	LOCK	5.0x 7.0	0.2	0.5	0.76
C	LOCK	4.0x 6.0	Ctr	0.1	0.72
J	LOCK	2.0x 4.0	Ctr	Ctr	0.46
E	LOCK	6.0x 6.0	Ctr	-0.6	0.82
I	LOCK	4.0x 8.0	-0.5	0.1	0.91
D	LOCK	5.0x 5.0	0.3	2.8	0.90
G	LOCK	5.0x 7.0	Ctr	-0.5	0.77
F	LOCK	2.0x 4.0	Ctr	Ctr	0.46

REVIEWED BY:

Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

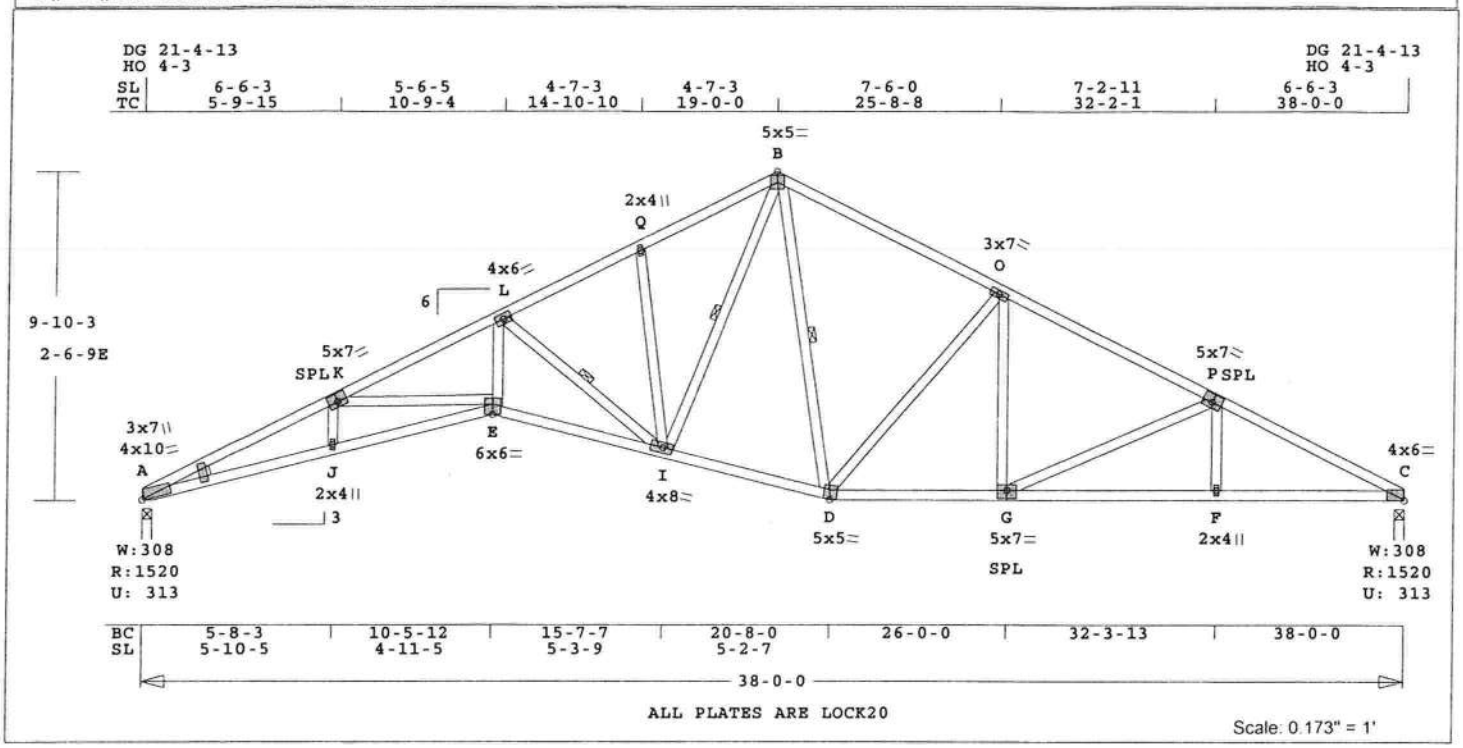
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 5162 Lbs
Max tens. force 4751 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	A3	1	SP	38000	6	0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 273.0 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.64	2x 4	SP-#2
BC	0.99	2x 4	SP-#2
WB	0.57	2x 4	SP-#2
WG	---	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	38- 0- 0
BC	Cont.	0- 0- 0	38- 0- 0

WB 1 rows CLB on L -I
WB 1 rows CLB on I -B
WB 1 rows CLB on B -D
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1520	313 U	243 R
C	1520	313 U	243 R

Jt	Brg Size	Required
A	3.5"	1.8"
C	3.5"	1.8"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -K	0.49	5162	C	0.38 0.11
K -L	0.59	4610	C	0.24 0.35
L -Q	0.35	2359	C	0.19 0.16
Q -B	0.53	2304	C	0.20 0.33
B -O	0.62	1806	C	0.16 0.46
O -P	0.64	2305	C	0.18 0.46
P -C	0.48	2824	C	0.21 0.27
Bottom Chords				
A -J	0.93	4739	T	0.79 0.14
J -E	0.99	4751	T	0.79 0.20
E -I	0.79	4191	T	0.70 0.09
I -D	0.36	1610	T	0.27 0.09
D -G	0.51	2072	T	0.34 0.17
G -F	0.55	2525	T	0.42 0.13
F -C	0.51	2525	T	0.42 0.09
Webs				
J -K	0.02	144	T	
K -E	0.14	475	C	
E -L	0.42	2291	T	
L -I	0.39	2526	C	1 Br
Q -I	0.08	266	T	
I -B	0.25	1356	T	1 Br
B -D	0.06	281	T	1 Br
D -O	0.57	713	C	
G -O	0.06	393	T	
G -P	0.30	496	C	
F -P	0.03	230	T	

TL Defl -0.71" in J -E L/633
LL Defl -0.35" in J -E L/999
Hz Disp LL DL TL
Jt C 0.20" 0.20" 0.39"
Shear // Grain in B -O 0.28

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x10.0	0.4	0.4	0.97
A	LOCK	3.0x 7.0	Ctr	Ctr	0.00
K	LOCK	5.0x 7.0	-0.2	0.5	0.76
L	LOCK	4.0x 6.0	Ctr	Ctr	0.94
Q	LOCK	2.0x 4.0	Ctr	Ctr	0.46
B	LOCK	5.0x 5.0	Ctr	Ctr	0.76
O	LOCK	3.0x 7.0	Ctr	Ctr	0.46
P	LOCK	5.0x 7.0	0.2	0.5	0.76
C	LOCK	4.0x 6.0	Ctr	0.1	0.72
J	LOCK	2.0x 4.0	Ctr	Ctr	0.46
E	LOCK	6.0x 6.0	Ctr	-0.6	0.82
I	LOCK	4.0x 8.0	-0.5	0.1	0.91
D	LOCK	5.0x 5.0	0.3	2.8	0.90
G	LOCK	5.0x 7.0	Ctr	-0.5	0.77
F	LOCK	2.0x 4.0	Ctr	Ctr	0.46

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

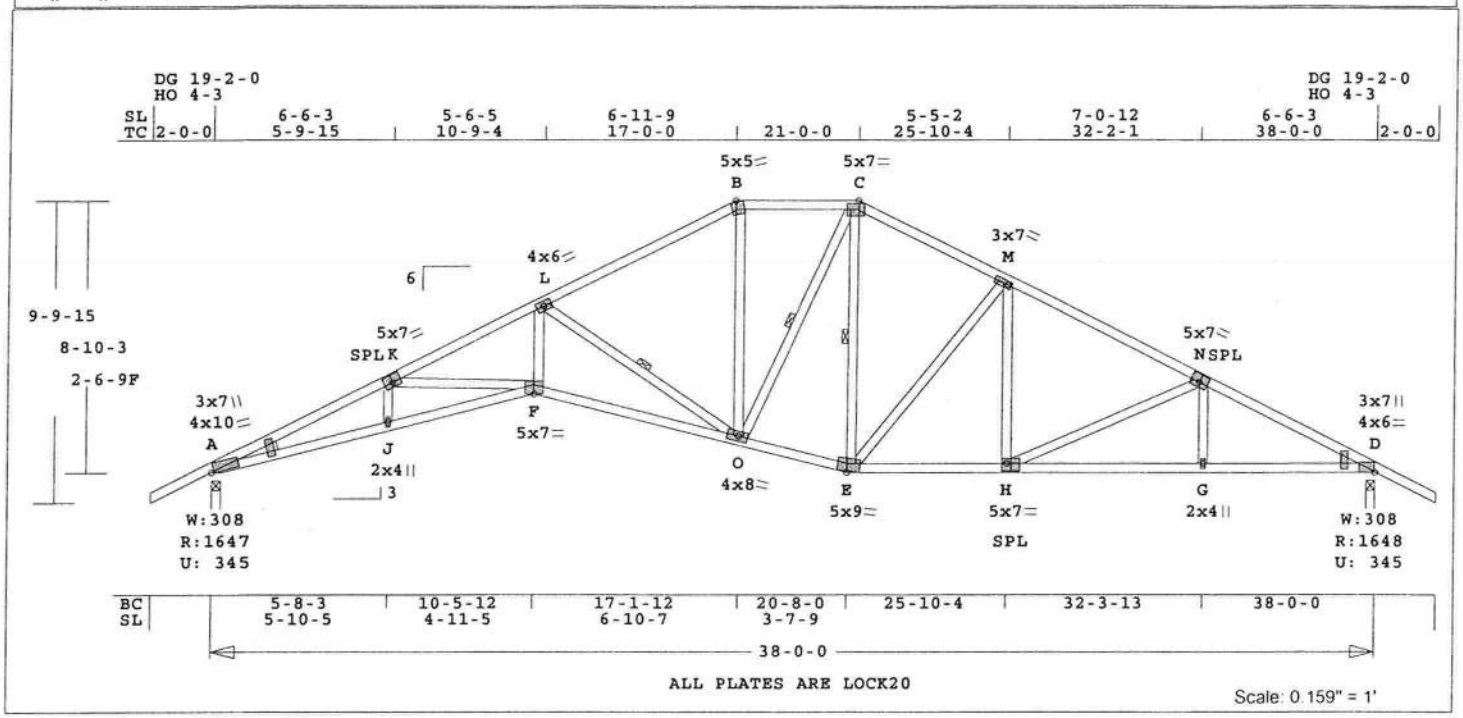
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 5162 Lbs
Max tens. force 4751 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	A4	1	SP	380000	6	2- 0- 0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 283.7 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.67	2x 4	SP-#2
BC	0.98	2x 4	SP-#2
WB	0.57	2x 4	SP-#2
WG	---	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	38- 0- 0
BC	Cont.	0- 0- 0	38- 0- 0

WB 1 rows CLB on L -O
WB 1 rows CLB on O -C
WB 1 rows CLB on E -C
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1648	345 U	217 R
D	1648	345 U	217 R

Jt	Brg Size	Required
A	3.5"	1.9"
D	3.5"	1.9"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -K	0.49	5132 C	0.37		0.12
K -L	0.67	4675 C	0.33		0.34
L -B	0.51	2075 C	0.17		0.34
B -C	0.33	1854 C	0.17		0.16
C -M	0.49	1849 C	0.16		0.33
M -N	0.51	2298 C	0.18		0.33
N -D	0.50	2824 C	0.21		0.29
Bottom Chords					
A -J	0.97	4709 T	0.79		0.18
J -F	0.98	4726 T	0.79		0.19
F -O	0.84	4195 T	0.70		0.14
O -E	0.42	1696 T	0.28		0.14
E -H	0.45	2056 T	0.34		0.11
H -G	0.53	2533 T	0.42		0.11
G -D	0.46	2533 T	0.42		0.04
Webs					
J -K	0.01	116 T			
K -F	0.11	413 T			
F -L	0.42	2316 T			
L -O	0.57	2691 C			1 Br
O -B	0.24	601 T			
O -C	0.08	485 T			1 Br
E -C	0.04	191 T			1 Br
E -M	0.49	642 C			
H -M	0.06	413 T			
H -N	0.32	521 C			
G -N	0.03	225 T			

TL Defl -0.71" in F -O L/632
LL Defl -0.35" in F -O L/999

Hz Disp	LL	DL	TL
Jt D	0.20"	0.20"	0.40"

Shear // Grain in L -B 0.25

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x10.0	0.4	0.4	0.96
A	LOCK	3.0x 7.0	Ctr	Ctr	0.00
K	LOCK	5.0x 7.0	-0.2	0.5	0.76
L	LOCK	4.0x 6.0	Ctr	Ctr	0.95
B	LOCK	5.0x 5.0	0.7	-3.0	0.66
C	LOCK	5.0x 7.0	0.5	-0.1	0.97
M	LOCK	3.0x 7.0	Ctr	Ctr	0.46
N	LOCK	5.0x 7.0	0.2	0.5	0.76
D	LOCK	4.0x 6.0	Ctr	0.1	0.72
D	LOCK	3.0x 7.0	Ctr	Ctr	0.00
J	LOCK	2.0x 4.0	Ctr	Ctr	0.46
F	LOCK	5.0x 7.0	Ctr	-1.1	0.85
O	LOCK	4.0x 8.0	-0.5	0.1	0.90
E	LOCK	5.0x 9.0	0.9	3.0	0.68
H	LOCK	5.0x 7.0	Ctr	-0.5	0.77
G	LOCK	2.0x 4.0	Ctr	Ctr	0.46

REVIEWED BY:
Robbins Engineering, Inc.

6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

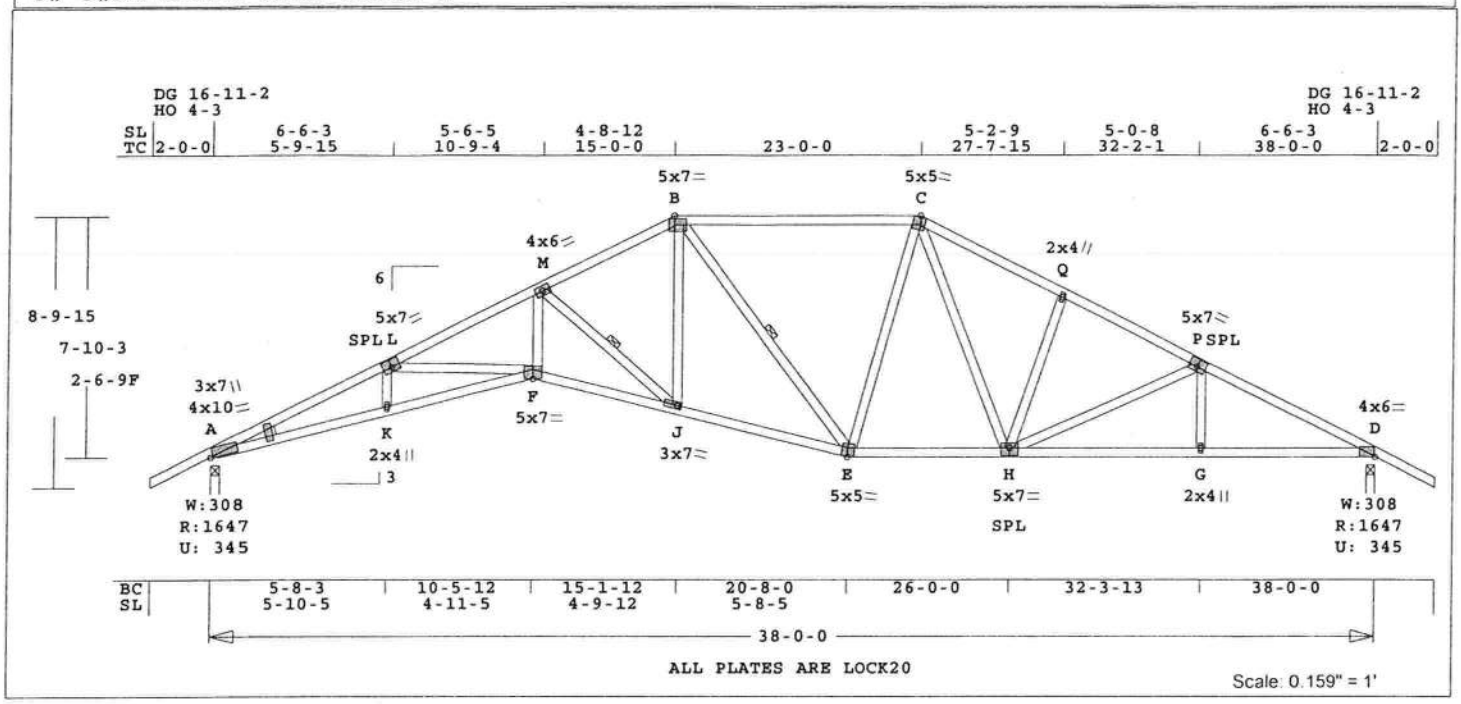
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 5132 Lbs
Max tens. force 4726 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 4/9/2007

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	A5	1	SP	38000,0	6	2- 0- 0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 274.7 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.81	2x 4	SP-#2
BC	0.99	2x 4	SP-#2
WB	0.42	2x 4	SP-#2
WG	---	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	38- 0- 0
BC	Cont.	0- 0- 0	38- 0- 0

WB 1 rows CLB on M -J
WB 1 rows CLB on B -E
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1648	345 U	192 R
D	1648	345 U	192 R

Jt	Brg Size	Required
A	3.5"	1.9"
D	3.5"	1.9"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -L	0.49	5151 C	0.36	0.13
L -M	0.65	4631 C	0.24	0.41
M -B	0.54	2482 C	0.04	0.50
B -C	0.81	1836 C	0.06	0.75
C -Q	0.44	2251 C	0.19	0.25
Q -P	0.39	2348 C	0.17	0.22
P -D	0.42	2814 C	0.20	0.22
Bottom Chords				
A -K	0.98	4731 T	0.79	0.19
K -F	0.99	4749 T	0.79	0.20
F -J	0.78	4144 T	0.69	0.09
J -E	0.53	2291 T	0.38	0.15
E -H	0.42	1818 T	0.30	0.12
H -G	0.54	2513 T	0.42	0.12
G -D	0.50	2513 T	0.42	0.08
Webs				
K -L	0.01	124 T		
L -F	0.14	471 T		
F -M	0.42	2294 T		
M -J	0.33	2365 C		1 Br
J -B	0.26	1211 T		
B -E	0.18	642 C		1 Br
E -C	0.04	150 T		
C -H	0.30	562 T		
H -Q	0.08	300 T		
H -P	0.26	455 C		
G -P	0.03	226 T		

TL Defl -0.70" in F -J L/637
LL Defl -0.35" in F -J L/999

Hz Disp	LL	DL	TL
Jt D	0.20"	0.20"	0.39"

Shear // Grain in B -C 0.31

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x10.0	0.4	0.4	0.97
A	LOCK	3.0x 7.0 Ctr	Ctr		0.00
L	LOCK	5.0x 7.0-0.2	0.5		0.76
M	LOCK	4.0x 6.0 Ctr	Ctr		0.94
B	LOCK	5.0x 7.0-0.5-0.1			0.97
C	LOCK	5.0x 5.0-0.7-3.0			0.77
Q	LOCK	2.0x 4.0 Ctr	Ctr		0.46
P	LOCK	5.0x 7.0	0.2	0.5	0.76
D	LOCK	4.0x 6.0 Ctr	0.1		0.72
K	LOCK	2.0x 4.0 Ctr	Ctr		0.46
F	LOCK	5.0x 7.0 Ctr	-1.1		0.84
J	LOCK	3.0x 7.0 Ctr	Ctr		0.77
E	LOCK	5.0x 5.0	0.3	2.8	0.66
H	LOCK	5.0x 7.0 Ctr	-0.5		0.77
G	LOCK	2.0x 4.0 Ctr	Ctr		0.46

REVIEWED BY:
Robbins Engineering, Inc.

6904 Parke East Blvd.
Tampa, FL 33610

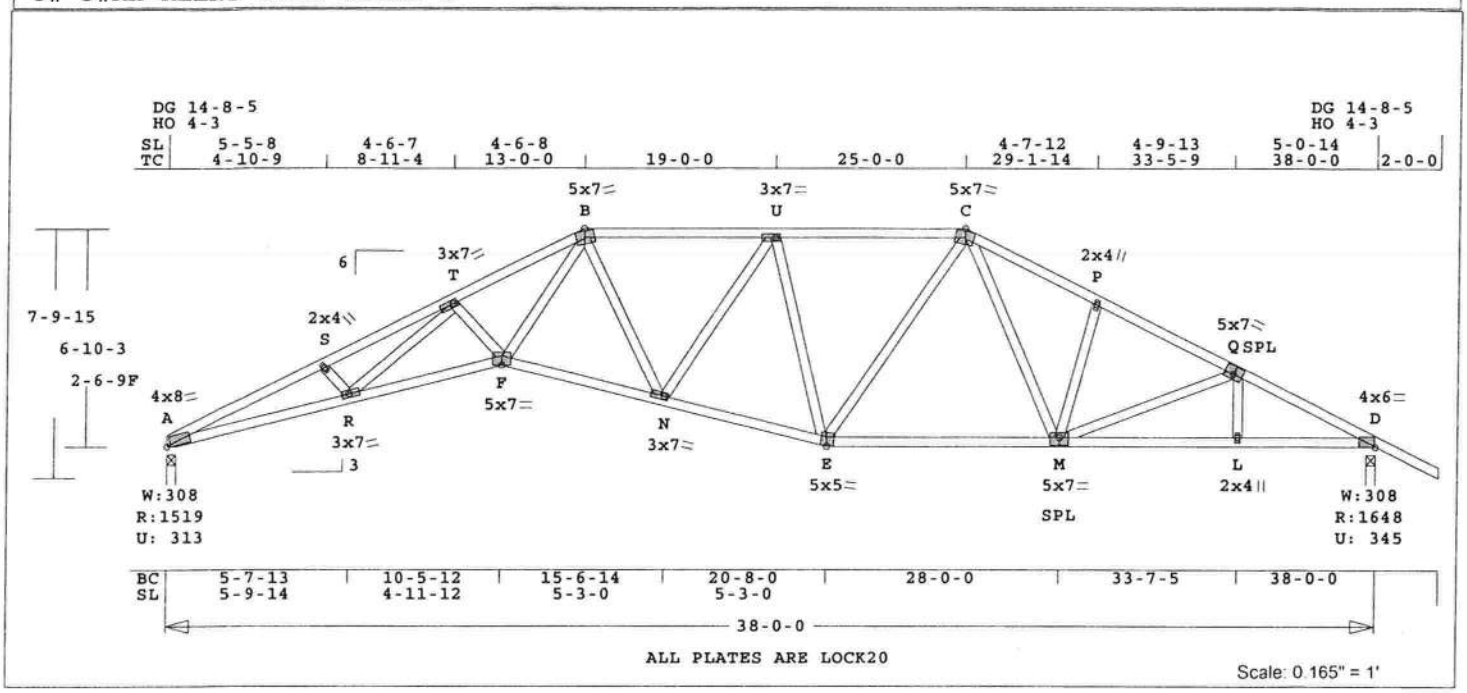
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 5151 Lbs
Max tens. force 4749 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	A6	1	SP	380000	6	0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 262.7 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	Size	Lumber
TC	0.62	2x 4	SP-#2
BC	0.84	2x 4	SP-#1
F -E		2x 4	SP-#2
E -M		2x 4	SP-#2
M -D		2x 4	SP-#2
WB	0.46	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	38- 0- 0
BC	Cont.	0- 0- 0	38- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1520	313 U	167 R
D	1648	345 U	166 R

Jt	Brg Size	Required
A	3.5"	1.8"
D	3.5"	1.9"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -S	0.53	5132 C	0.18		0.35
S -T	0.62	4997 C	0.24		0.38
T -B	0.58	4623 C	0.14		0.44
B -U	0.48	2584 C	0.07		0.41
U -C	0.45	2162 C	0.03		0.42
C -P	0.38	2449 C	0.19		0.19
P -Q	0.38	2516 C	0.19		0.19
Q -D	0.33	2856 C	0.20		0.13
Bottom Chords					
A -R	0.84	4682 T	0.61		0.23
R -F	0.79	4470 T	0.58		0.21
F -N	0.58	2826 T	0.47		0.11
N -E	0.52	2433 T	0.40		0.12
E -M	0.50	1950 T	0.32		0.18
M -L	0.60	2546 T	0.42		0.18
L -D	0.55	2546 T	0.42		0.13
Webs					
S -R	0.03	239 T			
R -T	0.06	249 T			
T -F	0.04	331 T			
F -B	0.46	2519 T			
B -N	0.15	360 C			
N -U	0.07	407 T			
U -E	0.45	787 C			
E -C	0.12	360 T			
C -M	0.22	573 T			
M -P	0.07	327 T			
M -Q	0.13	309 C			
L -Q	0.02	147 T			

TL Defl -0.72" in F -N L/620
LL Defl -0.36" in F -N L/999

Hz Disp	LL	DL	TL
Jt D	0.19"	0.19"	0.38"

Shear // Grain in B -U 0.29

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 8.0	Ctr	0.2	0.92
S	LOCK	2.0x 4.0	Ctr	Ctr	0.46
T	LOCK	3.0x 7.0	Ctr	Ctr	0.83
B	LOCK	5.0x 7.0	0.3	-3.5	0.96
U	LOCK	3.0x 7.0	Ctr	Ctr	0.45
C	LOCK	5.0x 7.0	-0.3	-3.5	0.85
P	LOCK	2.0x 4.0	Ctr	Ctr	0.46
Q	LOCK	5.0x 7.0	0.2	0.5	0.76
D	LOCK	4.0x 6.0	Ctr	0.1	0.72
R	LOCK	3.0x 7.0	0.6	0.2	0.46
F	LOCK	5.0x 7.0	Ctr	-1.1	0.87
N	LOCK	3.0x 7.0	Ctr	Ctr	0.41
E	LOCK	5.0x 5.0	0.3	2.8	0.94
M	LOCK	5.0x 7.0	Ctr	-0.5	0.77
L	LOCK	2.0x 4.0	Ctr	Ctr	0.46

REVIEWED BY:
Robbins Engineering, Inc.

