DATE 09/10/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000027331

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER JOHN & JULIE TAYLOR PHONE 239 253-7334

ADDRESS 375 SW BLANTON LANE LAKE CITY FL 32024

CONTRACTOR JOSH SPARKS PHONE 623-0575

LOCATION OF PROPERTY 90W, TL ON 247S, TR ON CR 242, TR ON SABRE AVE, TR ON WEIRSD
TL ON BUMSTEAD TERR, TR ON BLANTON LANE, 5TH LOT ON LEFT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 209150.00

HEATED FLOOR AREA 2912.00 TOTAL AREA 4183.00 HEIGHT 23.40 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB

LAND USE & ZONING AG-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 XPP DEVELOPMENT PERMIT NO.

PARCEL ID 14-4S-15-00363-204 SUBDIVISION PINEMOUNT MEADOWS

LOT 4 BLOCK PHASE UNIT TOTAL ACRES 5.00

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		CBC1252260	

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
EXISTING 1562	08-0579	BK	WR	N

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE

IMPACT FEE PAID BY CONTRACTOR ON VOIDED PERMIT #27003(FEES TRANSFERED)

Check # or Cash 5179

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 $ 1050.00 CERTIFICATION FEE $ 20.91 SURCHARGE FEE $ 20.91

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 1166.82

INSPECTORS OFFICE _____ CLERKS OFFICE _____

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

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

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

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

0808-35

Inst:200812016009 Date:8/28/2008 Time:11:47 AM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1157 P:1195

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 14-4S-15-00363-204

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

1. Description of property *(legal description)*: Lot 4 Pinemount Meadows
   a) Street *(job)* Address: 375 SW Blanton Lane
2. General description of improvements: Single family dwelling
3. Owner Information
   a) Name and address: John & Julie Taylor
   b) Name and address of fee simple titleholder (if other than owner) NA 201 Perkins Dr Naples FL 34119
   c) Interest in property homesite
4. Contractor Information
   a) Name and address: Josh Sparks P.O. Box 1475 Lake City FL 32056
   b) Telephone No.: 623-2372 Fax No. (Opt.)
5. Surety Information
   a) Name and address: NA
   b) Amount of Bond:
   c) Telephone No.: Fax No. (Opt.)
6. Lender
   a) Name and address: NA
   b) Phone No.
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: NA
   b) Telephone No.: Fax No. (Opt.)
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name and address: NA
   b) Telephone No.: Fax No. (Opt.)
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**:

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

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Julie A Taylor
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

John & Julie Taylor
Print Name

The foregoing instrument was acknowledged before me , a Florida Notary, this 25th day of August, 20 08, by:

John & Julie Taylor as owner **(type of authority, e.g. officer, trustee, attorney fact) for** **(name of party on behalf of whom instrument was executed).**

Personally Known ✓ OR Produced Identification ____ Type

Notary Signature Tara L Ticknor Notary Stamp or Seal:

Tara L. Ticknor

TARA L. TICKNOR
Notary Public - State of Florida
My Commission Expires Jan 10, 2011
Commission # DD 628496
Bonded Through National Notary Assn.

---AND---

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

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

155-7156

Notice of Authorization

I, Josh Sparks, do hereby authorize Melanie Roder or Linda Roder,

To be my representative and act on my behalf in all aspects of applying for a

Building permit to be located in Columbia County.

Contractor's signature

8-18-08
Date

NOTARY PUBLIC-STATE OF FLORIDA
Linda R. Roder
Commission # DD755613
Expires: MAR. 24, 2012
BONDED THRU ATLANTIC BONDING CO., INC.

