DATE 03/16/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000025627

APPLICANT DANIEL A. HINTON PHONE 352.318.3411

ADDRESS POB 2214 HIGH SPRINGS FL 32655

OWNER DANIEL A.& CAMMEY HINTON PHONE 352.318.3411

ADDRESS 1087 SW MAPLETON STREET FT. WHITE FL 32038

CONTRACTOR DANIEL A. & COURTNEY HINTON PHONE 352.318.3411

LOCATION OF PROPERTY 47-S TO US 27 TO C-138,S TO WOODLAND,TL TO GATED COMMUNITY,
(JUST BEFORE GATE, TAKE L & ADDRESS MARKED 1087.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 96400.00

HEATED FLOOR AREA 1928.00 TOTAL AREA 2852.00 HEIGHT 25.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 9'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE XPS DEVELOPMENT PERMIT NO.

PARCEL ID 30-7S-17-10058-653 SUBDIVISION SANTA FE RIVER PLANTATIONS

LOT 63 BLOCK PHASE UNIT TOTAL ACRES 1.39

000001352 Daniel A. Hinton

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

WAIVER | 07-00161N | BLK | JTH | N

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

COMMENTS: 1 FOOT ABOVE ROAD. SECTION 2.3.1 LEGAL NON-CONFORMING LOT OF RECORD.

Check # or Cash 1015

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 $ 485.00 CERTIFICATION FEE $ 14.26 SURCHARGE FEE $ 14.26

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 $ **TOTAL FEE** 588.52

INSPECTORS OFFICE 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.

Columbia County Building Permit Application

For Office Use Only Application # 0703-19 Date Received 3/7 By JW Permit # 13521/25627

Application Approved by - Zoning Official B2K Date 16.03.07 Plans Examiner OK JTH Date 3-16-07

Flood Zone X per surveyor Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments Section 2.3.1 Legal Non-conforming Lot of Record: - 1014 - W/ (-1015) -

☐ NOC ☐ EH ☐ Deed or PA ☑ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

CALL TO HAVE TURNED ON Fax 386.454.7012

Name Authorized Person Signing Permit Daniel Adam Hinton Phone 352-318-3411

Address P.O. Box 2214 High Springs, FL 32655

Owners Name Daniel Adam & Cammey B. Hinton Phone 352-318-3411 (786) 454-70

911 Address 1087 sw Mapleton St. · Lt. White, FL 32038

Contractors Name Owner Builder Phone

Address

Fee Simple Owner Name & Address —

Bonding Co. Name & Address Zurich Assurance Company of America 2495 Main Street Suite 209 Buffalo, NY 14214

Architect/Engineer Name & Address

Mortgage Lenders Name & Address Florida Rural Rehabilitation Corporation

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

Property ID Number 30-75-17-10058-653 Estimated Cost of Construction 120,000

Subdivision Name Santa Fe River Plantations Lot 63 Block ____ Unit ____ Phase ____

Driving Directions Take Mapleton St off Hwy 27 just west of Santa Fe River. Go .9 miles down Mapleton to 1087 on R side of Road. "Alternate route" Take CR 138 south from Hwy 27 to Woodland on (L) Take woodland to the Gated community. Just before gate take Left to 108;

Type of Construction Residential - Concrete Block Number of Existing Dwellings on Property 0

Total Acreage 1.39 acres Lot Size ____ Do you need a - Culvert Permit or (Culvert Waiver) or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 135 Side 60 Side 78 Rear 153

Total Building Height 25' Number of Stories 2 Heated Floor Area 1928 (TOTAL 2,852) Roof Pitch 9/12

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.

Daniel Adam Hinton

Owner Builder or Authorized Person by Notarized Letter

Contractor Signature

Contractors License Number

Competency Card Number

NOTARY STAMP/SEAL

KYLE E. PETTEWAY NOTARY PUBLIC STATE OF FLORIDA Comm. Expires August 1, 2007 No. D D 236752

STATE OF FLORIDA
COUNTY OF ~~COLUMBIA~~ ALACHUA

Sworn to (or affirmed) and subscribed before me this 6th day of March 20 07.

Personally known ✓ or Produced Identification ____

Notary Signature

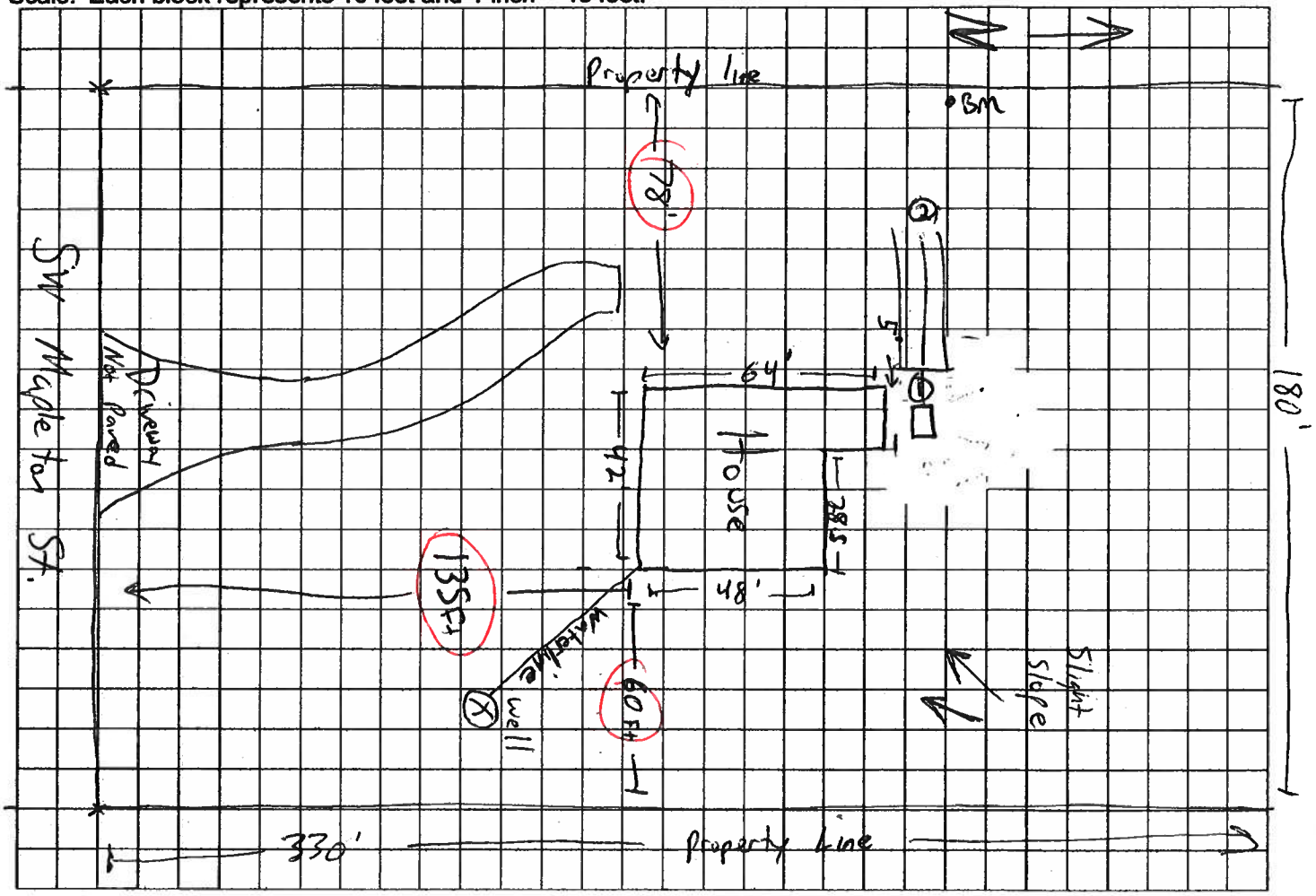
(Revised Sept. 2006)

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

Permit Application Number 07-0016IN

---------- PART II - SITEPLAN ----------

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: REVISED 3/6/17 145' SEPTIC TO WELL

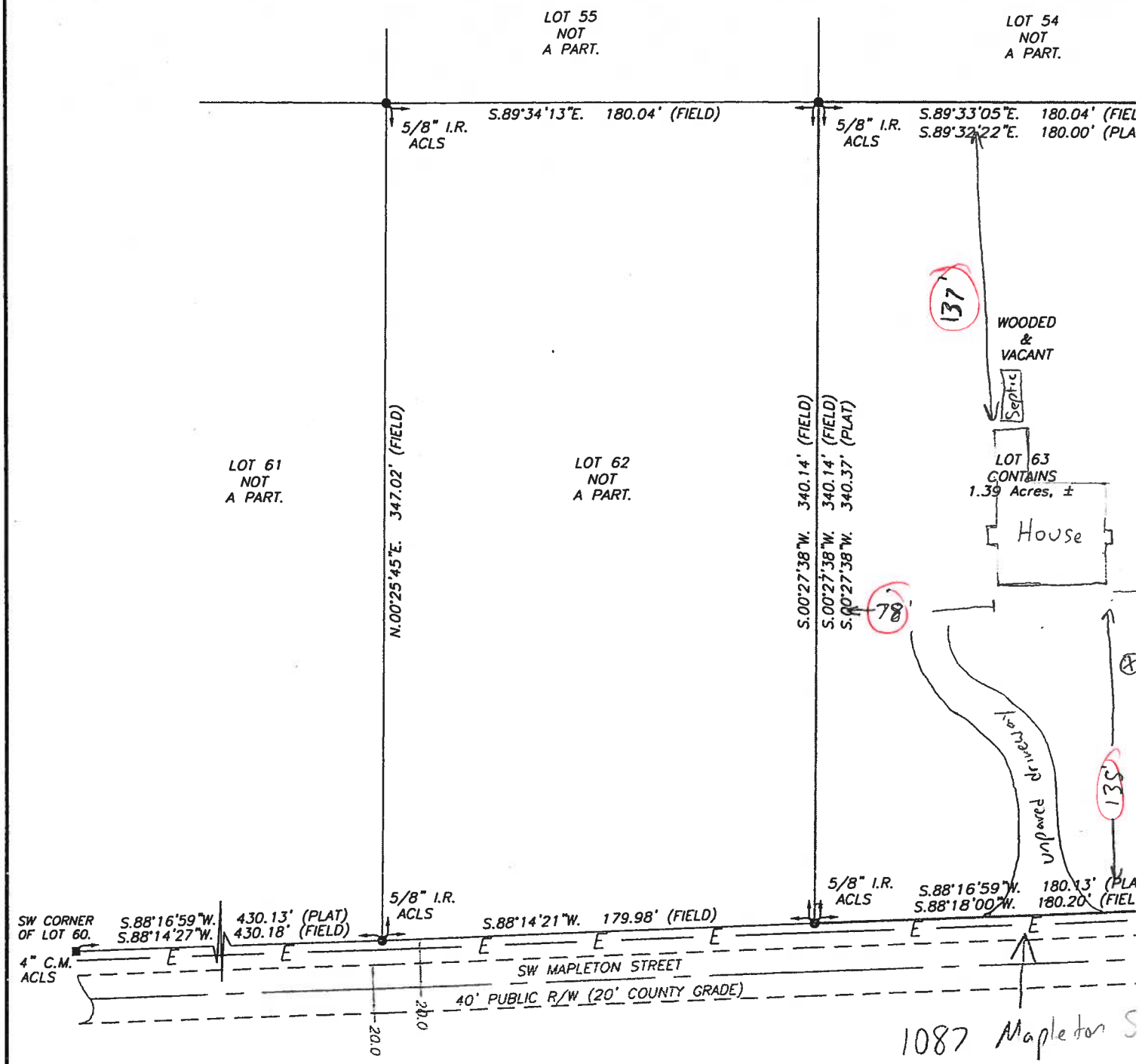
x Daniel Adam Hinton

Site Plan submitted by: Daniel Adam Hinton

Plan Approved X APPROVED Not Approved Date 3/7/17

By [signature] Columbia CHD County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



SIGNED: _____

MARK D. DUREN, LS 4708

WARRANTY DEED

(STATUTORY FORM - SECTION 689.02, F.S.)
This document prepared by and to be returned to:
Kyle E. Petteway
Grunder & Petteway, P. A.
23349 NW CR 236, Suite 10
High Springs, Florida, 32643

Inst:2007001808 Date:01/24/2007 Time:11:17
Doc Stamp-Deed : 490.00
DC,P.DeWitt Cason,Columbia County B:1108 P:1956

Tax Parcel Number: R10058-653

THIS INDENTURE made January 22, 2007,

BETWEEN Gary L. Sloan and Susan Sloan, husband and wife, whose post office address is 5460 Pine Street, Cocoa, Florida, 32927, herein called Grantor, and

Daniel A. Hinton and Cammey B. Hinton, husband and wife, whose post office address is 25647 NW 204th Avenue, High Springs, Florida, 32643, herein called Grantee,

Witnesseth that said grantor, for and in consideration of the sum of TEN AND NO/100 ($10.00) Dollars, and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in the county(ies) of Columbia state of Florida, to wit:

Lot 63, a replat of Lots 38, 45, and 46 of Santa Fe River Plantations, a subdivision, as per plat thereof recorded in Plat Book 5, Pages 13 through 13D, inclusive of the Public Records of Columbia County, Florida.

AND SAID GRANTOR does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

Grantor and grantee are used for singular or plural, as context requires.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Witness: Print Name Allison Sopcy
Gary L. Sloan

Witness: Print Name Karen Arnone

Witness: Print Name Allison Sopcy
Susan Sloan
Susan Sloan

Witness: Print Name Karen Arnone

State of Florida
County of ~~Alachua~~ Brevard

The foregoing instrument was acknowledged before me this 18 day of January, 2007 by Gary L. Sloan and Susan Sloan who

( ) are personally known to me
(✓) who have produced a valid Florida driver's license as identification
( ) who produced _____ as identification

Notary Public at Large, State of Florida

(SEAL)

LAUREN G. SOPCY
MY COMMISSION # DD 594388
EXPIRES: September 25, 2010
Bonded Thru Notary Public Underwriters

8583

@ CAM112M01 S CamaUSA Appraisal System Columbia County
3/07/2007 11:07 **Legal Description Maintenance** 37260 **Land** 001 *
Year T Property Sel **AG** 000
2007 R 30-7S-17-10058-653 **Bldg** 000
Xfea 000
HINTON DANIEL A & CAMMEY B 37260 **TOTAL** **B**

1	LOT 63 SANTE FE RIVER	PLANTATIONS REPLAT OF LOT 38.	2
3	ORB 441-211,, 742-1258,, 725-611	725-616,, WD 1108-1956.	4
5			6
7			8
9			10
11			12
13			14
15			16
17			18
19			20
21			22
23			24
25			26
27			28

Mnt **2/02/2007 THRESA**

F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More

SCHAFER ENGINEERING, LLC

7104 NW 42ND LANE GAINESVILLE FL 32606 PH: 386-462-1340 – 352-375-6329

March 15, 2007

Job: lot 63 Santa Fe River Plantation

Re: Open Porch Headers

Dear Sir:

Install 2 ply 2 x 12 pt syp #2 or better headers for all porch headers. The truss span will be a maximum span of 8'-8" with the maximum header span of 10'-0"

If you have any questions or if we can be any further assistance, please feel free to contact us at your convenience.

3-15-07

Bruce Schafer, P.E.
48984
7104 N. W. 42nd Lane
Gainesville, Florida 32606

NOTORIZED DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

(X) Single Family Dwelling
( ) Farm Outbuilding
( ) Two-Family Residence
( ) Other_____

NEW CONSTRUCTION OR IMPROVEMENT

(X) New Construction
( ) Addition, Alteration, Modification or other Improvement

I Daniel Adam Hutton, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number _____

Daniel Adam Hutton 3-6-07
Owner Builder Signature Date

The above signer is personally known to me or produced identification _____

Notary Signature _____ Date 3/6/07

KYLE E. PETTEWAY NOTARY My Comm. Expires August 1, 2007 No. D D 236752 PUBLIC STATE OF FLORIDA (Stamp / Seal)

FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date_____ Building Official/Representative_____

Jan 05 08 03:59p Gar

ROBERT McMILLAN
(386) 454-PUMP (7867)
(386) 462-PUMP (7867)

NORTH FLORIDA WATER SYSTEMS, INC.

PUMP SALES AND SERVICE
4" WELLS

11814 N.W. 202nd St., Alachua, Florida 32615

454
7012

Private Well Affidavit

Customer: Adam Hinton.

Address: _____

_____

Size of Pump Motor: 1hp

Size of Pressure Tank: 60 GALLON

Cycle Stop Value: (Yes) Or No

Other: _____

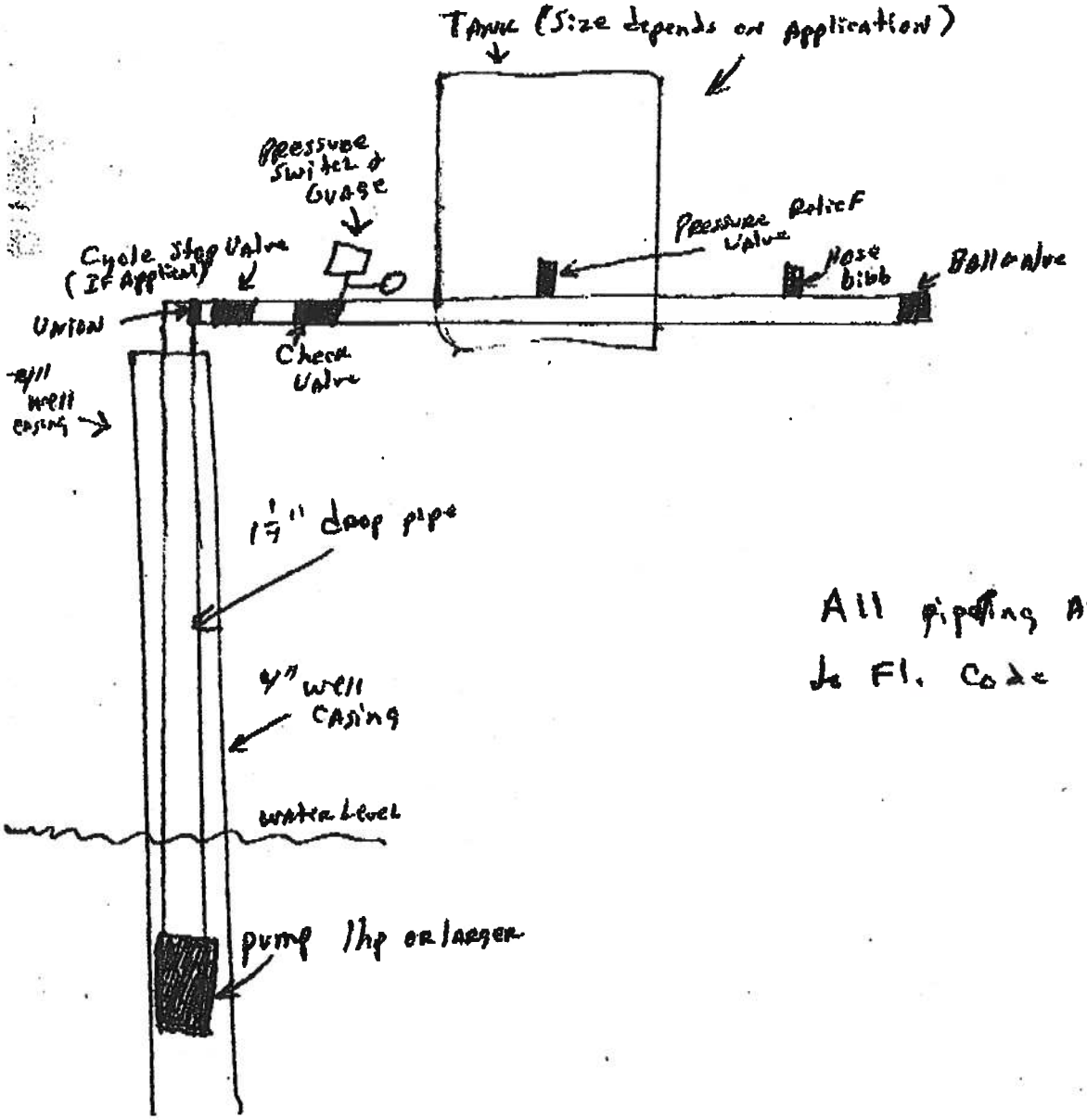
_____

_____

x Robert C mmillan
Installer's Signature

NORTH FLORIDA
WATER SYSTEMS, INC.
11814 N.W. 202nd ST.
ALACHUA, FLORIDA 32615

Columbia County well diagram



All pipeing and wiring to Fl. Code

Drawn by Robert Miller

Ph # 386 462-7867

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: 2/9/2007 **DATE ISSUED:** 2/12/2007

ENHANCED 9-1-1 ADDRESS:

1087 SW MAPLETON ST

FORT WHITE FL 32038

PROPERTY APPRAISER PARCEL NUMBER:

30-7S-17-10058-653

Remarks:

LOT 63 SANTE FE RIVER PLANTATIONS

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.