6904 Parke East Blvd.
Tampa, FL 33610

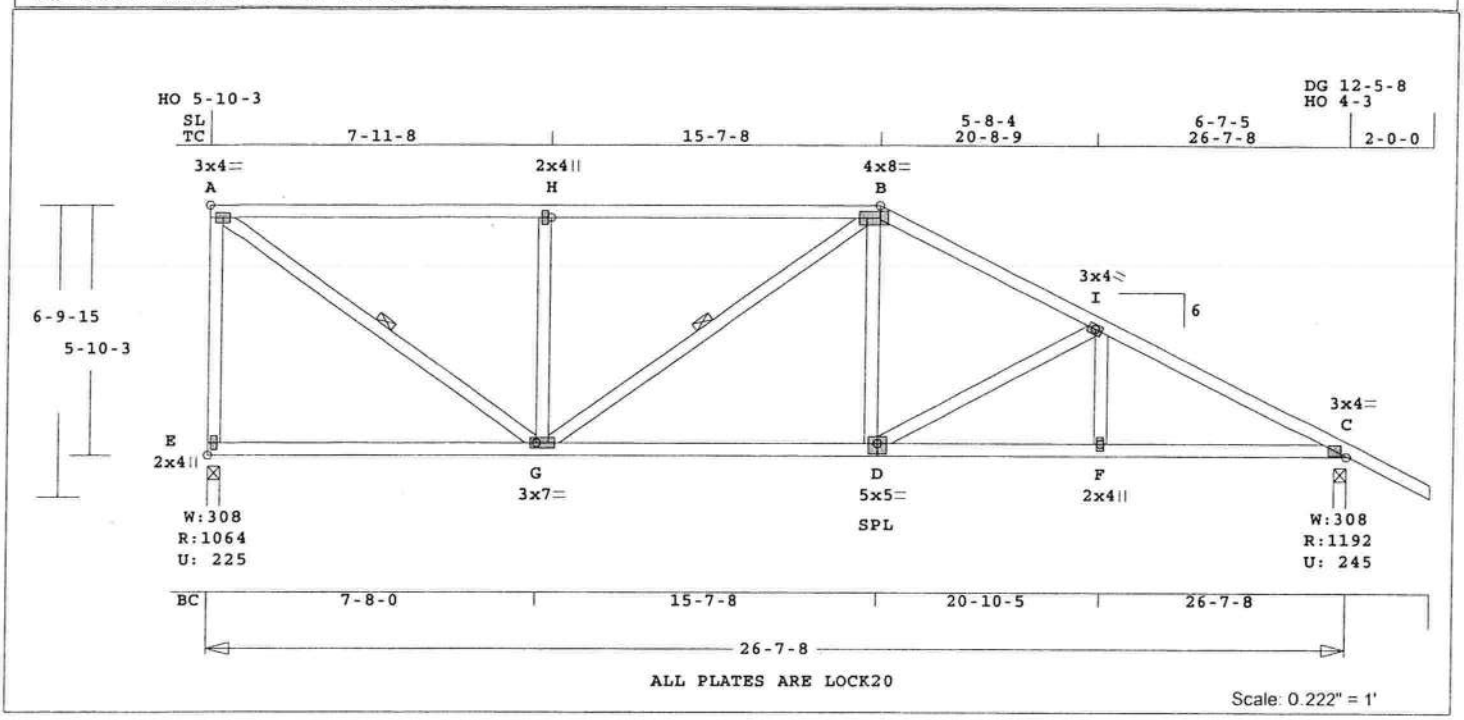
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 5132 Lbs
Max tens. force 4682 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	A7	1	HHIP	26'07-8	6	0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 187.6 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.74	2x 4	SP-#2
BC	0.53	2x 4	SP-#2
WB	0.38	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	26- 7- 8
BC	Cont.	0- 0- 0	26- 7- 8

WB 1 rows CLB on A -G
WB 1 rows CLB on G -B
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
E	1065	225 U	233 R
C	1193	246 U	122 R

Jt	Brg Size	Required
E	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -H	0.74	1125 C	0.00	0.74
H -B	0.74	1125 C	0.00	0.74
B -I	0.38	1392 C	0.11	0.27
I -C	0.40	1835 C	0.13	0.27
Bottom Chords				
E -G	0.40	183 T	0.00	0.40
G -D	0.53	1242 T	0.13	0.40
D -F	0.39	1642 T	0.27	0.12
F -C	0.36	1642 T	0.27	0.09
Webs				
E -A	0.38	1001 C	WindLd	
A -G	0.25	1390 T		1 Br
G -H	0.21	555 C		
G -B	0.04	180 T		1 Br
D -B	0.06	410 T		
D -I	0.20	447 C		
F -I	0.03	205 T		

TL Defl -0.13" in G -D L/999
LL Defl -0.06" in G -D L/999
Shear // Grain in A -H 0.36

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.84
H	LOCK	2.0x 4.0	Ctr	Ctr	0.46
B	LOCK	4.0x 8.0	Ctr	Ctr	0.98
I	LOCK	3.0x 4.0	Ctr	Ctr	0.65
C	LOCK	3.0x 4.0	Ctr	Ctr	0.87
E	LOCK	2.0x 4.0	Ctr	Ctr	0.62
G	LOCK	3.0x 7.0	Ctr	Ctr	0.96
D	LOCK	5.0x 5.0	Ctr	-0.5	0.65
F	LOCK	2.0x 4.0	Ctr	Ctr	0.40

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

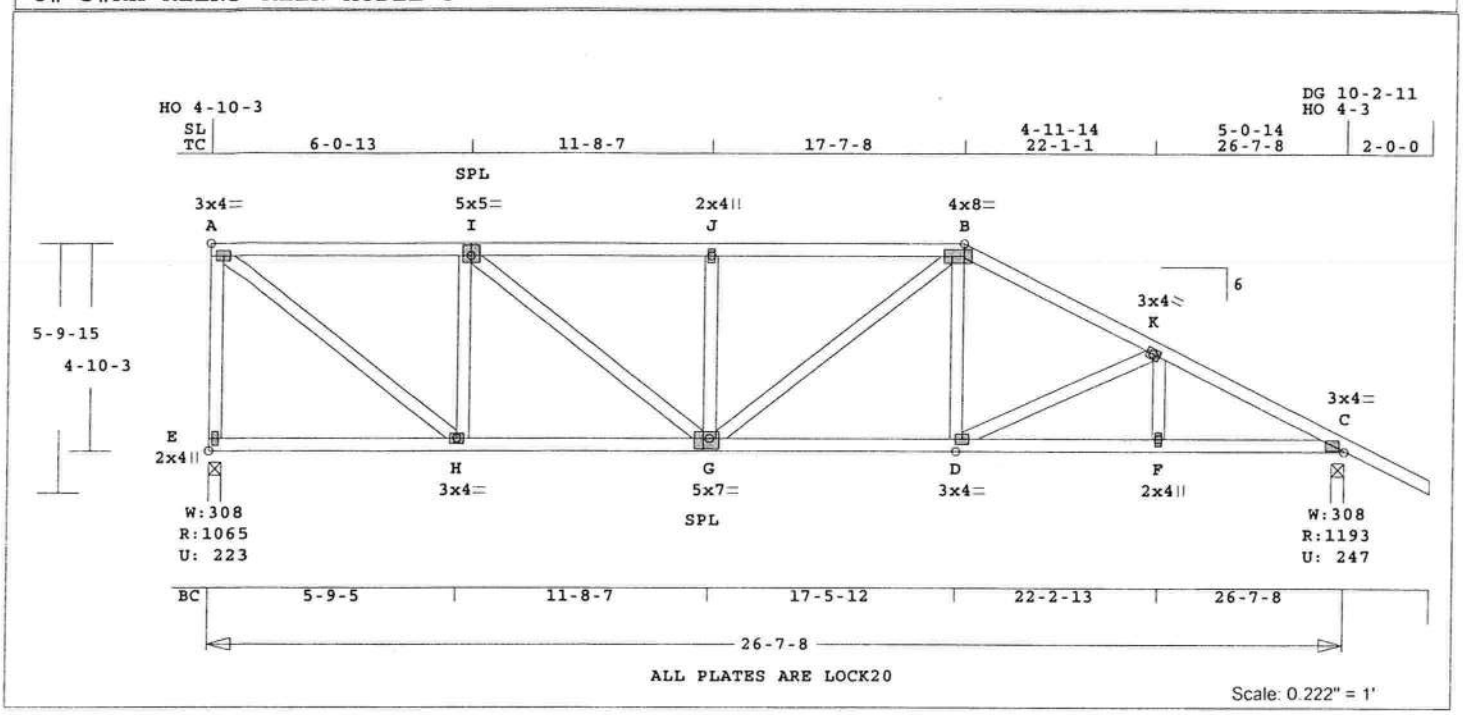
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1835 Lbs
Max tens. force 1642 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 4/9/2007

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	A8	1	HHIP	26'07-8	6	0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 191.7 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.36	2x 4	SP-#2
BC	0.37	2x 4	SP-#2
WB	0.46	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	26- 7- 8
BC	Cont.	0- 0- 0	26- 7- 8

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
E	1065	224 U	191 R
C	1193	247 U	110 R

Jt	Brg Size	Required
E	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -I	0.35	1099 C	0.00	0.35
I -J	0.36	1546 C	0.01	0.35
J -B	0.32	1546 C	0.01	0.31
B -K	0.32	1555 C	0.12	0.20
K -C	0.32	1903 C	0.14	0.18
--------Bottom Chords---------				
E -H	0.21	149 T	0.00	0.21
H -G	0.32	1099 T	0.11	0.21
G -D	0.32	1391 T	0.23	0.09
D -F	0.37	1698 T	0.28	0.09
F -C	0.34	1698 T	0.28	0.06
----------Webs----------				
E -A	0.26	1015 C	WindLd	
A -H	0.46	1399 T		
H -I	0.19	737 C		
I -G	0.21	570 T		
G -J	0.09	361 C		
G -B	0.05	196 T		
D -B	0.05	324 T		
D -K	0.11	333 C		
F -K	0.02	154 T		

TL Defl -0.13" in G -D L/999
LL Defl -0.07" in G -D L/999
Shear // Grain in A -I 0.27

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.86
I	LOCK	5.0x 5.0	Ctr	0.5	0.65
J	LOCK	2.0x 4.0	Ctr	Ctr	0.40
B	LOCK	4.0x 8.0	Ctr	Ctr	0.98
K	LOCK	3.0x 4.0	Ctr	Ctr	0.65
C	LOCK	3.0x 4.0	Ctr	Ctr	0.87
E	LOCK	2.0x 4.0	Ctr	Ctr	0.60
H	LOCK	3.0x 4.0	Ctr	Ctr	0.86
G	LOCK	5.0x 7.0	1.0-0.5		0.65
D	LOCK	3.0x 4.0	Ctr	Ctr	0.59
F	LOCK	2.0x 4.0	Ctr	Ctr	0.40

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

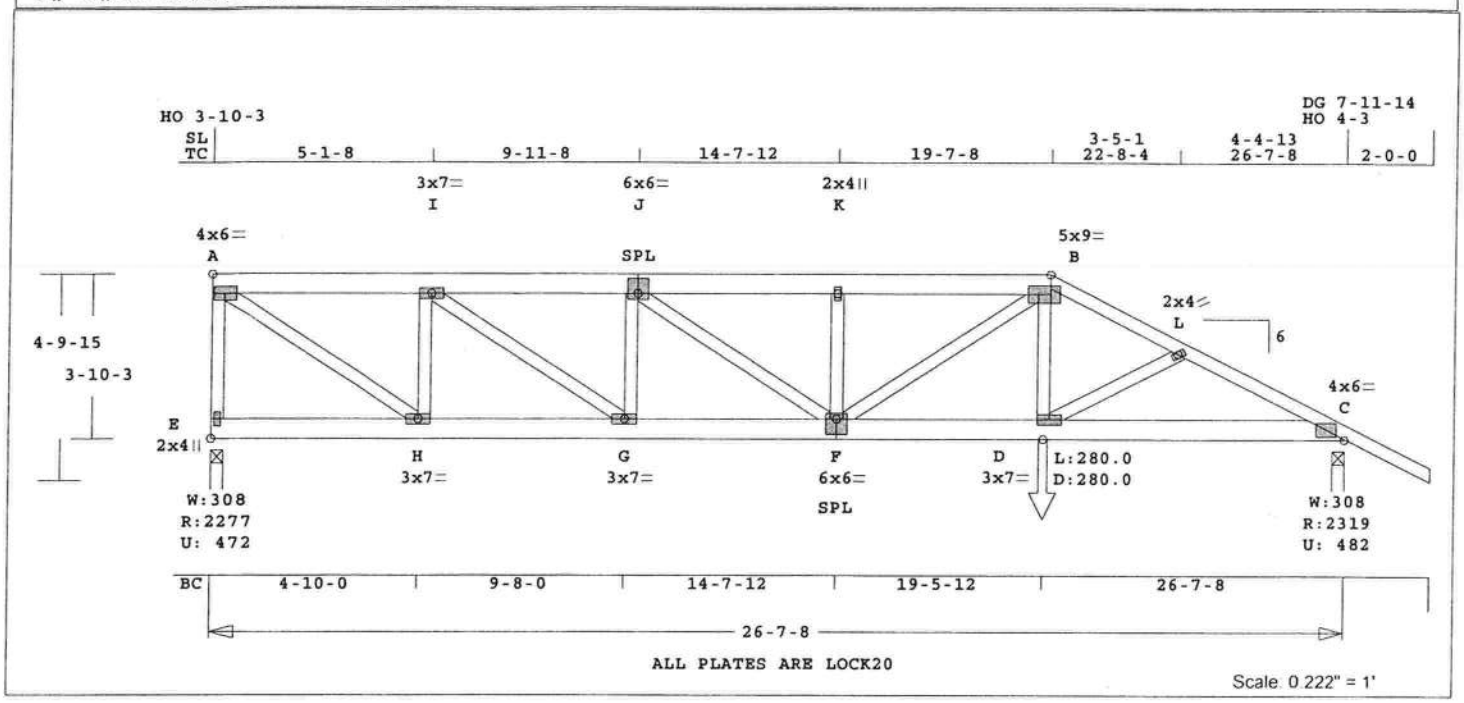
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings*
for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1903 Lbs
Max tens. force 1698 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	A9	1*2P	HHIP	26'0'8	6	0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 225.5 LBS

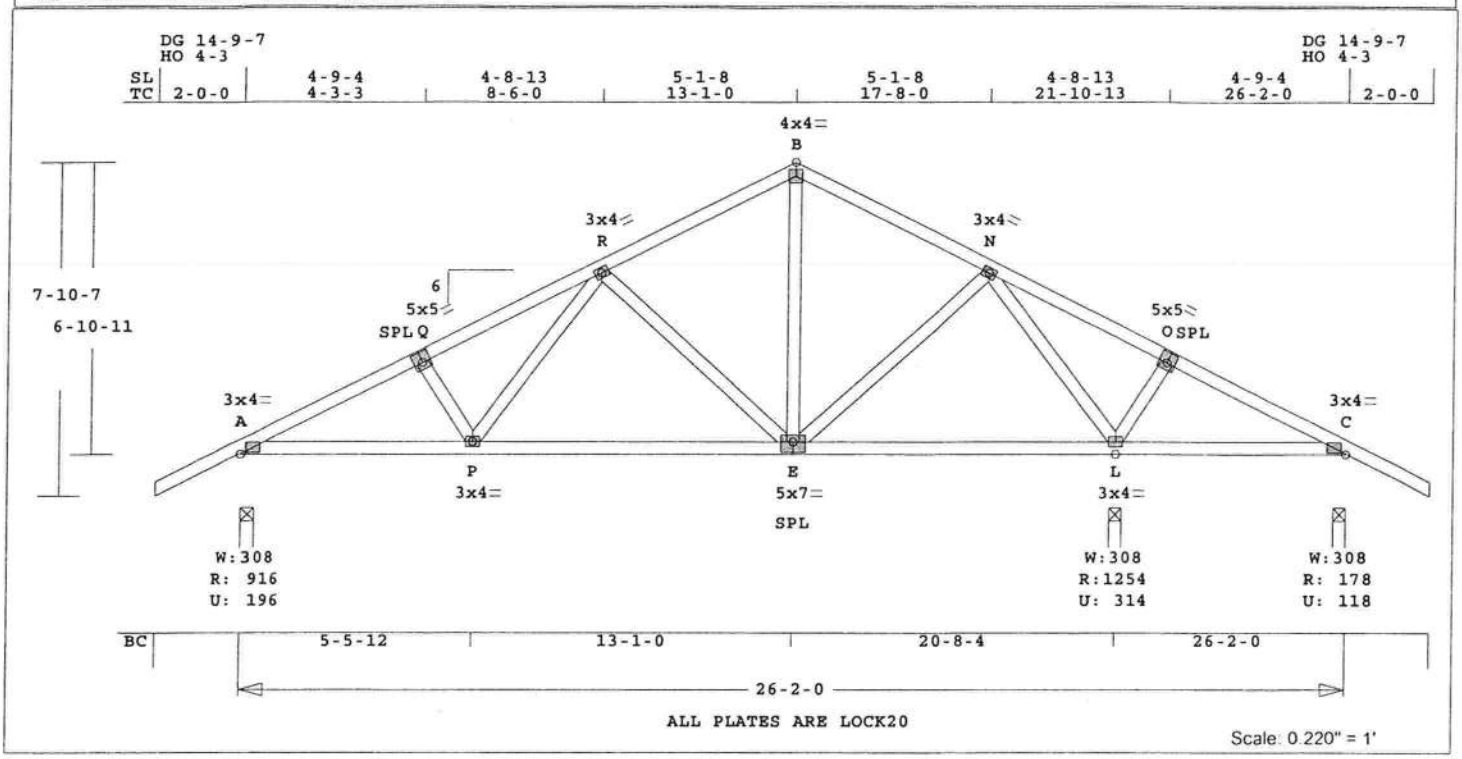
```
Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07
***************
* 2-Ply Truss *
***************

     CSI -Size- ----Lumber----
TC  0.28  2x 4  SP-#2
   A -J   2x 6  SP-#2
   J -B   2x 6  SP-#2
BC  0.33  2x 6  SP-#2
WB  0.32  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.     0- 0- 0 26- 7- 8
 BC  Cont.     0- 0- 0 26- 7- 8

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.00  Fc=1.00  Ft=1.00
BC Fb=1.00  Fc=1.00  Ft=1.00

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
E   2277   473 U   140 R
C   2319   483 U    67 R

Jt   Brg Size   Required
E       3.5"       1.5"
C       3.5"       1.5"

LC#  1  Girder Loading
Dur Fctrs - Lbr 1.25  Plt 1.25
plf - Dead  Live* From    To
TC V    20    40   0.0'  26.6'
BC V    20     0   0.0'  26.6'
TC V    25    50   1.0'  19.6'
TC V   -20   -40   0.0'   1.0'
BC V    25     0   1.0'  19.5'
BC V   -20     0   0.0'   1.0'
BC V   280   280  19.5'  CL-LB

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
---------Top Chords---------
A -I  0.17  2914 C  0.08  0.09
I -J  0.21  4482 C  0.12  0.09
J -K  0.22  4900 C  0.13  0.09
K -B  0.22  4900 C  0.13  0.09
B -L  0.28  4241 C  0.03  0.25
L -C  0.20  4348 C  0.17  0.03
--------Bottom Chords---------
E -H  0.07   182 T  0.00  0.07
H -G  0.24  2914 T  0.19  0.05
G -F  0.33  4482 T  0.29  0.04
F -D  0.31  3810 T  0.25  0.06
D -C  0.33  3873 T  0.25  0.08
-------------Webs-------------
E -A  0.11  2213 C WindLd
A -H  0.32  3560 T
H -I  0.09  1812 C
I -G  0.17  1915 T
G -J  0.04   903 C
J -F  0.04   511 T
F -K  0.04   763 C
F -B  0.12  1309 T
D -B  0.06   739 T
D -L  0.01   216 T

TL Defl  -0.16" in G -F  L/999
LL Defl  -0.08" in G -F  L/999
Shear // Grain  in K -B   0.17

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS  20 Ga, Gross Area
Jt Type  Plt Size  X   Y   JSI
A  LOCK  4.0x 6.0 Ctr Ctr 0.75
I  LOCK  3.0x 7.0 Ctr Ctr 0.39
J  LOCK  6.0x 6.0 Ctr 1.2 0.52
K  LOCK  2.0x 4.0 Ctr Ctr 0.39
B  LOCK  5.0x 9.0 Ctr Ctr 0.95
L  LOCK  2.0x 4.0 Ctr Ctr 0.39
C  LOCK  4.0x 6.0 Ctr Ctr 0.63
E  LOCK  2.0x 4.0 Ctr Ctr 0.64
H  LOCK  3.0x 7.0 Ctr Ctr 0.61
G  LOCK  3.0x 7.0 Ctr Ctr 0.39
F  LOCK  6.0x 6.0 Ctr-1.2 0.54
D  LOCK  3.0x 7.0 Ctr Ctr 0.40

REVIEWED BY:
 Robbins Engineering, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.

Analysis Conforms To:
  FBC2004
Girder    Half Hip
  Framing King Jacks
  Jack    Open Faced
  Setback  7- 0- 0
2 COMPLETE TRUSSES REQUIRED.
Fasten together in staggered
  pattern.  (1/2" bolts -OR-
  SDS3  screws -OR- 10d nails
  as each layer is applied.)
          ----Spacing (In)----
    Rows  Nails  Screws  Bolts
  TC  1    12      24       0
  BC  2    12      24       0
  WB  1     8       8
Plus clusters of nails where
  shown.
OH Loading
  Soffit psf 2.0
Design checked for 10 psf non-
  concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          120 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:         5.0 psf
  BC Dead Load:         5.0 psf
Max comp. force     4900 Lbs
Max tens. force     4482 Lbs
Quality Control Factor 1.25
```

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 4/9/2007

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	B1	1	MQ	260200	6	2- 0- 0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 175.4 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.31	2x 4	SP-#2
BC	0.41	2x 4	SP-#2
WB	0.38	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	26- 2- 0
BC	Cont.	0- 0- 0	26- 2- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	916	196 U	154 R
L	1254	315 U	
C	178	118 U	153 R

Jt	Brg Size	Required
A	3.5"	1.5"
L	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -Q	0.25	1336 C	0.11 0.14
Q -R	0.31	1212 C	0.10 0.21
R -B	0.27	604 C	0.06 0.21
B -N	0.26	603 C	0.06 0.20
N -O	0.24	337 T	0.04 0.20
O -C	0.24	209 T	0.04 0.20
--------Bottom Chords---------			
A -P	0.34	1195 T	0.12 0.22
P -E	0.41	871 T	0.08 0.33
E -L	0.35	324 T	0.02 0.33
L -C	0.26	173 C	0.00 0.26
------------Webs------------			
Q -P	0.04	278 T	
P -R	0.07	392 T	
R -E	0.22	460 C	
E -B	0.09	322 T	
E -N	0.05	289 T	
N -L	0.38	1086 C	
L -O	0.04	327 T	

TL Defl -0.06" in A -P L/999
LL Defl -0.03" in A -P L/999
Shear // Grain in R -B 0.19

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.86
Q	LOCK	5.0x 5.0-0.2	0.5		0.63
R	LOCK	3.0x 4.0	Ctr	Ctr	0.61
B	LOCK	4.0x 4.0	Ctr	Ctr	0.72
N	LOCK	3.0x 4.0	Ctr	Ctr	0.72
O	LOCK	5.0x 5.0	0.2	0.5	0.63
C	LOCK	3.0x 4.0	Ctr	Ctr	0.86
P	LOCK	3.0x 4.0	Ctr	Ctr	0.47
E	LOCK	5.0x 7.0	Ctr-0.5		0.64
L	LOCK	3.0x 4.0	Ctr	Ctr	0.51