Sworn and subscribed before me this 18 day of Aug, 2008

Notary Public

Personally known ✓
Produced ID (Type): _____

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

CK# 5179 - USING EXISTING WELL -

Columbia County Building Permit Application

For Office Use Only Application # 0808-35 Date Received 8/19 By JW Permit # 27331

Zoning Official BLK Date 29.08.08 Flood Zone X per plat FEMA Map # N/A Zoning A-3

Land Use A-3 Elevation N/A MFE Ft Clan Rd River N/A Plans Examiner WO Date 8/27/08

Comments Driveway

(Y) NOC (Y) EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel #

☐ Dev Permit # ☐ In Floodway ☐ Letter of Authorization from Contractor

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

Septic Permit No. Fax 752-2282

Name Authorized Person Signing Permit Linda or Melanie Rocker Phone 752-2281

Address 387 SW Kemp Ct Lake City FL 32024

Owners Name John & Julie Taylor Phone 239-253-7334

911 Address 375 SW Blanton Lane Lake City FL 32024

Contractors Name Josh Sparks Phone 623-0575

Address POB 1479 Lake City FL 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers / Nick Geisler

Mortgage Lenders Name & Address NA

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

Property ID Number 14-4S-15-00363-204 Estimated Cost of Construction 380 K

Subdivision Name Piremount Meadows Lot 4 Block ___ Unit ___ Phase ___

Driving Directions 90 W, L on 247 S, R on CR 242, R on Sable Ave, R on Wiersdale, L on Bumstead Terr, R on Blanton Lane, 5th Lot on left.

Number of Existing Dwellings on Property 1 (barn)

Construction of Single family dwelling Total Acreage 5 Lot Size 5 ac

Do you need a ~~Culvert Permit~~ or Culvert Waiver or (Have a culvert permit 1562) Total Building Height 23'-4"

Actual Distance of Structure from Property Lines - Front 222 Side 217'-1" Side 87' Rear 283'

Number of Stories 1 Heated Floor Area 2912 Total Floor Area ~~2917~~ 4183 Roof Pitch 12-8

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. JW called Linda 9-2-08

Columbia County Building Permit Application

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

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

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

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

Owners Signature

NOTARY PUBLIC-STATE OF FLORIDA
Linda R. Roder
Commission # DD755608
Expires: MAR. 24, 2012
BONDED THRU ATLANTIC BONDING CO., INC.

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

Contractor's Signature (Permitee)

Contractor's License Number CBC1252260
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 19 **day of** Aug **20** 08

Personally known _____ **or Produced Identification** _____

State of Florida Notary Signature (For the Contractor)

SEAL:

NOTARY PUBLIC-STATE OF FLORIDA
Linda R. Roder
Commission # DD755608
Expires: MAR. 24, 2012
BONDED THRU ATLANTIC BONDING CO., INC.

Revised 11-30-07

2733/

David M. Winsberg, P.E.
PO Box 2815, Lake City, FL 32056 - Phone 386-752-1895 - Email davidwinsberg@bellsouth.net

Finish Floor Elevation Certification

Contractor: ~~Will Myers~~ SPARKS CONSTRUCTION

Description: Taylor Residence

Parcel ID#: 14-4S-15-00363-204

Foundation Requirements:

For protection against water damage, the minimum finish floor elevation of the proposed structure shall be 12 inches above the existing ground at any point along the perimeter of the proposed structure. In no case shall the finish floor elevation be more than 19 inches below the centerline of the adjacent roadway.

The ground around the proposed structure shall be graded such as to convey all stormwater runoff away from the proposed structure.

The above elevations are based on the structure's current location, approximately +/-250 feet North from the adjacent graded road.

David M. Winsberg

David M. Winsberg
P.E. License Number: 68463
August 18, 2008

BOARD OF COUNTY COMMISSIONERS
OFFICE OF

BUILDING & ZONING

COLUMBIA COUNTY, FLORIDA

IMPACT FEE RECEIPT

RECEIPT NUMBER / PERMIT NUMBER 000027331 DATE PAID 09/10/2008

APPLICANT LINDA RODER

OWNER JOHN & JULIE TAYLOR

CONTRACTOR JOSH SPARKS

PARCEL ID NUMBER 14-4S-15-00363-204 ESTIMATED COST OF CONSTRUCTION 209150.00

SUBDIVISION PINEMOUNT MEADOWS LOT 4 BLOCK ____ PHASE ____ UNIT ____

TYPE OF DEVELOPMENT SFD. UTILITY CATEGORY 1

HEATED FLOOR AREA 2912.00 TOTAL FLOOR AREA 4183.00

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE

IMPACT FEE PAID BY CONTRACTOR ON VOIDED PERMIT #27003(FEES TRANSFERED)