618

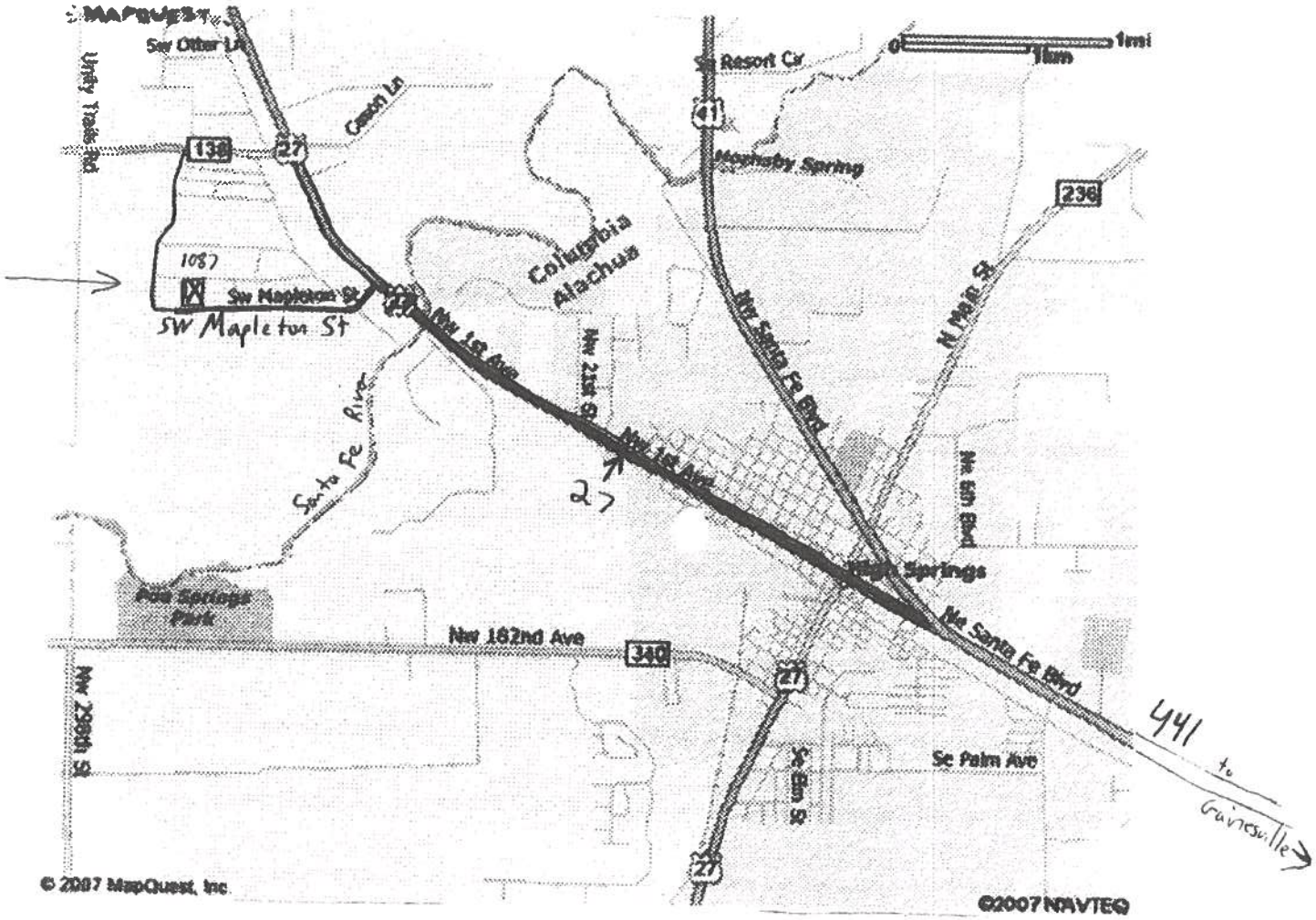
Approved Address

FEB 12 2007

911Addressing/GIS Dept

Adam & Cammey Hinton
(352) 318-3411
Mailing address: P.O. Box 2214
High Springs, FL 32655
Property address: 1087 SW Mapleton Street
Fort White, FL 32038
Subdivision: Santa Fe River Plantations
Lot #63
Property Appraiser Parcel # 30-7S-17-10058-653

Directions: From High Springs go west on highway 27 towards Fort White, take the first left (after you cross the Santa Fe River into Columbia county) which is Mapleton Street. The road curves to the right, stay straight property is on the right 0.9 miles from highway 27.



Jan 05 06 03:59p Gar p.4

ROBERT McMILLAN
(386) 454-PUMP (7867)
(386) 462-PUMP (7867)

NORTH FLORIDA WATER SYSTEMS, INC.

PUMP SALES AND SERVICE
4" WELLS

11814 N.W. 202nd St., Alachua, Florida 32615

454 7012

Private Well Affidavit

Customer: Adam Hinton.

Address: _____

Size of Pump Motor: 1hp

Size of Pressure Tank: 60 GALLON

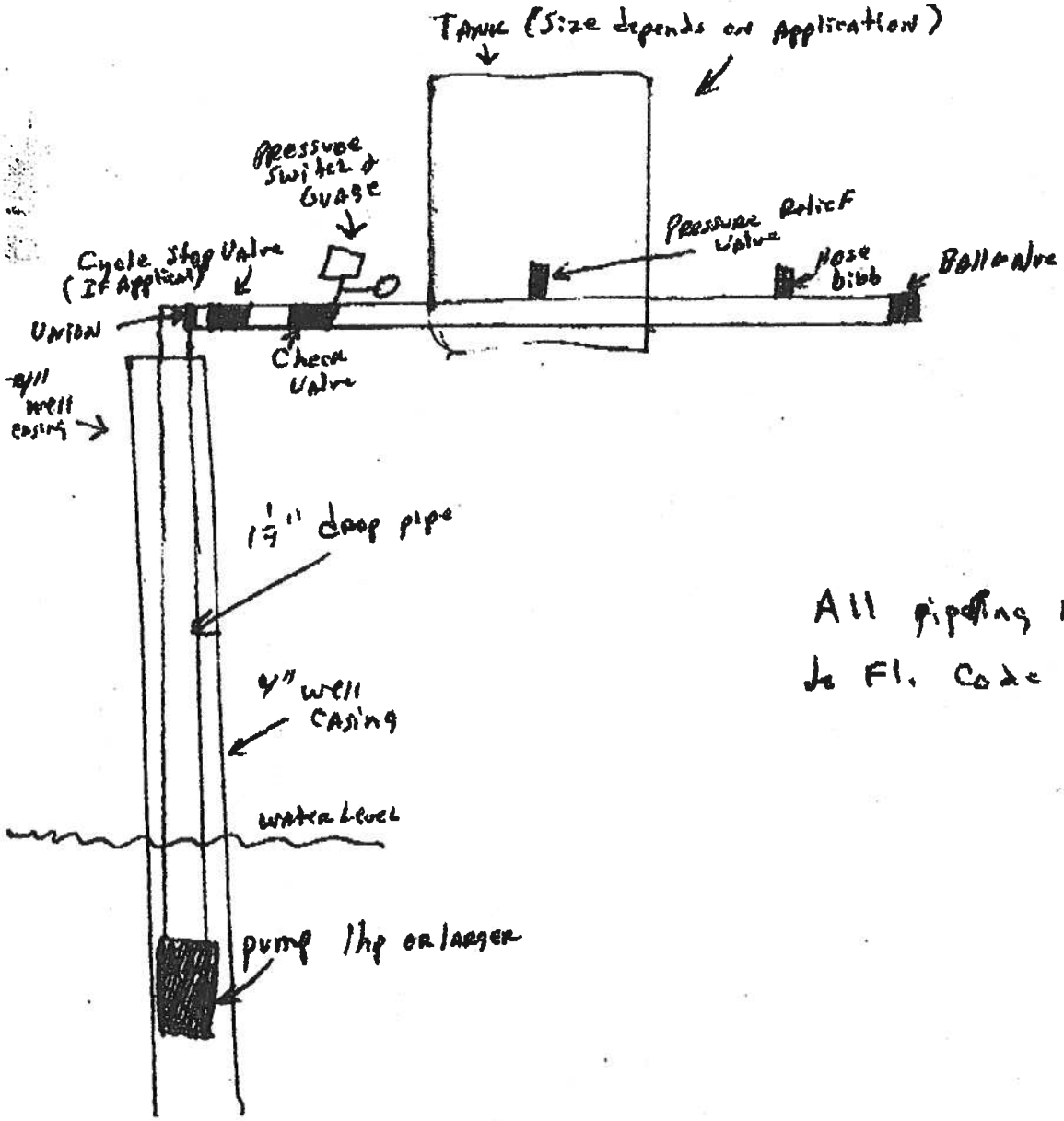
Cycle Stop Value: (Yes) Or No

Other: _____

x Robert C McMillan
Installers Signature

NORTH FLORIDA
WATER SYSTEMS, INC.
11814 N.W. 202nd ST.
ALACHUA, FLORIDA 32615

Columbia County well diagram



All pipping and wiring to Fl. Code

Drawn by Robert Miller

Ph # 386 462-7867

FORM 600A-2004R EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Adam Hinton**	Builder:	**owner**
Address:	**Lot: 63, Sub: Sante Fe River, Plat:**	Permitting Office:	
City, State:	,	Permit Number:	
Owner:		Jurisdiction Number:	
Climate Zone:	**North**		

1. New construction or existing	New		
2. Single family or multi-family	Single family		
3. Number of units, if multi-family	1		
4. Number of Bedrooms	3		
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1928 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)	Description Area 7a. (Dble Default) 221.0 ft²		
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 221.0 ft²		
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 206.0(p) ft		
b. N/A			
c. N/A			
9. Wall types			
a. Frame, Wood, Exterior	R=13.0, 150.0 ft²		
b. Concrete, Int Insul, Exterior	R=4.1, 1600.0 ft²		
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Single Assembly	R=19.0, 2150.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 112.0 ft		
b. N/A			
12. Cooling systems			
a. Central Unit	Cap: 35.0 kBtu/hr SEER: 13.00		
b. N/A			
c. N/A			
13. Heating systems			
a. Electric Heat Pump	Cap: 32.0 kBtu/hr HSPF: 7.70		
b. N/A			
c. N/A			
14. Hot water systems			
a. Electric Resistance	Cap: 40.0 gallons EF: 0.92		
b. N/A			
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)			
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT, CF,		

Glass/Floor Area: 0.11 Total as-built points: 25955 Total base points: 26330 **PASS**

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

PREPARED BY: Suncoast Insulators

DATE: 2-28-07

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.

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 63, Sub: Sante Fe River, Plat: , , ,** 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	1928.0	18.59	6451.0	1.Double, Clear	E	2.0	5.0	75.0	42.06	0.80	2514.0
				2.Double, Clear	W	2.0	5.0	51.0	38.52	0.80	1570.0
				3.Double, Clear	S	2.0	5.0	40.0	35.87	0.72	1037.0
				4.Double, Clear	N	2.0	5.0	55.0	19.20	0.87	919.0
				As-Built Total:				**221.0**			**6040.0**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	150.0	1.50		225.0
Exterior	1750.0	1.70	2975.0	2. Concrete, Int Insul, Exterior			4.1	1600.0	1.13		1816.0
Base Total:	**1750.0**		**2975.0**	**As-Built Total:**				**1750.0**			**2041.0**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				36.0	4.10		147.6
Exterior	36.0	6.10	219.6								
Base Total:	36.0		219.6	As-Built Total:				36.0			147.6
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	1928.0	1.73	3335.4	1. Single Assembly			19.0	2150.0	5.64 X 1.00		12126.0
Base Total:	**1928.0**		**3335.4**	**As-Built Total:**				**2150.0**			**12126.0**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	206.0(p)	-37.0	-7622.0	1. Slab-On-Grade Edge Insulation			0.0	206.0(p	-41.20		-8487.2
Raised	0.0	0.00	0.0								
Base Total:			**-7622.0**	**As-Built Total:**				**206.0**			**-8487.2**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	1928.0	10.21	19684.9					1928.0	10.21		19684.9

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 63, Sub: Sante Fe River, Plat: , , ,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 25043.9			**Summer As-Built Points: 31552.3**					
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 35000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(INS)					
25043.9	0.3250	8139.3	31552 **31552.3**	1.00 **1.00**	(1.00 x 1.147 x 0.91) **1.044**	0.260 **0.260**	0.902 **0.902**	7727.8 **7727.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 63, Sub: Sante Fe River, Plat: , , ,** 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	1928.0	20.17	7000.0	1.Double, Clear	E	2.0	5.0	75.0	18.79	1.08	1527.0	
				2.Double, Clear	W	2.0	5.0	51.0	20.73	1.06	1119.0	
				3.Double, Clear	S	2.0	5.0	40.0	13.30	1.40	744.0	
				4.Double, Clear	N	2.0	5.0	55.0	24.58	1.01	1360.0	
				As-Built Total:				**221.0**			**4750.0**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	150.0	3.40		510.0	
Exterior	1750.0	3.70	6475.0	2. Concrete, Int Insul, Exterior			4.1	1600.0	6.42		10272.0	
Base Total:	**1750.0**		**6475.0**	**As-Built Total:**				**1750.0**			**10782.0**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				36.0	8.40		302.4	
Exterior	36.0	12.30	442.8									
Base Total:	36.0		442.8	As-Built Total:				36.0			302.4	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =		Points	
Under Attic	1928.0	2.05	3952.4	1. Single Assembly			19.0	2150.0	1.86 X 1.00		3999.0	
Base Total:	**1928.0**		**3952.4**	**As-Built Total:**				**2150.0**			**3999.0**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	206.0(p)	8.9	1833.4	1. Slab-On-Grade Edge Insulation			0.0	206.0(p	18.80		3872.8	
Raised	0.0	0.00	0.0									
Base Total:			**1833.4**	**As-Built Total:**				**206.0**			**3872.8**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	1928.0	-0.59	-1137.5					1928.0	-0.59		-1137.5	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 63, Sub: Sante Fe River, Plat: , , ,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**18566.1**	**Winter As-Built Points:**					**22568.7**
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(7.7) Ducts:Con(S),Con(R),Int(AH),R6.0					
18566.1	0.5540	10285.6	22568.7	1.00	1.087	0.443	0.950	10322.6

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 63, Sub: Sante Fe River, Plat: , , ,** 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	0.92	3	1.00	2635.00	1.00	7905.0	
				As-Built Total:						**7905.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
8139	**10286**	**7905**	**26330**	**7728**	**10323**	**7905**	**25955**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 63, Sub: Sante Fe River, Plat: , , ,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.9

The higher the score, the more efficient the home.

, Lot: 63, Sub: Sante Fe River, Plat: , , ,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 35.0 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)	1928 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) 221.0 ft²		a. Electric Heat Pump	Cap: 32.0 kBtu/hr
	b. SHGC:				HSPF: 7.70
	(or Clear or Tint DEFAULT)	7b. (Clear) 221.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 206.0(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, 150.0 ft²			EF: 0.92
	b. Concrete, Int Insul, Exterior	R=4.1, 1600.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Single Assembly	R=19.0, 2150.0 ft²	15.	HVAC credits	PT, CF,
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 112.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

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

Builder Signature: _____ 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.

Jan 05 06 03:59p Gar

ROBERT McMILLAN
(386) 454-PUMP (7867)
(386) 462-PUMP (7867)

NORTH FLORIDA WATER SYSTEMS, INC.

PUMP SALES AND SERVICE
4" WELLS

11814 N.W. 202nd St., Alachua, Florida 32615

4/5/07 7012

Private Well Affidavit

Customer: Adam Hinton.

Address: _____

Size of Pump Motor: 1hp

Size of Pressure Tank: 60 GALLON

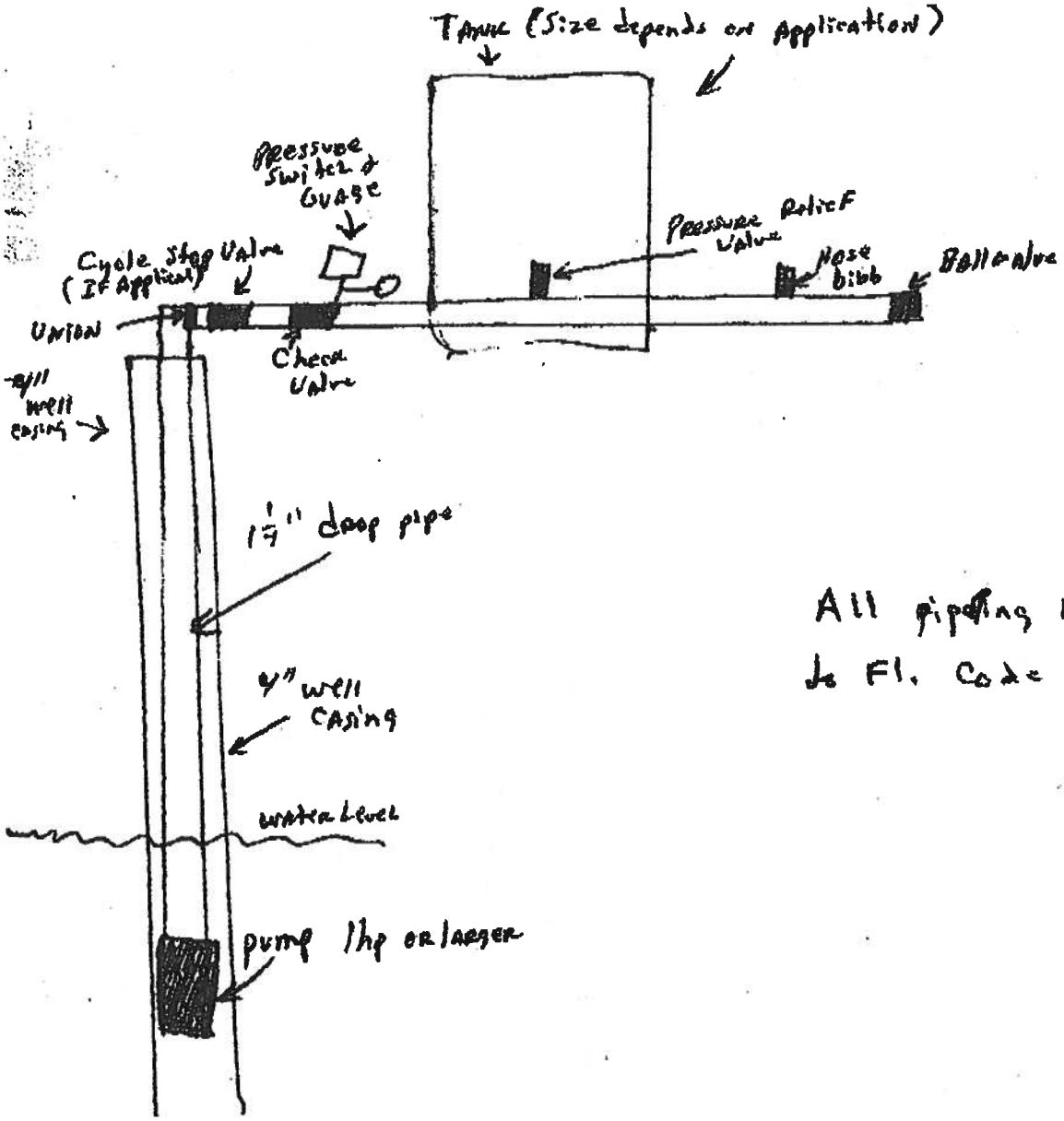
Cycle Stop Value: (Yes) Or No

Other: _____

x Robert C McMillan
Installer's Signature

NORTH FLORIDA
WATER SYSTEMS, INC.
11814 N.W. 202nd ST.
ALACHUA, FLORIDA 32615

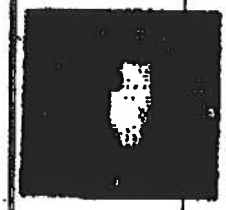
Columbia County well diagram



All pipping and wiring to Fl. Code

Drawn by Robert Miller

Ph # 386 462-7867



From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0703-19

Applicant: Daniel Adam Hinton, Owner/Builder: Property ID# 30-7s-10058-663

On the date of March 12, 2007 application 0703-19 and plans for construction of single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0703-19 when making reference to this application.

This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

1. **Covered Porches:** Please have Schafer Engineering show the method of attachment of the 4"X4"X9" porch columns to the foundation. Also show the header beam size and the attachment method of the beams to the porch columns along with the attachment of the header beams to the 8" CMU block walls.
2. **Bonus area & unfinished storage area rooms second story:**
   A. Although not shown as bedrooms please verify the windows which will be installed will meet the requirements of the FBC

section R310.1.1 Minimum opening area: All eme gency escape and rescue openings shall have a minimum net cl ear opening of 5.7 square feet (0.530 m2). R310.1.2 Minimum openi g height: The minimum net clear opening height shall be 24 incl es (610 mm): R310.1.3 Minimum opening width. The minimum n et clear opening width shall be 20 inches (508 mm).

B. Please show the thickness and type material w ich will be used as flooring upon the trusses which are design to s pport a live load.

3. On the electrical plans identify the electrical service overc rrent protection device for the main electrical service. This device shall be in talled on the exterior of structures to serve as a disconnecting means for he utility company electrical service. Conductors used from the exteri r disconnecting means to a panel or sub panel shall have four-wire conductc s, of which one conductor shall be used as an equipment ground.

Thank You:

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

SCHAFER ENGINEERING, LLC

7104 NW 42ND LANE GAINESVILLE FL 32606 PH. 386-462-1340 – 352-375-6329

March 15, 2007

Job: lot 63 Santa Fe River Plantation

Re: Open Porch Headers

Dear Sir:

Install 2 ply 2 x 12 pt syp #2 or better headers for all porch headers. The truss span will be a maximum span of 8'-8" with the maximum header span of 10'-0"

If you have any questions or if we can be any further assistance, please feel free to contact us at your convenience.

3-15-07

Bruce Schafer, P.E.
48984
7104 N. W. 42nd Lane
Gainesville, Florida 32606

ENGINEERING BY
TRENCO
A MiTek Affiliate

RE: HINTA -

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:
Project Customer: Project Name:
Lot/Block: 63 Subdivision: Santa Fe River Plantation
Address:
City: Fort White State: Florida

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2004/TPI2002 Design Program: MiTek 20/20 6.5
Wind Code: ASCE 7-02 Wind Speed: 110 mph Floor Load: 55.0 psf
Roof Load: 40.0 psf

This package includes 20 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Job ID#	Truss Name	Date	No.	Seal#	Job ID#	Truss Name	Date
1	E3875702	HINTA	A1	2/20/07	18	E3875719	HINTA	E1	2/20/07
2	E3875703	HINTA	A2	2/20/07	19	E3875720	HINTA	EET	2/20/07
3	E3875704	HINTA	A3	2/20/07	20	E3875721	HINTA	PIG1	2/20/07
4	E3875705	HINTA	A5	2/20/07					
5	E3875706	HINTA	A6	2/20/07					
6	E3875707	HINTA	AET1	2/20/07					
7	E3875708	HINTA	AET2	2/20/07					
8	E3875709	HINTA	AGT1	2/20/07					
9	E3875710	HINTA	AGT2	2/20/07					
10	E3875711	HINTA	B1	2/20/07					
11	E3875712	HINTA	B2	2/20/07					
12	E3875713	HINTA	BET	2/20/07					
13	E3875714	HINTA	BGT	2/20/07					
14	E3875715	HINTA	C1	2/20/07					
15	E3875716	HINTA	CET	2/20/07					
16	E3875717	HINTA	D1	2/20/07					
17	E3875718	HINTA	DET	2/20/07					

The truss drawing(s) referenced above have been prepared by TRENCO under my direct supervision based on the parameters provided by Santa Fe Truss.