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

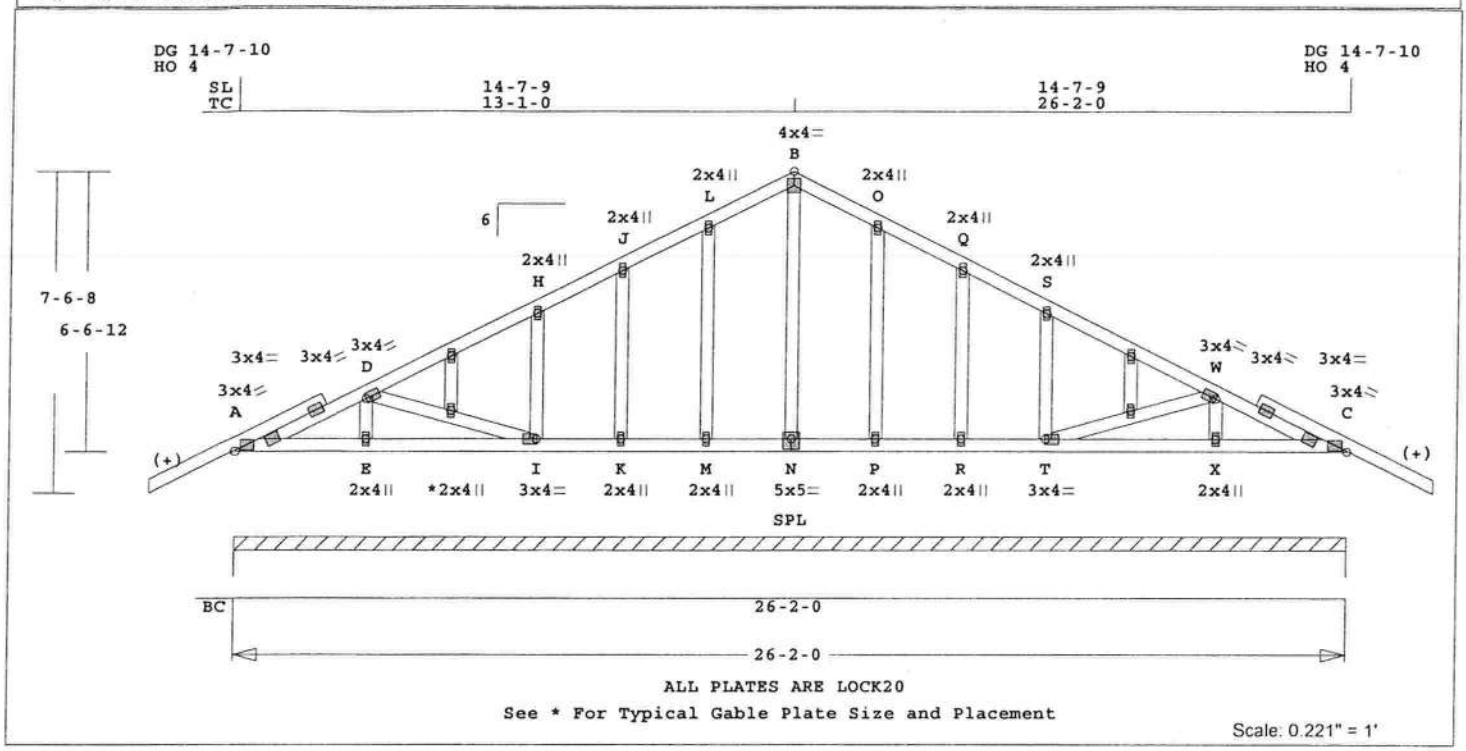
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
20- 8- 4 26- 2- 0
Max comp. force 1336 Lbs
Max tens. force 1195 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 4/9/2007

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	B1A	1	MQ	260200	6	0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 200.2 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
(+)TC	0.12	2x 4	SP-#2
BC	0.07	2x 4	SP-#2
WB	0.02	2x 4	SP-#2
GW	0.04	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	26- 2- 0
BC	Cont.	0- 0- 0	26- 2- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	2093	431 U	146 R

Jt	Brg Size	Required
A	314.0"	0"-to- 314"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -D	0.12	69 C	0.00 0.12
D -H	0.12	96 C	0.00 0.12
H -J	0.11	72 T	0.00 0.11
J -L	0.05	127 T	0.01 0.04
L -B	0.06	195 T	0.02 0.04
B -O	0.06	195 T	0.02 0.04
O -Q	0.05	127 T	0.01 0.04
Q -S	0.11	72 T	0.00 0.11
S -W	0.12	96 C	0.00 0.12
W -C	0.12	69 C	0.00 0.12
Bottom Chords			
A -E	0.07	9 T	0.00 0.07
E -I	0.07	0 T	0.00 0.07
I -K	0.06	0 T	0.00 0.06
K -M	0.02	0 T	0.00 0.02
M -N	0.02	0 T	0.00 0.02
N -P	0.02	0 T	0.00 0.02
P -R	0.02	0 T	0.00 0.02
R -T	0.06	0 T	0.00 0.06
T -X	0.07	0 T	0.00 0.07
X -C	0.07	9 T	0.00 0.07
Webs			
D -I	0.02	192 T	
T -W	0.02	192 T	
Gable Webs			
E -D	0.02	189 C	
I -H	0.03	220 T	
K -J	0.02	109 T	
M -L	0.04	221 T	
N -B	0.04	87 C	
P -O	0.04	221 T	
R -Q	0.02	109 T	
T -S	0.03	220 T	
X -W	0.02	189 C	

TL Defl 0.00" in E -I L/999
LL Defl 0.00" in E -I L/999
Shear // Grain in D -H 0.14

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.86
D	LOCK	3.0x 4.0	Ctr	Ctr	0.65
H	LOCK	2.0x 4.0	Ctr	Ctr	0.39
J	LOCK	2.0x 4.0	Ctr	Ctr	0.39
L	LOCK	2.0x 4.0	Ctr	Ctr	0.39
B	LOCK	4.0x 4.0	Ctr	Ctr	0.72
O	LOCK	2.0x 4.0	Ctr	Ctr	0.39
Q	LOCK	2.0x 4.0	Ctr	Ctr	0.39
S	LOCK	2.0x 4.0	Ctr	Ctr	0.39
W	LOCK	3.0x 4.0	Ctr	Ctr	0.65
C	LOCK	3.0x 4.0	Ctr	Ctr	0.86
E	LOCK	2.0x 4.0	Ctr	Ctr	0.40
I	LOCK	3.0x 4.0	Ctr	Ctr	0.59
K	LOCK	2.0x 4.0	Ctr	Ctr	0.40
M	LOCK	2.0x 4.0	Ctr	Ctr	0.40
N	LOCK	5.0x 5.0	Ctr-0.5		0.64
P	LOCK	2.0x 4.0	Ctr	Ctr	0.40
R	LOCK	2.0x 4.0	Ctr	Ctr	0.40
T	LOCK	3.0x 4.0	Ctr	Ctr	0.59
X	LOCK	2.0x 4.0	Ctr	Ctr	0.40

2 Gable studs to be attached with 2.0x4.0 plates each end.

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

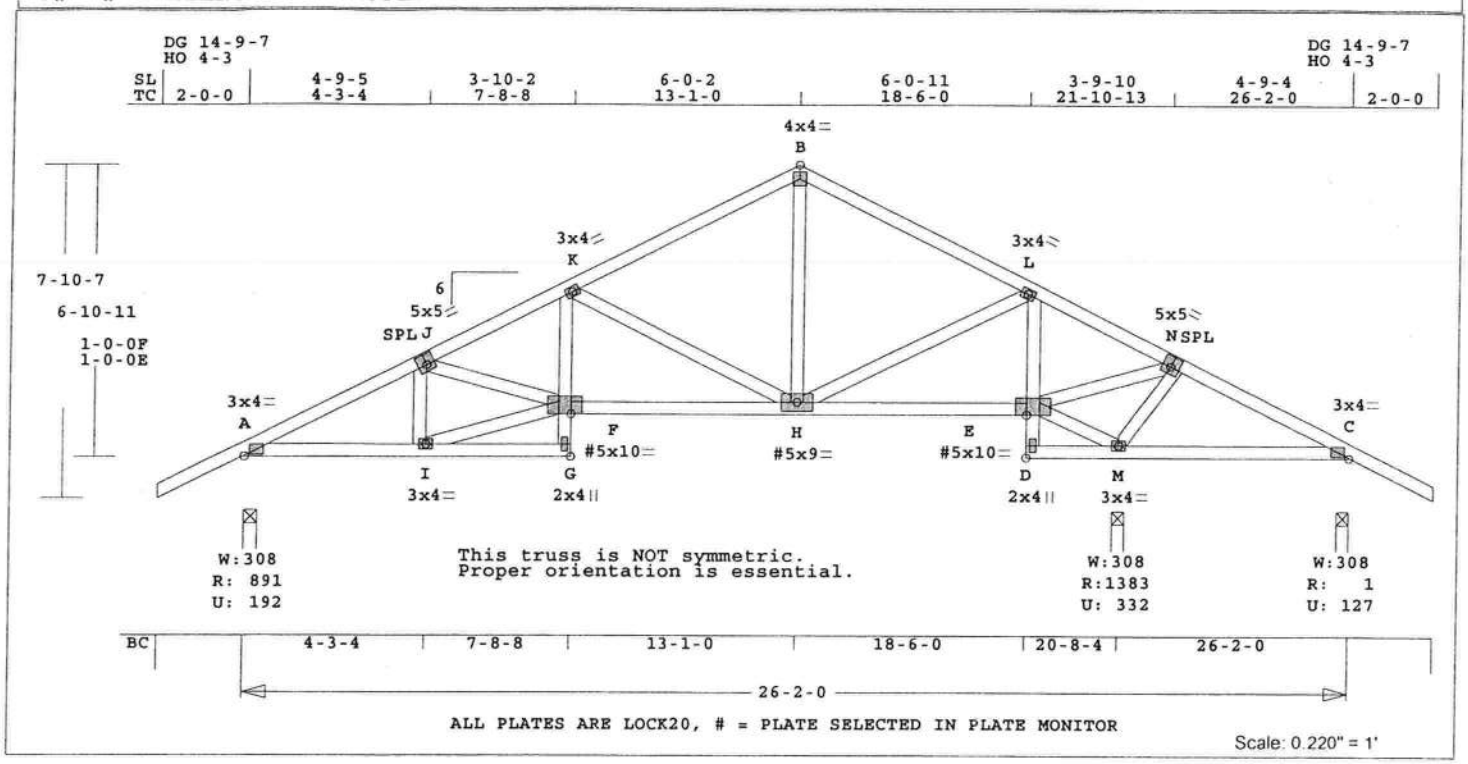
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 202 Lbs
Max tens. force 221 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	B2	1	SP	260200	6	2- 0- 0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 189.6 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.35	2x 4	SP-#2
BC	0.31	2x 4	SP-#2
CW	0.13	2x 4	SP-#2
WB	0.35	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	26- 2- 0
BC	Cont.	0- 0- 0	26- 2- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	891	193 U	154 R
M	1384	332 U	
C	2	127 U	153 R

Jt	Brg Size	Required
A	3.5"	1.5"
M	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -J	0.23	1279	C	0.10	0.13
J -K	0.35	1362	C	0.11	0.24
K -B	0.32	644	C	0.06	0.26
B -L	0.32	644	C	0.06	0.26
L -N	0.27	199	T	0.02	0.25
N -C	0.24	437	T	0.08	0.16
Bottom Chords					
A -I	0.23	1141	T	0.19	0.04
I -G	0.06	43	C	0.00	0.06
F -H	0.31	1241	T	0.20	0.11
H -E	0.19	142	T	0.01	0.18
D -M	0.16	51	C	0.00	0.16
M -C	0.16	377	C	0.00	0.16
Chord-Webs					
G -F	0.07	57	T	0.00	0.07
F -K	0.13	394	T	0.06	0.07
D -E	0.08	52	T	0.00	0.08
E -L	0.07	725	C	0.07	0.00
Webs					
I -J	0.02	252	C		
I -F	0.21	1161	T		
J -F	0.01	91	T		
K -H	0.35	747	C		
H -B	0.04	317	T		
H -L	0.09	492	T		
E -M	0.11	1003	C		
E -N	0.20	1100	T		
M -N	0.11	978	C		

TL Defl -0.08" in I -G L/999
LL Defl -0.04" in I -G L/999
Shear // Grain in K -B 0.23

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.86
J	LOCK	5.0x 5.0	-0.2	0.5	0.63
K	LOCK	3.0x 4.0	Ctr	Ctr	0.41
B	LOCK	4.0x 4.0	Ctr	Ctr	0.72
L	LOCK	3.0x 4.0	Ctr	Ctr	0.61
N	LOCK	5.0x 5.0	0.2	0.5	0.63
C	LOCK	3.0x 4.0	Ctr	Ctr	0.86
I	LOCK	3.0x 4.0	Ctr	Ctr	0.65
G	LOCK	2.0x 4.0	Ctr	Ctr	0.58
F#	LOCK	5.0x10.0	Ctr	0.8	0.55
H#	LOCK	5.0x 9.0	Ctr	Ctr	0.39
E#	LOCK	5.0x10.0	Ctr	0.8	0.55
D	LOCK	2.0x 4.0	Ctr	Ctr	0.58
M	LOCK	3.0x 4.0	Ctr	Ctr	0.54

= Plate Monitor used

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

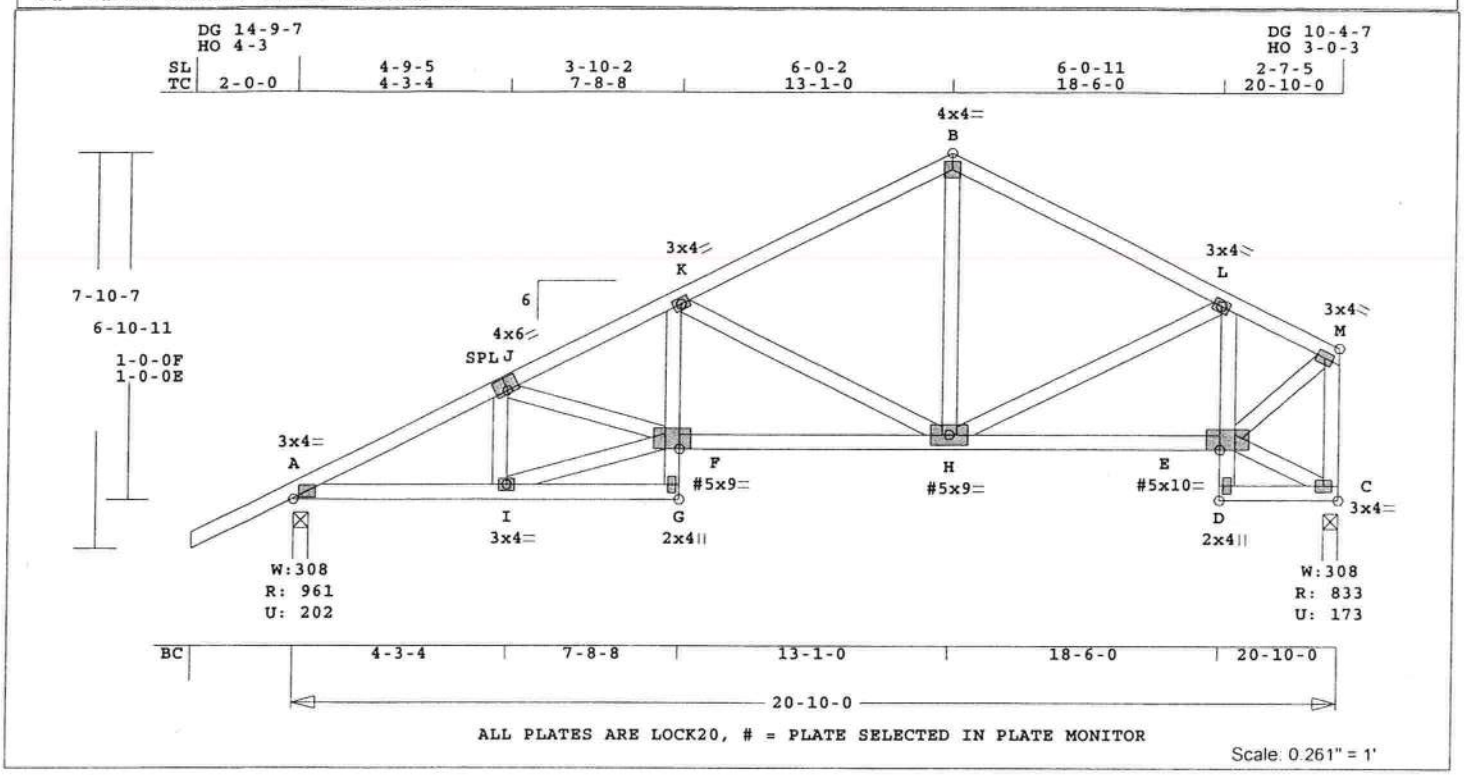
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
20- 8- 4 26- 2- 0
Max comp. force 1362 Lbs
Max tens. force 1241 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	B3	6	SP	201000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 162.6 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.37	2x 4	SP-#2
BC	0.35	2x 4	SP-#2
CW	0.15	2x 4	SP-#2
WB	0.36	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	202 U	138 R
C	833	173 U	200 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -J	0.24	1424 C	0.11	0.13
J -K	0.37	1563 C	0.13	0.24
K -B	0.34	826 C	0.08	0.26
B -L	0.33	826 C	0.07	0.26
L -M	0.31	628 C	0.05	0.26
Bottom Chords				
A -I	0.25	1270 T	0.21	0.04
I -G	0.06	47 C	0.00	0.06
F -H	0.35	1422 T	0.23	0.12
H -E	0.24	594 T	0.06	0.18
D -C	0.03	41 C	0.00	0.03
Chord-Webs				
G -F	0.07	58 T	0.00	0.07
F -K	0.15	409 T	0.07	0.08
D -E	0.07	40 T	0.00	0.07
E -L	0.06	436 C	0.00	0.06
Webs				
I -J	0.03	291 C		
I -F	0.23	1287 T		
J -F	0.02	145 T		
K -H	0.36	768 C		
H -B	0.08	443 T		
H -L	0.04	160 T		
E -M	0.14	777 T		
E -C	0.02	178 T		
C -M	0.10	814 C	WindLd	

TL Defl -0.09" in I -G L/999
LL Defl -0.04" in I -G L/999
Shear // Grain in K -B 0.23

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
J	LOCK	4.0x 6.0	-0.5	0.9	0.57
K	LOCK	3.0x 4.0	Ctr	Ctr	0.42
B	LOCK	4.0x 4.0	Ctr	Ctr	0.65
L	LOCK	3.0x 4.0	Ctr	Ctr	0.37
M	LOCK	3.0x 4.0	Ctr	Ctr	0.70
I	LOCK	3.0x 4.0	Ctr	Ctr	0.72
G	LOCK	2.0x 4.0	Ctr	Ctr	0.58
F#	LOCK	5.0x 9.0	Ctr	0.8	0.50
H#	LOCK	5.0x 9.0	Ctr	Ctr	0.35
E#	LOCK	5.0x10.0	Ctr	0.7	0.50
D	LOCK	2.0x 4.0	Ctr	Ctr	0.58
C	LOCK	3.0x 4.0	Ctr	Ctr	0.70

= Plate Monitor used

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

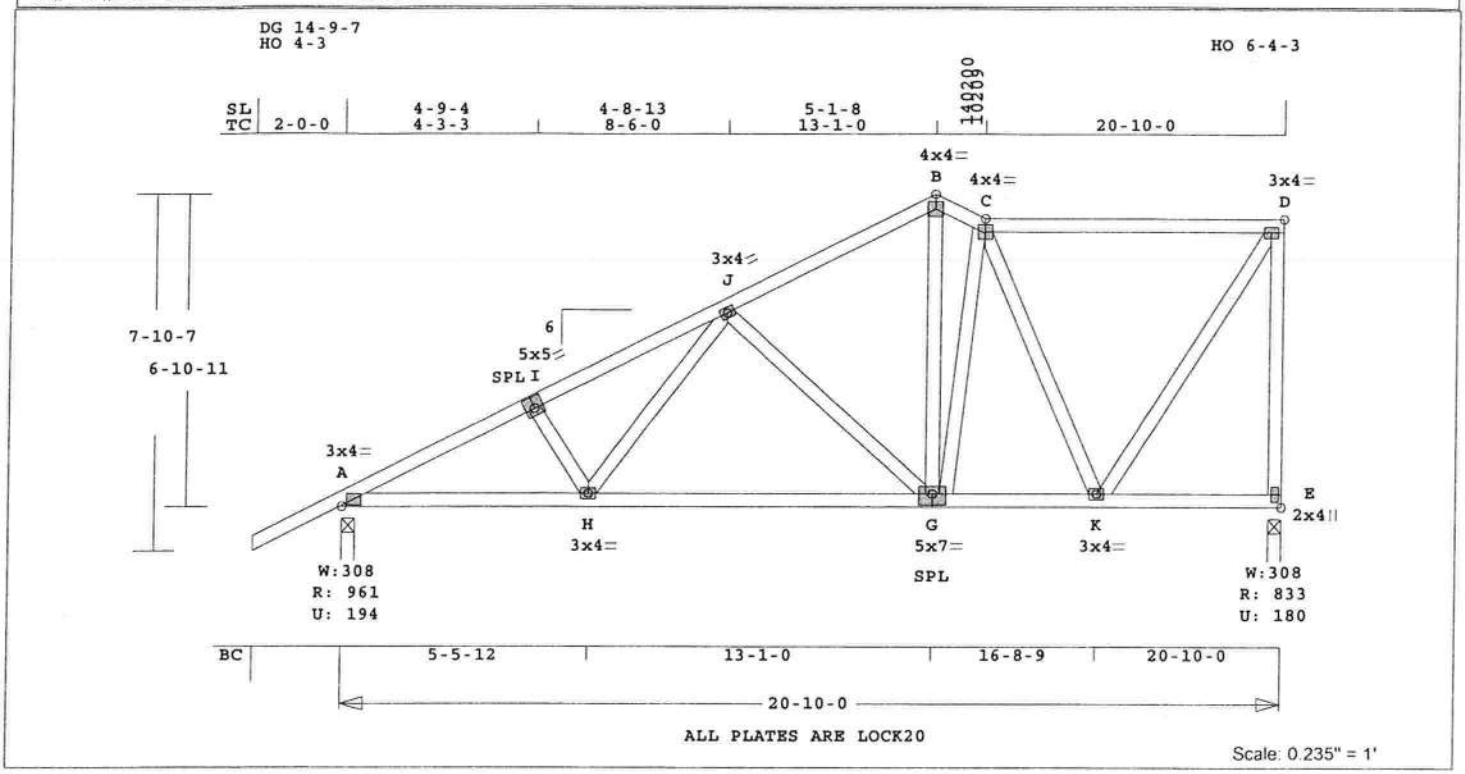
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1563 Lbs
Max tens. force 1422 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	B4	1	SP	201000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 170.5 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.49	2x 4	SP-#2
BC	0.37	2x 4	SP-#2
WB	0.36	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	195 U	127 R
E	833	181 U	264 R

Jt	Brg Size	Required
A	3.5"	1.5"
E	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -I	0.24	1432 C	0.10	0.14
I -J	0.32	1308 C	0.10	0.22
J -B	0.28	697 C	0.06	0.22
B -C	0.26	741 C	0.00	0.26
C -D	0.49	391 C	0.00	0.49
--------Bottom Chords---------				
A -H	0.37	1280 T	0.13	0.24
H -G	0.33	959 T	0.09	0.24
G -K	0.30	638 T	0.06	0.24
K -E	0.09	203 T	0.00	0.09
------------Webs------------				
I -H	0.03	276 T		
H -J	0.07	403 T		
J -G	0.23	470 C		
G -B	0.21	580 T		
G -C	0.06	187 T		
C -K	0.32	597 C		
K -D	0.27	723 T		
E -D	0.36	795 C	WindLd	

TL Defl -0.07" in H -G L/999
LL Defl -0.03" in A -H L/999
Shear // Grain in C -D 0.27

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
I	LOCK	5.0x 5.0-0.2	0.5		0.57
J	LOCK	3.0x 4.0	Ctr	Ctr	0.55
B	LOCK	4.0x 4.0	Ctr	Ctr	0.65
C	LOCK	4.0x 4.0	Ctr	Ctr	0.87
D	LOCK	3.0x 4.0	Ctr	Ctr	0.70
H	LOCK	3.0x 4.0	Ctr	Ctr	0.42
G	LOCK	5.0x 7.0	Ctr-0.5		0.66
K	LOCK	3.0x 4.0	Ctr	Ctr	0.63
E	LOCK	2.0x 4.0	Ctr	Ctr	0.54