FEES:

ROAD IMPACT FEE 1046.00 CODE 210 UNIT 1
10100003632400

EMS IMPACT FEE 29.88
10300003632210

FIRE PROTECTION IMPACT FEE 78.63
10200003632220

CORRECTIONS IMPACT FEE 409.16
00100003632200

SCHOOL IMPACT FEE 1500.00
00100003632900

TOTAL FEES CHARGED 3063.67 CHECK NUMBER 4698

MAKE CHECKS PAYABLE TO: BCC (Board of County Commissioners)

135 NE HERNANDO AVE.
SUITE B-21 A
LAKE CITY, FL 32055
Phone: 386-758-1008
Fax: 386-758-2160

From Permit # 27003 on 5/14/08
See VOIDED PERMIT

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

29 May 2008

Josh Sparks
Sparks Construction
P.O. Box 1479
Lake City, Florida 32056-1479

RE: Building Permit No. 27003, Fonsa and Tawanna Bryant

Dear Josh,

The above referenced building permit has been revoked as of the date of this letter. The family relationship as required by Section 14.9 of the Columbia County Land Development Regulations (LDR's) cannot be met. The individual who is conveyed the property must be the parent, grandparent, sibling, child or adopted child or grandchild of the person who is the parent parcel owner. The birth certificate of Tawanna Bryant (Brown) shows Arthur Jerry Shuler to be the father. Under State Statutes, the name listed on a birth certificate is presumed to be the legal father of the child. In addition, the paternity affidavit signed by Janice L. Akins indicated that the father portion of Tawanna Bryant's (Brown) birth certificate is blank. The information provided to the Columbia County Building and Zoning Department in order to induce the issuance of the above referenced building permit is inconsistent and cannot be relied upon in order to issue the permit. The County would consider re-issuance of the permit based upon a DNA paternity test or a court order finding that Willie Kendrick McGuire is Tawanna's father.

Under Section 12.1.6 of the LDR's, you may appeal this decision to the Board of Adjustment within thirty (30) days from the date of this letter. Applications for an appeal to the Board of Adjustment are available at the Building and Zoning Department Office, County Administrative Offices, located at 135 Northeast Hernando Avenue, Room B21, Lake City, Florida. The fee to appeal a decision of the Land Development Regulation Administrator is $750.00. Failure to appeal in the time specified will constitute a waiver of all rights to appeal.

If you have any questions concerning this matter, please do not hesitate to contact me at 386.758.1007.

Sincerely,

Brian L. Kepner
Land Development Regulation Administrator,
County Planner

xc: Fonsa and Tawanna Bryant, Property Owners
Marlin M. Feagle, County Attorney
John D. Kerce, Building Official
Doug Pritchard, Code Enforcement

FEAGLE & FEAGLE, ATTORNEYS, P.A.
ATTORNEYS AT LAW
153 NE MADISON STREET
POST OFFICE BOX 1653
LAKE CITY, FLORIDA 32056-1653
(386) 752-7191
Fax: (386) 758-0950

Marlin M. Feagle
e-mail: leagle@bellsouth.net

Mark E. Feagle
e-mail: mefeagle@bellsouth.net

May 19, 2008

Mr. Brian Kepner
Land Development Regulation Administrator
Columbia County Courthouse Annex
135 NE Hernando Avenue
Lake City, Florida 32055

Re: Fonsa and Twanna Bryant Building Permit

Dear Brian:

The above referenced building permit was issued as a special family lot permit pursuant to Section 14.9 of the Columbia County Land Development Regulations (LDRs). Issuance was based upon a paternity affidavit dated May 8, 2008 signed by Janice Akins that Twanna Brown n/k/a Twanna Bryant, born July 26, 1976, is the biological child of Willie Kendrick Maguire. Ms. Akins had previously signed a paternity affidavit on April 30, 2008 stating Kenneth Maguire was Twanna Brown's father. As you know, Section 14.9 provides a special family lot permit may be issued to a relative who is the parent, grandparent, sibling, child or adopted child or grandchild of the person who conveyed the parcel to said individual. This provision is intended to promote the perpetuation of the family homestead in rural areas.