Truss Design Engineer's Name: Strzyzewski, Marvin
My license renewal date for the state of is February 28, 2009.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-2002 Chapter 2.

Marvin A. Strzyzewski PE Lic #43144
Truss Engineering Company
818 Soundside Rd.
Edenton, NC 27932
FL Cert.#7239

February 20,2007
Strzyzewski, Marvin

Job	Truss	Truss Type	Qty	Ply	E3875702
HINTA	A1	ROOF TRUSS	5	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:06 2007 Page 1

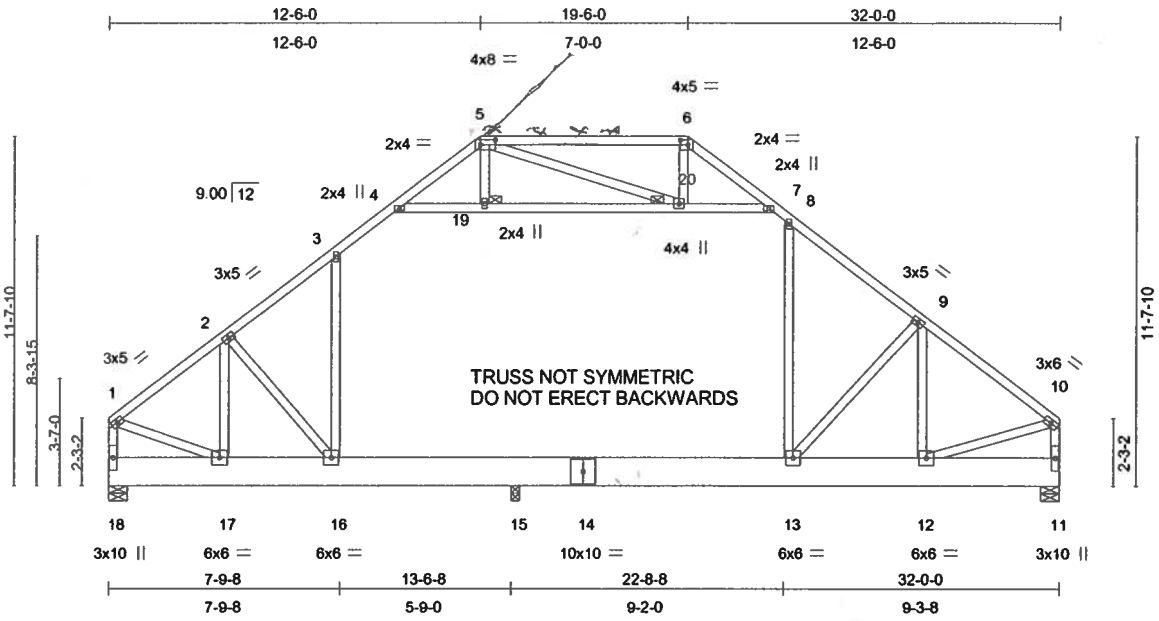


Plate Offsets (X,Y): [5:0-6-0,0-2-0], [6:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.16	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.23	13-15	>945	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 312 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 12 SYP 2250F 1.9E
WEBS 2 X 4 SYP No.3 *Except*
4-7 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS (lb/size) 18=1171/0-7-10, 11=1316/0-7-10, 15=1422/0-3-8
Max Horz 18=-327(LC 3)
Max Uplift18=-48(LC 5), 11=-61(LC 6), 15=-7(LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1096/83, 2-3=-1176/142, 3-4=-1049/125, 4-5=-670/190, 5-6=-529/170, 6-7=-681/163, 7-8=-976/120, 8-9=-1186/118, 9-10=-1349/101, 1-18=-1069/69, 10-11=-1243/84
BOT CHORD 17-18=-324/319, 16-17=-288/829, 15-16=-117/865, 14-15=-117/865, 13-14=-117/865, 12-13=0/1021, 11-12=-13/93
WEBS 1-17=0/836, 5-19=0/63, 5-20=-80/117, 6-20=0/70, 8-13=-38/185, 9-13=-354/251, 9-12=-150/234, 10-12=0/994, 3-16=-98/189, 4-19=-375/134, 19-20=-371/136, 7-20=-339/120, 2-17=-442/244, 2-16=-223/268

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-19, 19-20, 7-20
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-16, 13-15
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 18, 61 lb uplift at joint 11 and 7 lb uplift at joint 15.

LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875704
HINTA	A3	ROOF TRUSS	5	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:08 2007 Page 1

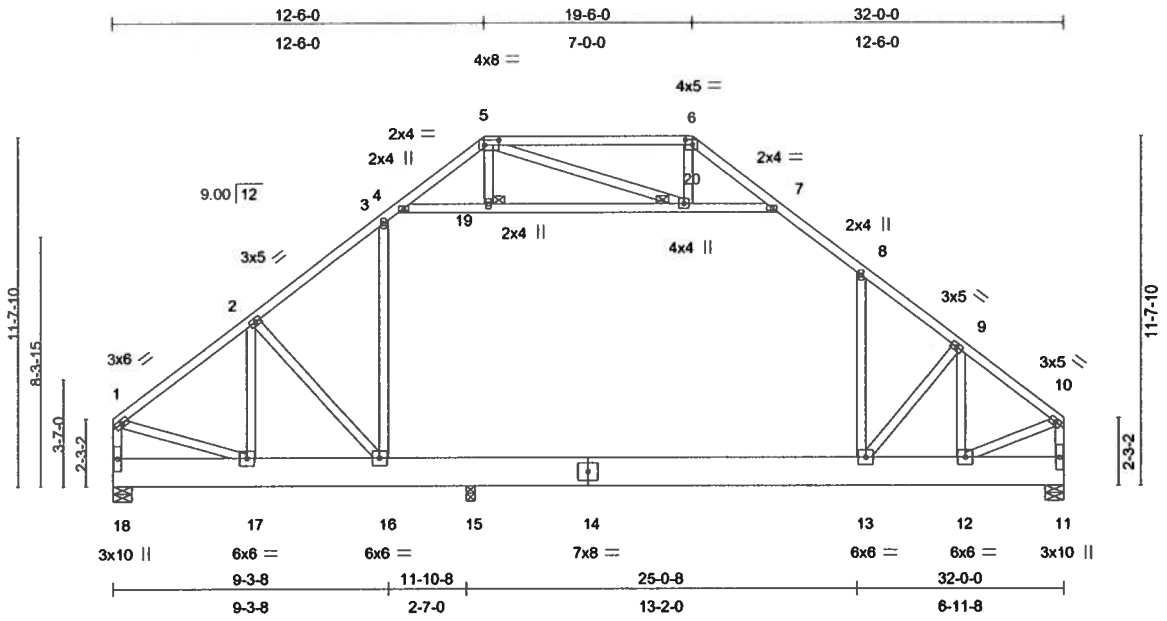


Plate Offsets (X,Y): [5:0-6-0,0-2-0], [6:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	-0.29	13-15	>808	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.43	13-15	>553	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 310 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 12 SYP 2250F 1.9E
WEBS 2 X 4 SYP No.3 *Except*
4-7 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS (lb/size) 18=1093/0-7-10, 11=1538/0-7-10, 15=1349/0-3-8
Max Horz 18=-327(LC 3)
Max Uplift18=-72(LC 6), 11=-87(LC 3), 15=-119(LC 4)
Max Grav 18=1093(LC 1), 11=1538(LC 1), 15=1463(LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1011/113, 2-3=-1328/299, 3-4=-1071/203, 4-5=-653/177, 5-6=-448/162, 6-7=-626/159, 7-8=-1180/181, 8-9=-1365/106, 9-10=-1430/117, 1-18=-936/81, 10-11=-1447/100
BOT CHORD 17-18=-325/318, 16-17=-195/748, 15-16=0/987, 14-15=0/987, 13-14=0/987, 12-13=-13/1110, 11-12=-11/54
WEBS 1-17=-108/696, 5-19=0/62, 5-20=-96/42, 6-20=0/88, 8-13=0/235, 9-13=-219/181, 9-12=-101/95, 10-12=-23/1188, 3-16=-167/354, 4-19=-544/184, 19-20=-540/186, 7-20=-544/161, 2-17=-824/234, 2-16=-227/571

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-19, 19-20, 7-20
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-16, 13-15
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 18, 87 lb uplift at joint 11 and 119 lb uplift at joint 15.

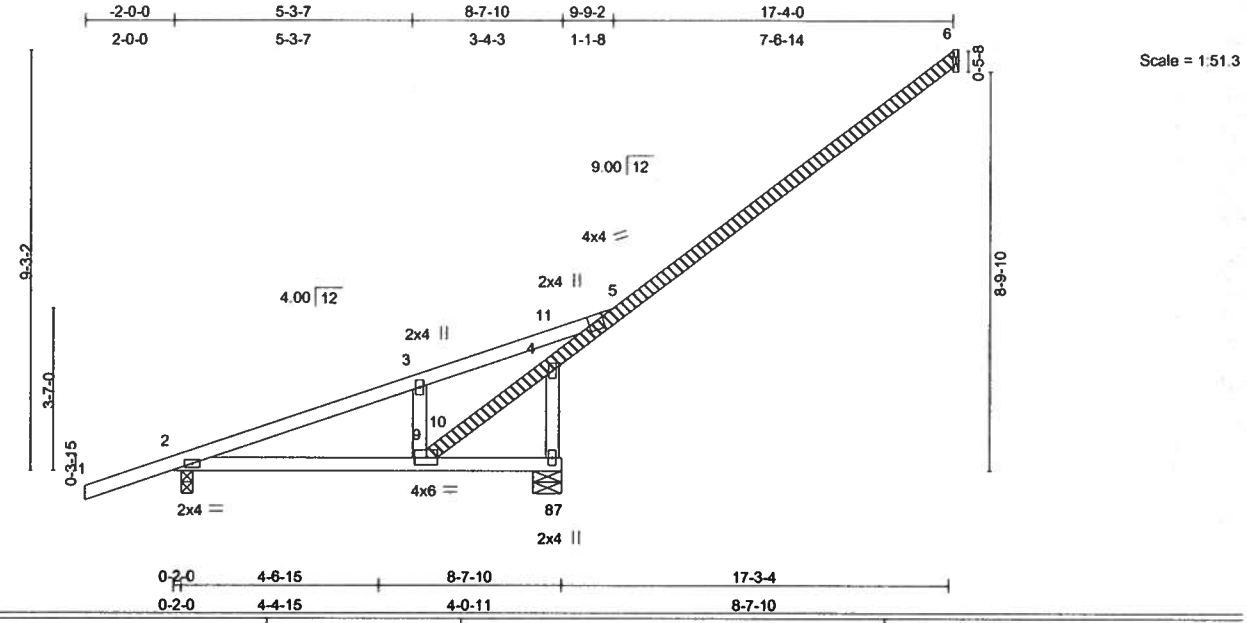
LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875705
HINTA	A5	ROOF TRUSS	1	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:08 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.72	Vert(LL)	0.07	2-9	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.12	2-9	>800	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.07	6	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 81 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP No.2D
WEBS 2 X 4 SYP No.3
LBR SCAB 6-9 2 X 4 SYP No.2D one side

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 4-5
10-0-0 oc bracing: 4-9
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=227/Mechanical, 8=878/0-7-10, 2=418/0-3-0
Max Horz 2=309(LC 5)
Max Uplift6=-143(LC 5), 8=-358(LC 5), 2=-316(LC 3)
Max Grav6=227(LC 1), 8=878(LC 1), 2=461(LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-418/252, 3-11=-415/310, 5-11=-359/314, 9-10=-387/517, 4-10=-387/517, 4-5=-314/248, 5-6=-126/109, 4-8=-834/339
BOT CHORD 2-9=-265/346, 8-9=-16/27, 7-8=0/0
WEBS 3-9=-334/155

NOTES
1) Attached 14-9-1 scab 6 to 9, front face(s) 2 X 4 SYP No.2D with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 2-6-2 from end at joint 9, nail 1 row(s) at 7 o.c. for 3-9-1.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 6, 358 lb uplift at joint 8 and 316 lb uplift at joint 2.
8) Design requires purlins at oc spacing indicated.

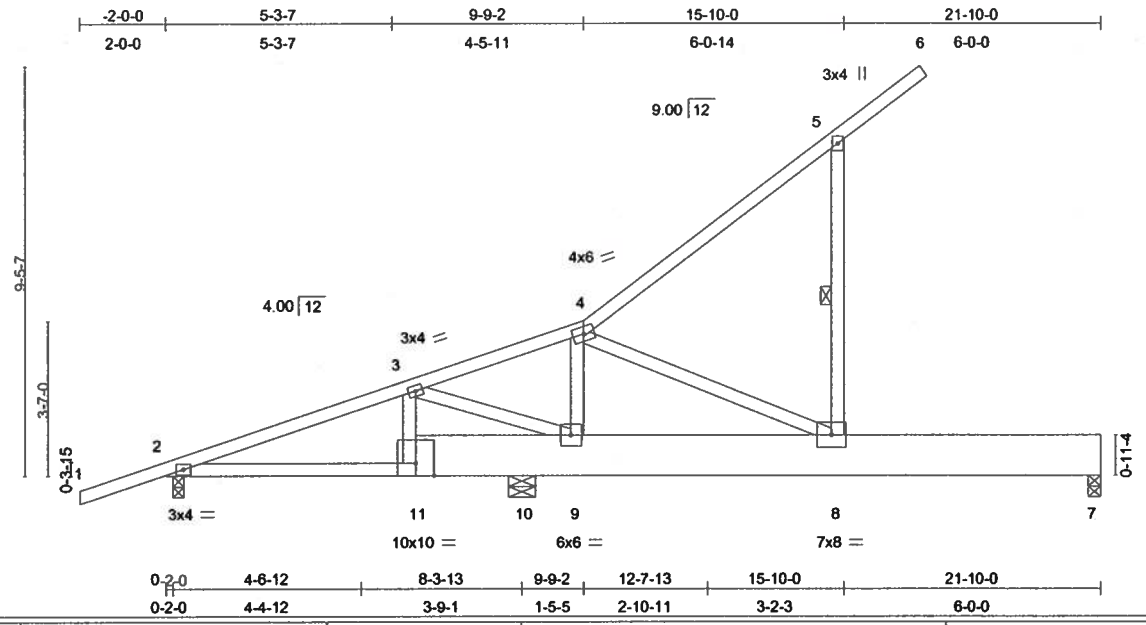
LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875706
HINTA	A6	PORCH TRUSS	1	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:09 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.03	8	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.07	8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(TL)	-0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 150 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP No.2D *Except*
7-11 2 X 12 SYP 2250F 1.9E
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 7-8.
WEBS 1 Row at midpt 5-8

REACTIONS (lb/size) 7=178/0-3-8, 2=224/0-3-0, 10=1210/0-7-10
Max Horz 2=353(LC 4)
Max Uplift7=-35(LC 4), 2=-288(LC 3), 10=-171(LC 5)
Max Grav 7=204(LC 2), 2=224(LC 1), 10=1210(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-403/440, 3-4=-310/412, 4-5=-215/127, 5-6=-72/0, 5-8=-293/217
BOT CHORD 2-11=-365/118, 10-11=-365/122, 9-10=-390/124, 8-9=-324/94, 7-8=0/0
WEBS 3-9=-63/232, 4-9=-592/116, 4-8=-65/373, 3-11=-309/126

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 7, 288 lb uplift at joint 2 and 171 lb uplift at joint 10.

LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875707
HINTA	AET1	ROOF TRUSS	1	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:11 2007 Page 1

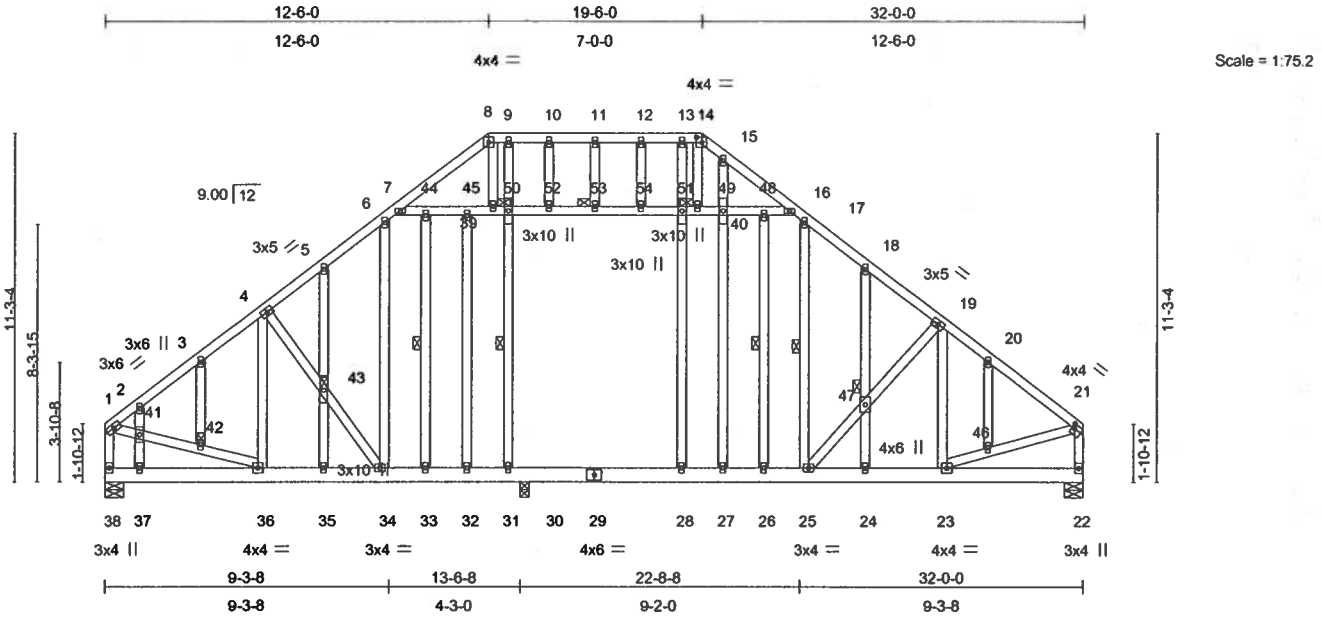


Plate Offsets (X,Y): [14:0-2-4,0-2-0], [21:0-1-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.22	25	>979	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.35	25	>620	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(TL)	0.03	22	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 353 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
7-16 2 X 4 SYP No.2

REACTIONS (lb/size) 38=1395/0-7-10, 22=1438/0-7-10, 30=293/0-3-8
Max Horz 38=-322(LC 3)
Max Uplift 38=-175(LC 3), 22=-205(LC 3), 30=-517(LC 4)
Max Grav 38=1395(LC 1), 22=1526(LC 9), 30=683(LC 8)

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 17-25, 33-44, 31-50, 26-48
JOINTS 1 Brace at Jt(s): 39, 40, 42, 43, 47, 53

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

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1460/241, 2-3=-1499/242, 3-4=-1407/245, 4-5=-1519/404, 5-6=-1506/411, 6-7=-1450/432, 7-8=-1418/580, 8-9=-1165/471, 9-10=-1163/469, 10-11=-1163/469, 11-12=-1163/469, 12-13=-1163/469, 13-14=-1170/471, 14-15=-1331/530, 15-16=-1440/506, 16-17=-1540/395, 17-18=-1536/307, 18-19=-1606/272, 19-20=-1498/276, 20-21=-1690/269, 1-38=-1127/179, 21-22=-1472/237
BOT CHORD 37-38=-275/290, 36-37=-275/290, 35-36=0/1134, 34-35=0/1134, 33-34=-43/1208, 32-33=-43/1208, 31-32=-43/1208, 30-31=-43/1208, 29-30=-43/1208, 28-29=-43/1208, 27-28=-43/1208, 26-27=-43/1208, 25-26=-43/1208, 24-25=-131/1264, 23-24=-131/1264, 22-23=-18/171
WEBS 1-41=-187/986, 41-42=-191/1014, 36-42=-196/1027, 8-39=-302/726, 14-40=-209/424, 17-25=-117/146, 25-47=-112/144, 19-47=-91/129, 19-23=-312/10, 23-46=-131/1193, 21-46=-130/1145, 6-34=-50/193, 7-44=-357/237, 44-45=-357/237, 39-45=-357/237, 39-50=-342/249, 50-52=-342/249, 52-53=-342/249, 53-54=-342/249, 51-54=-342/249, 40-51=-342/249, 40-49=-346/243, 48-49=-346/243, 16-48=-346/243, 4-36=-358/227, 4-43=-236/266, 34-43=-265/296, 2-41=-126/80, 37-41=-235/99, 3-42=-14/53, 5-43=-68/53, 35-43=-73/40, 33-44=-105/76, 32-45=-108/243, 31-50=-251/399, 20-46=-6/140, 18-47=-55/62, 24-47=-29/48, 26-48=-28/38, 27-49=-76/202, 15-49=-13/90, 9-50=-204/123, 28-51=-67/255, 10-52=-27/41, 11-53=-45/30, 13-51=-4/116, 12-54=-37/29

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Ceiling dead load (5.0 psf) on member(s). 7-44, 44-45, 39-45, 39-50, 50-52, 52-53, 53-54, 51-54, 40-51, 40-49, 48-49, 16-48
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 30-31, 28-30
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 38, 205 lb uplift at joint 22 and 517 lb uplift at joint 30.