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

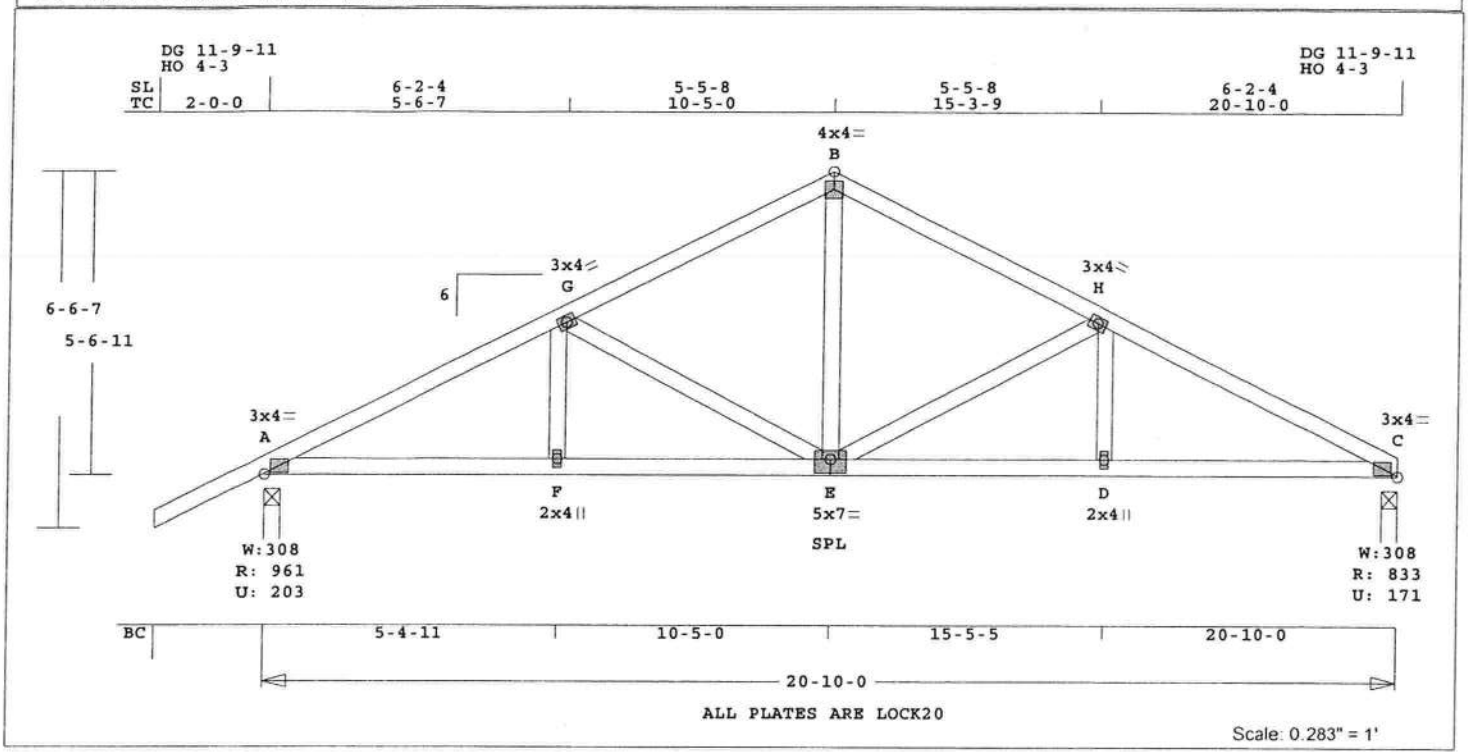
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1432 Lbs
Max tens. force 1280 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	B5	1	HO	20100.0	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 127.1 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.37	2x 4	SP-#2
BC	0.28	2x 4	SP-#2
WB	0.18	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

psf-Ld	Dead	Live	
TC	10.0	20.0	
BC	10.0	0.0	
TC+BC	20.0	20.0	
Total	40.0	Spacing	24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	204 U	116 R
C	833	172 U	116 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd	
----------Top Chords----------					
A -G	0.37	1371	C	0.11	0.26
G -B	0.34	932	C	0.08	0.26
B -H	0.34	932	C	0.08	0.26
H -C	0.37	1371	C	0.11	0.26
--------Bottom Chords---------					
A -F	0.28	1231	T	0.20	0.08
F -E	0.28	1231	T	0.20	0.08
E -D	0.28	1231	T	0.20	0.08
D -C	0.28	1231	T	0.20	0.08
------------Webs------------					
F -G	0.03	203	T		
G -E	0.18	457	C		
E -B	0.10	542	T		
E -H	0.18	457	C		
D -H	0.03	203	T		

TL Defl -0.08" in F -E L/999
LL Defl -0.04" in F -E L/999
Shear // Grain in A -G 0.21

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
G	LOCK	3.0x 4.0	Ctr	Ctr	0.58
B	LOCK	4.0x 4.0	Ctr	Ctr	0.65
H	LOCK	3.0x 4.0	Ctr	Ctr	0.58
C	LOCK	3.0x 4.0	Ctr	Ctr	0.78
F	LOCK	2.0x 4.0	Ctr	Ctr	0.40
E	LOCK	5.0x 7.0	Ctr	-0.5	0.58
D	LOCK	2.0x 4.0	Ctr	Ctr	0.40

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

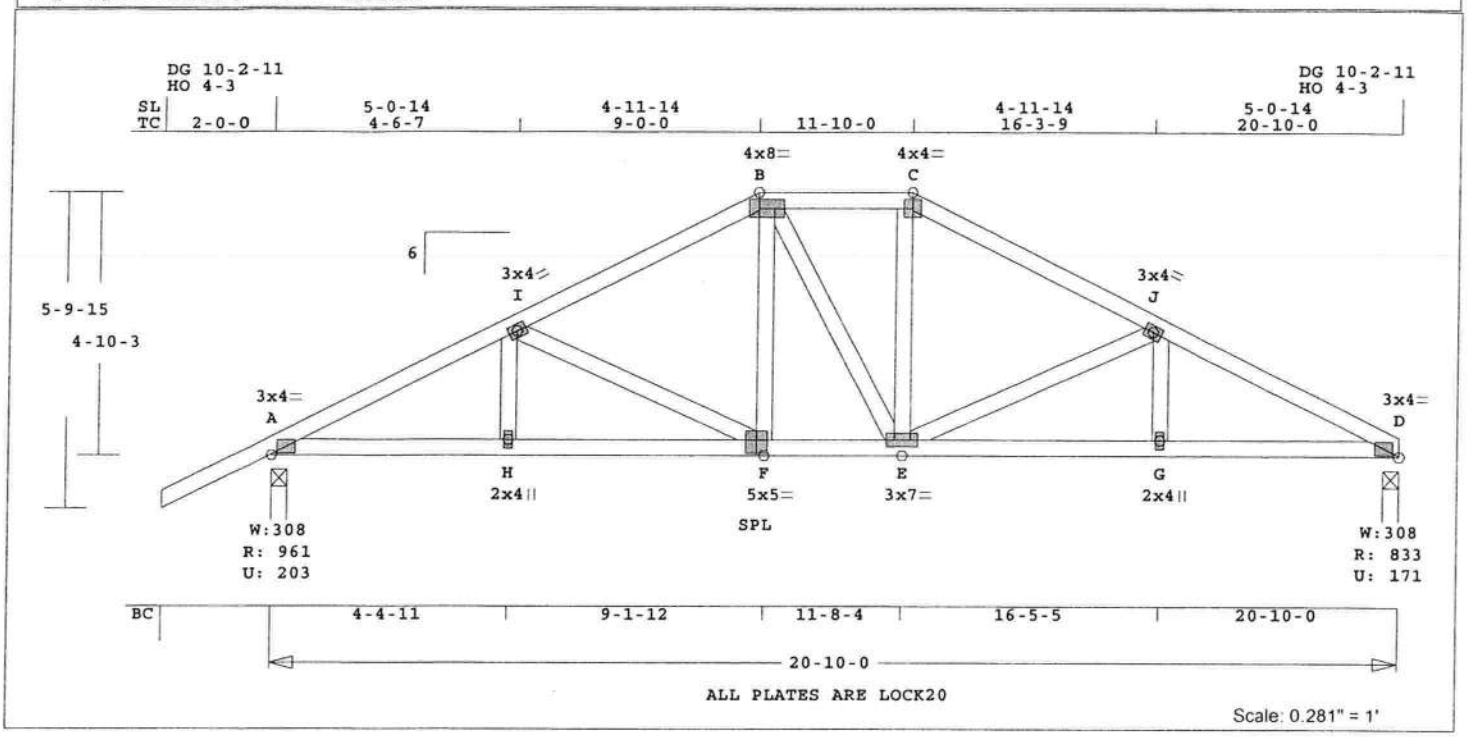
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004

OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1371 Lbs
Max tens. force 1231 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	B6	1	HIPP	201000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 138.7 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.31	2x 4	SP-#2
BC	0.27	2x 4	SP-#2
WB	0.13	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	204 U	100 R
D	833	172 U	100 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -I	0.31	1428 C	0.11	0.20
I -B	0.30	1039 C	0.09	0.21
B -C	0.17	926 C	0.09	0.08
C -J	0.30	1039 C	0.09	0.21
J -D	0.31	1428 C	0.11	0.20
--------Bottom Chords---------				
A -H	0.24	1279 T	0.21	0.03
H -F	0.27	1279 T	0.21	0.06
F -E	0.20	922 T	0.15	0.05
E -G	0.27	1280 T	0.21	0.06
G -D	0.25	1280 T	0.21	0.04
----------Webs----------				
H -I	0.02	177 T		
I -F	0.13	388 C		
F -B	0.04	265 T		
B -E	0.02	73 T		
E -C	0.04	261 T		
E -J	0.13	390 C		
G -J	0.02	175 T		

TL Defl -0.08" in H -F L/999
LL Defl -0.04" in H -F L/999
Shear // Grain in I -B 0.19

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
I	LOCK	3.0x 4.0	Ctr	Ctr	0.58
B	LOCK	4.0x 8.0	Ctr	Ctr	0.87
C	LOCK	4.0x 4.0	Ctr	Ctr	0.87
J	LOCK	3.0x 4.0	Ctr	Ctr	0.58
D	LOCK	3.0x 4.0	Ctr	Ctr	0.78
H	LOCK	2.0x 4.0	Ctr	Ctr	0.40
F	LOCK	5.0x 5.0	Ctr	-0.5	0.58
E	LOCK	3.0x 7.0	Ctr	Ctr	0.50
G	LOCK	2.0x 4.0	Ctr	Ctr	0.40

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

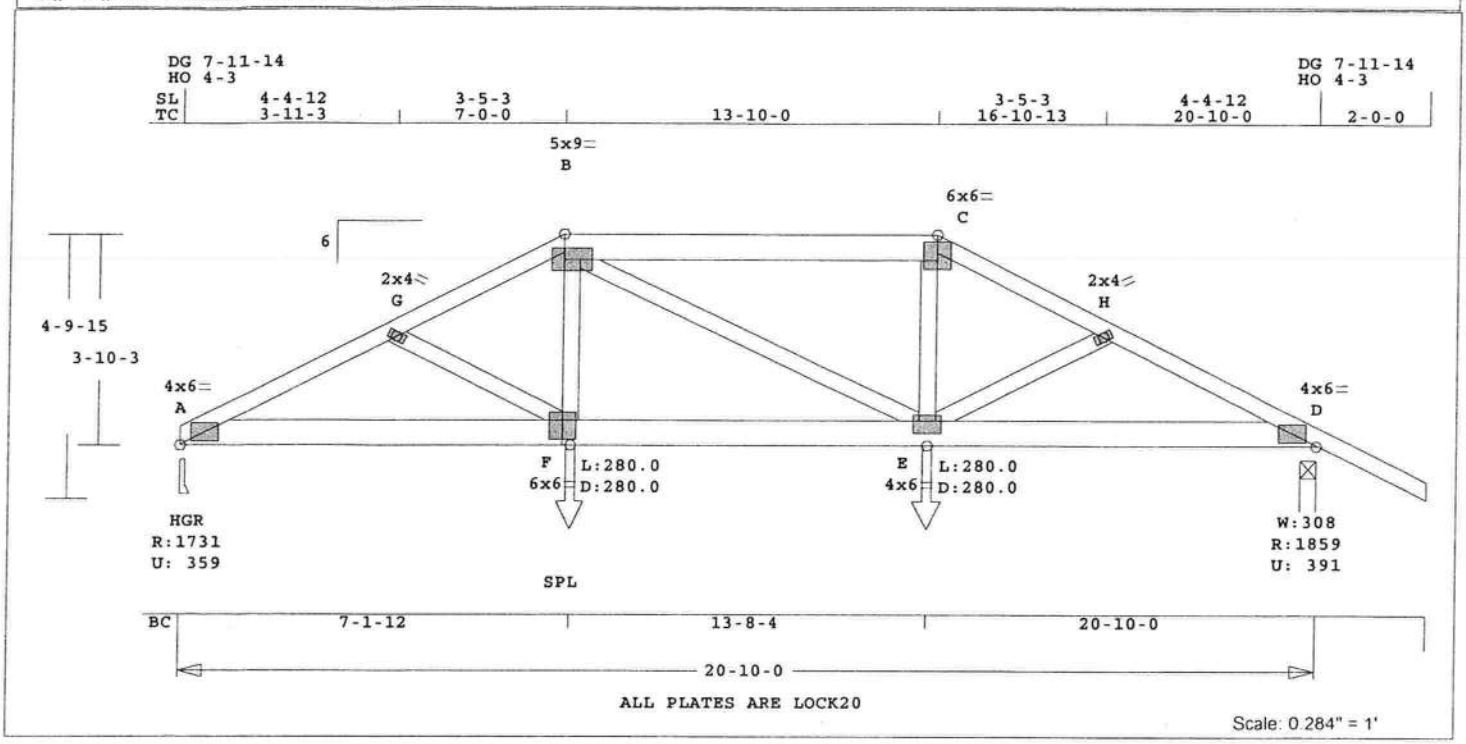
NOTES:

Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1428 Lbs
Max tens. force 1280 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Spah	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	B7	1	HIPP	20100.0	6	0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 150.2 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.90	2x 6	SP-#2
	A -B	2x 4	SP-#2
	C -D	2x 4	SP-#2
BC	0.58	2x 6	SP-#2
WB	0.14	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	1731	359 U	76 R
D	1859	391 U	76 R

Jt	Brg Size	Required
A	3.5"	2.0"
D	3.5"	2.2"

LC# 1 Girder Loading
Dur Fctrs - Lbr 1.25 Plt 1.25

plf -	Dead	Live*	From	To
TC V	20	40	0.0'	20.8'
BC V	20	0	0.0'	20.8'
TC V	25	50	7.0'	13.8'
BC V	25	0	7.1'	13.7'
BC V	280	280	7.1'	CL-LB
BC V	280	280	13.7'	CL-LB

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
Top Chords				
A -G	0.44	3333 C	0.29	0.15
G -B	0.74	3247 C	0.08	0.66
B -C	0.90	2992 C	0.03	0.87
C -H	0.71	3291 C	0.09	0.62
H -D	0.44	3381 C	0.30	0.14
Bottom Chords				
A -F	0.54	2964 T	0.39	0.15
F -E	0.58	2929 T	0.39	0.19
E -D	0.52	3006 T	0.40	0.12
Webs				
G -F	0.02	178 T		
F -B	0.14	826 T		
B -E	0.05	93 C		
E -C	0.14	853 T		
E -H	0.02	182 T		

TL Defl -0.24" in A -F L/999
LL Defl -0.12" in A -F L/999
Shear // Grain in B -C 0.35

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	4.0x 6.0	Ctr	Ctr	0.75
G	LOCK	2.0x 4.0	Ctr	Ctr	0.37
B	LOCK	5.0x 9.0	Ctr	Ctr	0.85
C	LOCK	6.0x 6.0	Ctr	-0.6	0.50
H	LOCK	2.0x 4.0	Ctr	Ctr	0.37
D	LOCK	4.0x 6.0	Ctr	Ctr	0.76
F	LOCK	6.0x 6.0	Ctr	-1.2	0.51
E	LOCK	4.0x 6.0	Ctr	-0.8	0.63

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

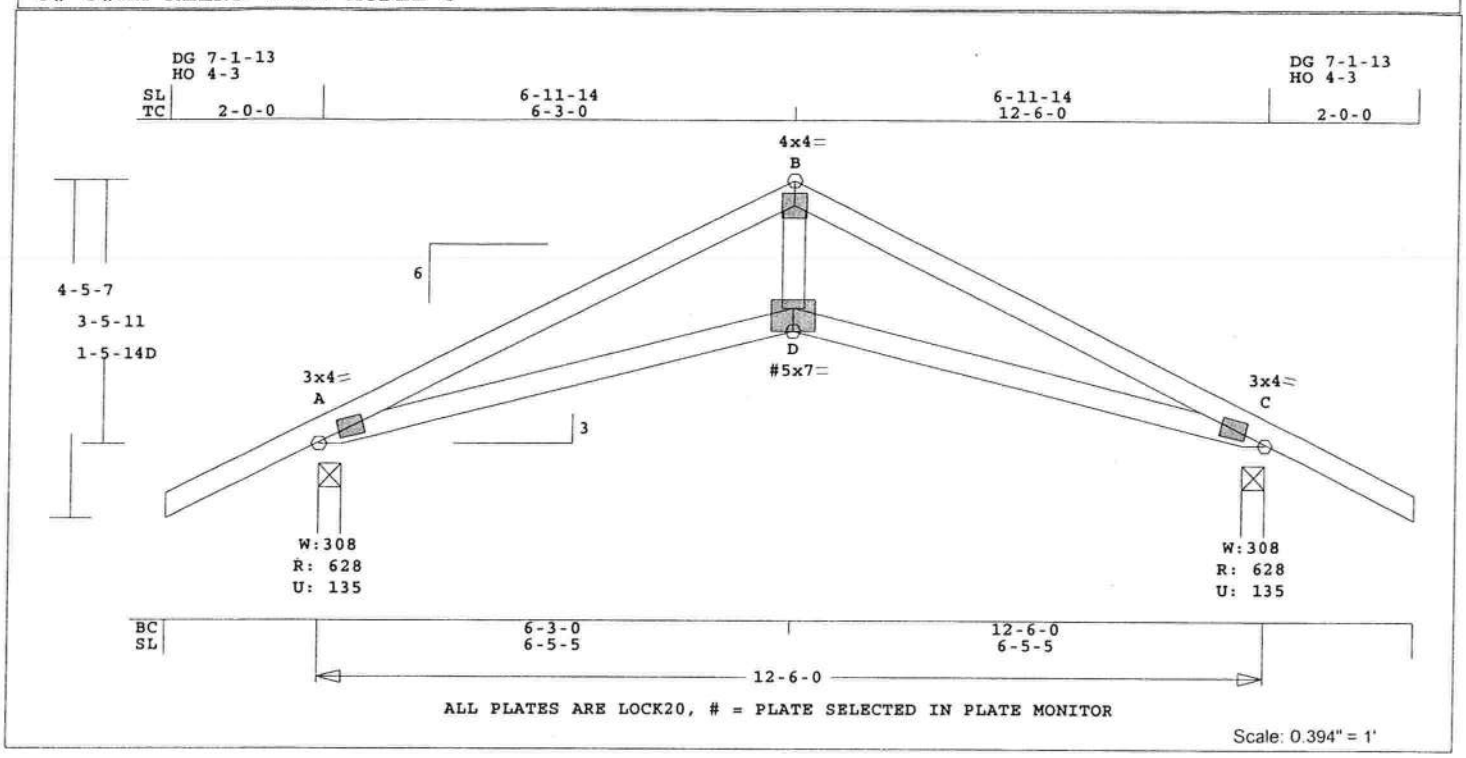
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Girder Step Down Hip
Framing King Jacks
Jack Open Faced
Setback 7- 0- 0
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 3381 Lbs
Max tens. force 3006 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
KH-KEEN3	C1	1	SCIS	120600	6	2- 0- 0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 62.5 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.41	2x 4	SP-#2
BC	0.32	2x 4	SP-#2
WB	0.11	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	12- 6- 0
BC	Cont.	0- 0- 0	12- 6- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	628	135 U	62 R
C	628	135 U	62 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.41	1115 C	0.11 0.30
B -C	0.41	1115 C	0.11 0.30
--------Bottom Chords---------			
A -D	0.32	1036 T	0.17 0.15
D -C	0.32	1036 T	0.17 0.15
------------Webs------------			
D -B	0.11	646 T	

TL Defl -0.06" in A -D L/999
LL Defl -0.03" in A -D L/999

Hz Disp	LL	DL	TL
Jt C	0.02"	0.02"	0.05"

Shear // Grain in A -B 0.27

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.76
B	LOCK	4.0x 4.0	Ctr	Ctr	0.54
C	LOCK	3.0x 4.0	Ctr	Ctr	0.76
D#	LOCK	5.0x 7.0	Ctr	-1.1	0.41

= Plate Monitor used

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

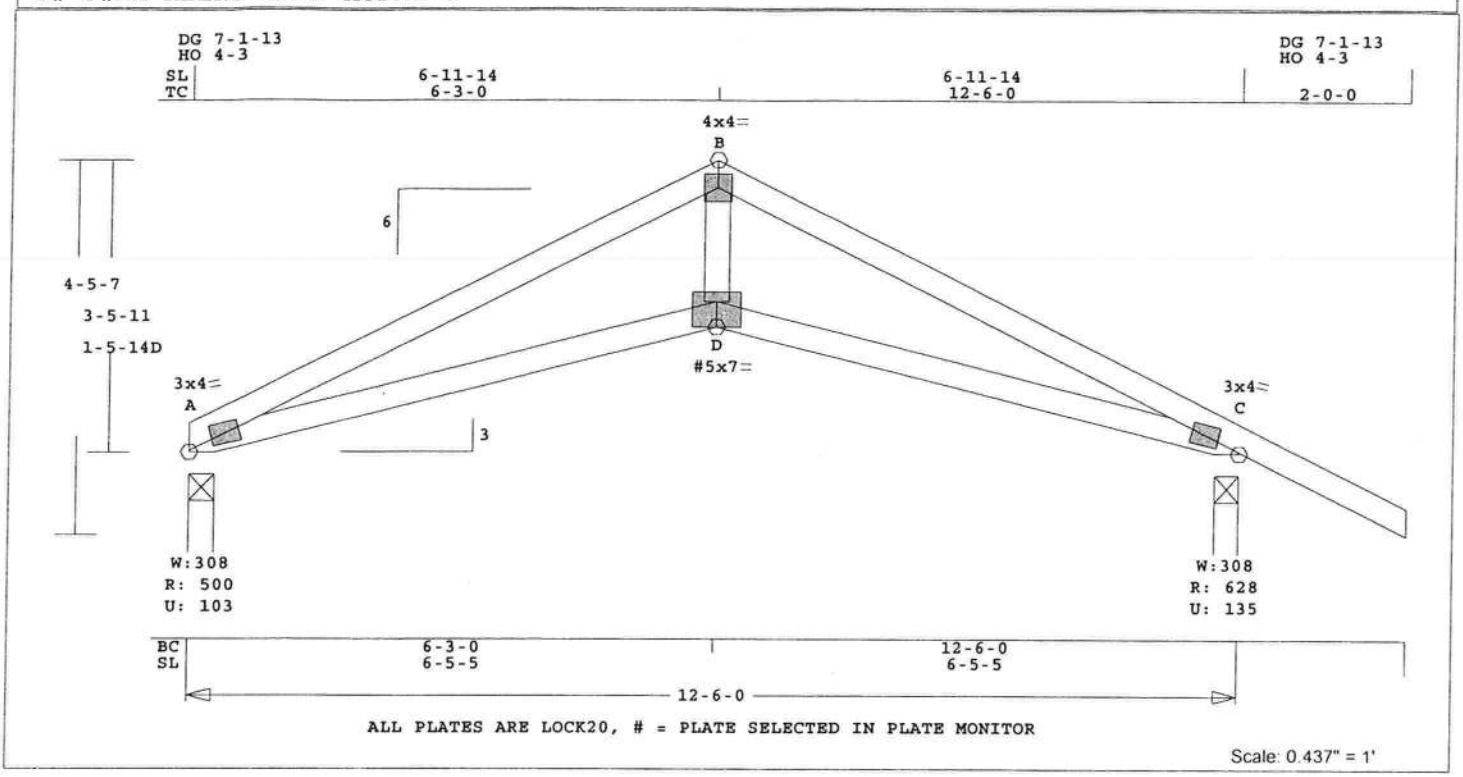
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1115 Lbs
Max tens. force 1036 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	C2	7	SCIS	120600	6	0	2- 0- 0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 58.3 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.41	2x 4	SP-#2
BC	0.32	2x 4	SP-#2
WB	0.11	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	12- 6- 0
BC	Cont.	0- 0- 0	12- 6- 0

psf-Ld	Dead	Live	
TC	10.0	20.0	
BC	10.0	0.0	
TC+BC	20.0	20.0	
Total	40.0	Spacing	24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	500	103 U	62 R
C	628	135 U	62 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI	Bnd
----------Top Chords----------					
A -B	0.41	1115 C	0.11		0.30
B -C	0.41	1115 C	0.11		0.30
--------Bottom Chords---------					
A -D	0.32	1036 T	0.17		0.15
D -C	0.32	1036 T	0.17		0.15
------------Webs------------					
D -B	0.11	646 T			

TL Defl -0.06" in A -D L/999
LL Defl -0.03" in A -D L/999

Hz Disp	LL	DL	TL
Jt C	0.02"	0.02"	0.05"

Shear // Grain in A -B 0.27

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.76
B	LOCK	4.0x 4.0	Ctr	Ctr	0.54
C	LOCK	3.0x 4.0	Ctr	Ctr	0.76
D#	LOCK	5.0x 7.0	Ctr	-1.1	0.41