Twanna Bryant apparently purchased the subject property from Janice Jennings on or about June 11, 2003. The above referenced paternity affidavit indicating Twanna Brown was the child of Willie Kendrick Maguire would have made Janice Jennings the half-sister of Twanna Bryant. However, Janice Jennings has now advised the County that she does not believe Twanna Bryant is her half sister and has produced for our review copies of the probate proceedings for the estate of Willie Kendrick Maguire. Upon my review of the Petition for Discharge and Notice of Hearing in that probate case number 00-39-CP, neither Twanna Brown nor Twanna Bryant is shown as a relative of Willie Kendrick Maguire. This is in contradiction of the paternity affidavit dated May 8, 2008.

While I acknowledge the probate proceeding might have been completed without listing one of Willie Kendrick Maguire's children, to-wit, Twanna Bryant, the County should require additional documented proof that Twanna Bryant is, in fact, the child of Willie Kendrick Maguire. Obviously, the purpose for this would be to establish that Twanna Bryant is related to Janice Jennings who conveyed the property of less than five (5) acres to her on June 11, 2003. In the absence of such additional proof, the building permit appears to have been issued based upon the applicant's misrepresentation to the County and should be suspended or deemed void.

It would be my recommendation at this time that in accordance with Section 14.1 of the County LDRs, you as the Land Development Regulation Administrator, may order the discontinuance of the illegal use of the land or structures to be placed upon the property or any illegal work being done or take any other lawful action authorized by the LDRs necessary to insure compliance with or to prevent violations of the LDRs. Thus, the suspension or stop order would be appropriate to prevent further unlawful actions on the property until the building permittee is able to provide satisfactory documented proof of their family relationship to the original owner of the parent tract, Janice Jennings. Columbia County Ordinance No. 2002-15 also provides for stop work orders or to suspend or revoke a permit issued in error or on the basis of incorrect, inaccurate or incomplete information or in violation of any ordinance or regulation or any other provision of the Ordinance.

Very truly yours,

Marlin M. Feagle

MMF:dse

Prepared by:
Robert Cabral Jr
Provident Title & Mortgage, Inc.
444 SW Alachua Avenue
Lake City, Florida 32025

File Number: 06-413

Inst:2006014510 Date:06/16/2006 Time:08:48
Doc Stamp-Deed : 546.00
DC,P.DeWitt Cason,Columbia County B:1086 P:2518

General Warranty Deed

Made this June 12, 2006 A.D. By **Andrea Calliste, an unmarried woman**, 1276 NW 89th Dr, Coral Springs, FL 33071-6605, hereinafter called the grantor, to **John M. Taylor and Julie A. Taylor, husband and wife**, whose post office address is: 201 Perkins Drive, Naples, FL 34119, hereinafter called the grantee:

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

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

Lot 4, PINEMOUNT MEADOWS, as per plat thereof, recorded in Plat Book 7, Page 168-169, of the Public Records of Columbia County, Florida.

Subject to Restrictions recorded in O.R. Book 1016, Pages 1090-1091, Columbia County, Florida, and subject to Power Line Easement.

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

Parcel ID Number: **14-4S-15-00363-204**

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2005.

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

Signed, sealed and delivered in our presence:

Witness Printed Name JENNIFER McKINNEY

Witness Printed Name MILTON W. DAVIDSON

Andrea Calliste (Seal)
Address: 1276 NW 89th Dr, Coral Springs, FL 33071-6605

(Seal)
Address:

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for
FILE COPY
Code Compliance
PLANS EXAMINER