Continued on page 2

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875707
HINTA	AET1	ROOF TRUSS	1	1	Job Reference (optional)

LOAD CASE(S) Standard

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

Job	Truss	Truss Type	Qty	Ply	E3875703
HINTA	A2	ROOF TRUSS	7	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:07 2007 Page 1

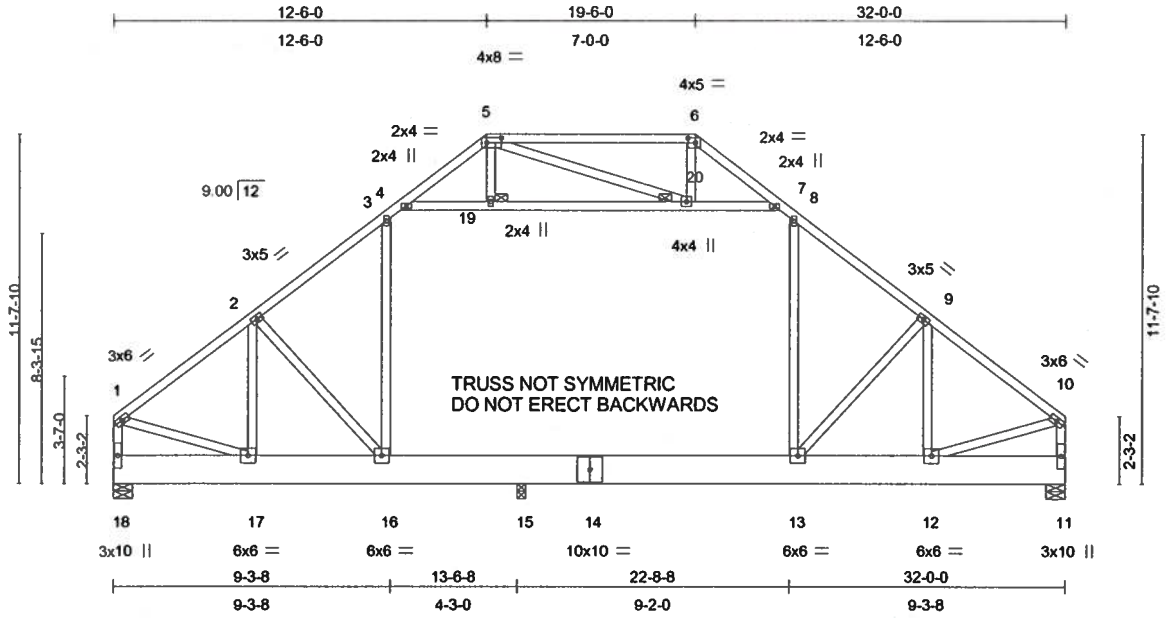


Plate Offsets (X,Y): [5:0-6-0,0-2-0], [6:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.13	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.19	13-15	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 317 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 12 SYP 2250F 1.9E
WEBS 2 X 4 SYP No.3 *Except*
4-7 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS (lb/size) 18=1230/0-7-10, 11=1397/0-7-10, 15=1143/0-3-8
Max Horz 18=-327(LC 3)
Max Uplift18=-61(LC 6), 11=-94(LC 6), 15=-105(LC 4)
Max Grav 18=1230(LC 1), 11=1397(LC 1), 15=1200(LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1200/96, 2-3=-1328/243, 3-4=-1078/168, 4-5=-673/173, 5-6=-520/161, 6-7=-676/158, 7-8=-1074/157, 8-9=-1338/135, 9-10=-1428/130, 1-18=-1107/68, 10-11=-1312/110
BOT CHORD 17-18=-325/319, 16-17=-212/899, 15-16=-2/987, 14-15=-2/987, 13-14=-2/987, 12-13=-7/1083, 11-12=-15/97
WEBS 1-17=-45/855, 5-19=0/63, 5-20=-58/66, 6-20=0/69, 8-13=0/249, 9-13=-196/177, 9-12=-141/112, 10-12=-3/1055, 3-16=-131/318, 4-19=-505/181, 19-20=-500/184, 7-20=-470/159, 2-17=-565/261, 2-16=-252/367

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-19, 19-20, 7-20
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-16, 13-15
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 18, 94 lb uplift at joint 11 and 105 lb uplift at joint 15.

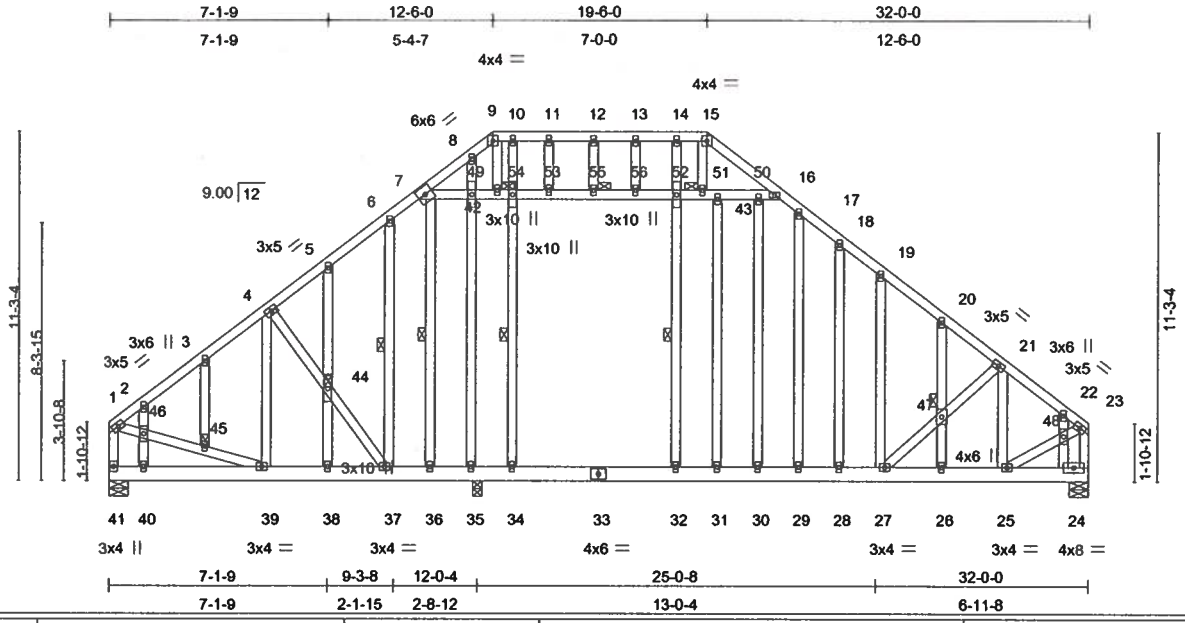
LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875708
HINTA	AET2	GABLE	1	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:13 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	0.11	27	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.15	27	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(TL)	0.02	24	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 360 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 24-25.
WEBS 1 Row at midpt 6-37, 7-36, 34-54, 32-52
JOINTS 1 Brace at Jt(s): 42, 43, 44, 45, 47, 55

REACTIONS (lb/size) 41=1197/0-7-10, 24=1241/0-7-10, 35=93/0-3-8
Max Horz 41=403(LC 4)
Max Uplift 41=-385(LC 6), 24=-385(LC 6), 35=-538(LC 4)
Max Grav 41=1197(LC 1), 24=1271(LC 10), 35=524(LC 3)

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

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1228/396, 2-3=-1263/457, 3-4=-1196/484, 4-5=-1181/575, 5-6=-1152/591, 6-7=-1162/650, 7-8=-757/489, 8-9=-691/438, 9-10=-617/400, 10-11=-615/399, 11-12=-615/399, 12-13=-615/399, 13-14=-615/399, 14-15=-616/399, 15-16=-783/439, 16-17=-1087/493, 17-18=-1181/568, 18-19=-1182/509, 19-20=-1195/455, 20-21=-1207/376, 21-22=-1022/379, 22-23=-925/306, 1-41=-988/314, 23-24=-993/325
BOT CHORD 40-41=-371/369, 39-40=-371/369, 38-39=-164/958, 37-38=-164/958, 36-37=-117/919, 35-36=-126/930, 34-35=-126/930, 33-34=-126/930, 32-33=-126/930, 31-32=-126/930, 30-31=-126/930, 29-30=-126/930, 28-29=-126/930, 27-28=-126/930, 26-27=-210/780, 25-26=-210/780, 24-25=-115/57
WEBS 1-46=-326/866, 45-46=-330/885, 39-45=-335/884, 9-42=-133/263, 15-43=-190/315, 19-27=-95/77, 27-47=-70/194, 21-47=-55/207, 21-25=-374/62, 25-48=-317/1061, 23-48=-334/1083, 6-37=-69/134, 7-49=-432/451, 42-49=-432/451, 42-54=-414/450, 53-54=-414/450, 53-55=-414/450, 55-56=-414/450, 52-56=-414/450, 43-52=-414/450, 43-51=-434/455, 50-51=-434/455, 16-50=-434/455, 4-39=-192/261, 4-44=-269/254, 37-44=-295/279, 5-44=-90/106, 38-44=-66/77, 3-45=-17/44, 2-46=-117/129, 40-46=-185/174, 20-47=-111/111, 26-47=-92/74, 22-48=-201/101, 24-48=-310/130, 7-36=-201/232, 35-49=-171/174, 34-54=-93/195, 8-49=-90/72, 17-29=-133/147, 18-28=-85/85, 30-50=-33/58, 31-51=-126/184, 32-52=-85/141, 11-53=-28/29, 10-54=-166/180, 14-52=-118/103, 12-55=-42/30, 13-56=-33/30

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 41, 385 lb uplift at joint 24 and 538 lb uplift at joint 35.

LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875709
HINTA	AGT1	ROOF TRUSS	1	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL — 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:14 2007 Page 1

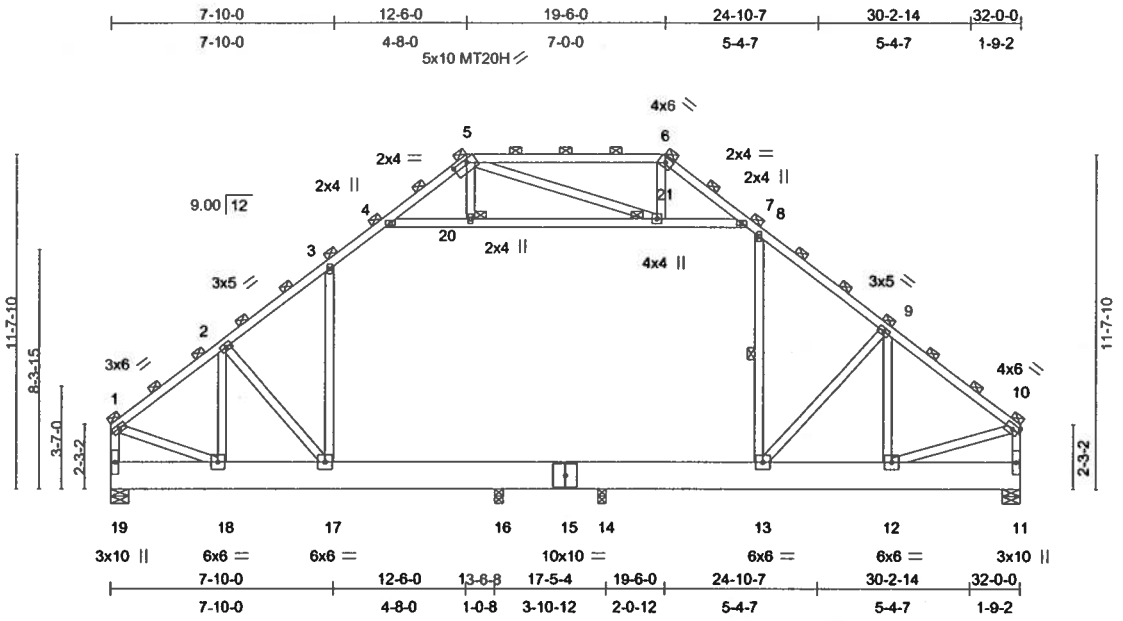


Plate Offsets (X,Y): [5:0-6-0,0-1-4]

LOADING (psf)		SPACING	3-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.07	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.11	12-13	>999	180	MT20H	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 313 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 12 SYP 2250F 1.9E
WEBS 2 X 4 SYP No.3 *Except*
4-7 2 X 4 SYP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (4-9-4 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-13
JOINTS 1 Brace at Jt(s): 1, 5, 6, 10, 20, 21

REACTIONS (lb/size) 19=1756/0-7-10, 11=1747/0-7-10, 16=1223/0-3-8, 14=1121/0-3-8
Max Horz 19=-491(LC 3)
Max Uplift19=-73(LC 5), 11=-67(LC 5), 16=-445(LC 4), 14=-526(LC 3)
Max Grav 19=1756(LC 1), 11=1747(LC 1), 16=1554(LC 8), 14=1543(LC 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1677/118, 2-3=-1566/122, 3-4=-1435/194, 4-5=-1034/264, 5-6=-794/251, 6-7=-1029/245, 7-8=-1344/208, 8-9=-1578/288, 9-10=-1762/126, 1-19=-1635/96, 10-11=-1627/86
BOT CHORD 18-19=-484/478, 17-18=-419/1267, 16-17=-266/1148, 15-16=-266/1148, 14-15=-266/1148, 13-14=-266/1148, 12-13=-66/1318, 11-12=-21/142
WEBS 1-18=0/1276, 5-20=0/92, 5-21=-90/112, 6-21=0/113, 8-13=-174/260, 9-13=-399/331, 9-12=-211/294, 10-12=-62/1258, 3-17=-206/212, 4-20=-359/169, 20-21=-353/173, 7-21=-359/215, 2-18=-169/195, 2-17=-245/278

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-20, 20-21, 7-21
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-17, 14-16, 13-14
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 19, 67 lb uplift at joint 11, 445 lb uplift at joint 16 and 526 lb uplift at joint 14.
10) Design requires purlins at oc spacing indicated.

LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875710
HINTA	AGT2	ROOF TRUSS	1	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:15 2007 Page 1

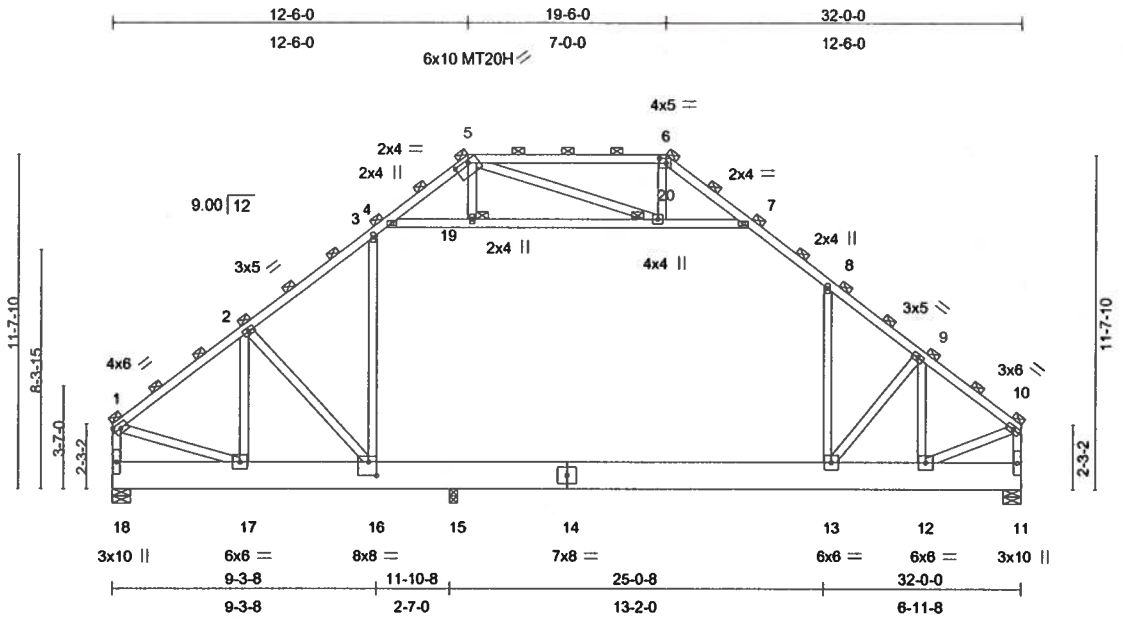


Plate Offsets (X,Y): [5:0-6-0,0-1-4], [6:0-3-0,0-2-0], [16:0-3-8,0-5-12]

LOADING (psf)		SPACING	3-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	-0.43	13-15	>556	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.62	13-15	>382	180	MT20H	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.58	Horz(TL)	0.02	11	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 310 lb	

LUMBER
TOP CHORD 2 X 4 SYP 2400F 2.0E *Except* 5-6 2 X 4 SYP No.2D
BOT CHORD 2 X 12 SYP 2250F 1.9E
WEBS 2 X 4 SYP No.3 *Except* 4-7 2 X 4 SYP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (4-6-1 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 7-7-7 oc bracing.
JOINTS 1 Brace at Jt(s): 1, 5, 6, 10, 19, 20

REACTIONS (lb/size) 18=1683/0-7-10, 11=2333/0-7-10, 15=1954/0-3-8
Max Horz 18=-491(LC 3)
Max Uplift 18=-113(LC 6), 11=-132(LC 3), 15=-190(LC 4)
Max Grav 18=1683(LC 1), 11=2333(LC 1), 15=2133(LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1569/173, 2-3=-2051/452, 3-4=-1642/307, 4-5=-977/269, 5-6=-662/244, 6-7=-933/242, 7-8=-1809/274, 8-9=-2118/163, 9-10=-2176/177, 1-18=-1451/127, 10-11=-2200/151
BOT CHORD 17-18=-485/476, 16-17=-286/1164, 15-16=0/1527, 14-15=0/1527, 13-14=0/1527, 12-13=-22/1692, 11-12=-16/82
WEBS 1-17=-163/1088, 5-19=0/94, 5-20=-150/62, 6-20=0/133, 8-13=0/400, 9-13=-297/268, 9-12=-215/131, 10-12=-38/1812, 3-16=-252/567, 4-19=-865/281, 19-20=-858/284, 7-20=-871/249, 2-17=-1246/351, 2-16=-341/865

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-19, 19-20, 7-20
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-16, 13-15
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 18, 132 lb uplift at joint 11 and 190 lb uplift at joint 15.
10) Design requires purlins at oc spacing indicated.

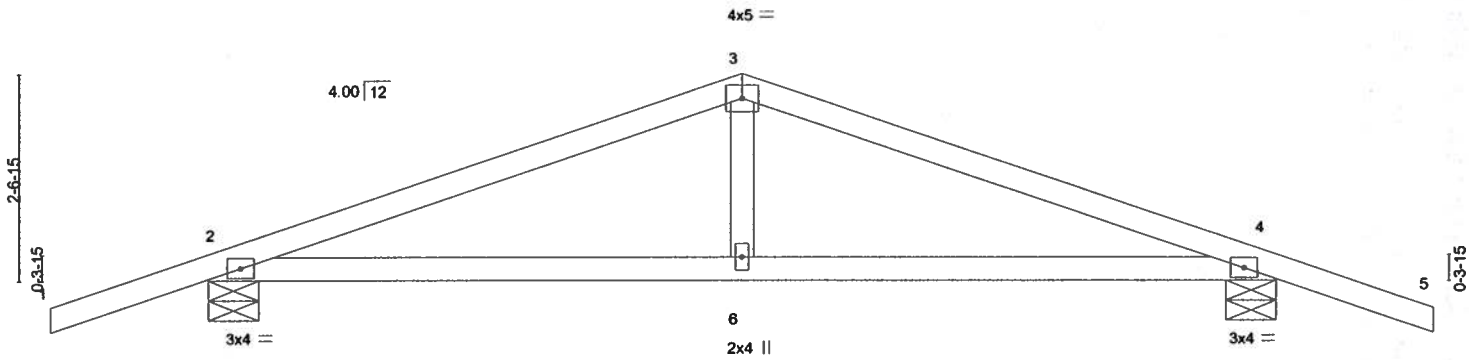
LOAD CASE(S) Standard

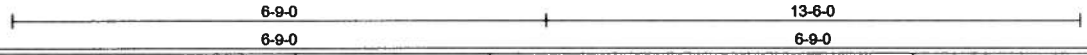
February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875711
HINTA	B1	COMMON	7	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:16 2007 Page 1





LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.03	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.10	4-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.02	4	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 51 lb	

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

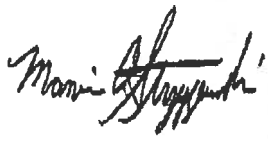
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=654/0-7-10, 4=654/0-7-10
Max Horz 2=-50(LC 6)
Max Uplift2=-164(LC 3), 4=-164(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-897/70, 3-4=-897/70, 4-5=0/37
BOT CHORD 2-6=-18/788, 4-6=-18/788
WEBS 3-6=0/289

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2 and 164 lb uplift at joint 4.

LOAD CASE(S) Standard

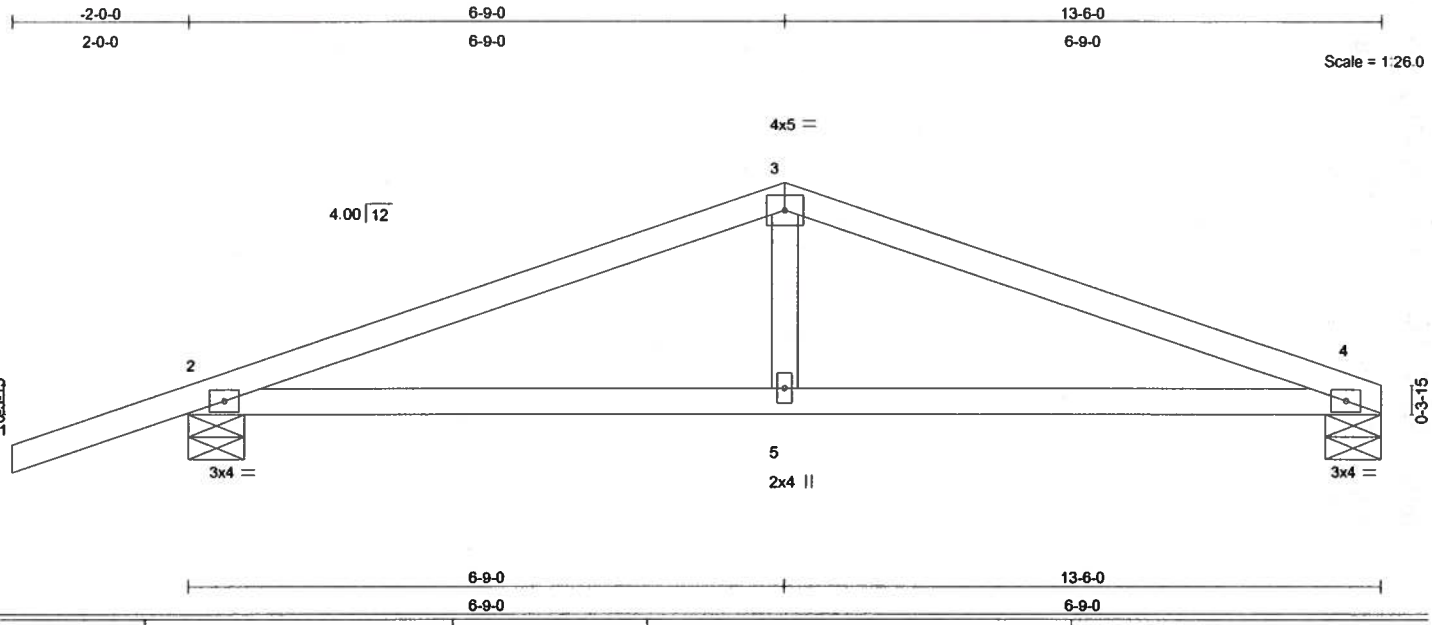


February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875712
HINTA	B2	COMMON	4	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:17 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.12	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.02	4	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 48 lb	

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

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

REACTIONS (lb/size) 4=502/0-7-10, 2=666/0-7-10
Max Horz 2=59(LC 5)
Max Uplift4=-61(LC 4), 2=-166(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-951/110, 3-4=-947/101
BOT CHORD 2-5=-49/841, 4-5=-49/841
WEBS 3-5=0/296

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 4 and 166 lb uplift at joint 2.

LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875713
HINTA	BET	GABLE	1	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:18 2007 Page 1

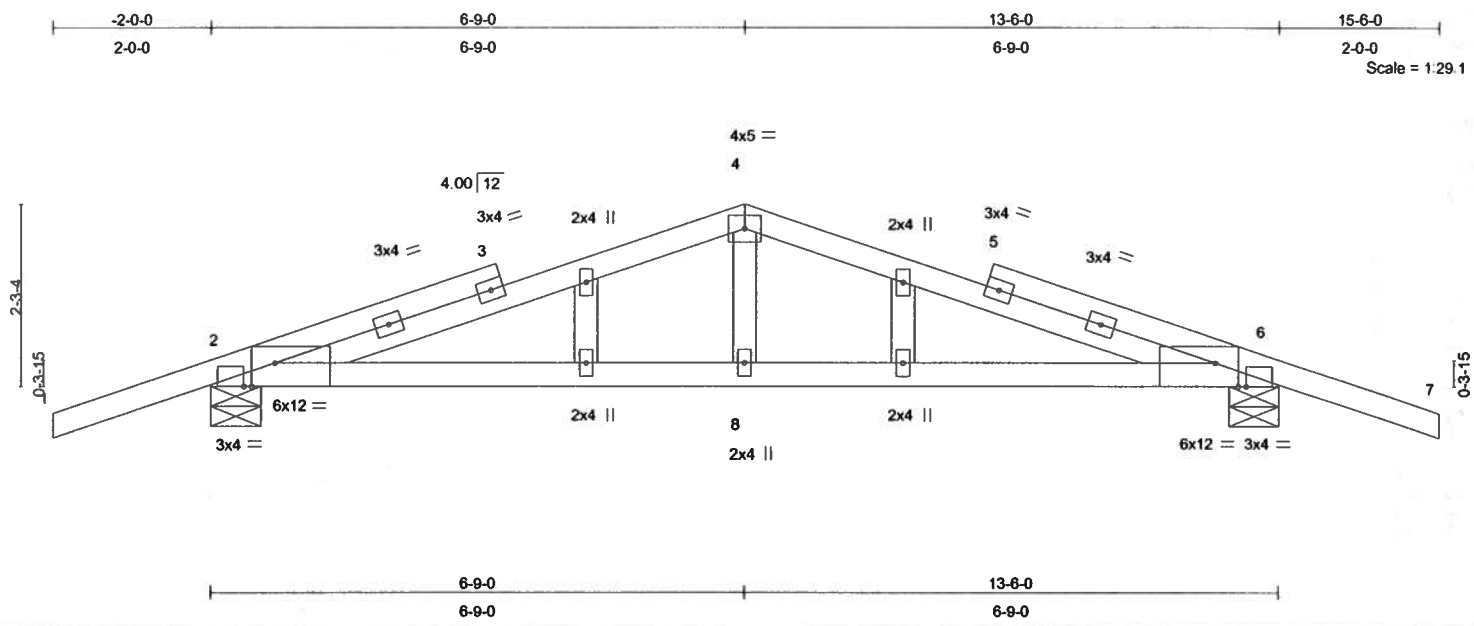


Plate Offsets (X,Y): [2:0-3-9,Edge], [2:0-4-12,Edge], [6:0-3-9,Edge], [6:0-4-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.03	6-8	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.10	6-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 62 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP No.2D
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 2=654/0-7-10, 6=654/0-7-10
Max Horz 2=47(LC 5)
Max Uplift2=-165(LC 3), 6=-165(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-1000/64, 3-4=-943/73, 4-5=-943/73, 5-6=-1000/63, 6-7=0/37
BOT CHORD 2-8=-27/910, 6-8=-27/910
WEBS 4-8=0/273

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2 and 165 lb uplift at joint 6.

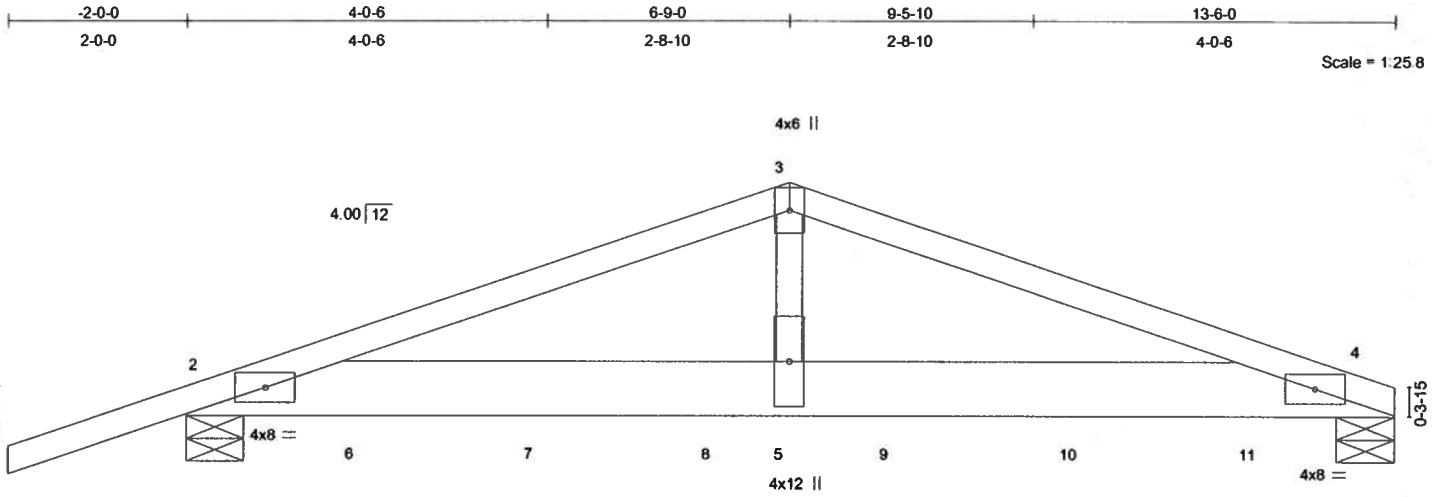
LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875714
HINTA	BGT	COMMON	1	2	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:19 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.12	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.24	4-5	>640	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(TL)	0.04	4	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 137 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 4=4753/0-7-10, 2=6183/0-7-10
Max Horz 2=65(LC 5)
Max Uplift4=-430(LC 4), 2=-730(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-9067/813, 3-4=-9066/806
BOT CHORD 2-6=-722/8575, 6-7=-722/8575, 7-8=-722/8575, 5-8=-722/8575, 5-9=-722/8575, 9-10=-722/8575, 10-11=-722/8575, 4-11=-722/8575
WEBS 3-5=-379/5199

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-3-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 430 lb uplift at joint 4 and 730 lb uplift at joint 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1506 lb down and 215 lb up at 0-3-13, 1377 lb down and 119 lb up at 1-11-4, 1377 lb down and 119 lb up at 3-11-4, 1377 lb down and 119 lb up at 5-11-4, 1377 lb down and 119 lb up at 7-11-4, and 1377 lb down and 119 lb up at 9-11-4, and 1377 lb down and 119 lb up at 11-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 2-4=-20

Continued on page 2

February 20,2007

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

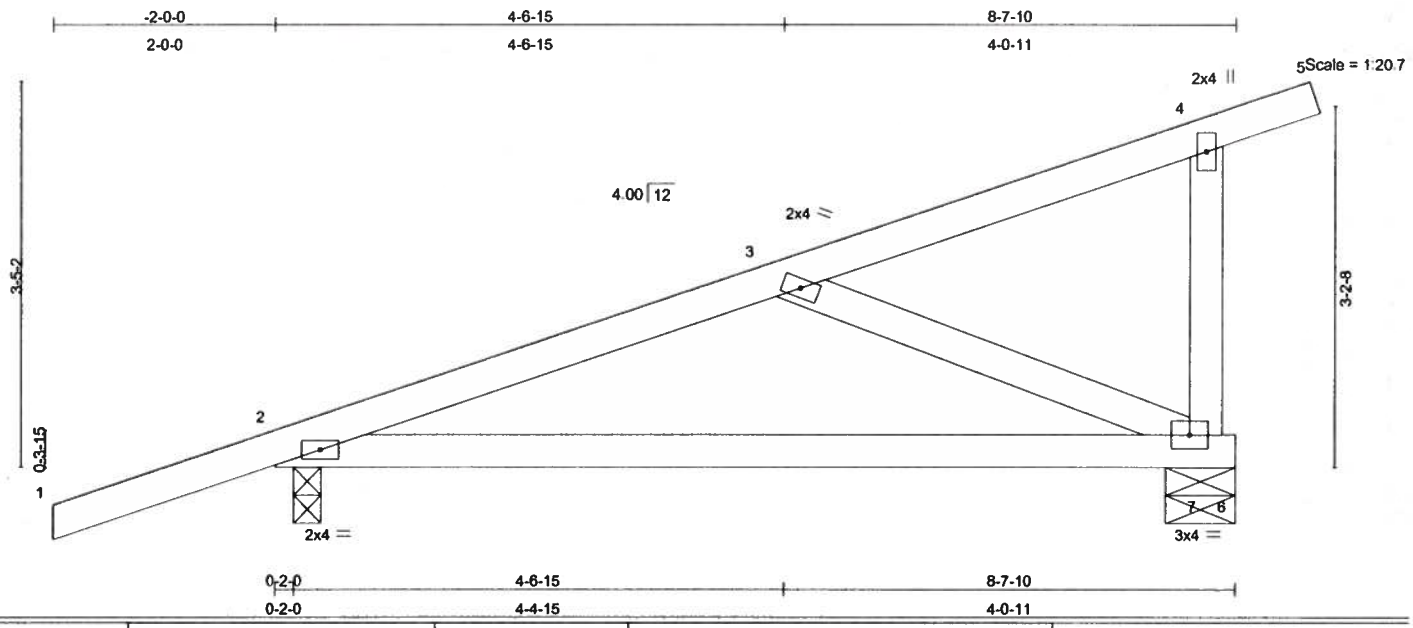
LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 2=-1506(F) 6=-1377(F) 7=-1377(F) 8=-1377(F) 9=-1377(F) 10=-1377(F) 11=-1377(F)

Job	Truss	Truss Type	Qty	Ply	E3875715
HINTA	C1	MONO TRUSS	32	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:19 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.19	2-7	>512	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.41	Vert(TL)	-0.48	2-7	>205	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 40 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 7=381/0-7-10, 2=470/0-3-0
Max Horz 2=132(LC 4)
Max Uplift7=-68(LC 4), 2=-140(LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-398/101, 3-4=-57/33, 4-5=-18/0, 4-7=-162/73
BOT CHORD 2-7=-117/330, 6-7=0/0
WEBS 3-7=-355/134

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 7 and 140 lb uplift at joint 2.

LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875716
HINTA	CET	GABLE	3	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:20 2007 Page 1

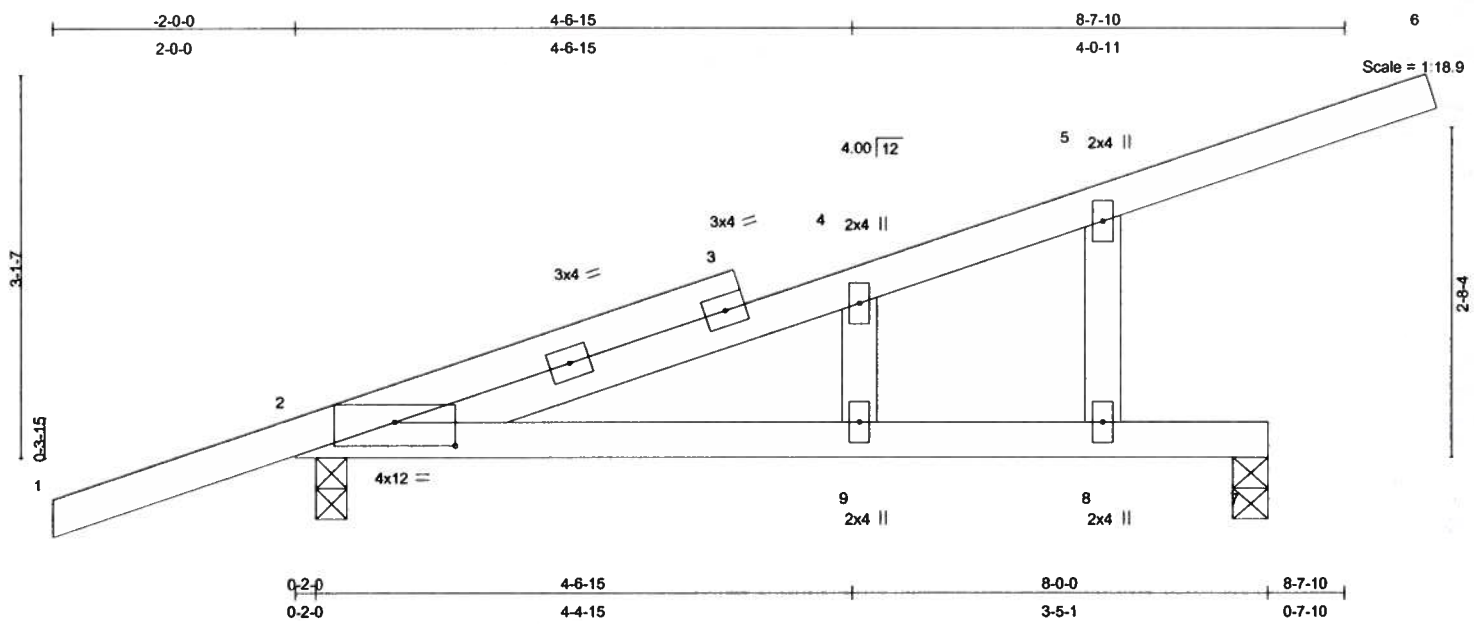


Plate Offsets (X,Y): [2:0-6-0,0-2-5]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	-0.12	9	>791	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.31	9	>300	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 38 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP 2400F 2.0E
OTHERS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 7=389/0-3-8, 2=446/0-3-0
Max Horz 2=117(LC 3)
Max Uplift7=-103(LC 4), 2=-128(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-74/0, 3-4=-65/9, 4-5=-77/101, 5-6=-51/0
BOT CHORD 2-9=0/0, 8-9=0/0, 7-8=0/0
WEBS 5-8=-480/196, 4-9=-47/144

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 7 and 128 lb uplift at joint 2.
7) Non Standard bearing condition. Review required.

LOAD CASE(S) Standard

February 20,2007

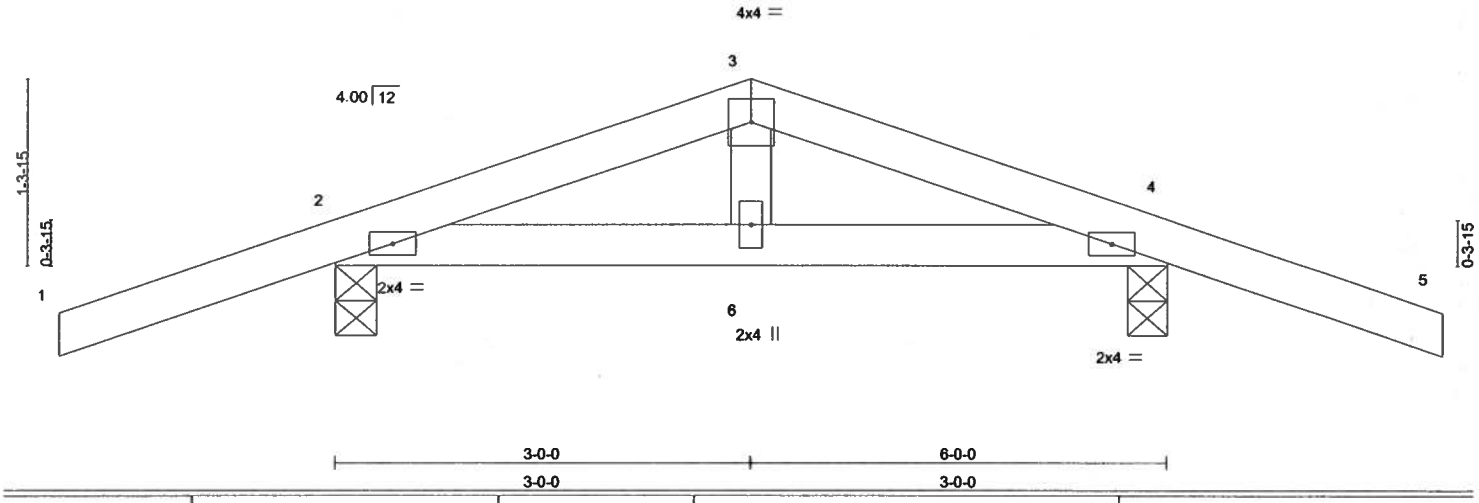
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	
HINTA	D1	COMMON	1	1	E3875717

Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:20 2007 Page 1

Scale = 1:16.6



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.23	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	2-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

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

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

REACTIONS (lb/size) 2=357/0-3-8, 4=357/0-3-8
Max Horz 2=36(LC 5)
Max Uplift2=-130(LC 3), 4=-130(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-251/0, 3-4=-251/0, 4-5=0/37
BOT CHORD 2-6=0/222, 4-6=0/222
WEBS 3-6=0/135

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 2 and 130 lb uplift at joint 4.

LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875718
HINTA	DET	COMMON	1	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:21 2007 Page 1

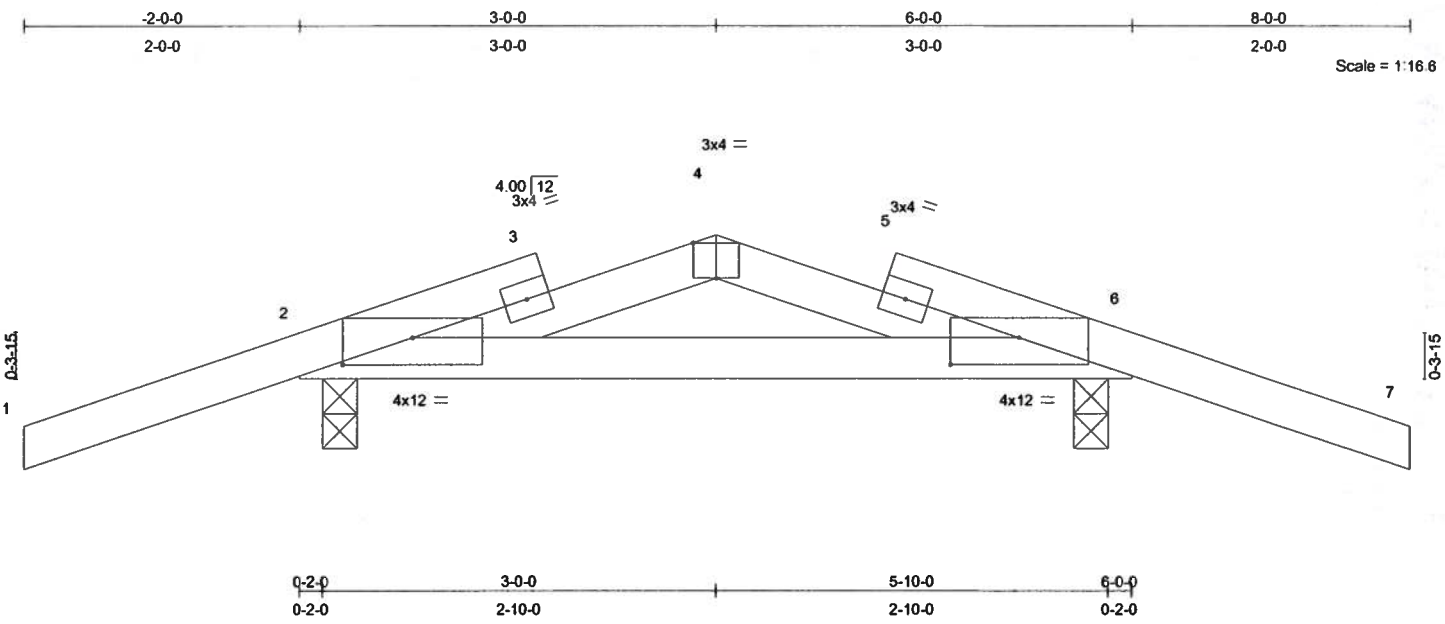


Plate Offsets (X,Y): [2:0-6-0,0-2-5], [4:0-2-0,Edge], [6:0-6-0,0-2-5]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.05	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.13	2-6	>511	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 28 lb	

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

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

REACTIONS (lb/size) 2=358/0-3-0, 6=358/0-3-0
Max Horz 2=-32(LC 6)
Max Uplift2=-129(LC 3), 6=-129(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-186/20, 3-4=-164/29, 4-5=-164/29, 5-6=-186/20, 6-7=0/37
BOT CHORD 2-6=-1/156

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 2 and 129 lb uplift at joint 6.