\# = Plate Monitor used

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

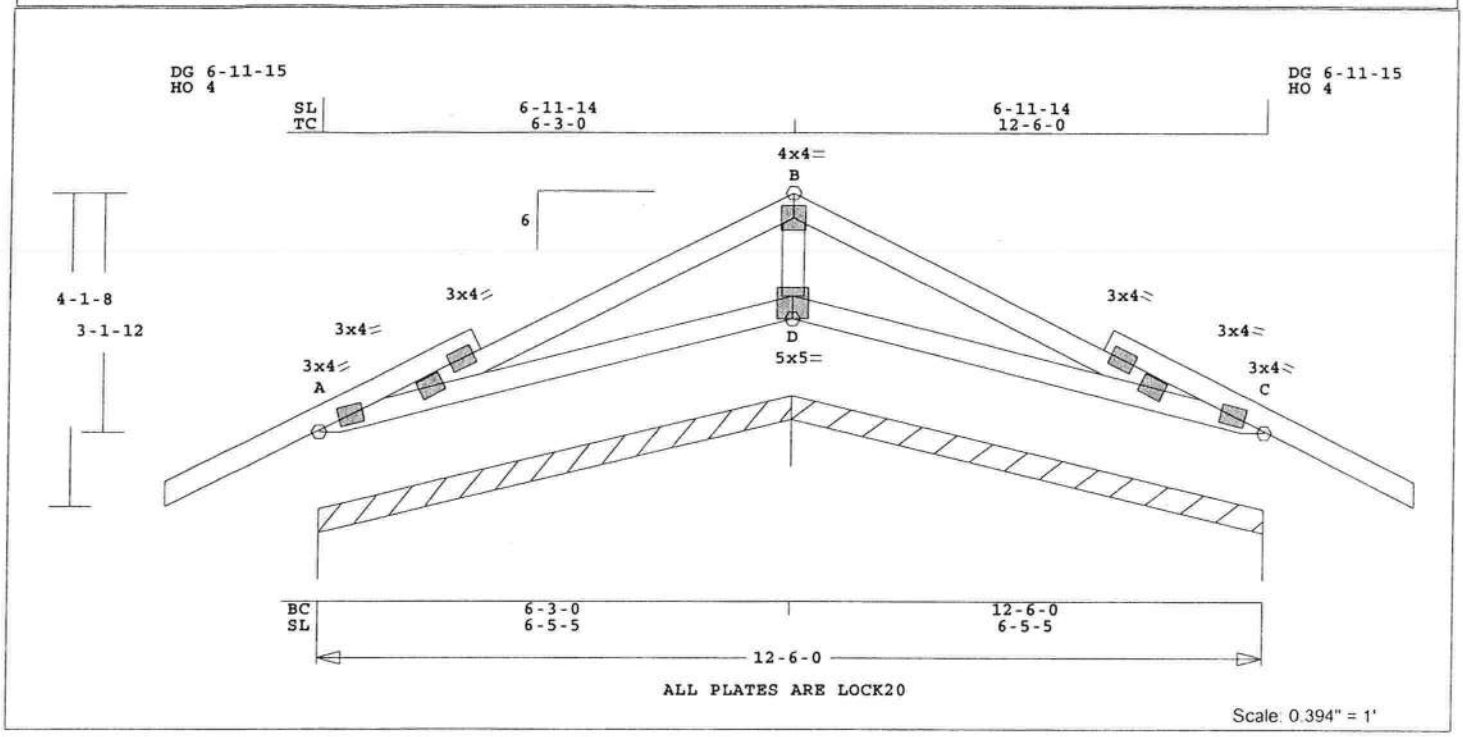
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
NOTE: USER MODIFIED PLATES
This design may have plates selected through a plate monitor.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1115 Lbs
Max tens. force 1036 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	C3	1	SCIS	120600	6	0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 66.9 LBS

Online Plus -- Version 21.0.002
RUN DATE: 09-APR-07

	CSI	-Size-	----Lumber----
TC	0.25	2x 4	SP-#2
BC	0.13	2x 4	SP-#2
WB	0.02	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	12- 6- 0
BC	Cont.	0- 0- 0	12- 6- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
D	622	101 U	55 R
D	529	83 U	55 R

Jt	Brg Size	Required
D	75.0"	0"-to- 75"
D	75.0"	75"-to- 150"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -B	0.24	538 T	0.06 0.18
B -C	0.25	551 T	0.06 0.19
Bottom Chords			
A -D	0.12	109 T	0.00 0.12
D -C	0.13	408 T	0.07 0.06
Webs			
D -B	0.02	138 T	

TL Defl 0.00" in I -G L/999
LL Defl 0.00" in I -G L/999

Hz Disp	LL	DL	TL
Jt C	0.00"	0.00"	0.00"

Shear // Grain in A -B 0.20

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.76
B	LOCK	4.0x 4.0	Ctr	Ctr	0.54
C	LOCK	3.0x 4.0	Ctr	Ctr	0.76
D	LOCK	5.0x 5.0	Ctr	-1.1	0.41

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

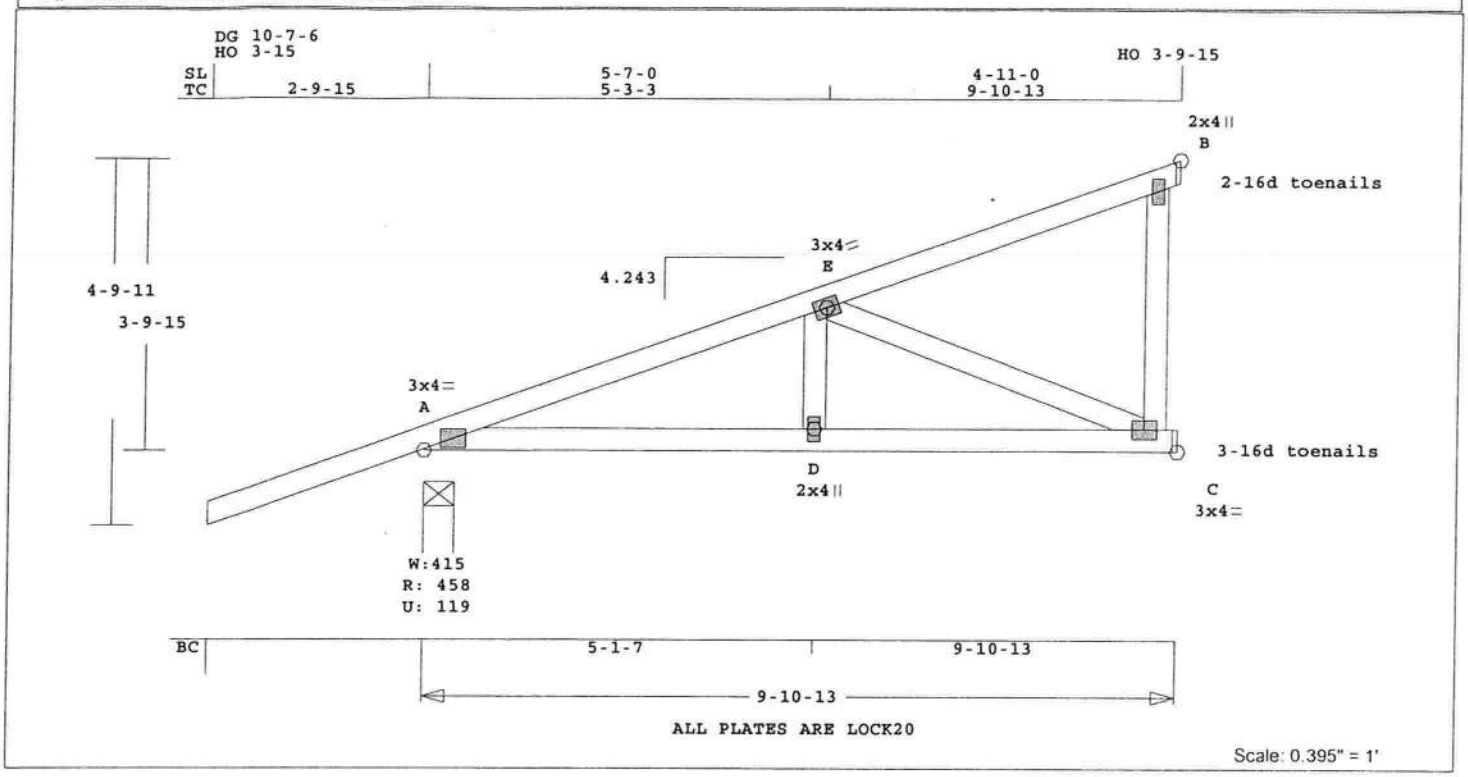
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004

WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 424 Lbs
Max tens. force 551 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	CJ1	3	MONO	91013	4.243	2- 9-15	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 61.9 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.46	2x 4	SP-#2
BC	0.27	2x 4	SP-#2
WB	0.19	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	9-10-13
BC	Cont.	0- 0- 0	9-10-13

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	458	119 U	108 R
C	348	29 U	
B	240	108 U	151 R

Jt	Brg Size	Required
A	4.9"	1.5"
C	1.5"	1.5"
B	1.5"	1.5"

LC# 1 Girder Loading
Dur Fctrs - Lbr 1.25 Plt 1.25

plf -	Dead	Live*	From	To
TC V	20	40	0.0'	9.9'
BC V	20	0	0.0'	9.9'
TC V	-20	-40	0.0'	
	22	45		9.9'
BC V	-20	0	0.0'	
	22	0		9.9'

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -E	0.38	632 C	0.04 0.34
E -B	0.46	92 T	0.00 0.46
Bottom Chords			
A -D	0.23	612 T	0.07 0.16
D -C	0.27	612 T	0.07 0.20
Webs			
D -E	0.03	234 T	
E -C	0.19	661 C	
C -B	0.06	0 T	WindLd

TL Defl -0.02" in A -D L/999
LL Defl -0.01" in A -D L/999
Shear // Grain in E -B 0.32

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.64
E	LOCK	3.0x 4.0	Ctr	Ctr	0.43
B	LOCK	2.0x 4.0	Ctr	Ctr	0.38
D	LOCK	2.0x 4.0	Ctr	Ctr	0.38
C	LOCK	3.0x 4.0	Ctr	Ctr	0.54

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

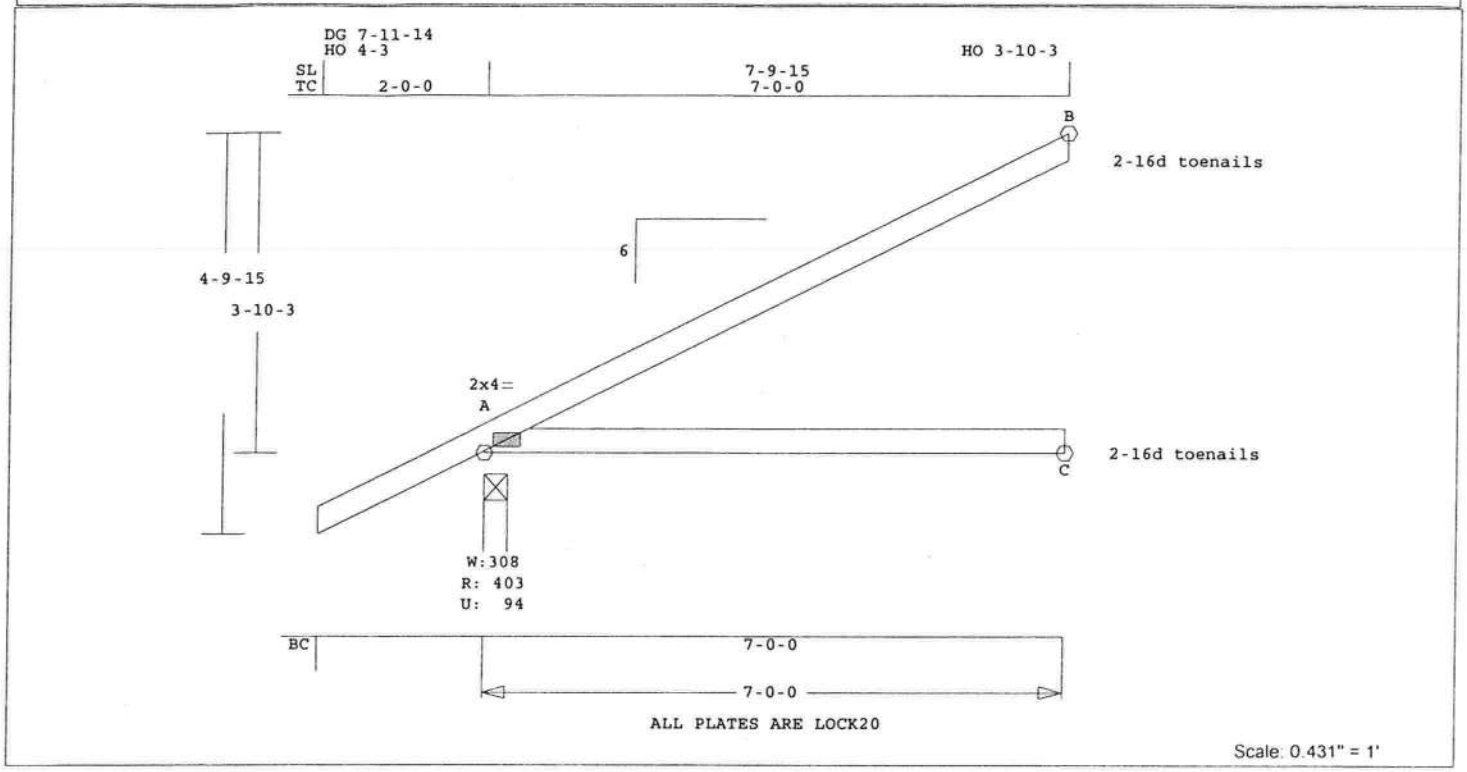
For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Girder King Jack
Loading TC and BC
Setback 7- 0- 0
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Use properly rated hangers for loads framing into girder truss.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 661 Lbs
Max tens. force 612 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	J1	15	JCA2	70000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 32.5 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.63	2x 4	SP-#2
BC	0.49	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	7- 0- 0
BC	Cont.	0- 0- 0	7- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	404	95 U	336 R
C	132		
B	196	108 U	86 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"
B	3.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.63	197 C	0.00 0.63
--------Bottom Chords---------			
A -C	0.49	0 T	0.00 0.49

TL Defl -0.03" in A -C L/999
LL Defl -0.02" in A -C L/999
Shear // Grain in A -B 0.33

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt Type	Plt Size	X	Y	JSI
A LOCK	2.0x 4.0	Ctr	Ctr	0.69

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

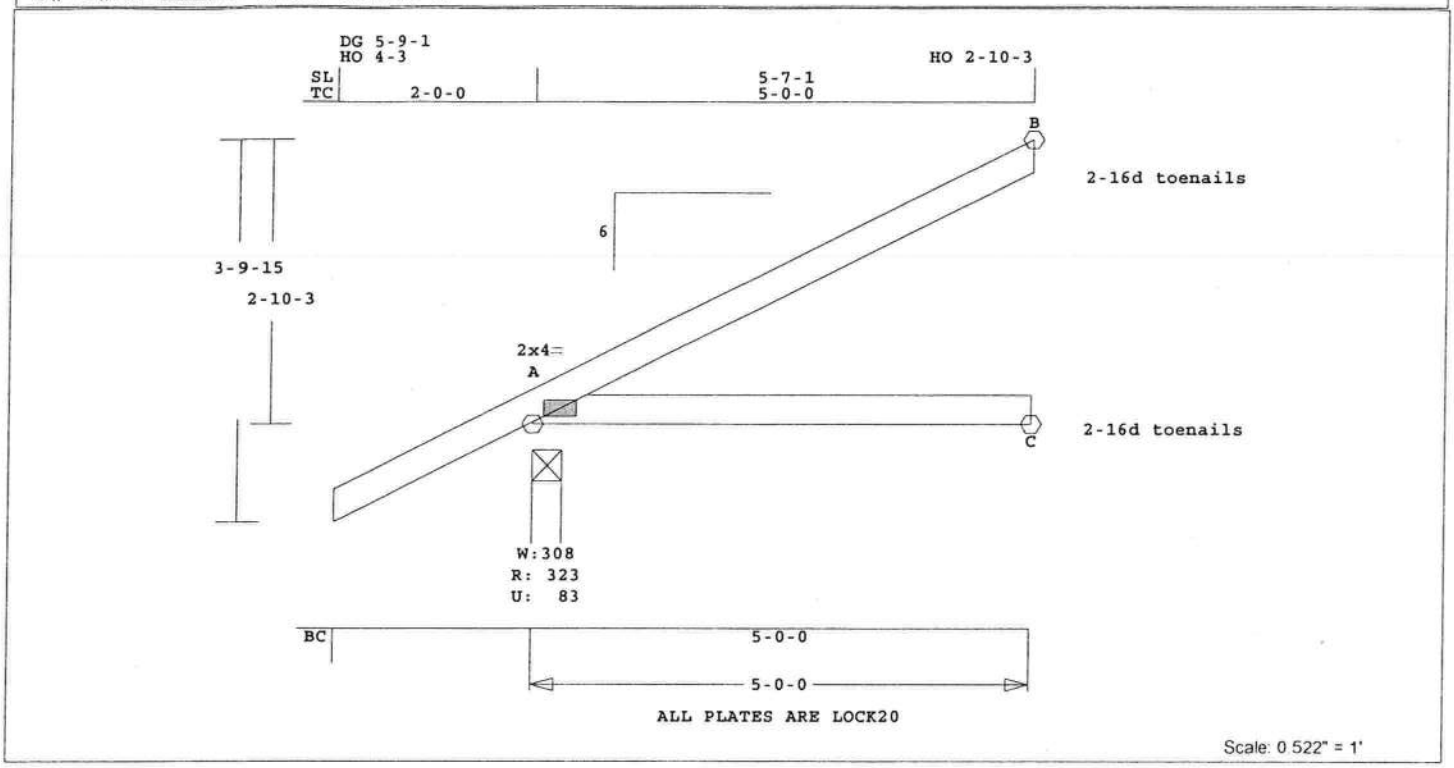
For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 197 Lbs
Max tens. force 53 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	J2	6	JCA2	50000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 24.5 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.38	2x 4	SP-#2
BC	0.29	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	5- 0- 0
BC	Cont.	0- 0- 0	5- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	324	83 U	278 R
C	94		
B	142	78 U	61 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"
B	3.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.38	163 C	0.00 0.38
--------Bottom Chords---------			
A -C	0.29	0 T	0.00 0.29

TL Defl -0.01" in A -C L/999
LL Defl -0.01" in A -C L/999
Shear // Grain in A -B 0.26

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt Type	Plt Size	X	Y	JSI
A LOCK	2.0x 4.0	Ctr	Ctr	0.65

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

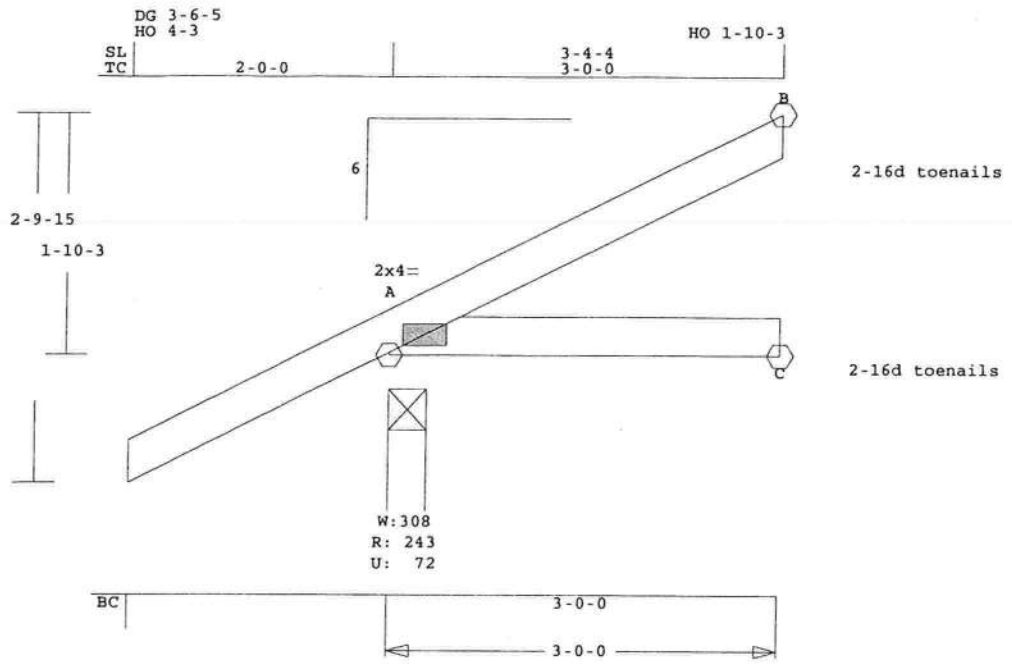
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 163 Lbs
Max tens. force 37 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Date Sealed: 4/9/2007

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	J3	6	JCA2	30000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Scale: 0.677" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 16.5 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.12	2x 4	SP-#2
BC	0.11	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	3- 0- 0
BC	Cont.	0- 0- 0	3- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	243	72 U	197 R
C	56		
B	88	49 U	36 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"
B	3.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.12	106 C	0.00 0.12
--------Bottom Chords---------			
A -C	0.11	0 T	0.00 0.11

TL Defl 0.00" in A -C L/999
LL Defl 0.00" in A -C L/999
Shear // Grain in A -B 0.16

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt Type	Plt Size	X	Y	JSI
A LOCK	2.0x 4.0	Ctr	Ctr	0.65

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

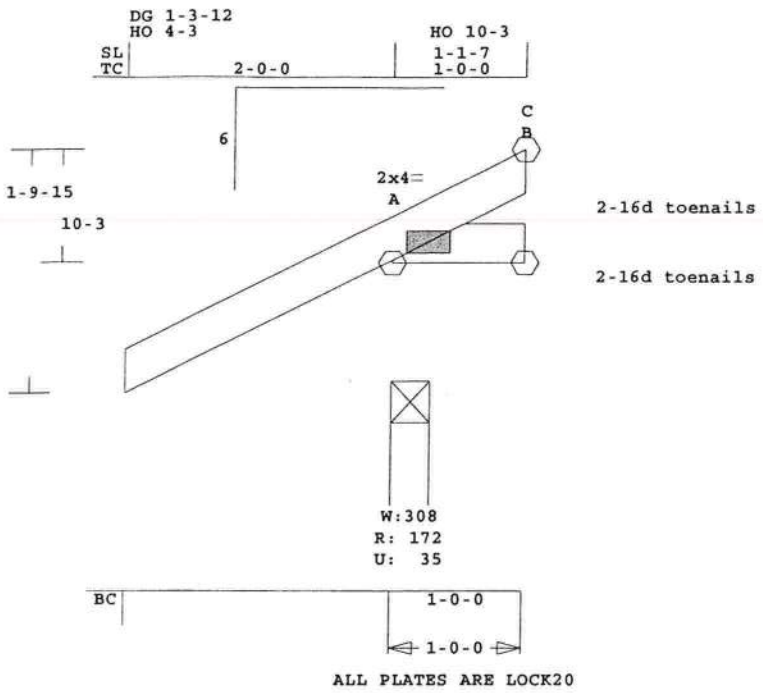
For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 106 Lbs
Max tens. force 21 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	J4	6	JCA2	10000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



ALL PLATES ARE LOCK20

Scale: 0.691" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 8.5 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.01	2x 4	SP-#2
BC	0.01	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	1- 0- 0
BC	Cont.	0- 0- 0	1- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	172	35 U	58 R
B	20	11 U	
C	14	1 U	11 R

Jt	Brg Size	Required
A	3.5"	1.5"
B	1.5"	1.5"
C	1.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.01	24 C	0.00 0.01
--------Bottom Chords---------			
A -C	0.01	10 T	0.00 0.01

TL Defl 0.00" in A -C L/999
LL Defl 0.00" in A -C L/999
Shear // Grain in A -B 0.04

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt Type	Plt Size	X	Y	JSI
A LOCK	2.0x 4.0	Ctr	Ctr	0.65

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

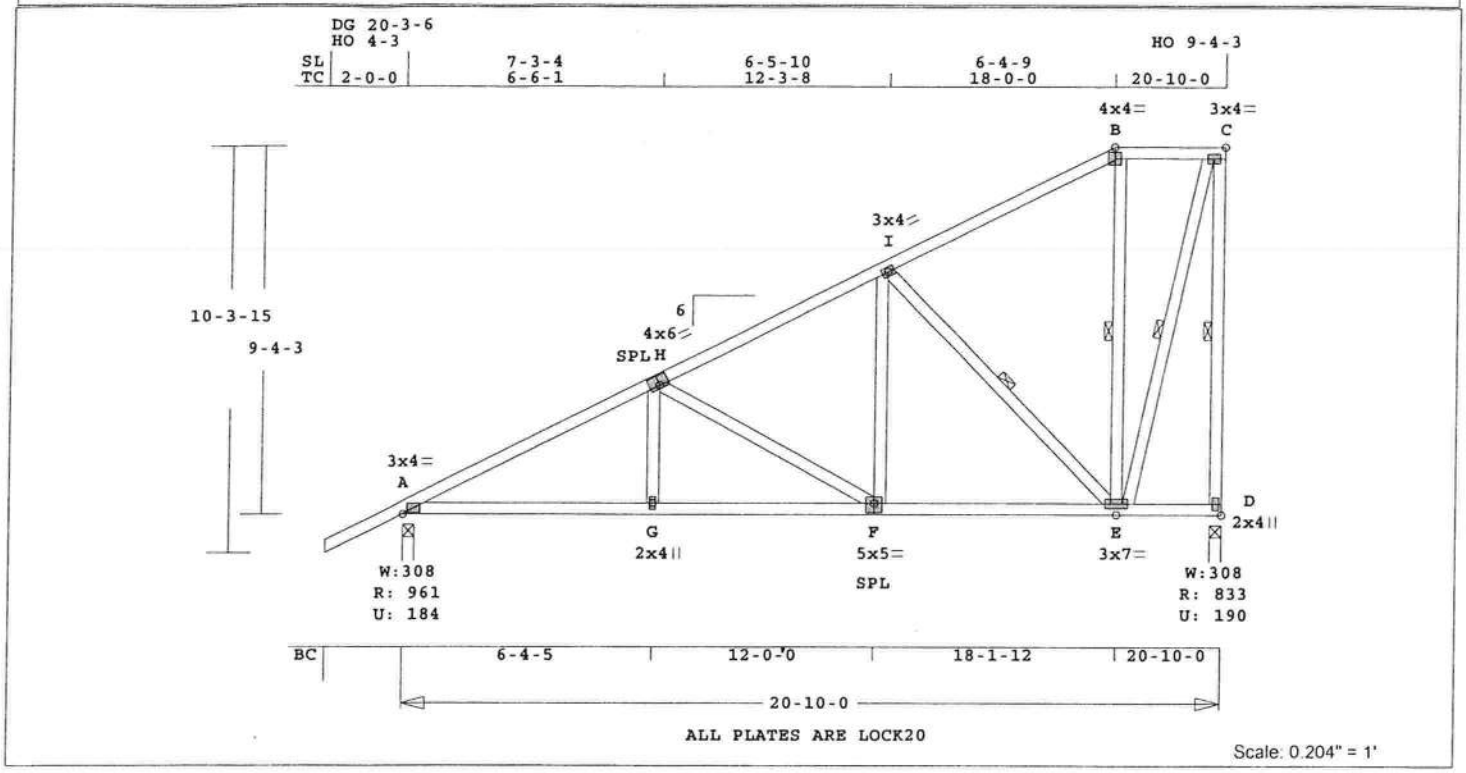
For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 24 Lbs
Max tens. force 10 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	M1	2	HHIP	20100	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 181.4 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.41	2x 4	SP-#2
BC	0.33	2x 4	SP-#2
WB	0.49	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