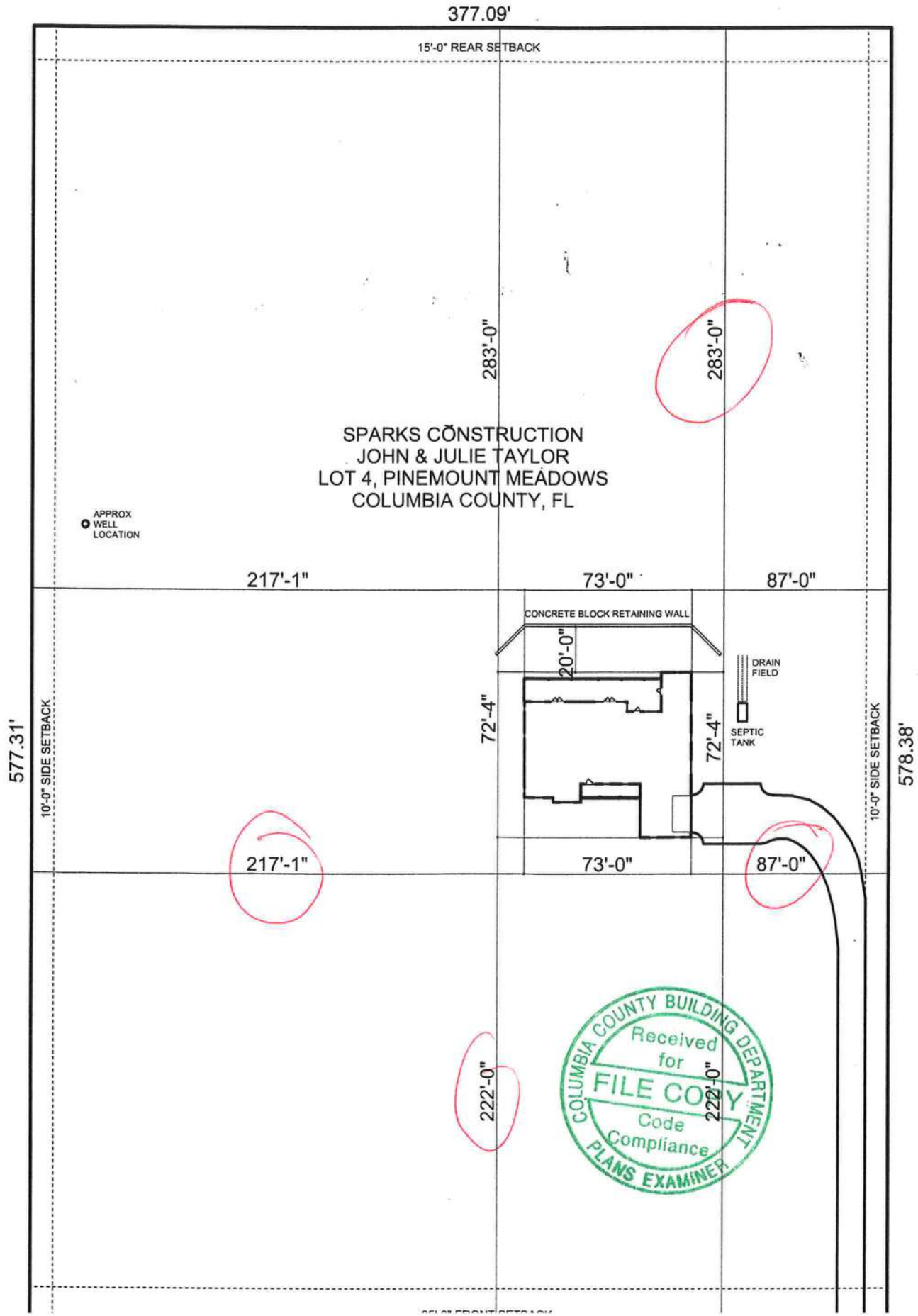
State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 14th day of June, 2006, by Andrea Calliste, an unmarried woman, who is/are personally known to me or who has produced Florida ID as identification.

KEVIN BURGESS
Notary Public, State of Florida
Commission# DD121896
My comm. expires June 30, 20