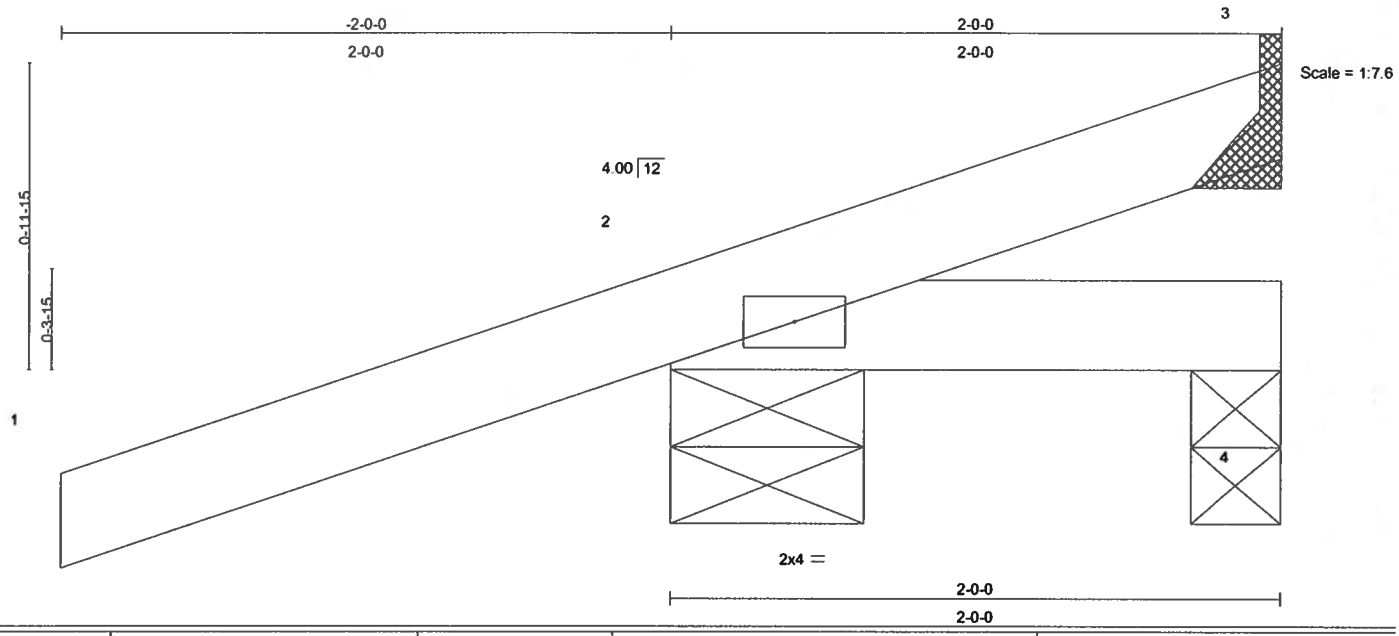
LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875719
HINTA	E1	MONO TRUSS	2	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:21 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.00	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 9 lb	

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

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

REACTIONS (lb/size) 2=267/0-7-10, 4=19/0-3-8, 3=-10/Mechanical
Max Horz 2=54(LC 3)
Max Uplift2=-142(LC 3), 3=-10(LC 1)
Max Grav 2=267(LC 1), 4=38(LC 2), 3=26(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-42/8
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 2 and 10 lb uplift at joint 3.

LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply		
HINTA	EET	MONO TRUSS	2	1	Job Reference (optional)	3 E3875720

SANTA FE TRUSS, HIGH SPRINGS, FL — 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:22 2007 Page 1

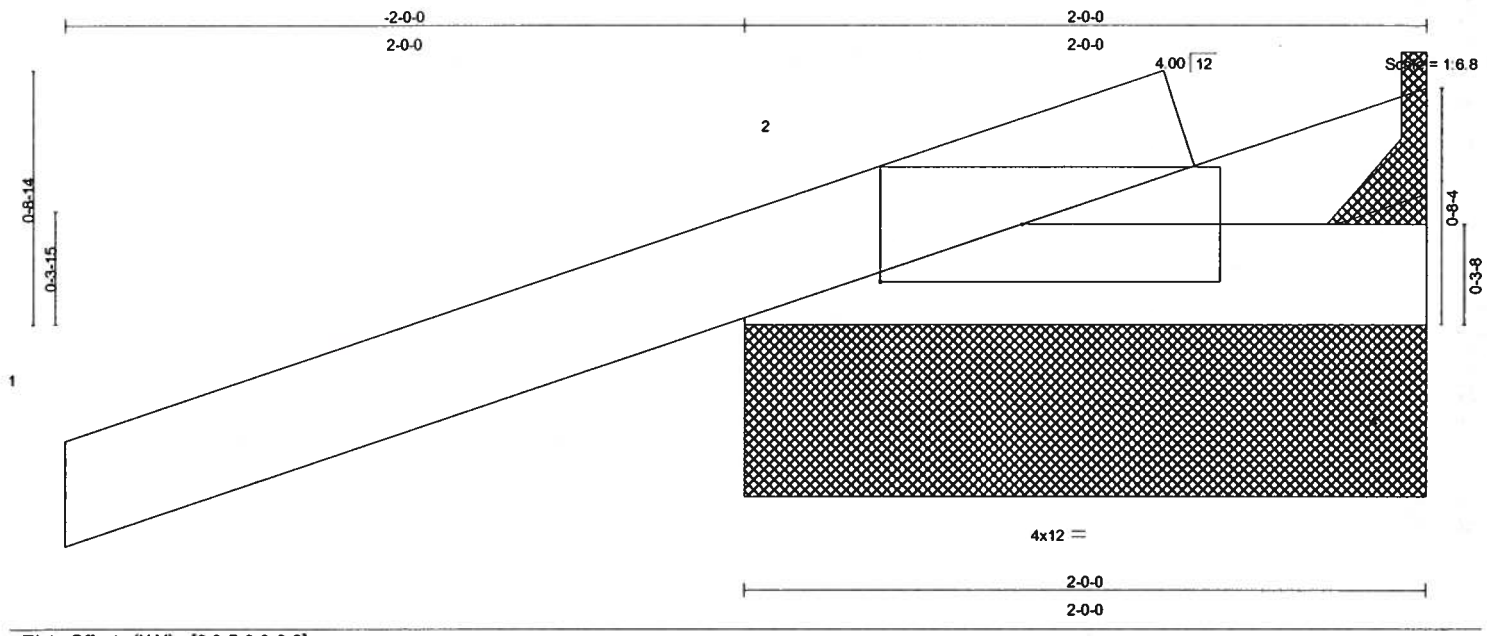


Plate Offsets (X,Y): [2:0-5-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	-0.00	2	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 10 lb	

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

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

REACTIONS (lb/size) 2=305/2-0-0, 3=-48/2-0-0, 3=-48/2-0-0, 4=17/2-0-0
Max Horz 2=45(LC 3)
Max Uplift2=-176(LC 3), 3=-48(LC 1), 3=-48(LC 1)
Max Grav 2=305(LC 1), 3=53(LC 3), 4=33(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-34/12
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
4) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 2 and 48 lb uplift at joint 3.
6) Design requires purlins at oc spacing indicated.

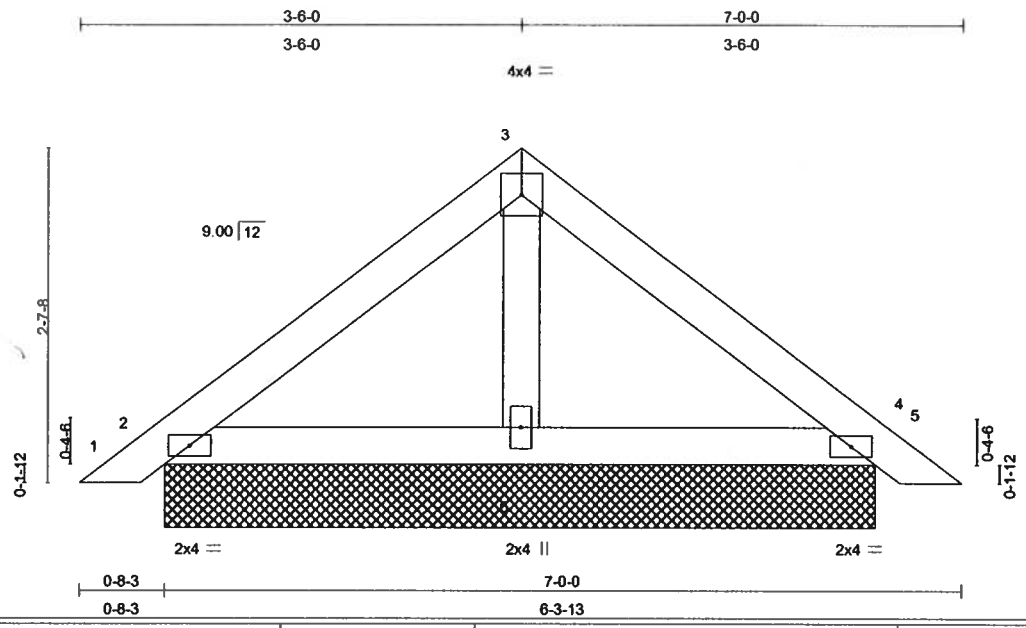
LOAD CASE(S) Standard

February 20,2007

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

Job	Truss	Truss Type	Qty	Ply	E3875721
HINTA	PIG1	ROOF TRUSS	21	1	Job Reference (optional)

SANTA FE TRUSS, HIGH SPRINGS, FL. 6.500 s Feb 5 2007 MiTek Industries, Inc. Tue Feb 20 12:36:22 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	0.01	5	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 24 lb	

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

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

REACTIONS (lb/size) 2=156/5-7-11, 4=156/5-7-11, 6=193/5-7-11
Max Horz 2=-59(LC 3)
Max Uplift2=-45(LC 5), 4=-52(LC 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-78/42, 3-4=-78/30, 4-5=0/15
BOT CHORD 2-6=-9/36, 4-6=-9/36
WEBS 3-6=-122/25

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2 and 52 lb uplift at joint 4.

LOAD CASE(S) Standard

February 20,2007

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

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	Masonite International	Exterior doors	5507.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI Windows and doors	3'0 x 5'0 + 3'4 x 5'0 LoE Vinyl Windows	5438.9
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED	MI Windows and doors	2'0" x 2'0" Octagon	5100.11
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	✓ Hardie board	Hardie Panel siding	889.5
B. SOFFITS	✓ Alcoa Home Exteriors Inc	Aluminum soffit	5543.2
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL	Gulf Coast Metals	29 gauge Tuff-rib	2632
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	Coast Precast	Precast Lintels 4'-6'	4569
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.

[signature]
APPLICANT SIGNATURE

3-7-07
DATE

SCHAFER ENGINEERING, LLC

7104 N. W. 42ND LANE

GAINESVILLE, FLORIDA 32606

THE HINTON RESIDENCE

SCHAFER ENGINEERING, LLC

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Florida Building Code \ Latest Edition

386-462-1340 / 352-375-6329

SCHAFER ENGINEERING, LLC

February 8, 2007

SUMMARY: Wind Load Analysis for The Hinton Residence
Wind Speed: 110 M.P.H. \ No Copies Permitted \ one use only
Florida Building Code \ Latest Edition

Foundation:
20" wide x 10" deep stemwall footing with (2) #5 rebar continuous minimum. CMU walls must have #5 dowels at 64" o.c. maximum with a standard 90 degree ACI hook in footing and a 4" slab on grade. Monolithic slab to be 12" wide x 20" deep minimum with (2) #5 rebar continuous with 12" minimum coverage on face of foundation. It is assumed that ideal soil conditions and pad preparation are provided.

Walls:
8" CMU block with vertical #5 reinforcing bar in grout filled cell at 64" o.c. maximum spacing. Wall heights are 9' maximum. Provide an 8" x 8" bond beam with 1-#5 rebar horizontal continuous at the top course. Install pre-cast, pre-engineered lintels or pre-engineered steel lintels spanning over all openings. One #5 rebar each corner. One #5 rebar each side of door and window openings. Two #5 rebar in openings wider than 12'-0". One #5 rebar where girders or girder trusses bear on masonry wall.

Shearwalls:
Transverse: 70'-0"
Longitudinal: 38'-0"

Allowable pounds per foot unit shear on shearwalls: 322

Trusses:
Pre-engineered Pre-fabricate trusses installed with the bracing system designed by the manufacturer. Trusses must be anchored according to the truss engineering requirements. Trusses must bear on exterior walls and porch headers.

Roof Sheathing:
7/16" osb minimum attached to the top chords of the trusses with 8d/131 gauge nails spaced at 4" o.c. edges and 8" interior. Install a ceiling diaphragm on open porches using same the nails and nail patterns as the roof sheathing.

Columns: 4" x 4" x 9' syp #2 pt @ 144" maximum spacing.

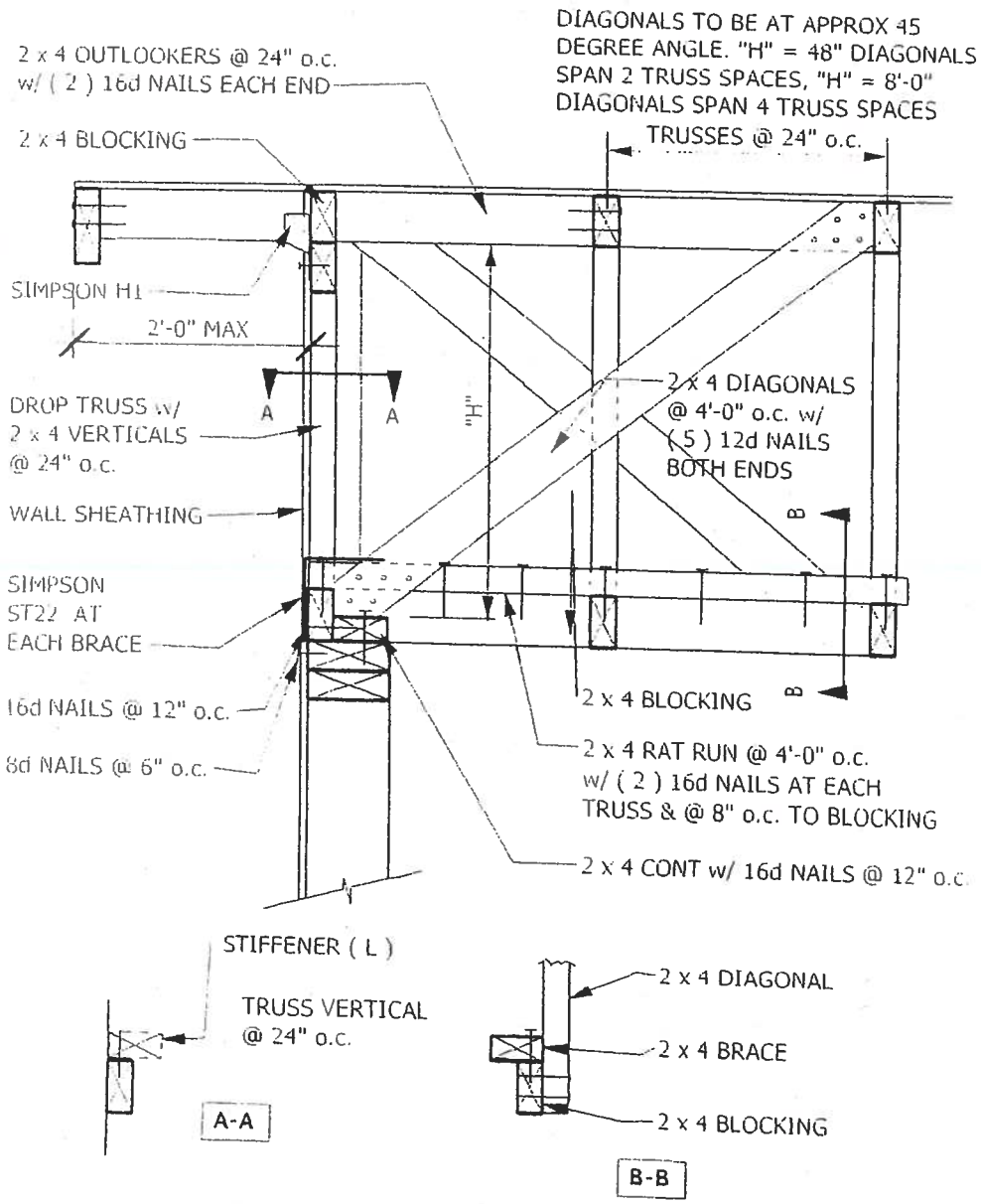
2-9-07

Bruce Schafer P. E.
7104 N. W. 42nd Lane
Gainesville, Florida 32606

SCHAFER ENGINEERING, LLC

7104 N. W. 42ND LANE

GAINESVILLE, FLORIDA 32606



TYPICAL GABLE END BRACING

Hinton Rel.

2-9-07

48984
7104 NW 42nd Ln
Gainesville, Fl

TIE-DOWN TABLES

HEADERS				
Uplift Force Lbs	Top Connector **	Rating Lbs	Bottom Connector **	Rating Lbs
to 455	LSTA9	725	H3	455
to 910	LSTA12	905	2-H3	910
to 1265	LSTA18	1265	LTT19	1350
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2565
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3700

Total uplift for each truss resting on the header and divide by 2 to determine the uplift force.
Use proper bolt anchors sufficient to support required load.

TRUSSES/GIRDERS		
Uplift Force Lbs	Top Connector **	Bottom Connector **
to 500	H2.5	N/A
501-1049	H10	N/A
1050-1350	TS22	LTT19
1351-1750	2-TS22	LTT20
1751-2570	2-TS22	HD2A
2571-3665	3-TS22	HD5A
3666-5260	2-MST148	HTT22
5261-8300	2-MST48	HD10A

Two 12d common toenails are required per truss/rafter per bearing point into plate.
Use proper bolt anchors.
Strap rafters to truss or at each end with minimum uplift resistance of 450# each end.
Strap ridge beam at each end with minimum uplift resistance of 1000#.
It is the contractors responsibility to provide a continuous load path from truss/rafter/ridge beam to foundation.

	Top Connector **	Rating Lbs	Bottom Connector **	Rating
BEAM SEATS	LSTA18*	1200	LTT19*	1250
POSTS (max 17' spacing)	2-LSTA18	2400	ABU44	2300

*or per truss engineering
Use proper bolt anchors
All beams to be sheathed or strapped to Double Top Plate when applicable.

CRIPPLES	Sheathing nailing alone adequate w/8d nails @ 3" O.C.

STUDS
Wall sheathing nailing Adequate exterior walls bottom w/8d nails @ 3" O.C.
Use SP1 & SP2 @ 32" O.C. on all bearing walls.
Interior anchor bolts to be ½" x 8" A307 or ½" x 7" wedge anchor or equivalent.

** Equivalent Simpson hardware, or other manufacturer, may be substituted for any of the hardware specified on this page as long as it meets the required load capacities/uplift resistance.