WB 1 rows CLB on I -E
WB 1 rows CLB on E -B
WB 1 rows CLB on E -C
WB 1 rows CLB on D -C
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	185 U	193 R
D	833	191 U	384 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -H	0.35	1312 C	0.08 0.27
H -I	0.41	793 C	0.06 0.35
I -B	0.38	289 C	0.03 0.35
B -C	0.18	371 T	0.04 0.14
--------Bottom Chords---------			
A -G	0.33	1180 T	0.19 0.14
G -F	0.31	1180 T	0.19 0.12
F -E	0.25	711 T	0.07 0.18
E -D	0.13	302 T	0.00 0.13
------------Webs------------			
G -H	0.03	245 T	
H -F	0.28	536 C	
F -I	0.07	437 T	
I -E	0.17	710 C	1 Br
E -B	0.04	188 T	1 Br
E -C	0.15	791 T	1 Br
D -C	0.49	819 C WindLd	1 Br

TL Defl -0.07" in A -G L/999
LL Defl -0.03" in A -G L/999
Shear // Grain in I -B 0.23

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
H	LOCK	4.0x 6.0	-0.5	0.9	0.57
I	LOCK	3.0x 4.0	Ctr	Ctr	0.58
B	LOCK	4.0x 4.0	Ctr	Ctr	0.87
C	LOCK	3.0x 4.0	Ctr	Ctr	0.70
G	LOCK	2.0x 4.0	Ctr	Ctr	0.40
F	LOCK	5.0x 5.0	Ctr	-0.5	0.58
E	LOCK	3.0x 7.0	Ctr	Ctr	0.73
D	LOCK	2.0x 4.0	Ctr	Ctr	0.58

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR

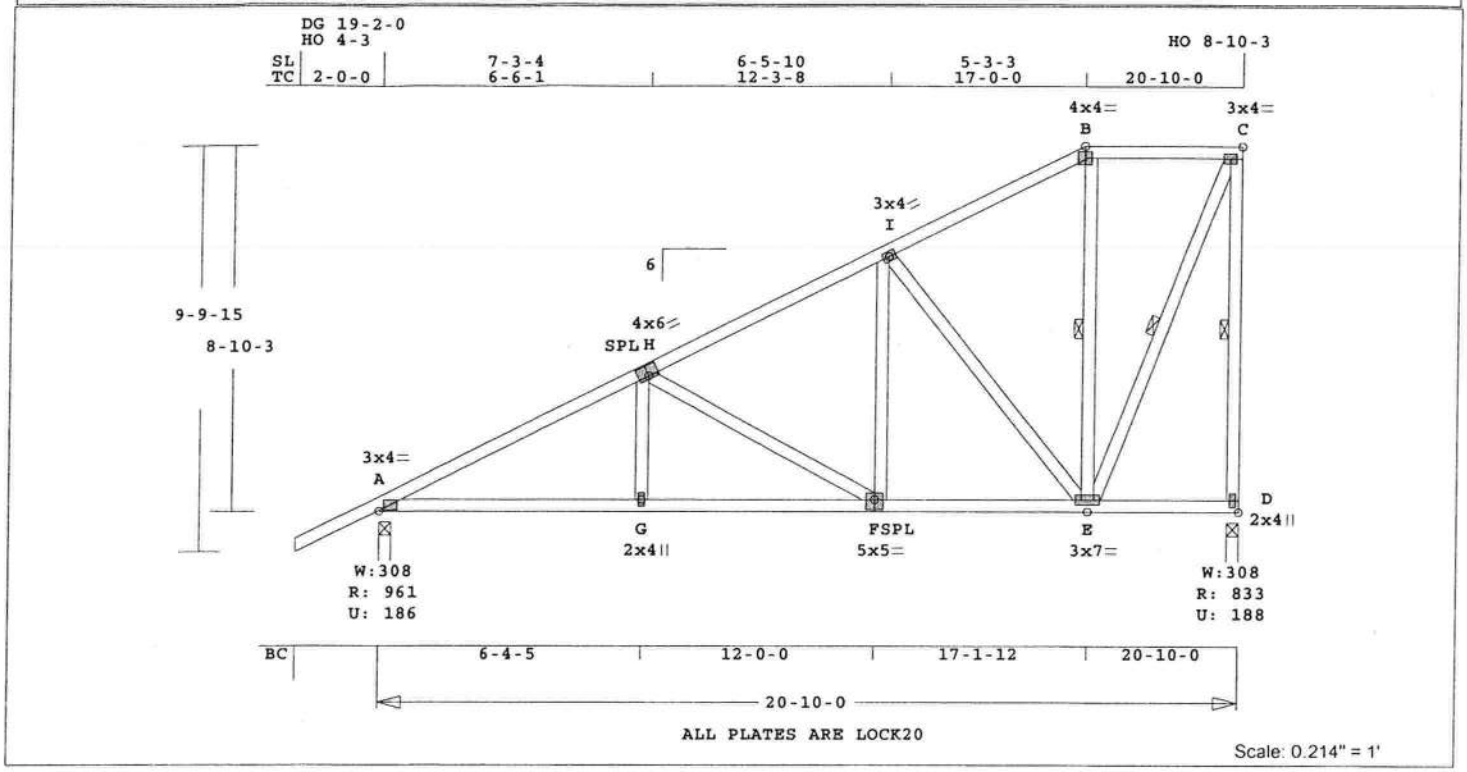
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1312 Lbs
Max tens. force 1180 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	M2	1	HHIP	201000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



ALL PLATES ARE LOCK20

Scale: 0.214" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 177.8 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.37	2x 4	SP-#2
BC	0.32	2x 4	SP-#2
WB	0.49	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

WB 1 rows CLB on E -B
WB 1 rows CLB on E -C
WB 1 rows CLB on D -C
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	187 U	182 R
D	833	189 U	363 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -H	0.37	1316 C	0.08 0.29
H -I	0.35	787 C	0.06 0.29
I -B	0.32	345 T	0.04 0.28
B -C	0.14	408 T	0.05 0.09
--------Bottom Chords---------			
A -G	0.32	1183 T	0.19 0.13
G -F	0.31	1183 T	0.19 0.12
F -E	0.22	702 T	0.07 0.15
E -D	0.10	285 T	0.00 0.10
------------Webs------------			
G -H	0.03	251 T	
H -F	0.29	550 C	
F -I	0.06	417 T	
I -E	0.49	649 C	
E -B	0.02	130 T	1 Br
E -C	0.14	761 T	1 Br
D -C	0.42	803 C	WindLd 1 Br

TL Defl -0.07" in A -G L/999
LL Defl -0.03" in A -G L/999
Shear // Grain in A -H 0.22

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
H	LOCK	4.0x 6.0	-0.5	0.9	0.57
I	LOCK	3.0x 4.0	Ctr	Ctr	0.58
B	LOCK	4.0x 4.0	Ctr	Ctr	0.87
C	LOCK	3.0x 4.0	Ctr	Ctr	0.70
G	LOCK	2.0x 4.0	Ctr	Ctr	0.40
F	LOCK	5.0x 5.0	Ctr	-0.5	0.58
E	LOCK	3.0x 7.0	Ctr	Ctr	0.61
D	LOCK	2.0x 4.0	Ctr	Ctr	0.58

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

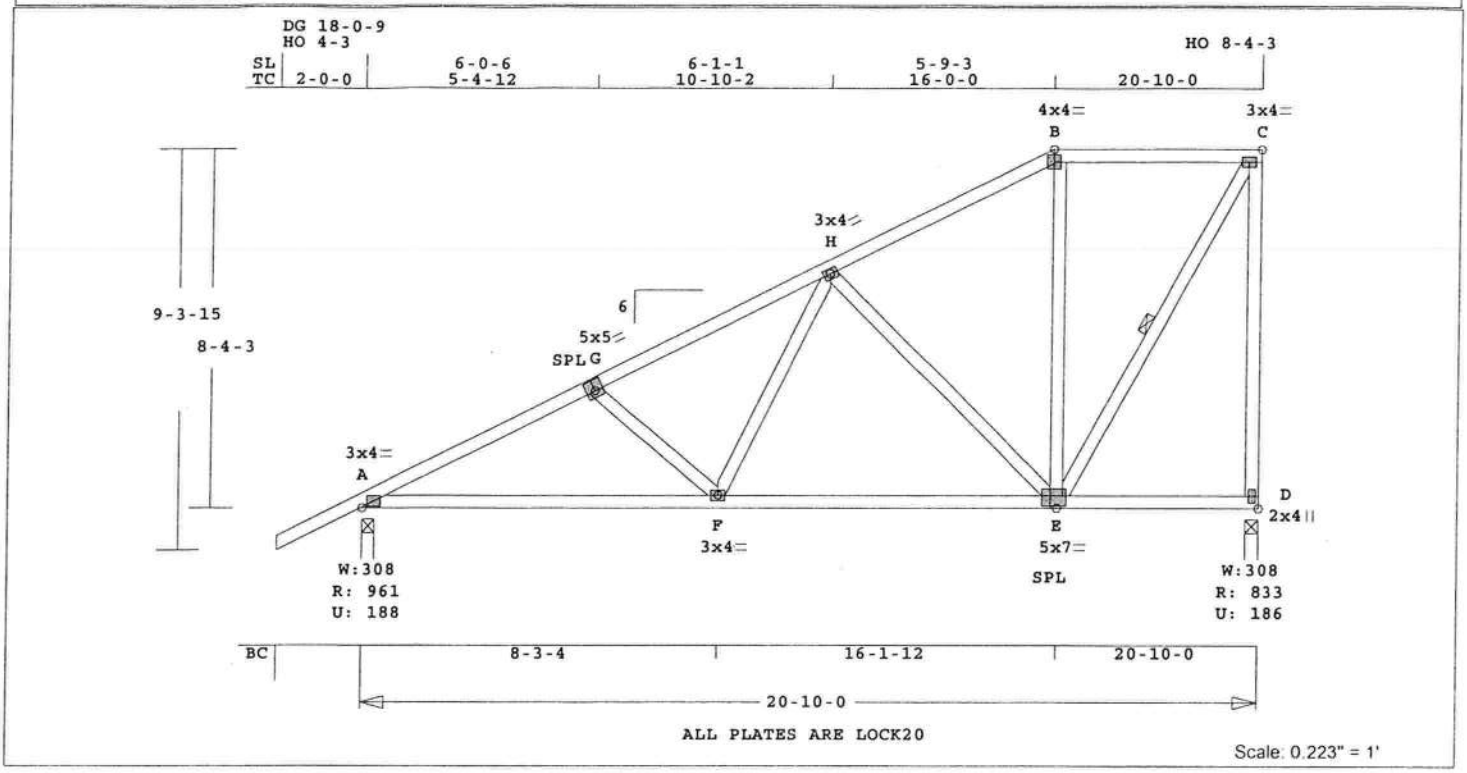
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1316 Lbs
Max tens. force 1183 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	M3	1	HHIP	201000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 164.7 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.38	2x 4	SP-#2
BC	0.48	2x 4	SP-#2
WB	0.65	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

WB 1 rows CLB on E -C
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	189 U	171 R
D	833	187 U	341 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -G	0.30	1344 C	0.09	0.21
G -H	0.38	1084 C	0.08	0.30
H -B	0.34	432 C	0.04	0.30
B -C	0.21	446 T	0.00	0.21
Bottom Chords				
A -F	0.48	1211 T	0.12	0.36
F -E	0.44	793 T	0.08	0.36
E -D	0.24	268 T	0.00	0.24
Webs				
G -F	0.07	336 T		
F -H	0.07	469 T		
H -E	0.42	594 C		
E -B	0.09	148 T		
E -C	0.14	772 T		1 Br
D -C	0.65	801 C	WindLd	

TL Defl -0.07" in A -F L/999
LL Defl -0.03" in A -F L/999
Shear // Grain in H -B 0.21

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
G	LOCK	5.0x 5.0-0.2	0.5		0.57
H	LOCK	3.0x 4.0	Ctr	Ctr	0.54
B	LOCK	4.0x 4.0	Ctr	Ctr	0.87
C	LOCK	3.0x 4.0	Ctr	Ctr	0.70
F	LOCK	3.0x 4.0	Ctr	Ctr	0.43
E	LOCK	5.0x 7.0	1.0-0.5		0.78
D	LOCK	2.0x 4.0	Ctr	Ctr	0.57

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

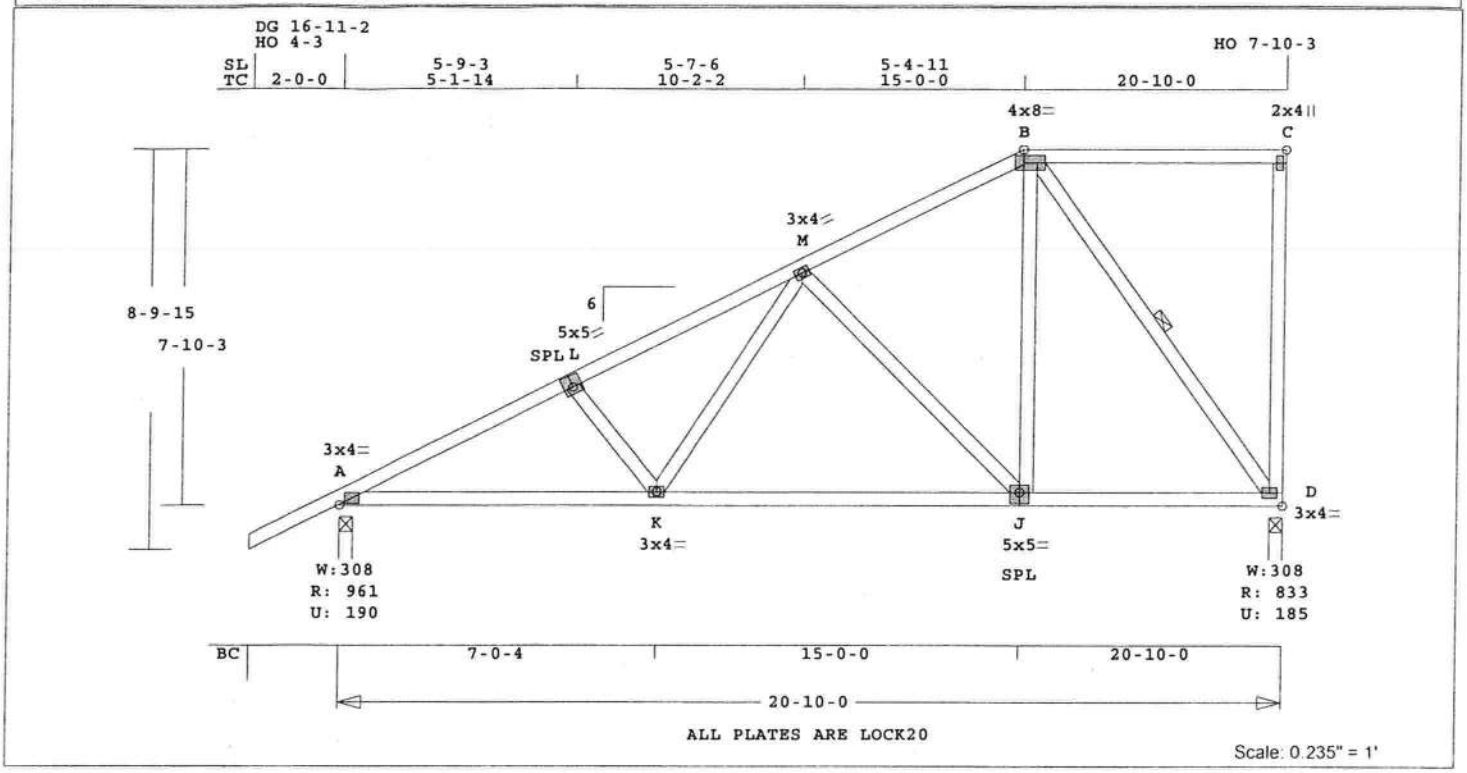
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1344 Lbs
Max tens. force 1211 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	M4	1	HHIP	201000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 160.3 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.36	2x 4	SP-#2
BC	0.43	2x 4	SP-#2
WB	0.33	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

WB 1 rows CLB on B -D
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	190 U	160 R
D	833	185 U	320 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -L	0.28	1374 C	0.09 0.19
L -M	0.33	1191 C	0.09 0.24
M -B	0.29	524 C	0.05 0.24
B -C	0.36	186 T	0.00 0.36
Bottom Chords			
A -K	0.43	1235 T	0.12 0.31
K -J	0.39	830 T	0.08 0.31
J -D	0.34	462 T	0.04 0.30
Webs			
L -K	0.04	302 T	
K -M	0.08	466 T	
M -J	0.32	520 C	
J -B	0.18	549 T	
B -D	0.22	779 C	1 Br
D -C	0.33	164 C	WindLd

TL Defl -0.07" in A -K L/999
LL Defl -0.03" in A -K L/999
Shear // Grain in B -C 0.21

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
L	LOCK	5.0x 5.0-0.2	0.5		0.57
M	LOCK	3.0x 4.0	Ctr	Ctr	0.54
B	LOCK	4.0x 8.0	Ctr	Ctr	0.87
C	LOCK	2.0x 4.0	Ctr	Ctr	0.40
K	LOCK	3.0x 4.0	Ctr	Ctr	0.42
J	LOCK	5.0x 5.0	Ctr-0.5		0.58
D	LOCK	3.0x 4.0	Ctr	Ctr	0.70

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

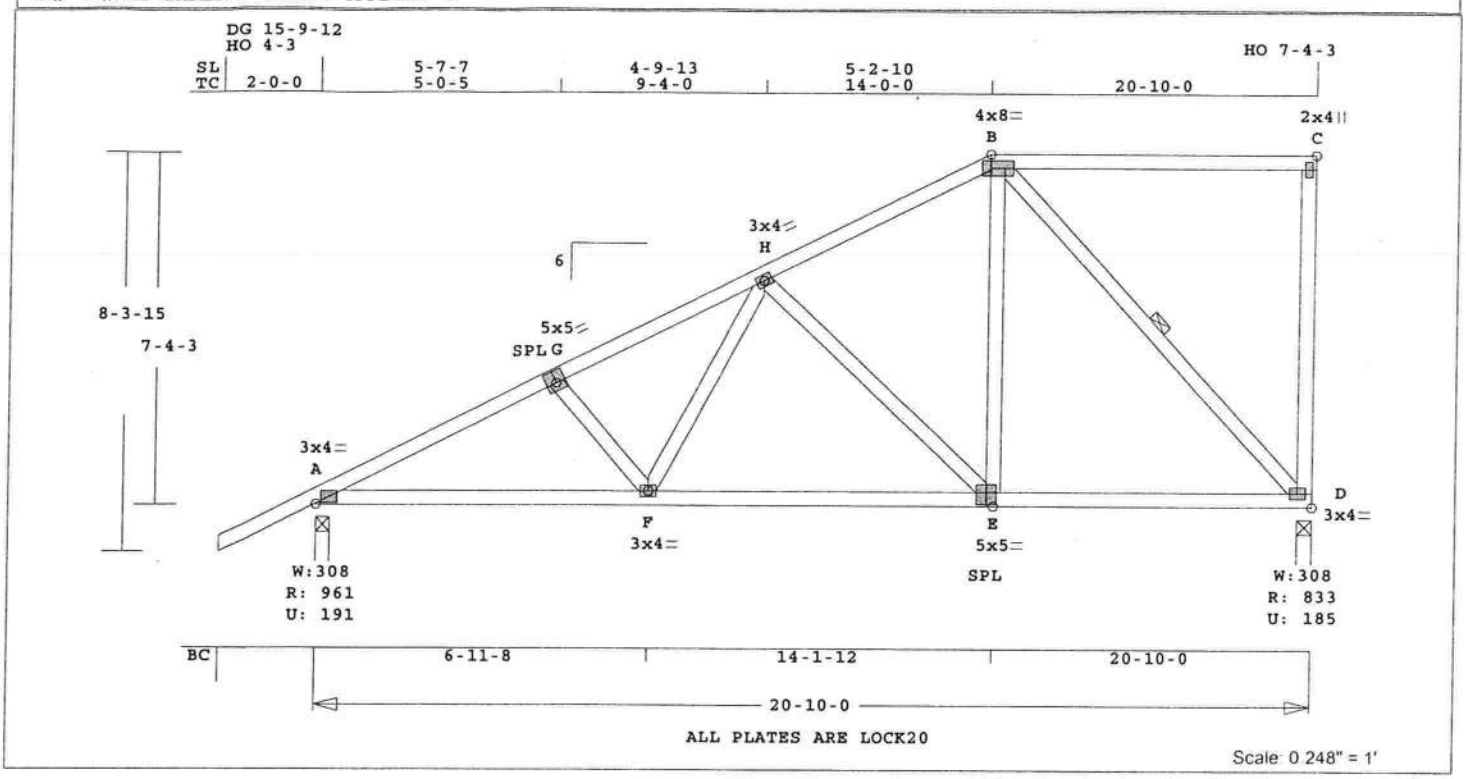
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1374 Lbs
Max tens. force 1235 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	M5	1	HHIP	201000	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 156.5 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.50	2x 4	SP-#2
BC	0.38	2x 4	SP-#2
WB	0.28	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

WB 1 rows CLB on B -D
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	192 U	149 R
D	833	186 U	299 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -G	0.24	1371 C	0.09 0.15
G -H	0.28	1194 C	0.09 0.19
H -B	0.28	613 C	0.00 0.28
B -C	0.50	173 T	0.00 0.50
Bottom Chords			
A -F	0.37	1231 T	0.12 0.25
F -E	0.38	894 T	0.09 0.29
E -D	0.34	549 T	0.05 0.29
Webs			
G -F	0.04	275 T	
F -H	0.07	403 T	
H -E	0.26	473 C	
E -B	0.13	528 T	
B -D	0.24	803 C	1 Br
D -C	0.28	191 C WindLd	

TL Defl -0.07" in A -F L/999
LL Defl -0.04" in A -F L/999
Shear // Grain in B -C 0.25

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
G	LOCK	5.0x 5.0	-0.2	0.5	0.57
H	LOCK	3.0x 4.0	Ctr	Ctr	0.54
B	LOCK	4.0x 8.0	Ctr	Ctr	0.87
C	LOCK	2.0x 4.0	Ctr	Ctr	0.40
F	LOCK	3.0x 4.0	Ctr	Ctr	0.42
E	LOCK	5.0x 5.0	Ctr	-0.5	0.58
D	LOCK	3.0x 4.0	Ctr	Ctr	0.70