Notary Public
Print Name: Kevin B Burgess
My Commission Expires: 6/30/2011

DEED Individual Warranty Deed With Non-Homestead-Legal on Face
Closers' Choice

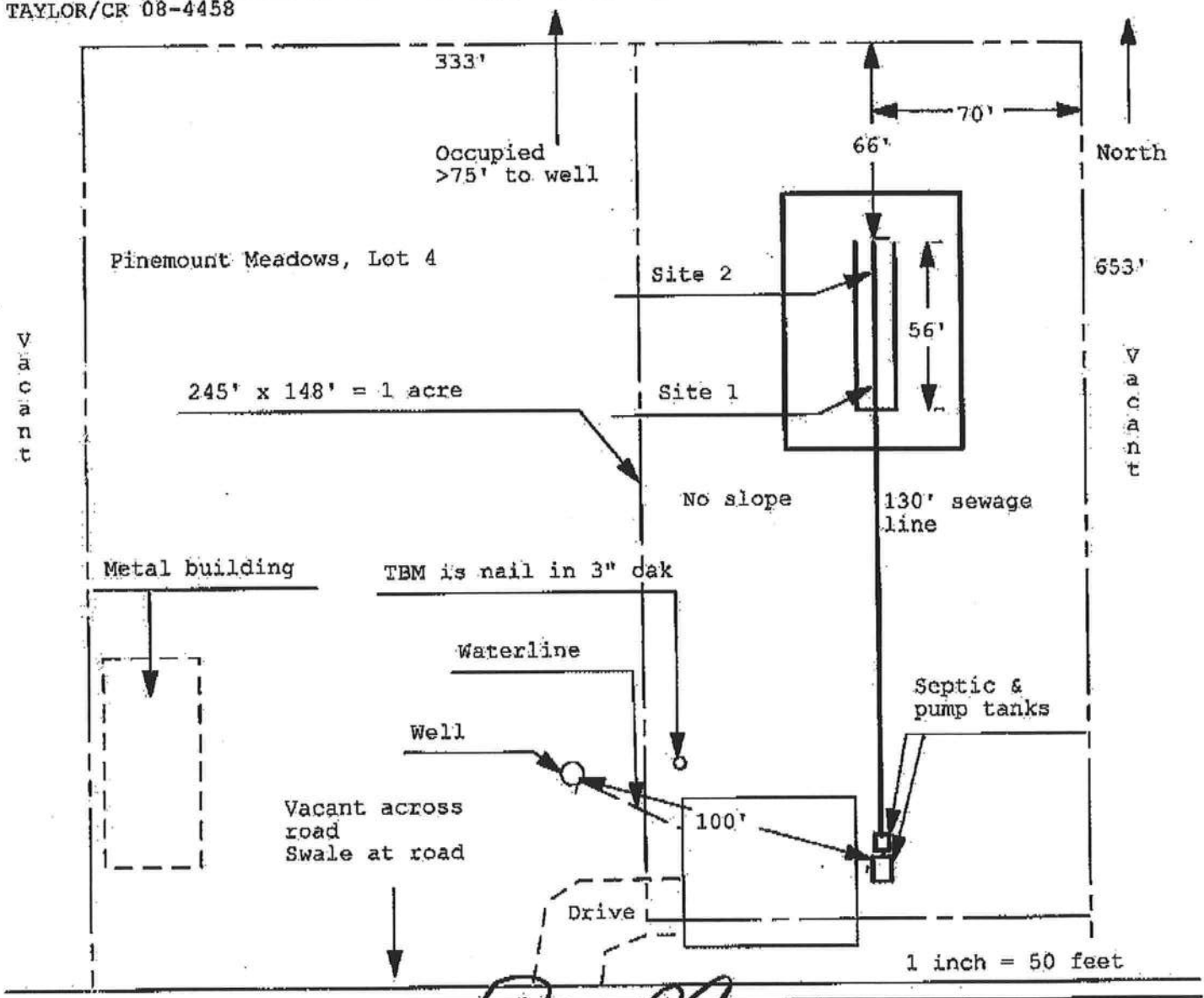

377.09'
15'-0" REAR SETBACK
283'-0"
283'-0"
SPARKS CONSTRUCTION
JOHN & JULIE TAYLOR
LOT 4, PINEMOUNT MEADOWS
COLUMBIA COUNTY, FL
APPROX
WELL
LOCATION
217'-1"
73'-0"
87'-0"
CONCRETE BLOCK RETAINING WALL
20'-0"
DRAIN
FIELD
SEPTIC
TANK
72'-4"
72'-4"
577.31'
10'-0" SIDE SETBACK
10'-0" SIDE SETBACK
578.38'
217'-1"
73'-0"
87'-0"
222'-0"
222'-0"
COLUMBIA COUNTY BUILDING DEPARTMENT
Received
for
FILE COPY
Code
Compliance
PLANS EXAMINER