NOTE:

1. For nailing into SPF members, multiply table values by .86
2. See truss engineering for anchor tie-down values.

ASCE 7-02

2/8/07

Wind Load Design per ASCE 7-02

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	110	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	36.9	Deg
Type of Roof	Gabled	
Eave Height (Eht)	9.33	ft
Ridge Height (RHt)	25.38	ft
Mean Roof Height (Ht)	18.84	ft
Width Perp. to Wind (B)	64.00	ft
Width Parallel to Wind (L)	44.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters		
Type of Structure		
Height/Least Horizontal Dim	0.43	
Flexible Structure	No	

Calculated Parameters		
Importance Factor	1	
Hurricane Prone Region (V>100 mph)		
Table C6-4 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Am =	0.250	
Bm =	0.450	
Cc =	0.300	
l =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Gust Factor Category I: Rigid Structures - Simplified Method			
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	
Gust Factor Category II: Rigid Structures - Complete Analysis			
Zm	Zmin	30.00	ft
Izm	Cc * (33/z)^0.167	0.3048	
Lzm	l*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.8858	
Gust2	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	0.8576	
Gust Factor Category III: Flexible or Dynamically Sensitive Structures			
Vhref	V*(5280/3600)	161.33	ft/s
Vzm	bm*(zm/33)^Am*Vhref	70.89	ft/s
NF1	NatFreq*Lzm/Vzm	4.37	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0552	
Nh	4.6*NatFreq*Ht/Vzm	1.22	
Nb	4.6*NatFreq*B/Vzm	4.15	
Nd	15.4*NatFreq*Depth/Vzm	9.56	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.5125	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.2118	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.0991	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	0.5877	
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*Izm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*Izm))	1.01	

Gust Factor Summary			
Main Wind-force resisting system:		**Components and Cladding:**	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.86	Gust Factor (G)	0.86

ASCE 7-02

2/8/07

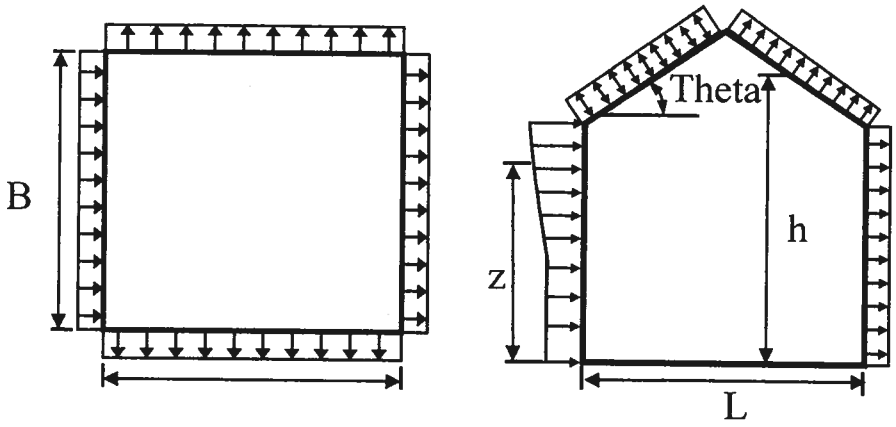
Wind Load Design per ASCE 7-02

6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev. ft	Kz	Kzt	Kd 1.00	qz lb/ft^2	Pressure (lb/ft^2) Windward Wall* +GCpi	-GCpi
25.38	0.70	1.00	1.00	21.70	11.47	18.31
20	0.70	1.00	1.00	21.70	11.47	18.31
18.84	0.70	1.00	1.00	21.70	11.47	18.31
15	0.70	1.00	1.00	21.70	11.47	18.31

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(Ht/zg)^(2/Alpha)	0.61	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	19.00	psf

Wall Pressure Coefficients, Cp	
Surface	Cp
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Description	Cp	Pressure (psf) +GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 64 ft wall)	-0.50	-11.57	-4.73
Leeward Walls (Wind Dir Parallel to 44 ft wall)	-0.41	-10.09	-3.25
Side Walls	-0.70	-14.83	-7.99
Roof - Normal to Ridge (Theta>=10)			
Windward - Max Negative	0.00	0.00	0.00
Windward - Max Positive	0.00	0.00	0.00
Leeward Normal to Ridge	-0.60	-13.20	-6.36
Overhang Top	0.00	0.00	0.00
Overhang Bottom	0.80	0.69	0.69
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 9.42 ft	-0.90	-18.09	-11.25

ASCE 7-02

Wind Load Design per ASCE 7-02

Dist from Windward Edge: 9.42 ft to 18.84 ft	-0.90	-18.09	-11.25
Dist from Windward Edge: 18.84 ft to 37.68 ft	-0.50	-11.57	-4.73
Dist from Windward Edge: > 37.68 ft	-0.30	-8.31	-1.47

* Horizontal distance from windward edge

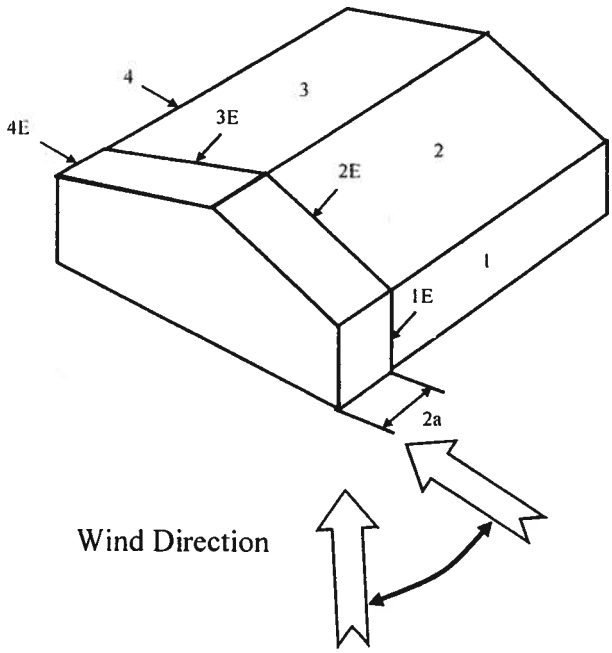
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.61
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	19.00

Case A						
Surface	**GCpf**	**+GCpi**	**-GCpi**	**qh (psf)**	**Min P (psf)**	**Max P (psf)**
1	0.56	0.18	-0.18	21.70	8.25	16.06
2	0.21	0.18	-0.18	21.70	0.65	8.46
3	-0.43	0.18	-0.18	21.70	-13.24	-5.43
4	-0.37	0.18	-0.18	21.70	-11.94	-4.12
5	0.00	0.18	-0.18	21.70	-3.91	3.91
6	0.00	0.18	-0.18	21.70	-3.91	3.91
1E	0.69	0.18	-0.18	21.70	11.07	18.88
2E	0.27	0.18	-0.18	21.70	1.95	9.77
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
5E	0.00	0.18	-0.18	21.70	-3.91	3.91
6E	0.00	0.18	-0.18	21.70	-3.91	3.91

* p = qh * (GCpf - GCpi)



ASCE 7-02

Wind Load Design per ASCE 7-02

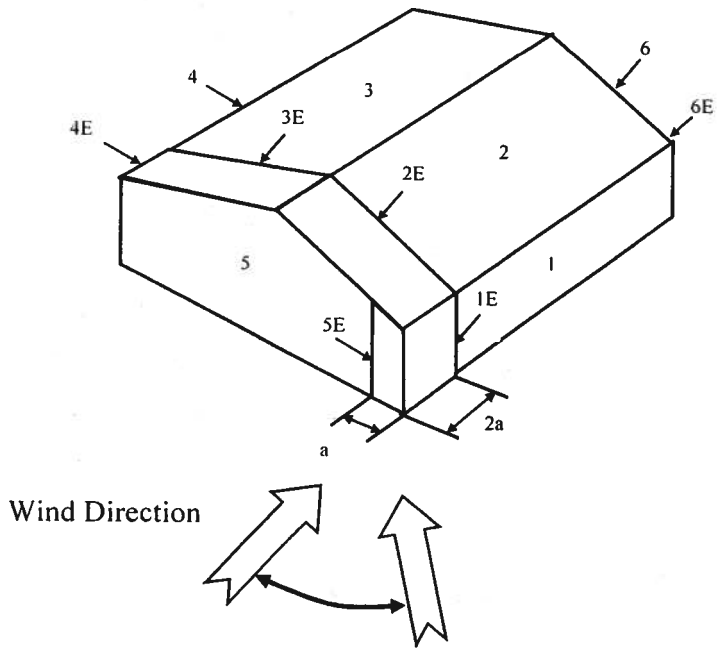
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.61
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	19.00

Case B						
Surface	**GCpf**	**+GCpi**	**-GCpi**	**qh (psf)**	**Min P (psf)**	**Max P (psf)**
1	-0.45	0.18	-0.18	21.70	-13.67	-5.86
2	-0.69	0.18	-0.18	21.70	-18.88	-11.07
3	-0.37	0.18	-0.18	21.70	-11.94	-4.12
4	-0.45	0.18	-0.18	21.70	-13.67	-5.86
5	0.40	0.18	-0.18	21.70	4.77	12.59
6	-0.29	0.18	-0.18	21.70	-10.20	-2.39
1E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
2E	-1.07	0.18	-0.18	21.70	-27.13	-19.31
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
5E	0.61	0.18	-0.18	21.70	9.33	17.14
6E	-0.43	0.18	-0.18	21.70	-13.24	-5.43

* p = qh * (GCpf - GCpi)

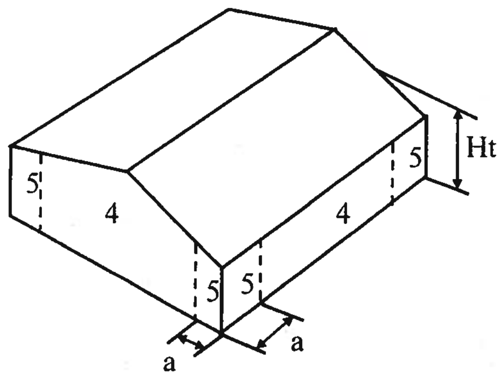


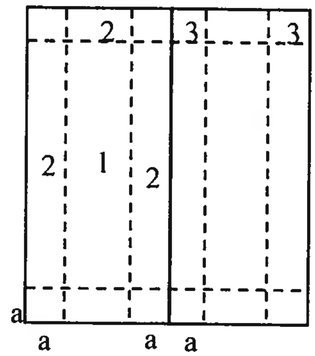
ASCE 7-02

Wind Load Design per ASCE 7-02

Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft





Gabled Roof
10 < Theta <= 45

a = 4.4 ==> 4.40 ft

Component	Width (ft)	Length (ft)	Area (ft^2)	Zone	GCp Max	GCp Min	Wind Press (lb/ft^2) Max	Wind Press (lb/ft^2) Min
	16	7	112.00	5	0.81	-1.03	18.90	-22.98
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
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	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					

Note: * Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

ASCE 7-02

Wind Load Design per ASCE 7-02

Condition	Gcpi	
	Max +	Max -
Open Buildings	0.00	0.00
Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	**0.18**	**-0.18**

Table 6-8 External Pressure Coefficients for Arched Roofs, Cp

r (Rise-to-Span Ratio) = 0.3

Condition	Variable	Cp		
		Windward Quarter	Center Half	Leeward Quarter
Roof on Elevated Structure	Cp	0.13	-1	-0.5
	P (+GCpi) - psf	-1.38	-19.72	-11.57
	P (-GCpi) -psf	5.46	-12.88	-4.73
Roof Springing from Ground	Cp	0.42	-1	-0.5
	P (+GCpi) - psf	3.42	-19.72	-11.57
	P (-GCpi) -psf	3.42	-19.72	-11.57

Table 6-9 Force Coefficients for Monoslope Roofs over Open Buildings, Cf

Variable	Description	Value	
L	Roof dimension normal to wind direction	44.00	ft
B	Roof dimension parallel to wind direction	64.00	ft
L/B	Ratio of L to B	0.688	
Theta	Slope of Roof	36.9	Deg
Cf	Force Coefficient	0.00	
X	Distance to center of pressure from windward edge	0.00	ft

Adam Hinton
HVAC Load Calculations

for

Adam Hinton
Lot 63 Santa Fe River Plantation
High Springs Fl

Elite Software

RHVAC RESIDENTIAL HVAC LOADS

Prepared By:
Chuck Fischer
North Central Florida Air Conditioning
P.O Box 700
High Springs Fl 32655-0700
386-454-4767
Friday, February 09, 2007

Project Report

General Project Information

Project Filename:	C:\Documents and Settings\Heat\My Documents\Projects\AutoLoad MJ8.rhv
Project Title:	Adam Hinton
Designed By:	Chuck Fischer
Project Date:	February 9th 2007
Client Name:	Adam Hinton
Client Address:	Lot 63 Santa Fe River Plantation
Client City:	High Springs Fl
Client Comment:	
Company Name:	North Central Florida Air Conditioning
Company Representative:	Chuck Fischer
Company Address:	P.O Box 700
Company City:	High Springs Fl 32655-0700
Company Phone:	386-454-4767
Company Fax:	386-454-4854
Company Comment:	Bedroom 2,3 & 4 R/A are 10x10x8 Master bedroom R/A is 12x12x9 Main R/A is 20x20x18

Design Data

Reference City:		Gainesville, Florida
Daily Temperature Range:		Medium
Latitude:	29	Degrees
Elevation:	152	ft.
Altitude Factor:	0.995	
Elevation Sensible Adj. Factor:	1.000	
Elevation Total Adj. Factor:	1.000	
Elevation Heating Adj. Factor:	1.000	
Elevation Heating Adj. Factor:	1.000	

	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	0	0	68	0
Summer:	93	77	50	75	50

Check Figures

Total Building Supply CFM:	1,153	CFM Per Square ft.:	0.598
Square ft. of Room Area:	1,928	Square ft. Per Ton:	706
Volume (ft³) of Cond. Space:	17,773	Air Turnover Rate (per hour):	3.9

Building Loads

Total Heating Required With Outside Air:	42,183 Btuh	42.183 MBH	
Total Sensible Gain:	25,227 Btuh	83 %	
Total Latent Gain:	5,160 Btuh	17 %	
Total Cooling Required With Outside Air:	30,387 Btuh	2.53 Tons (Based On Sensible + Latent)	
		2.73 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Miscellaneous Report

System 1 Main Floor Input Data	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	31	0	50	68	30.84
Summer:	93	77	50	75	50.06

Duct Sizing Inputs

	Main Trunk		Runouts	
Calculate:	Yes		Yes	
Use Schedule:	No		No	
Roughness Factor:	0.00300		0.01000	
Pressure Drop:	0.1000	in.wg./100 ft.	0.1000	in.wg./100 ft.
Minimum Velocity:	650	ft./min	450	ft./min
Maximum Velocity:	900	ft./min	750	ft./min
Minimum Height:	0	in.	0	in.
Maximum Height:	0	in.	0	in.

Outside Air Data

	Winter		Summer	
Infiltration:	0.900	AC/hr	0.400	AC/hr
Volume of Conditioned Space:	X 17773	Cu.ft.	X 17773	Cu.ft.
	15,996	Cu.ft./hr	7,109	Cu.ft./hr
	X 0.0167		X 0.0167	
Total Building Infiltration:	267	CFM	118	CFM
Total Building Ventilation:	0	CFM	0	CFM

---System 1---

Infiltration & Ventilation Sensible Gain Multiplier:	19.69	= (1.10 X 0.995 X 18.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier:	33.85	= (0.68 X 0.995 X 50.06 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier:	40.48	= (1.10 X 0.995 X 37.00 Winter Temp. Difference)

Load Preview Report

Scope	Area	Sens Gain	Lat Gain	Net Gain	Sens Loss	Win CFM	Sum CFM	Sys CFM	Duct Size
Building: 2.53 Net Tons, 2.73 Recommended Tons, 706 ft.²/Ton, 42.18 MBH Heating									
Building	1,928	25,227	5,160	30,387	42,183	551	1,153	1,153	
System 1: 2.53 Net Tons, 2.73 Recommended Tons, 706 ft.²/Ton, 42.18 MBH Heating									
System 1	1,928	25,227	5,160	30,387	42,183	551	1,153	1,153	15x15
Zone 2	449	6,342	1,531	7,873	11,229	147	290	290	
1-Bedroom 2	215	2,827	715	3,542	5,162	67	129	129	1-7
2-Bath 2	61	822	156	978	1,470	19	38	38	1-4
3-Bedroom 3	173	2,692	660	3,352	4,597	60	123	123	1-7
Zone 3	931	11,719	1,415	13,134	14,012	183	536	536	
4-Foyer	84	914	103	1,017	1,153	15	42	42	1-4
5-Dining Room	144	1,864	179	2,043	2,363	31	85	85	1-5
6-Laundry Room	92	1,861	327	2,188	3,308	43	85	85	1-5
7-Great Room	284	2,528	217	2,745	3,184	42	116	116	1-6
8-Kitchen	197	3,778	527	4,305	3,181	42	173	173	1-8
12-Stair Well	61	712	62	774	703	9	33	33	1-3
13-Hall	69	60	0	60	120	2	3	3	1-1
Zone 1	302	4,157	1,377	5,534	9,295	121	190	190	
9-Master W.I.C	46	186	83	269	778	10	9	9	1-2
10-Master Bedroom	174	3,030	877	3,907	4,525	59	139	139	1-7
11-Master Bath	82	941	417	1,358	3,992	52	43	43	1-4
Zone 4	246	3,009	837	3,846	7,647	100	138	138	
14-Bonus Room	200	2,082	524	2,606	4,969	65	95	95	1-6
15-Bonus Bath	46	926	313	1,239	2,678	35	42	42	1-4

Total Building Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.32, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	94	1,980	0	1,291	1,291
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	80	1,687	0	1,099	1,099
10C-b: Glazing-French door, double pane low-e glass (e = 0.40), metal frame with break, ground reflectance = 0.32	35.4	956	0	818	818
11P: Door-Polyurethane Core	40.8	438	0	344	344
13A-7.5ocs: Wall-Block, board insulation only, R-7.5 board insulation, open core, siding finish	1598	5,615	0	2,474	2,474
12E-5sw: Wall-Frame, R-19 insulation in 2 x 6 stud cavity, R-5 board insulation, siding finish, wood studs	466.2	897	0	381	381
16DR-44: Roof/Ceiling-Under attic or knee wall, Vented Attic with Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel Membrane, R-44 insulation	1927.4	1,568	0	1,400	1,400
22A-pm: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy dry or light wet soil	257	11,221	0	0	0
Subtotals for structure:		24,362	0	7,807	7,807
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	2400			8,184	8,184
Ductwork:		7,029	0	4,204	4,204
Infiltration: Winter CFM: 267, Summer CFM: 118		10,792	4,010	2,332	6,342
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
Total Building Load Totals:		42,183	5,160	25,227	30,387

Check Figures

Total Building Supply CFM:	1,153	CFM Per Square ft.:	0.598
Square ft. of Room Area:	1,928	Square ft. Per Ton:	706
Volume (ft³) of Cond. Space:	17,773	Air Turnover Rate (per hour):	3.9

Building Loads

Total Heating Required With Outside Air:	42,183 Btuh	42.183 MBH	
Total Sensible Gain:	25,227 Btuh	83 %	
Total Latent Gain:	5,160 Btuh	17 %	
Total Cooling Required With Outside Air:	30,387 Btuh	2.53 Tons (Based On Sensible + Latent)	
		2.73 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Main Floor Summary Loads (Average Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.32, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	94	1,980	0	1,291	1,291
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	80	1,687	0	1,099	1,099
10C-b: Glazing-French door, double pane low-e glass (e = 0.40), metal frame with break, ground reflectance = 0.32	35.4	956	0	818	818
11P: Door-Polyurethane Core	40.8	438	0	344	344
13A-7.5ocs: Wall-Block, board insulation only, R-7.5 board insulation, open core, siding finish	1598	5,615	0	2,474	2,474
12E-5sw: Wall-Frame, R-19 insulation in 2 x 6 stud cavity, R-5 board insulation, siding finish, wood studs	466.2	897	0	381	381
16DR-44: Roof/Ceiling-Under attic or knee wall, Vented Attic with Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel Membrane, R-44 insulation	1927.4	1,568	0	1,400	1,400
22A-pm: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy dry or light wet soil	257	11,221	0	0	0
Subtotals for structure:		24,362	0	7,807	7,807
People:	5		1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	2400			8,184	8,184
Ductwork:		7,029	0	4,204	4,204
Infiltration: Winter CFM: 267, Summer CFM: 118		10,792	4,010	2,332	6,342
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
System 1 Main Floor Load Totals:		42,183	5,160	25,227	30,387

Check Figures

Supply CFM:	1,153	CFM Per Square ft.:	0.598
Square ft. of Room Area:	1,928	Square ft. Per Ton:	706
Volume (ft³) of Cond. Space:	17,773	Air Turnover Rate (per hour):	3.9

System Loads

Total Heating Required With Outside Air:	42,183 Btuh	42.183 MBH	
Total Sensible Gain:	25,227 Btuh	83 %	
Total Latent Gain:	5,160 Btuh	17 %	
Total Cooling Required With Outside Air:	30,387 Btuh	2.53 Tons (Based On Sensible + Latent)	
		2.73 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1, Zone 2 Summary Loads (Average Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.32, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	45	948	0	618	618
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	15	316	0	206	206
13A-7.5ocs: Wall-Block, board insulation only, R-7.5 board insulation, open core, siding finish	558.5	1,962	0	865	865
16DR-44: Roof/Ceiling-Under attic or knee wall, Vented Attic with Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel Membrane, R-44 insulation	449.4	366	0	327	327
22A-pm: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy dry or light wet soil	66	2,882	0	0	0
Subtotals for structure:		6,474	0	2,016	2,016
People:	2		460	600	1,060
Equipment:			0	0	0
Lighting:	600			2,046	2,046
Ductwork:		1,871	0	1,057	1,057
Infiltration: Winter CFM: 71, Summer CFM: 32		2,884	1,071	623	1,694
System 1, Zone 2 Load Totals:		11,229	1,531	6,342	7,873

Check Figures

Supply CFM:	290	CFM Per Square ft.:	0.646
Square ft. of Room Area:	449	Square ft. Per Ton:	628
Volume (ft³) of Cond. Space:	4,224	Air Turnover Rate (per hour):	4.1

Zone Loads

Total Heating Required:	11,229 Btuh	11.229 MBH	
Total Sensible Gain:	6,342 Btuh	81 %	
Total Latent Gain:	1,531 Btuh	19 %	
Total Cooling Required:	7,873 Btuh	0.66 Tons (Based On Sensible + Latent)	
		0.71 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1, Zone 3 Summary Loads (Average Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.32, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	49	1,032	0	673	673
10C-b: Glazing-French door, double pane low-e glass (e = 0.40), metal frame with break, ground reflectance = 0.32	35.4	956	0	818	818
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	9	190	0	124	124
11P: Door-Polyurethane Core	40.8	438	0	344	344
13A-7.5ocs: Wall-Block, board insulation only, R-7.5 board insulation, open core, siding finish	549.2	1,930	0	851	851
16DR-44: Roof/Ceiling-Under attic or knee wall, Vented Attic with Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel Membrane, R-44 insulation	929.7	756	0	676	676
22A-pm: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy dry or light wet soil	73	3,188	0	0	0
Subtotals for structure:		8,490	0	3,486	3,486
People:	1		230	300	530
Equipment:			0	1,200	1,200
Lighting:	1200			4,092	4,092
Ductwork:		2,335	0	1,953	1,953
Infiltration: Winter CFM: 79, Summer CFM: 35		3,187	1,185	688	1,873
System 1, Zone 3 Load Totals:		14,012	1,415	11,719	13,134

Check Figures

Supply CFM:	536	CFM Per Square ft.:	0.575
Square ft. of Room Area:	931	Square ft. Per Ton:	810
Volume (ft³) of Cond. Space:	8,741	Air Turnover Rate (per hour):	3.7

Zone Loads

Total Heating Required:	14,012 Btuh	14.012 MBH	
Total Sensible Gain:	11,719 Btuh	89 %	
Total Latent Gain:	1,415 Btuh	11 %	
Total Cooling Required:	13,134 Btuh	1.09 Tons (Based On Sensible + Latent)	
		1.15 Tons (Based On 77% Sensible Capacity)	

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1, Zone 1 Summary Loads (Average Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	39	822	0	536	536
13A-7.5ocs: Wall-Block, board insulation only, R-7.5 board insulation, open core, siding finish	490.2	1,723	0	758	758
16DR-44: Roof/Ceiling-Under attic or knee wall, Vented Attic with Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel Membrane, R-44 insulation	301.6	245	0	218	218
22A-pm: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy dry or light wet soil	57	2,488	0	0	0
Subtotals for structure:		5,278	0	1,512	1,512
People:	2		460	600	1,060
Equipment:			0	0	0
Lighting:	240			818	818
Ductwork:		1,549	0	693	693
Infiltration: Winter CFM: 61, Summer CFM: 27		2,468	917	534	1,451
System 1, Zone 1 Load Totals:		9,295	1,377	4,157	5,534

Check Figures

Supply CFM:	190	CFM Per Square ft.:	0.629
Square ft. of Room Area:	302	Square ft. Per Ton:	588
Volume (ft³) of Cond. Space:	2,834	Air Turnover Rate (per hour):	4.0