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

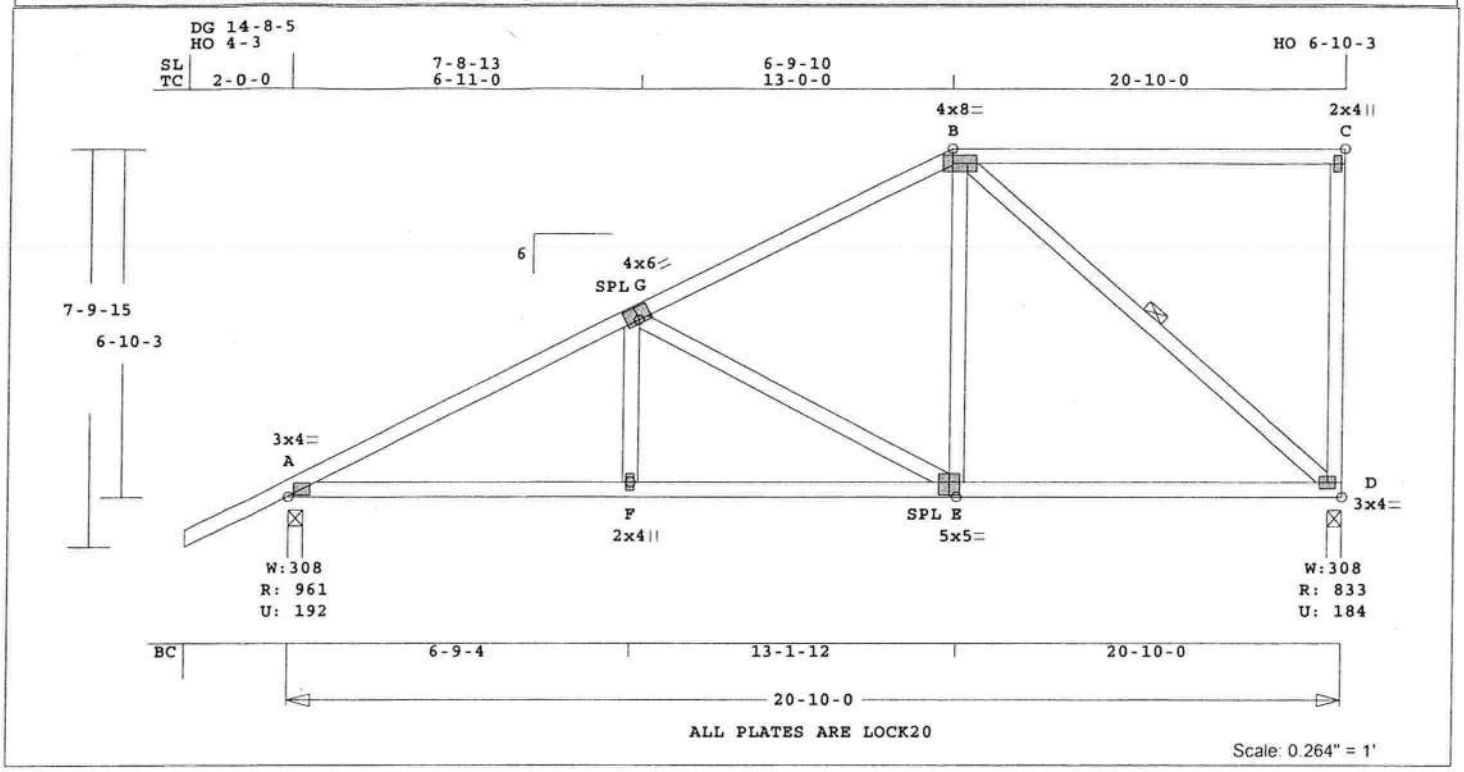
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1371 Lbs
Max tens. force 1231 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	M6	1	HHIP	20'10.0	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 146.9 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.65	2x 4	SP-#2
BC	0.45	2x 4	SP-#2
WB	0.36	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

WB 1 rows CLB on B -D
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	192 U	138 R
D	833	184 U	277 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -G	0.48	1284 C	0.09 0.39
G -B	0.45	722 C	0.06 0.39
B -C	0.65	161 T	0.00 0.65
Bottom Chords			
A -F	0.36	1155 T	0.19 0.17
F -E	0.45	1155 T	0.12 0.33
E -D	0.39	641 T	0.06 0.33
Webs			
F -G	0.03	253 T	
G -E	0.36	575 C	
E -B	0.07	515 T	
B -D	0.27	845 C	1 Br
D -C	0.24	217 C	WindLd

TL Defl -0.08" in A -F L/999
LL Defl -0.04" in A -F L/999
Shear // Grain in B -C 0.30

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
G	LOCK	4.0x 6.0	-0.5	0.9	0.57
B	LOCK	4.0x 8.0	Ctr	Ctr	0.87
C	LOCK	2.0x 4.0	Ctr	Ctr	0.40
F	LOCK	2.0x 4.0	Ctr	Ctr	0.40
E	LOCK	5.0x 5.0	Ctr	-0.5	0.58
D	LOCK	3.0x 4.0	Ctr	Ctr	0.70

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

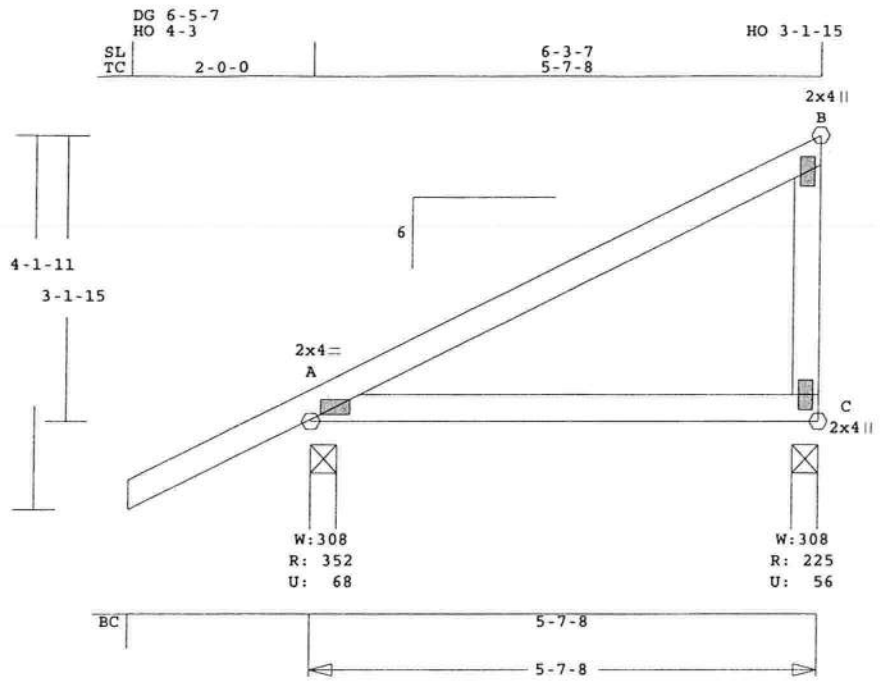
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.

Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1284 Lbs
Max tens. force 1155 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
KH-KEEN3	M8	1	JCA2	5.0708	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



ALL PLATES ARE LOCK20

Scale: 0.469" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 31.8 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.49	2x 4	SP-#2
BC	0.39	2x 4	SP-#2
WB	0.04	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	5- 7- 8
BC	Cont.	0- 0- 0	5- 7- 8

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	353	68 U	120 R
C	225	56 U	116 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 8 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -B	0.49	75 C	0.00 0.49
--------Bottom Chords---------			
A -C	0.39	95 T	0.01 0.38
----------Webs----------			
C -B	0.04	312 T	WindLd

TL Defl -0.02" in A -C L/999
LL Defl -0.01" in A -C L/999
Shear // Grain in A -B 0.30

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	2.0x 4.0	Ctr	Ctr	0.66
B	LOCK	2.0x 4.0	Ctr	Ctr	0.38
C	LOCK	2.0x 4.0	Ctr	Ctr	0.38

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

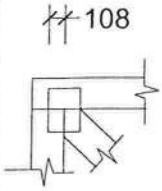
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 152 Lbs
Max tens. force 312 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

ROBBINS ENG. GENERAL NOTES & SYMBOLS

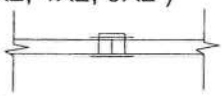
PLATE LOCATION



Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE

(3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

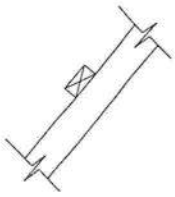
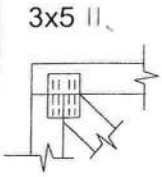


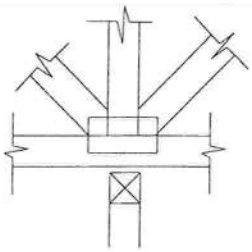
PLATE SIZE AND ORIENTATION



The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6' 8 1/2" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).



W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before erecting this truss. If necessary, shim bearings to assure solid contact with truss.

ROBBINS connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on truss design drawings refer to common wire nails, except as noted.
The attached design drawings were prepared in accordance with " National Design Specifications for Wood Construction" (AF & PA)," National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Robbins Eng. Co. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to BCSI 1-03 as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and " dominoing ". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS FABRICATOR.

Robbins Engineering, Inc.

6904 Parke East Blvd.
Tampa, Fl 33610-4115
Tel: 813-972-1135 Fax: 813-971-6117

www.robbinseng.com

COLUMBIA COUNTY BUILDING DEPARTMENT
CHECKLIST FOR PERMITTING

Revised (9-22-06)

Notarized completed Building Permit Application

Notes:

If an Owner Builder, Notarized Disclosure Statement

Notes:

Recorded Deed or a Notarized Affidavit (form from the Building Dept.)

Notes:

Approved and Signed Site Plan from Environmental Health on the septic

Notes:

Site plan with actual distances of the structure to each property line

Notes:

911 Address form, Contact 386.752.8787 for an appointment

Notes:

Residential or Commercial Checklist completed

Notes:

Driving directions including all road names

Notes:

Well information (on plans or letter from the well driller)

Notes:

Before the 1st inspection Recorded Notice of Commencement signed by owner

Notes:

2 sets of plans (blueprints)

Notes:

2 sets of sealed truss engineering

Notes:

2 sets of energy code & manual J

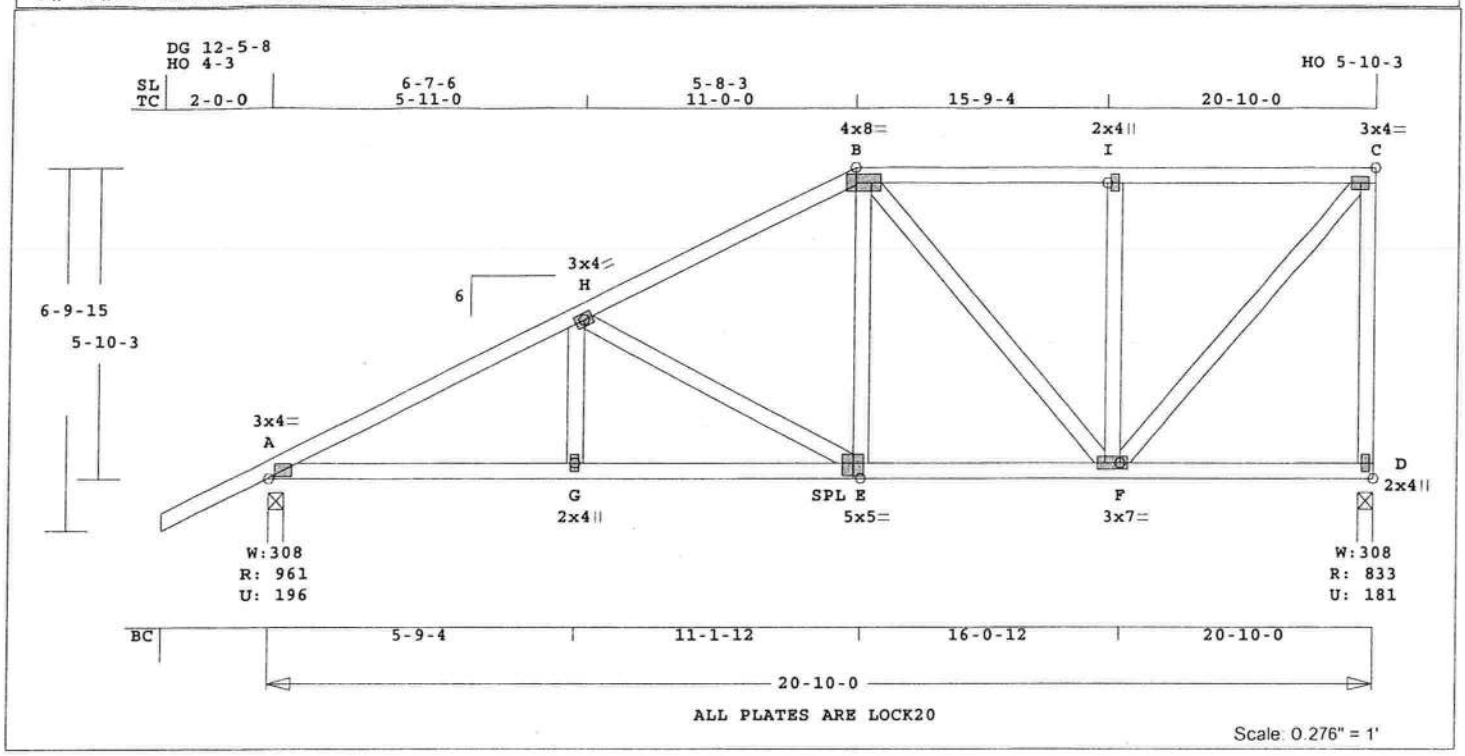
Notes:

2 sets of engineering packets including specs on windows, doors, roof and etc. and/or Product Approval Code.

Notes:

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
KH-KEEN3	M7	1	HHIP	20'10.0	6	2- 0- 0	0	T07040595

U# J#KH-KEEN3 KEEN MODEL 3



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 157.6 LBS

Online Plus -- Version 21.0.002
RUN DATE: 06-APR-07

	CSI	-Size-	----Lumber----
TC	0.40	2x 4	SP-#2
BC	0.30	2x 4	SP-#2
WB	0.32	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	20-10- 0
BC	Cont.	0- 0- 0	20-10- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	961	196 U	117 R
D	833	181 U	234 R

Jt	Brg Size	Required
A	3.5"	1.5"
D	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -H	0.40	1351 C	0.10	0.30
H -B	0.37	873 C	0.07	0.30
B -I	0.27	576 C	0.00	0.27
I -C	0.27	576 C	0.00	0.27
--------Bottom Chords---------				
A -G	0.30	1213 T	0.20	0.10
G -E	0.29	1213 T	0.20	0.09
E -F	0.22	770 T	0.08	0.14
F -D	0.14	183 T	0.00	0.14
------------Webs------------				
G -H	0.03	227 T		
H -E	0.22	497 C		
E -B	0.06	371 T		
B -F	0.19	296 C		
F -I	0.13	342 C		
F -C	0.32	884 T		
D -C	0.30	791 C	WindLd	

TL Defl -0.06" in A -G L/999
LL Defl -0.03" in A -G L/999
Shear // Grain in I -C 0.22

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORTS: SBCCI 9761
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	LOCK	3.0x 4.0	Ctr	Ctr	0.78
H	LOCK	3.0x 4.0	Ctr	Ctr	0.58
B	LOCK	4.0x 8.0	Ctr	Ctr	0.87
I	LOCK	2.0x 4.0	Ctr	Ctr	0.40
C	LOCK	3.0x 4.0	Ctr	Ctr	0.70
G	LOCK	2.0x 4.0	Ctr	Ctr	0.40
E	LOCK	5.0x 5.0	Ctr	-0.5	0.58
F	LOCK	3.0x 7.0	Ctr	Ctr	0.65
D	LOCK	2.0x 4.0	Ctr	Ctr	0.51

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1351 Lbs
Max tens. force 1213 Lbs
Quality Control Factor 1.25

Truss Design Engineer: Thomas A. Albani
License #: 39380
Address: P.O. Box 280055, Tampa, FL 33682

COLUMBIA COUNTY BUILDING DEPARTMENT

Revised 10-01-05

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ——— 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE ———110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☑	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. *The following information must be shown as per section 1603.1.4 FBC* a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
		Elevations including:
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation

☐ ☐ d) Location, size and height above roof of chimneys.
☐ ☐ e) Location and size of skylights
☐ ☐ f) Building height
☐ ☐ e) Number of stories

Floor Plan including:

☐ ☐ a) Rooms labeled and dimensioned.
☐ ☐ b) Shear walls identified.
☐ ☐ c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
☐ ☐ d) Show safety glazing of glass, where required by code.
☐ ☐ e) Identify egress windows in bedrooms, and size.
☐ ☐ f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
☐ ☐ g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
☐ ☐ h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

☐ ☐ a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.
☐ ☐ b) All posts and/or column footing including size and reinforcing
☐ ☐ c) Any special support required by soil analysis such as piling
☐ ☐ d) Location of any vertical steel.

Roof System:

☐ ☐ a) Truss package including:
1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

☐ ☐ b) Conventional Framing Layout including:
1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

☐ ☐ a) Masonry wall
1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. *All required connectors with uplift rating* and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:

a. Attic space
b. Exterior wall cavity
c. Crawl space (if applicable)

☑ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

☐ ☐ c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

☐ ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☑ ☐ **Plumbing Fixture layout**

Electrical layout including:

☑ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☑ ☐ b) Ceiling fans

☐ ☐ c) Smoke detectors

☑ ☐ d) Service panel and sub-panel size and location(s)

☑ ☐ e) Meter location with type of service entrance (overhead or underground)

☑ ☐ f) Appliances and HVAC equipment

☑ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

☑ ☐ h) Exhaust fans in bathroom

HVAC information

☑ ☐ a) Energy Calculations (dimensions shall match plans)

☑ ☐ b) Manual J sizing equipment or equivalent computation

☐ ☐ c)Gas System Type (LP or Natural) Location and BTU demand of equipment

☐ ☐ **Disclosure Statement for Owner Builders**

☑ ☐ ***Notice Of Commencement Required Before Any Inspections Will Be Done**

☑ ☐ **Private Potable Water**

a) Size of pump motor
b) Size of pressure tank
c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.

2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 **(Toilet facilities shall be provided for construction workers)**

4. **City Approval: If the project is to be located within the city limits of the Town of Fort White,** prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. **(386) 497-2321**

5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
A development permit will also be required. Development permit cost is **$50.00**

6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit **($25.00)** must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver **($50.00)**. All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**

7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS –PLEASE DO NOT ASK

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

D. L. K (KEITH FRAMING) 4/25/07

APPLICANT SIGNATURE DATE

R-1305 01-04

Residential System Sizing Calculation

Summary

The Keen Model III

, FL

Project Title:
703052K&HFramingVinylSidingInc

Class 3 Rating
Registration No. 0
Climate: North

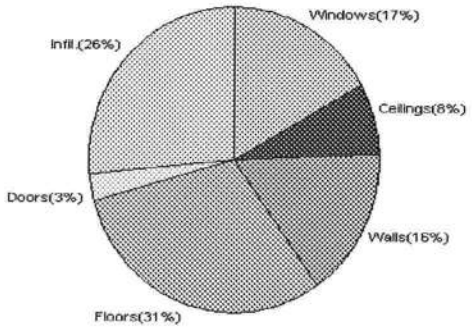
4/9/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**27585**	**Btuh**	**Total cooling load calculation**	**20143**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.0	32000	Sensible (SHR = 0.75)	154.6	24000
Heat Pump + Auxiliary(0.0kW)	116.0	32000	Latent	173.1	8000
			Total (Electric Heat Pump)	158.9	32000

WINTER CALCULATIONS

Winter Heating Load (for 1672 sqft)

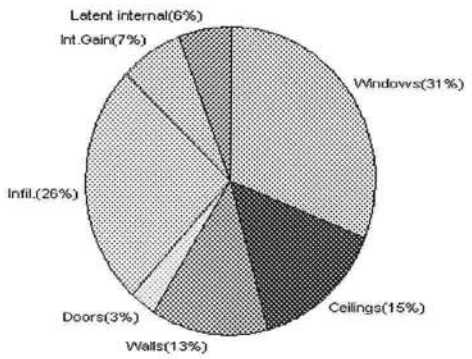
Load component			Load	
Window total	145	sqft	4668	Btuh
Wall total	1339	sqft	4397	Btuh
Door total	60	sqft	777	Btuh
Ceiling total	1776	sqft	2093	Btuh
Floor total	193	sqft	8426	Btuh
Infiltration	178	cfm	7224	Btuh
Duct loss			0	Btuh
Subtotal			**27585**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**27585**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1672 sqft)

Load component			Load	
Window total	145	sqft	6250	Btuh
Wall total	1339	sqft	2620	Btuh
Door total	60	sqft	588	Btuh
Ceiling total	1776	sqft	2941	Btuh
Floor total			0	Btuh
Infiltration	94	cfm	1743	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**15521**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3422	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**4622**	**Btuh**
TOTAL HEAT GAIN			**20143**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 4-9-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

The Keen Model III
, FL

Project Title:
703052K&HFramingVinylSidingInc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

4/9/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
3	2, Clear, Metal, 0.87	SE	60.0	32.2	1931 Btuh
4	2, Clear, Metal, 0.87	SE	8.0	32.2	258 Btuh
5	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	SW	6.0	32.2	193 Btuh
	Window Total		145(sqft)		4668 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1039	3.3	3412 Btuh
2	Frame - Wood - Adj(0.09)	13.0	300	3.3	985 Btuh
	Wall Total		1339		4397 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1776	1.2	2093 Btuh
	Ceiling Total		1776		2093Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	193.0 ft(p)	43.7	8426 Btuh
	Floor Total		193		8426 Btuh
			Zone Envelope Subtotal:		20361 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	13376	178.3	7224 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**27585 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	27585 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27585 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

The Keen Model III
, FL

Project Title:
703052K&HFramingVinylSidingInc

Class 3 Rating
Registration No. 0
Climate: North

4/2/2007

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

The Keen Model III
, FL

Project Title:
703052K&HFramingVinylSidingInc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

4/9/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
3	2, Clear, Metal, 0.87	SE	60.0	32.2	1931 Btuh
4	2, Clear, Metal, 0.87	SE	8.0	32.2	258 Btuh
5	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	SW	6.0	32.2	193 Btuh
	Window Total		145(sqft)		4668 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1039	3.3	3412 Btuh
2	Frame - Wood - Adj(0.09)	13.0	300	3.3	985 Btuh
	Wall Total		1339		4397 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1776	1.2	2093 Btuh
	Ceiling Total		1776		2093Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	193.0 ft(p)	43.7	8426 Btuh
	Floor Total		193		8426 Btuh
			Zone Envelope Subtotal:		20361 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	13376	178.3	7224 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**27585 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	27585 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	27585 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

The Keen Model III
, FL

Project Title:
703052K&HFramingVinylSidingInc

Class 3 Rating
Registration No. 0
Climate: North

4/2/2007

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

The Keen Model III
, FL

Project Title:
703052K&HFramingVinylSidingInc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 4/9/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	6.0	0.0	6.0	29	60	360 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	60.0	60.0	0.0	29	63	1738 Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	8.0	8.0	0.0	29	63	232 Btuh
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979 Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	6.0	4.0	2.0	29	63	239 Btuh
	Window Total				145 (sqft)					6250 Btuh

	Type	R-Value/U-Value	Area(sqft)	HTM	Load
Walls					
1	Frame - Wood - Ext	13.0/0.09	1039.0	2.1	2167 Btuh
2	Frame - Wood - Adj	13.0/0.09	300.0	1.5	453 Btuh
	Wall Total		1339 (sqft)		2620 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Adjacent		20.0	9.8	196 Btuh
2	Insulated - Exterior		40.0	9.8	392 Btuh
	Door Total		60 (sqft)		588 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1776.0	1.7	2941 Btuh
	Ceiling Total		1776 (sqft)		2941 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	193 (ft(p))	0.0	0 Btuh
	Floor Total		193.0 (sqft)		0 Btuh
				Zone Envelope Subtotal:	12399 Btuh

Infiltration	Type	ACH	Volume(cuft)		CFM=	Load
	SensibleNatural	0.42	13376		93.6	1743 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		6	X 230	+	0	1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)				DGM = 0.00	0.0 Btuh
				Sensible Zone Load		**15521 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

The Keen Model III
, FL

Project Title:
703052K&HFramingVinylSidingInc

Class 3 Rating
Registration No. 0
Climate: North

4/9/2007

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**15521 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**15521 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**15521 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3422 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4622 Btuh**
	TOTAL GAIN	**20143 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

The Keen Model III
, FL

Project Title:
703052K&HFramingVinylSidingInc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 4/9/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	6.0	0.0	6.0	29	60	360 Btuh
3	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	60.0	60.0	0.0	29	63	1738 Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	8.0	8.0	0.0	29	63	232 Btuh
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979 Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	6.0	4.0	2.0	29	63	239 Btuh
	Window Total				145 (sqft)					6250 Btuh

	Type	R-Value/U-Value	Area(sqft)	HTM	Load
Walls					
1	Frame - Wood - Ext	13.0/0.09	1039.0	2.1	2167 Btuh
2	Frame - Wood - Adj	13.0/0.09	300.0	1.5	453 Btuh
	Wall Total		1339 (sqft)		2620 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Adjacent		20.0	9.8	196 Btuh
2	Insulated - Exterior		40.0	9.8	392 Btuh
	Door Total		60 (sqft)		588 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1776.0	1.7	2941 Btuh
	Ceiling Total		1776 (sqft)		2941 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	193 (ft(p))	0.0	0 Btuh
	Floor Total		193.0 (sqft)		0 Btuh
				Zone Envelope Subtotal:	12399 Btuh

Infiltration	Type	ACH		Volume(cuft)		CFM=	Load
	SensibleNatural	0.42		13376		93.6	1743 Btuh
Internal gain		Occupants		Btuh/occupant		Appliance	Load
		6	X	230	+	0	1380 Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0 Btuh
					Sensible Zone Load		**15521 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

The Keen Model III
, FL

Project Title:
703052K&HFramingVinylSidingInc

Class 3 Rating
Registration No. 0
Climate: North

4/9/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**15521 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**15521 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**15521 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3422 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4622 Btuh**
	TOTAL GAIN	**20143 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