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

Permit Application Number: 08-0519

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

TAYLOR/CR 08-4458



Site Plan Submitted By [signature] Date 8/18/08

Plan Approved ✓ Not Approved ____ Date 8-22-08

By [signature] Columbus CPHU

Notes: ____

FORM 600A-2004R Tested sealed ducts must be certified in this house. EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Sparks Construction - Taylor Res.**	Builder:	**Sparks Construction**
Address:		Permitting Office:	Columbia
City, State:	**, FL**	Permit Number:	
Owner:	**John & Julie Taylor**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	4	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	2912 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
	a. U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 521.3 ft²	
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 521.3 ft²	
8.	Floor types		
	a. Slab-On-Grade Edge Insulation	R=5.0, 268.0(p) ft	
	b. N/A		
	c. N/A		
9.	Wall types		
	a. Frame, Wood, Exterior	R=13.0, 1908.7 ft²	
	b. Frame, Wood, Adjacent	R=13.0, 210.0 ft²	
	c. N/A		
	d. N/A		
	e. N/A		
10.	Ceiling types		
	a. Under Attic	R=30.0, 3150.0 ft²	
	b. N/A		
	c. N/A		
11.	Ducts(Leak Free)		
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft	
	b. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 40.0 ft	

12.	Cooling systems		
	a. Central Unit	Cap: 33.0 kBtu/hr	
		SEER: 13.00	
	b. Central Unit	Cap: 32.0 kBtu/hr	
		SEER: 13.00	
	c. N/A		
13.	Heating systems		
	a. Electric Heat Pump	Cap: 33.0 kBtu/hr	
		HSPF: 7.70	
	b. Electric Heat Pump	Cap: 32.0 kBtu/hr	
		HSPF: 7.70	
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 80.0 gallons	
		EF: 0.90	
	b. N/A		
	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,	