Zone Loads

Total Heating Required:	9,295	Btuh	9.295 MBH
Total Sensible Gain:	4,157	Btuh	75 %
Total Latent Gain:	1,377	Btuh	25 %
Total Cooling Required:	5,534	Btuh	0.46 Tons (Based On Sensible + Latent)
			0.51 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1, Zone 4 Summary Loads (Average Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1D-hv-o: Glazing-Double pane, operable window, heat-absorbing, vinyl frame, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.35 and 50% coverage	17	359	0	233	233
12E-5sw: Wall-Frame, R-19 insulation in 2 x 6 stud cavity, R-5 board insulation, siding finish, wood studs	466.2	897	0	381	381
16DR-44: Roof/Ceiling-Under attic or knee wall, Vented Attic with Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel Membrane, R-44 insulation	246.6	201	0	179	179
22A-pm: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy dry or light wet soil	61	2,663	0	0	0
Subtotals for structure:		4,120	0	793	793
People:	0		0	0	0
Equipment:			0	0	0
Lighting:	360			1,228	1,228
Ductwork:		1,274	0	501	501
Infiltration: Winter CFM: 56, Summer CFM: 25		2,253	837	487	1,324
System 1, Zone 4 Load Totals:		7,647	837	3,009	3,846

Check Figures

Supply CFM:	138	CFM Per Square ft.:	0.559
Square ft. of Room Area:	246	Square ft. Per Ton:	698
Volume (ft³) of Cond. Space:	1,974	Air Turnover Rate (per hour):	4.2

Zone Loads

Total Heating Required:	7,647	Btuh	7.647 MBH
Total Sensible Gain:	3,009	Btuh	78 %
Total Latent Gain:	837	Btuh	22 %
Total Cooling Required:	3,846	Btuh	0.32 Tons (Based On Sensible + Latent)
			0.35 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Air Sys CFM
---Zone 2---										
1	Bedroom 2	215	5,162	67	1-7	484	2,827	715	129	129
2	Bath 2	61	1,470	19	1-4	431	822	156	38	38
3	Bedroom 3	173	4,597	60	1-7	460	2,692	660	123	123
	Zone 2 subtotal	449	11,229	147			6,342	1,531	290	290
---Zone 3---										
4	Foyer	84	1,153	15	1-4	479	914	103	42	42
5	Dining Room	144	2,363	31	1-5	625	1,864	179	85	85
6	Laundry Room	92	3,308	43	1-5	624	1,861	327	85	85
7	Great Room	284	3,184	42	1-6	589	2,528	217	116	116
8	Kitchen	197	3,181	42	1-8	495	3,778	527	173	173
12	Stair Well	61	703	9	1-3	663	712	62	33	33
13	Hall	69	120	2	1-1	503	60	0	3	3
	Zone 3 subtotal	931	14,012	183			11,719	1,415	536	536
---Zone 1---										
9	Master W.I.C	46	778	10	1-2	390	186	83	9	9
10	Master Bedroom	174	4,525	59	1-7	518	3,030	877	139	139
11	Master Bath	82	3,992	52	1-4	493	941	417	43	43
	Zone 1 subtotal	302	9,295	121			4,157	1,377	190	190
---Zone 4---										
14	Bonus Room	200	4,969	65	1-6	485	2,082	524	95	95
15	Bonus Bath	46	2,678	35	1-4	485	926	313	42	42
	Zone 4 subtotal	246	7,647	100			3,009	837	138	138
	System 1 total	1,928	42,183	551			25,227	5,160	1,153	1,153

System 1 Main Trunk Size: 15x15 in.
Velocity: 826 ft./min
Loss per 100 ft.: 0.083 in.wg

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	2.53	83% / 17%	25,227	5,160	30,387
Recommended:	2.73	77% / 23%	25,227	7,535	32,762
Actual:	2.92	76% / 24%	26,500	8,500	35,000

Equipment Data

	Heating System	Cooling System
Type:	Air Cooled Condensor	Air Cooled Condensor
Model:	GSH130361+ARPF364216+HKR-10	GSH130361+ARPF364216
Brand:	Goodman	Goodman
Efficiency:	7.7	Seer 13
Sound:		
Capacity:	32.000	35.000
Sensible Capacity:	n/a	26,500 Btuh
Latent Capacity:	n/a	8,500 Btuh

ATTN: WEEGIE

Columbia County Building Department
Culvert Waiver

Culvert Waiver No.
000001352

DATE: 03/16/2007 BUILDING PERMIT NO. P 5627

APPLICANT DANIEL A. HINTON PHONE 352.318.3411

ADDRESS POB 2214 HIGH SPRINGS FL 32655

OWNER DANIEL ADAM & CAMMEY HINTON PHONE 352.318.3411

ADDRESS 1087 SW MAPLETON STREET FT. WHITE FL 32038

CONTRACTOR DANIEL A. & CAMMEY HINTON PHONE 352.318.3411

LOCATION OF PROPERTY 47-S TO US 27 TO C-138-S TO WOODLAND,TL TO GATED COMMUNITY (JUST BEFORE GATE, TAKE L TO ADDRESS MARKED 1087.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT SANTA FE RIVER PLANT 63

PARCEL ID # 30-7S-17-10058-653

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE: [signature]

A SEPARATE CHECK IS REQUIRED
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE CULVERT WAIVER IS:

✓ APPROVED ______ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS:

SIGNED: [signature] DATE: 3-22-07

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

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

RECEIVED
MAR 21 2007
By:__________

NOTICE OF COMMENCEMENT

This document prepared by and to be returned to:
Kyle E. Petteway
Grunder & Petteway, P. A.
23349 NW CR 236, Suite 10
High Springs, Florida, 32643

Inst:2007005642 Date:03/09/2007 Time:12:53
DC,P.DeWitt Cason,Columbia County B:1113 P:4

PERMIT NO.:_____
TAX FOLIO NUMBER: R10058-653

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 63, a replat of Lots 38, 45, and 46 of Santa Fe River Plantations, a subdivision, as per plat thereof recorded in Plat Book 5, Pages 13 through 13D, inclusive of the Public Records of Columbia County, Florida.

Address:

2. General description of improvement: Residential Home Construction
3. Owner information:
   a. Name and address:

   Daniel A. Hinton and Cammey B. Hinton.
   25647 NW 204th Avenue
   High Spring,s FL 32643

   b. Phone number: 386-454-7012
   c. Fax number:
   d. Interest in property: Fee simple title holder
   e. Name and address of fee simple titleholder (if other than owner): N/A

4. Contractor: Daniel A. Hinton and Cammey B. Hinton.
   25647 NW 204th Avenue
   High Spring,s FL 32643
   a. Phone number: (386) 454-7012

5. Surety on any payment bond: None

6. Lender: Florida Rural Rehabilitation Corporation
   4020 Newberry Road
   Gainesville, Fl 32606
   a. Phone number: (352) 372-3100

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

   Daniel A. Hinton and Cammey B. Hinton
   25647 NW 204th Avenue
   High Springs, Fl 32643
   a. Phone number: 386-454-7012

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

   None

   a. Phone number:
   b. Fax number:

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

Daniel A. Hinton

CLERK CIRCUIT COUR

1. Description of Property:

Lot 63, a replat of Lots 38, 45, and 46 of Santa Fe River Plantations, a subdivision, as per plat thereof recorded in Plat Book 5, Pages 13 through 13D, inclusive of the Public Records of Columbia County, Florida. SOAA

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   None

   a. Phone number:
   b. Fax number:

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

Daniel A. Hinton

Cammey B. Hinton

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

Cammey B. Hinton

STATE OF FLORIDA
COUNTY OF ALACHUA

SWORN TO and subscribed before me this 6th day of March, 2007 by Daniel A. Hinton who (✓) is personally known to me ( ) produced a valid Florida driver's license as identification ( ) produced _____ as identification

Signature of Notary
(SEAL)8646

KYLE E. PETTEWAY NOTARY PUBLIC STATE OF FLORIDA
My Comm. Expires August 1, 2007
No. DD 238752

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: _____ Deputy Clerk
Date: 3-09-07

ALACHUA
PEST CONTROL inc.

"If we can't trap 'em, we'll rope 'em"

Household Pests • Termites
Fumigation

14900 NW 140th St. / P.O. Box 1132 / Alachua, Florida 32616-1132
(386) 462-2958 (352) 375-1555 (386) 462-1310 Fax

#25627

Certificate of Protective Treatment for Prevention of Subterranean Termites

1) Applicators Name Wade Hodge

2) Time and Date of Treatment 8:30AM 4-25-07

3) Site Location 1087 SW Mapleton ST.
Ft. White

4) Chemical used and % of Concentration Termidor .06%

5) Number of Gallons of Finish Product and Type of Slab 370gal
Stem Wall

All above information is accurate and product was used strictly by label recommendations to the best of my knowledge.

Alachua Pest Control Application Technician.

Wade Hodge 4-25-07

Signature Date

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 30-7S-17-10058-653 **Building permit No.** 000025627

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

Permit Holder DANIEL A. & COURTNEY HINTON **Waste:** 184.25

Owner of Building DANIEL A.& CAMMEY HINTON **Total:** 254.87

Location: 1087 SW MALETON ST, FT. WHITE, FL

Date: 11/05/2007

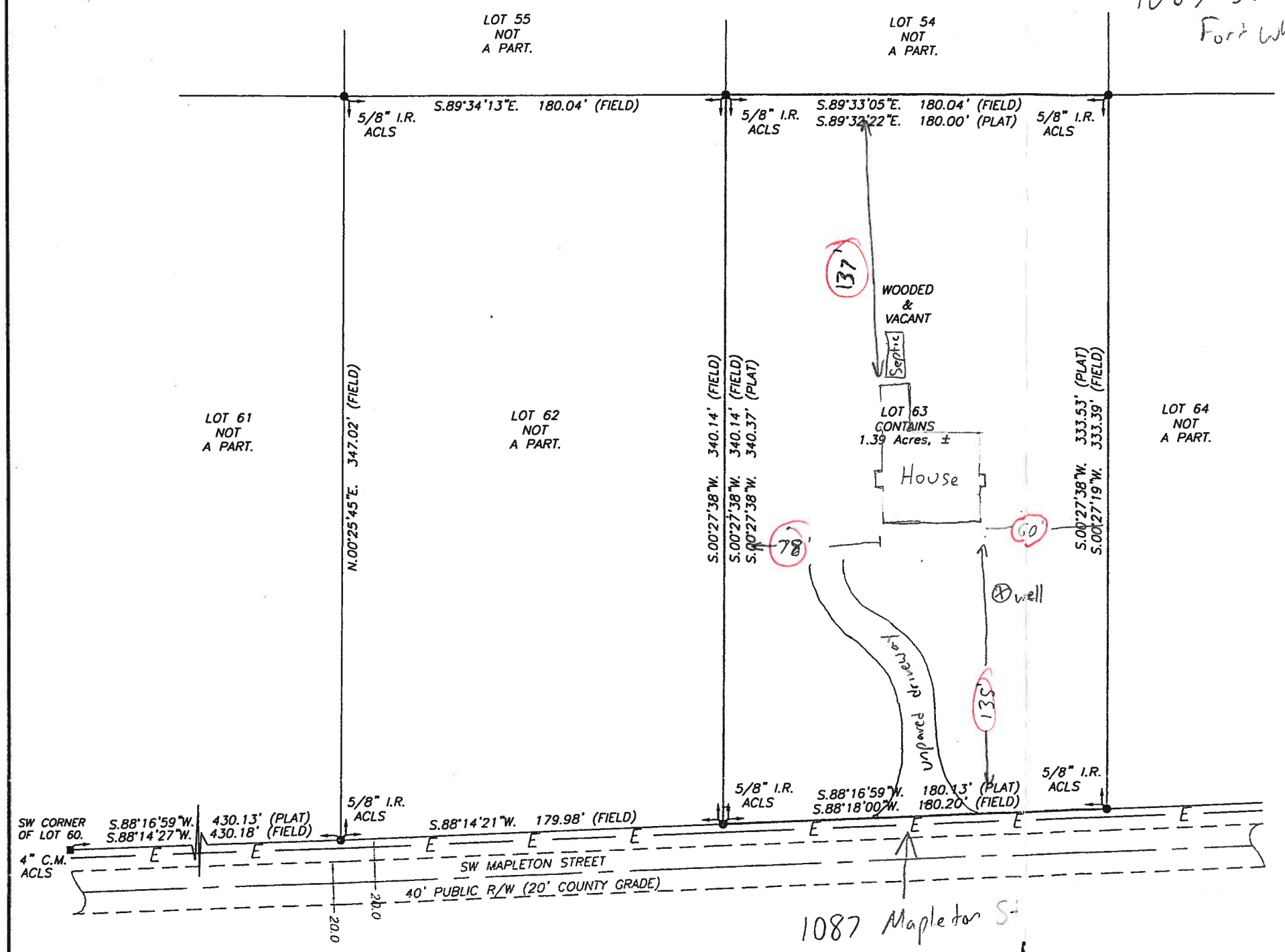
Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Daniel Adam & Cammey Hinton
1087 SW Mapleton St
Fort White, FL

BOUNDARY SURVEY
IN SECTION 30, TOWNSHIP 7 SOUTH, RANGE 17 EAST. COLUMBIA COUNTY, FLA.



DESCRIPTION:
LOT 63 OF "A REPLAT OF LOTS 38, 45 AND 46 OF SANTA FE RIVER PLANTATION", A SUBDIVISION AS PER PLAT THEREOF RECORDED IN PLAT BOOK 5, PAGES 13, 13A -13D, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

SURVEYOR'S NOTES:

1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE ORIGINAL SURVEY FOR SAID PLAT OF RECORD.
2. BEARINGS BASED ON PLAT OF RECORD USING MONUMENTS FOUND ON THE WEST LINE OF SAID LOT 63.
3. THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD INSURANCE RATE MAP, DATED JANUARY 6, 1988, COMMUNITY PANEL NO. 120070 0270 B.
4. NO EASEMENT FOR UTILITY AND/OR DRAINAGE IS SHOWN ON THIS LOT IN RECORDS IN THE POSSESSION OF THIS OFFICE.
5. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
6. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
7. "NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."
8. CLOSURE OF FIELD SURVEY IS 1/48,790.
9. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR TITLE POLICY. THEREFORE EXCEPTION IS MADE HEREON REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, AND/OR TITLE CONFLICTS OF RECORD, IF ANY, NOT PROVIDED BY THE CLIENT OR HIS AGENTS.
10. CERTIFIED TO:

DANIEL A. AND CAMMEY B. HINTON
GRUNDER & PETTEWAY, P.A.
FIRST AMERICAN TITLE INSURANCE COMPANY

SYMBOL LEGEND

■	CONCRETE MONUMENT FOUND
□	CONCRETE MONUMENT SET, LS 4708
●	IRON PIN OR PIPE FOUND
○	5/8" IRON ROD SET, LS 4708
—x—	WIRE FENCE
—E—	ELECTRIC UTILITY LINE (OVERHEAD)
- UGE -	UNDERGROUND ELECTRIC SERVICE
— CTV —	CABLE TV LINE (OVERHEAD)
—o—	CHAIN LINK FENCE
—◇—	WOODEN FENCE
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
LS	LAND SURVEYOR
LB	LICENSED BUSINESS
ORB	OFFICIAL RECORD BOOK
PRM	PERMANENT REFERENCE MONUMENT
PCP	PERMANENT CONTROL POINT
⊗	UTILITY POLE
R/W	RIGHT-OF-WAY
NO ID.	NO IDENTIFICATION
FLA. D.O.T.	FLA. DEPT. OF TRANSPORTATION
℄	CENTERLINE
C.M.	CONCRETE MONUMENT
I.R.	IRON ROD
I.P.	IRON PIPE

0 15 30 60 120
GRAPHIC SCALE

SIGNED: _____
MARK D. DUREN, LS 4708

MARK D. DUREN, P.S.M.
LS 4708

1604 SW SISTERS WELCOME ROAD
LAKE CITY, FLA. 32025
(386) 758-9831 OFFICE
(386) 758-8010 FAX

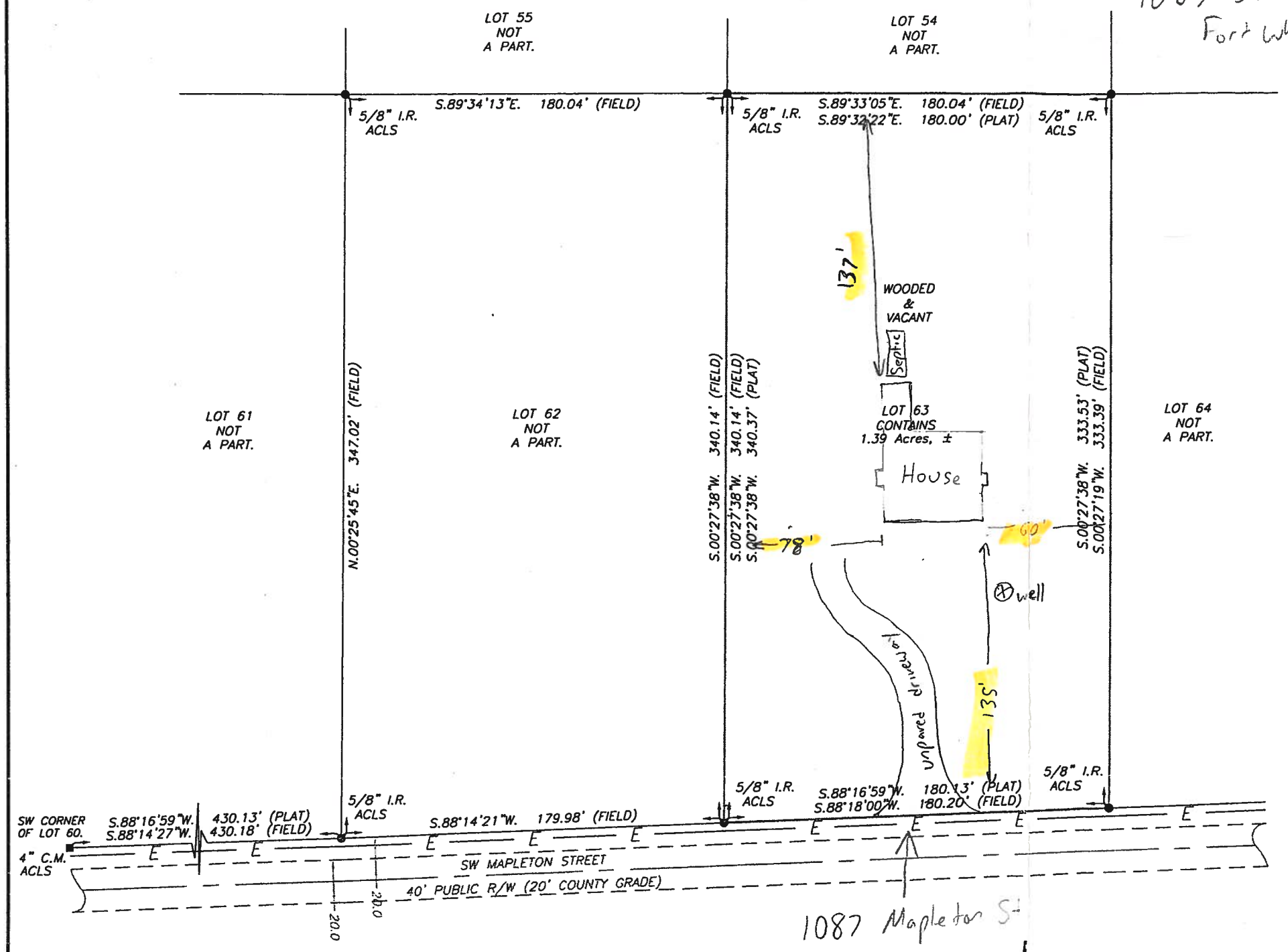
FIELD SURVEY DATE JANUARY 5, 2007
DATE DRAWN JANUARY 8, 2007
FOR HINTON

FIELD BOOK 173 PAGE 22
DRAWN BY M. DUREN/A. DYAL

WO# 07-009

Daniel Adam & Cammey Hinton
1087 SW Mapleton St
Fort White, FL

BOUNDARY SURVEY
IN SECTION 30, TOWNSHIP 7 SOUTH, RANGE 17 EAST. COLUMBIA COUNTY, FLA.



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5. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
6. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
7. "NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."
8. CLOSURE OF FIELD SURVEY IS 1/48,790.
9. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR TITLE POLICY. THEREFORE EXCEPTION IS MADE HEREON REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, AND/OR TITLE CONFLICTS OF RECORD, IF ANY, NOT PROVIDED BY THE CLIENT OR HIS AGENTS.
10. CERTIFIED TO:

DANIEL A. AND CAMMEY B. HINTON
GRUNDER & PETTEWAY, P.A.
FIRST AMERICAN TITLE INSURANCE COMPANY

SYMBOL LEGEND

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□	CONCRETE MONUMENT SET, LS 4708
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○	5/8" IRON ROD SET, LS 4708
—x—	WIRE FENCE
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– UGE –	UNDERGROUND ELECTRIC SERVICE
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R/W	RIGHT-OF-WAY
NO ID.	NO IDENTIFICATION
FLA. D.O.T.	FLA. DEPT. OF TRANSPORTATION
℄	CENTERLINE
C.M.	CONCRETE MONUMENT
I.R.	IRON ROD
I.P.	IRON PIPE

0 15 30 60 120
GRAPHIC SCALE

SIGNED: _____
MARK D. DUREN, LS 4708

MARK D. DUREN, P.S.M.
LS 4708

1604 SW SISTERS WELCOME ROAD
LAKE CITY, FLA. 32025
(386) 758-9831 OFFICE
(386) 758-8010 FAX

FIELD SURVEY DATE JANUARY 5, 2007
DATE DRAWN JANUARY 8, 2007
FOR HINTON

FIELD BOOK 173 PAGE 22
DRAWN BY M. DUREN/A. DYAL

WO# 07-009

Santa Fe Truss

410 SW POE SPRINGS RD
HIGH SPRINGS, FLORIDA
386-454-7711 / FAX 386-1055

Adam Hinton / Residence

ALL WALLS SHOWN ARE LOADBEARING
ALL WALL HEIGHTS MEASURED FROM MAIN SLAB, IN FEET-INCHES-SIXTEENTHS.
ALL HEIGHTS 10-4 0, EXCEPT AS NOTED IN BOXED NUMBERS