Residential Window Diversity

MidSummer

The Keen Model III

, FL

Project Title:
703052K&HFramingVinylSidingInc

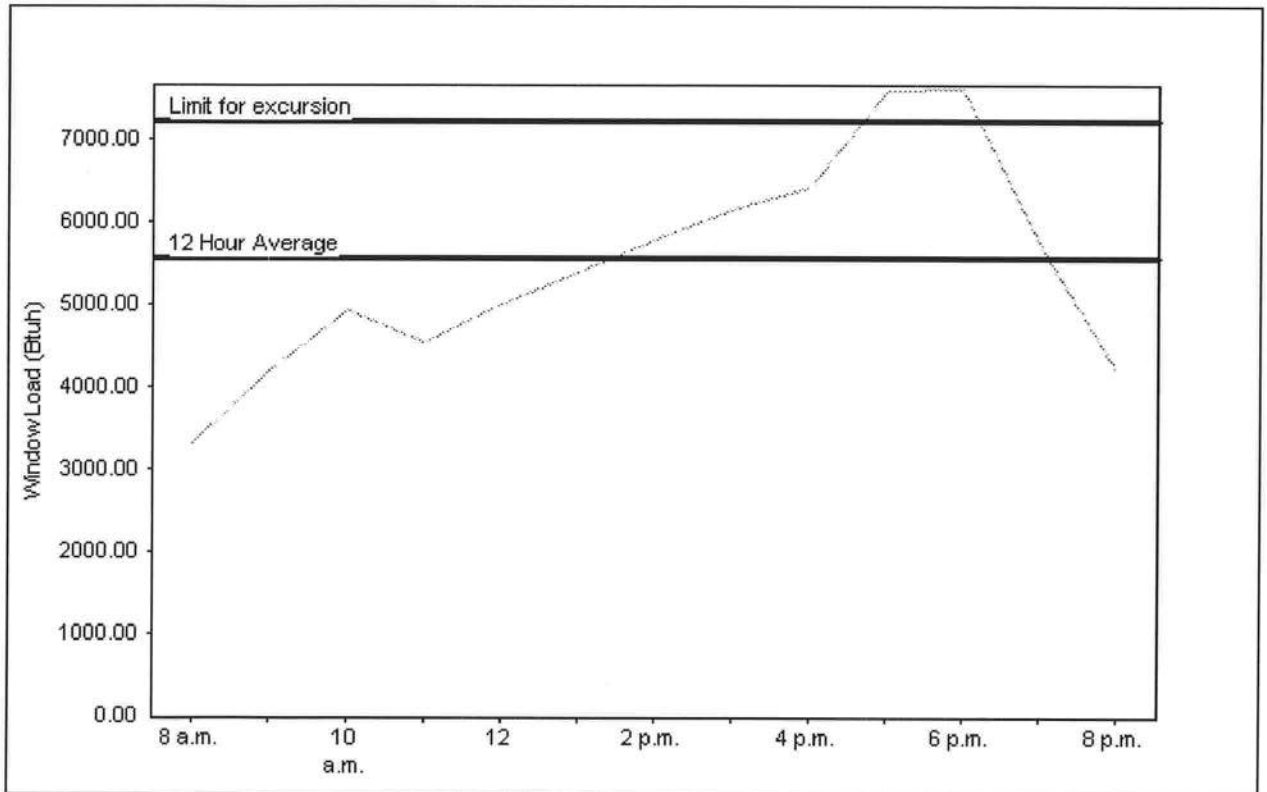
Class 3 Rating
Registration No. 0
Climate: North

4/9/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	5563 Btuh
Summer setpoint	75 F	Peak window load for July	7626 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	7232 Btuh
Latitude	29 North	Window excursion (July)	394 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

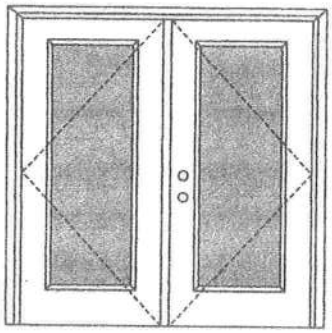
EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 4-9-07

XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Double Door
Maximum unit size = 6'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

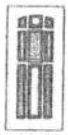
Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series

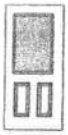

136 Series

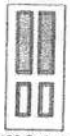

680 Series

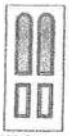

822 Series

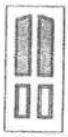
1/2 GLASS:


105 Series*


106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson EntrySystems

Exclusively from

XX
Glazed Outswing Unit

COP-WL-JH4162-02

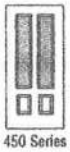
WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

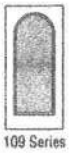
3/4 GLASS:


404 Series

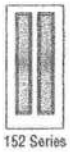

410 Series

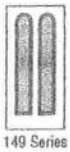

450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthy

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

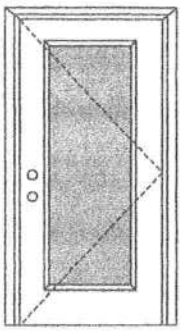
Johnson™

X
Glazed Outswing Unit

COP-WL-JH4161-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0011-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

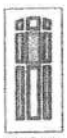
Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series

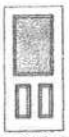

136 Series

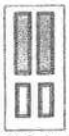

680 Series


822 Series

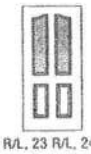
1/2 GLASS:


105 Series*


106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson™ EntrySystems

PREMDOR Collection

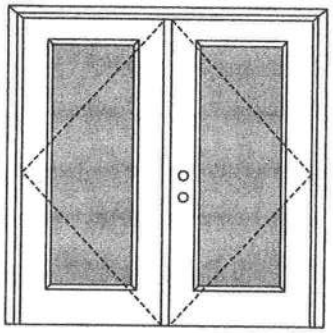
Exclusively from Masonite®

XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

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Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Double Door
Maximum unit size = 6'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

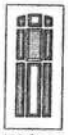
Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series

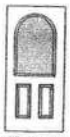

133, 135 Series

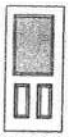

136 Series


680 Series

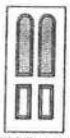

822 Series

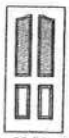
1/2 GLASS:

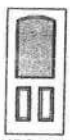

105 Series*


106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson™ EntrySystems

June 17, 2002

PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®

XX
Glazed Outswing Unit

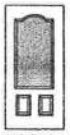
COP-WL-JH4162-02

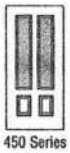
WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

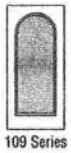
3/4 GLASS:

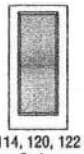

404 Series

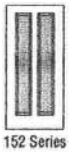

410 Series


450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

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Johnson™ EntrySystems

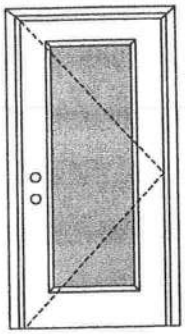
PREMDOR® Collection Premium Quality Doors

Exclusively from Masonite®

Glazed Outswing Unit

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
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Warnock Hersey

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Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

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MINIMUM INSTALLATION DETAIL:

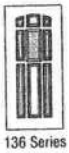
Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

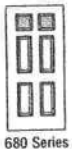
APPROVED DOOR STYLES:

1/4 GLASS:


100 Series

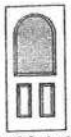

133, 135 Series

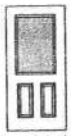

136 Series

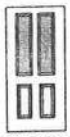

680 Series


822 Series

1/2 GLASS:

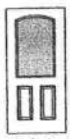

105 Series*


106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson™ EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

X
Glazed Outswing Unit

COP-WL-JH4161-02

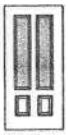
WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:

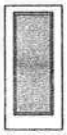

404 Series

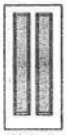

410 Series

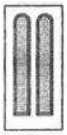

450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthy

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

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Johnson™ EntrySystems

PREMDOR Collection

Exclusively from Masonite®

AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650
TYPE: Aluminum Triple Single Hung Window

Title of Test	Summary of Results
AAMA Rating	H-R35 112 x 72
Uniform Load Deflection Test Pressure	+35.3 psf -47.2 psf
Operating Force	25 lb max.
Air Infiltration	0.16 cfm/ft^2
Water Resistance Test Pressure	5.25 psf
Uniform Load Structural Test Pressure	+53.0 psf -52.5 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 01-41641.01 for complete test specimen description and data.

Allen N. Reeves

ALLEN N. REEVES
No. 18354
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
P.O. Box 370
650 West Market Street
Gratz, Pennsylvania 17030-0370

Report No: 01-41641.01
Test Date: 05/13/02
And: 05/16/02
Report Date: 06/05/02
Expiration Date: 05/16/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness testing on a Series/Model 650, aluminum triple single hung window at their facility located in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a H-R35 112 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 650

Type: Aluminum Triple Single Hung Window

Overall Size: 9' 3-1/2" wide by 5' 11-11/16" high

Active Sash Size (3): 3' 0-1/4" wide by 2' 10-3/4" high

Fixed Daylight Opening Size (3): 2' 8-1/4" wide by 2' 9-1/8" high

Screen Size (3): 2' 9-1/8" wide by 2' 11" high

Finish: All aluminum was painted white.

ALLEN N. REEVES
CERTIFICATE
NO. 19354
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700

Test Specimen Description: (Continued)

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" by 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. The meeting rail was secured to the frame utilizing two 1-1/4" screws. The mullions were secured utilizing four #8 x 1-1/4" screws through the head and sill into the mullion screw boss.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each stiles' screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Metal cam lock with keeper	1	Midspan of each active meeting rail with adjacent keepers
Plastic tilt latch	2	Each active sash meeting rail ends
Metal tilt pin	2	Each active sash bottom rail ends
Balance assembly	2	Each active sash contained one in each jamb
Screen plunger	2	Each screen contained two 4" from rail ends on top rail

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	25 lbs	30 lbs max.
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.16 cfm/ft^2	0.3 cfm/ft^2 max.
	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage

***Note #1**: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.*

Allen N. Reeves
7 JUNE 2002

ALLEN N. REEVES
CERTIFICATE NO. 11354
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 52 seconds)		
	@ 15.0 psf (positive)	0.15"	0.41" max.
	@ 15.0 psf (negative)	0.29"	0.41" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 10 seconds)		
	@ 22.5 psf (positive)	0.01"	0.29" max.
	@ 22.5 psf (negative)	0.01"	0.29" max.
2.2. .6.2	Deglazing Test (ASTM E 987-88) In operating direction at 70 lbs		
	Right sash, meeting rail	0.12"/25%	0.50"/100%
	Right sash, bottom rail	0.12"/25%	0.50"/100%
	Middle sash, meeting rail	0.12"/25%	0.50"/100%
	Middle sash, bottom rail	0.12"/25%	0.50"/100%
	Left sash, meeting rail	0.12"/25%	0.50"/100%
	Left sash, bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Right sash, right stile	0.06"/12%	0.50"/100%
	Right sash, left stile	0.06"/12%	0.50"/100%
	Middle sash, right stile	0.06"/12%	0.50"/100%
	Middle sash, left stile	0.06"/12%	0.50"/100%
	Left sash, right stile	0.06"/12%	0.50"/100%
	Left sash, left stile	0.06"/12%	0.50"/100%
2 .8	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Allen N. Reeves

ALLEN N. REEVES CERTIFICATE NO. 19354 STATE OF PROFESSIONAL ENGINEER

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 5.25 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 52 seconds)		
	@ 35.3 psf (positive)	0.46"*	0.41" max
	@ 47.2 psf (negative)	0.67"*	0.41" max
	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 10 seconds)		
	@ 53.0 psf (positive)	0.03"	0.29" max
	@ 52.5 psf (negative)	0.02"	0.29" max

**Exceeds L/175 for deflection, but meets all other test requirements.*

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
7 JUNE 2002

ALLEN N. REEVES
CERTIFICATE
NO. 19354
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

MAH:nlb
01-41641.01

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

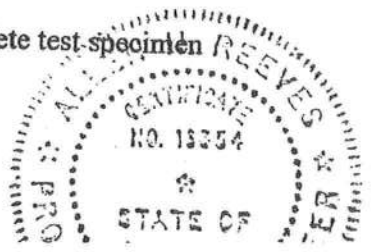
SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft^2
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician



Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

130 Derry Court
York, PA 17402-9405
phone: 717 764 7700

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

ALLEN H. REEVES ★ CERTIFICATE NO. 19[illegible] ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER ★

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft^2	0.3 cfm/ft^2 max
	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 25.9 psf (positive)	0.42"*	0.26" max.
	@ 34.7 psf (negative)	0.43"*	0.26" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 38.9 psf (positive)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max.

***Note #1**: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.*

**Exceeds L/175 for deflection, but passes all other test requirements.*

Allen N. Reeves

ALLEN N. REEVES
CERTIFICATE
NO. 1935
STATE OF
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987)		
	In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.
	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.05"	0.18" max.
	@ 70.8 psf (negative)	0.05"	0.18" max.

Exceeds L/175 for deflection, but passes all other test requirements.

LEN N. REEVES
CERTIFICATE NO. 19554
STATE OF FLORIDA

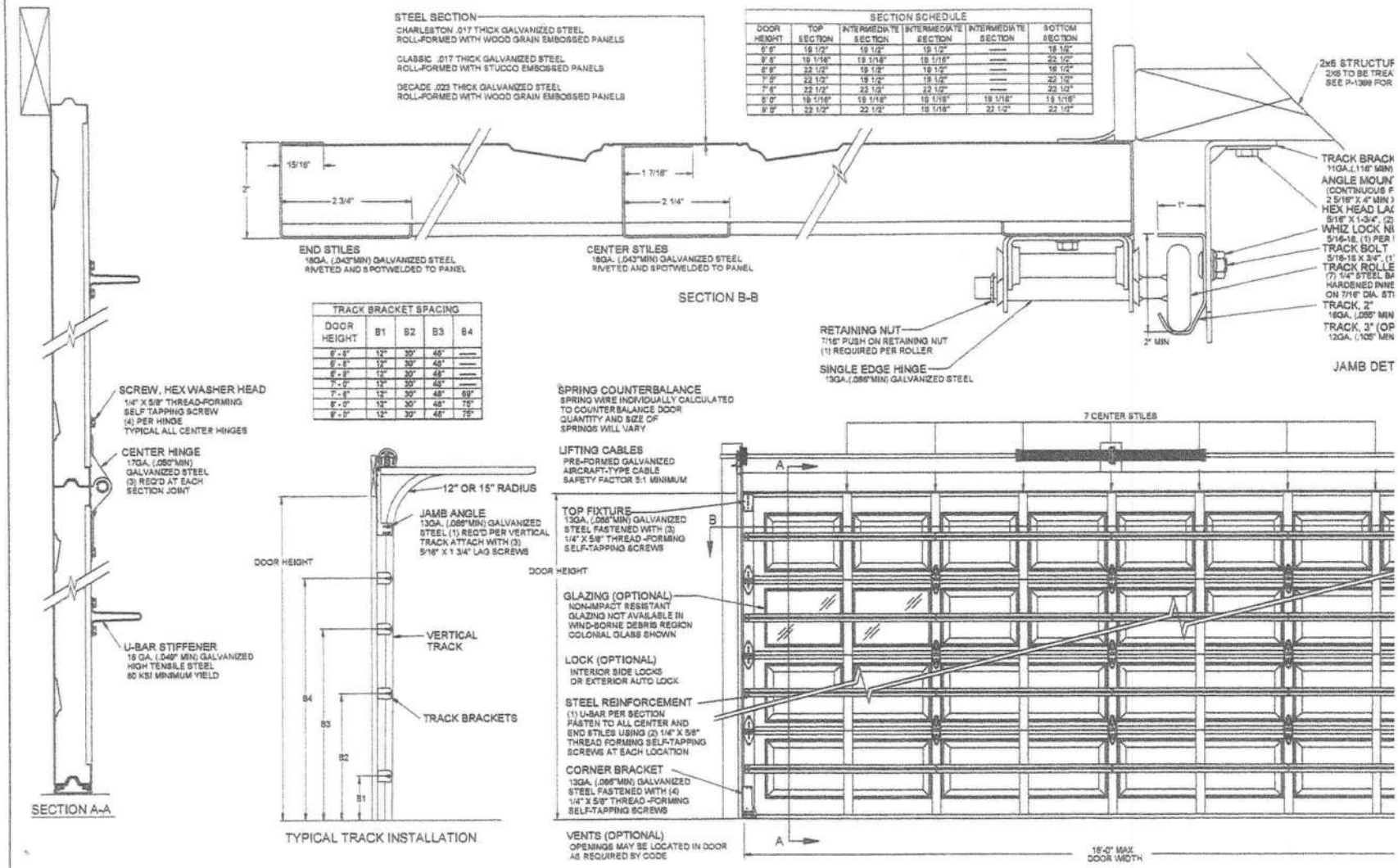
Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002

MAH:nlb
01-41134.01



DOORS TESTED PER ASTM E-330

CHARLESTON, CLASSIC, DECADE						
QTY OF CENTER STILES	NO GLASS		COLONIAL GLASS		RANCH GLASS	
	PSF RATING		PSF RATING		PSF RATING	
	DESIGN +/-	TEST +/-	DESIGN +/-	TEST +/-	DESIGN +/-	TEST +/-
7	+18.3 / -20.4	+27.5 / -30.6	+18.3 / -20.4	+27.5 / -30.6	N/A	N/A

REV.	DESCRIPTION	ECO	DATE
A	RELEASED FOR PRODUCTION	4719	07/13/04

SCALE: FULL
DRAWN BY: M. McCormick
CHECKED BY: G. Wedekind
DATE: 07/13/04
ECO: 4719

RAYNOR
1101 EAST RIVER ROAD
DEKALB, IL 60115

TITLE: SI CI DI
NO. P-

ELK Roofing Products Specifications – Tuscaloosa, AL

PRESTIQUE®
HIGH DEFINITION®

RAISED PROFILE®

Prestique Plus *High Definition* and Prestique Gallery Collection™

Product size 13¼"x 39⅜"
Exposure 5⅝"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 11

50-year limited warranty period: 5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 110 mph***

Prestique *High Definition*

Product size 13¼"x 39⅜"
Exposure 5⅝"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 14

40-year limited warranty period: 5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 90 mph***

Prestique *High Definition*

Product size 13¼"x 38¾"
Exposure 5⅝"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period: 5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph.

Raised Profile

Product size 13¼"x 38¾"
Exposure 5⅝"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period: 5-7**years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 70 mph.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/*FLX*™

Size: 12"x 12"
Exposure: 6⅝"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Vented RidgeCrest™ w/*FLX*™

Size: 13"x 13¼"
Exposure: 9¼"
Pieces/Box: 26
Coverage: 5 boxes = 100 linear feet

Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors (Check Availability): Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood, Forest Green, Wedgewood, Birchwood, Sandalwood.
Gallery Collection: Balsam Forest™, Weathered Sage™, Sienna Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge, and Prestique Starter Strip roofing products contain sealant which activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles have approval from the Florida Building Code Commission, Metro-Dade County, ICBO, and Texas Department of Insurance.

*See actual limited warranty for conditions and limitations.
** Effective January 1, 2004, the seven year non-prorated Umbrella Coverage Period applies only when a full Elk Roof System is installed with the original installation of the Elk shingles, all in accordance with Elk's application instructions for such products. A full Elk roof system includes Elk Hip and Ridge shingles on all hips and ridges, Elk Starter Strip along all rake and eave edges, an Elk ventilation system, and Elk All-Climate Self-Adhering Underlayment in all valleys. Additionally, Elk All-Climate Self-Adhering Underlayment is required along the rake and eave edges of the roof in and north of the states of VA, KY, MO, KS, CO, UT, NV, & OR.
***For a limited Wind Warranty up to 110 mph for Prestique Gallery Collection, Prestique Plus, or 90 mph for Prestique I or Grandé, at least six (6) properly placed NAILS and Elk Starter Strip shingles are required. See application instructions printed on the shingle wrapper for additional requirements.

Specifications

Scope: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

Preparation of Roof Deck: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

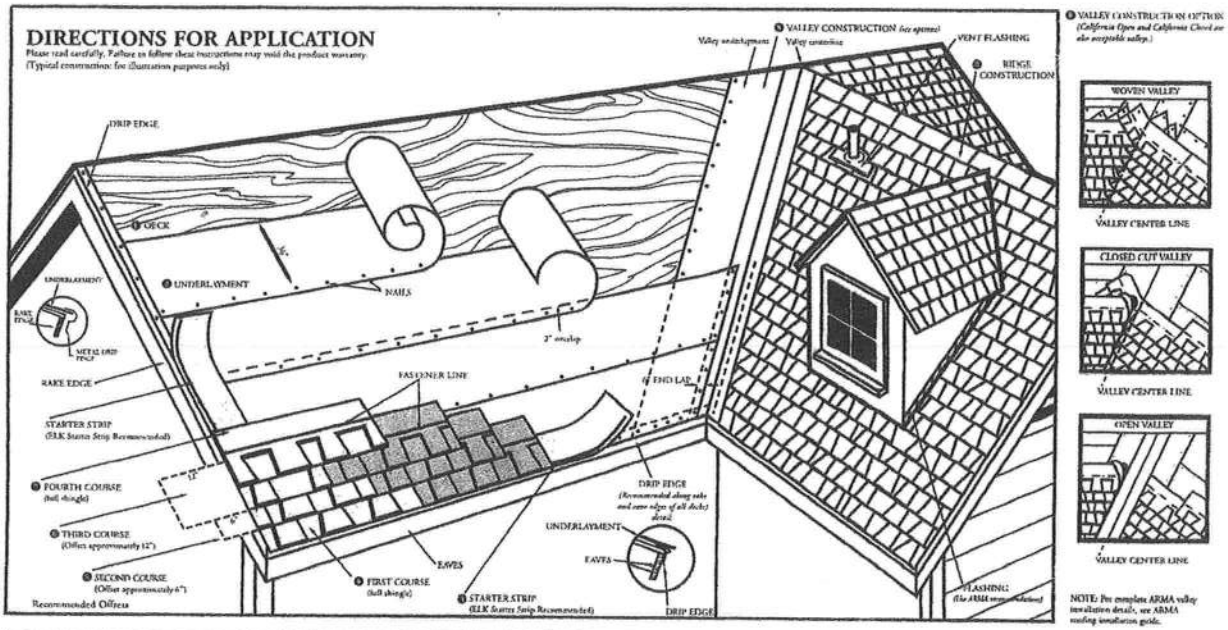
Materials: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For Low slopes[4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)], use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

Southeast & Atlantic Office: Corporate Headquarters: Plant Location: ELK



DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

❶ DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

❷ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Elk Versashield® or self adhering underlayment is also acceptable. Cover drip edge at eaves only.

For low slope(2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 19". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Technical Services Department for application specifications over other decks and other slopes.

❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A STRIP SHINGLE WITH THE ADHESIVE STRIP POSITIONED AT THE EAVE EDGE. With at least 3" trimmed from the end of the first shingle, start at the rake edge overhanging the eave and rake edges 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

❹ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof

❺ SECOND COURSE

Offset the second course of shingles with respect to the first by approximately 6". Other offsets are approved if greater than 4".

❻ THIRD COURSE

Offset the next course by 6" with respect to the second course, or consistent with the original offset.

❼ FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof. Offsets may be adjusted around valleys and penetrations.

❽ VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

❾ RIDGE CONSTRUCTION

For ridge construction Elk recommends Class "A" Z²Ridge or Seal-A-Ridge® with formula *FLX*™ or RidgeCrest™ with *FLX* (See ridge package for installation instructions). Vented RidgeCrest or 3-tab shingles are also approved.

FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Using the fastener line as a reference, nail or staple the shingle in the double thickness common bond area. For shingles without a fastener line, nails or staples must be placed between and/or in the sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for roof-overs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less. This product meets the requirements of the IRC 2003 code when fastened with 4 nails.

MANSARD APPLICATIONS

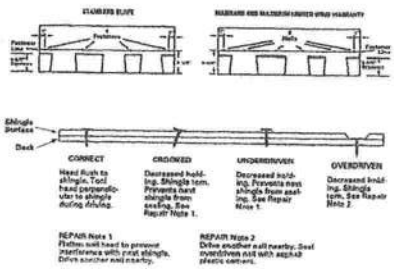
Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4 of an inch.

HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.
All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALER: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

ELK
The Premium Choice
www.elkcorp.com

K&H Framing/Vinyl Siding, Inc

1534 S.W. Dekle Road
Lake City, Florida 32024
(386)961-8223

April 25, 2007

To: The Columbia County Building & Zoning Department
Joe Haltwinger

K&H Framing/Vinyl Siding, Inc./Glenn Keen/Jason Elixson
Owner John Keen
Property ID# 11-4S-16-02918-012

Upon receiving the Florida residential Code 2004, I agree to the following:

A. Opening protection:
-will not open into a room used for sleeping
-other openings between the garage and the resident will be equipped with a honeycomb steel door, not less than an 1 3/8" thick and a 20 minute fire rating

B. The mechanical room door will have a 20 minute fire rating and meet the requirement of the above mentioned (A.)

C. The attic access area will be made of ½"gypsum board

D. The garage floor will be made of non combustible materials (concrete) and it will slope to drain towards the main vehicle entrance way

E. The electric plans show the electric panel in the utility room, at the electric service entrance an over current will be installed on the exterior structure which will provide an over-current protection for the total service amperage

All the above mention is agreed to and will be carried out to meet the 2004 Florida Residential Building Code Requirements.

Sincerely,

Glenn L. Keen
K&H Framing/Vinyl Siding, Inc./John Keen

Notice of Treatment 12/4/97

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)
Address: 536 SE Baya Ave
City Lake City Fl Phone 752-1703

Site Location: Subdivision K+H Framing
Lot # _____ Block# _____ Permit # 25780
Address 594 SW Kirby Ave

Product used	Active Ingredient	% Concentration
☐ Dursban TC	Chlorpyrifos	0.5%
☐ Termidor	Fipronil	0.06%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%
☒ Premise		.12

Type treatment: ☒ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Dwelling Porches Garage	2148	256	185 gals

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

5-29-07 Date | 4:40 Time | F299 Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink
6/04 ©