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

Glass/Floor Area: 0.18

Total as-built points: 32703

Total base points: 37070

PASS

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

PREPARED BY: _____

DATE: 7-22-08

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

OWNER/AGENT: _____

DATE: 8-19-08

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

GREAT SEAL OF THE STATE OF FLORIDA IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , **FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2912.0	18.59	9744.0	1.Double, Clear	W	11.5	10.0	36.0	38.52	0.49	685.0	
				2.Double, Clear	W	11.5	10.0	144.0	38.52	0.49	2742.0	
				3.Double, Clear	N	50.0	10.0	18.0	19.20	0.59	204.0	
				4.Double, Clear	W	15.8	10.0	24.0	38.52	0.44	405.0	
				5.Double, Clear	W	15.8	10.0	36.0	38.52	0.44	608.0	
				6.Double, Clear	S	7.5	10.0	20.0	35.87	0.57	405.0	
				7.Double, Clear	W	1.5	10.0	8.0	38.52	0.98	301.0	
				8.Double, Clear	N	1.5	10.0	72.0	19.20	0.98	1357.0	
				9.Double, Clear	N	1.5	10.0	8.0	19.20	0.98	150.0	
				10.Double, Clear	E	7.5	10.0	36.0	42.06	0.59	897.0	
				11.Double, Clear	E	7.5	10.0	13.3	42.06	0.59	332.0	
				12.Double, Clear	E	1.5	10.0	36.0	42.06	0.98	1481.0	
				13.Double, Clear	E	1.5	10.0	18.0	42.06	0.98	740.0	
				14.Double, Clear	E	1.5	10.0	20.0	42.06	0.98	822.0	
				15.Double, Clear	S	1.5	10.0	8.0	35.87	0.96	275.0	
				16.Double, Clear	S	1.5	10.0	24.0	35.87	0.96	826.0	
				As-Built Total:				**521.3**			**12230.0**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	210.0	0.70	147.0	1. Frame, Wood, Exterior	13.0	1908.7	1.50	2863.0
Exterior	1908.7	1.70	3244.8	2. Frame, Wood, Adjacent	13.0	210.0	0.60	126.0
Base Total:	**2118.7**		**3391.8**	**As-Built Total:**		**2118.7**		**2989.0**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	2.40	48.0	1.Exterior Insulated	20.0	4.10	82.0
Exterior	20.0	6.10	122.0	2.Adjacent Insulated	20.0	1.60	32.0
Base Total:	**40.0**		**170.0**	**As-Built Total:**	**40.0**		**114.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	2912.0	1.73	5037.8	1. Under Attic	30.0	3150.0	1.73 X 1.00	5449.5
Base Total:	**2912.0**		**5037.8**	**As-Built Total:**		**3150.0**		**5449.5**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	268.0(p)	-37.0	-9916.0	1. Slab-On-Grade Edge Insulation	5.0	268.0(p	-36.20	-9701.6
Raised	0.0	0.00	0.0					
Base Total:			**-9916.0**	**As-Built Total:**		**268.0**		**-9701.6**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , **FL,**	PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points		Area X	SPM	= Points			
	2912.0	10.21	29731.5		2912.0	10.21	29731.5			
Summer Base Points: 38159.1				**Summer As-Built Points:**						**40812.5**
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 33000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)						
				40812	0.51	(1.09 x 1.000 x 1.00)	0.260	0.950	5578.5	
				(sys 2: Central Unit 32000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)						
				40812	0.49	(1.09 x 1.000 x 0.91)	0.260	0.950	4922.6	
38159.1	**0.3250**	**12401.7**		**40812.5**	**1.00**	**1.041**	**0.260**	**0.950**	**10493.5**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , **FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	2912.0	20.17	10572.0	1.Double, Clear	W	11.5	10.0	36.0	20.73	1.18	882.0
				2.Double, Clear	W	11.5	10.0	144.0	20.73	1.18	3531.0
				3.Double, Clear	N	50.0	10.0	18.0	24.58	1.03	454.0
				4.Double, Clear	W	15.8	10.0	24.0	20.73	1.21	601.0
				5.Double, Clear	W	15.8	10.0	36.0	20.73	1.21	901.0
				6.Double, Clear	S	7.5	10.0	20.0	13.30	2.27	602.0
				7.Double, Clear	W	1.5	10.0	8.0	20.73	1.01	166.0
				8.Double, Clear	N	1.5	10.0	72.0	24.58	1.00	1769.0
				9.Double, Clear	N	1.5	10.0	8.0	24.58	1.00	196.0
				10.Double, Clear	E	7.5	10.0	36.0	18.79	1.21	819.0
				11.Double, Clear	E	7.5	10.0	13.3	18.79	1.21	303.0
				12.Double, Clear	E	1.5	10.0	36.0	18.79	1.01	685.0
				13.Double, Clear	E	1.5	10.0	18.0	18.79	1.01	342.0
				14.Double, Clear	E	1.5	10.0	20.0	18.79	1.01	380.0
				15.Double, Clear	S	1.5	10.0	8.0	13.30	1.01	107.0
				16.Double, Clear	S	1.5	10.0	24.0	13.30	1.01	323.0
				As-Built Total:				**521.3**			**12061.0**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	210.0	3.60	756.0	1. Frame, Wood, Exterior	13.0	1908.7	3.40	6489.6
Exterior	1908.7	3.70	7062.2	2. Frame, Wood, Adjacent	13.0	210.0	3.30	693.0
Base Total:	**2118.7**		**7818.2**	**As-Built Total:**		**2118.7**		**7182.6**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	20.0	11.50	230.0	1.Exterior Insulated	20.0	8.40	168.0
Exterior	20.0	12.30	246.0	2.Adjacent Insulated	20.0	8.00	160.0
Base Total:	**40.0**		**476.0**	**As-Built Total:**	**40.0**		**328.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	2912.0	2.05	5969.6	1. Under Attic	30.0	3150.0	2.05 X 1.00	6457.5
Base Total:	**2912.0**		**5969.6**	**As-Built Total:**		**3150.0**		**6457.5**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	268.0(p)	8.9	2385.2	1. Slab-On-Grade Edge Insulation	5.0	268.0(p	7.60	2036.8
Raised	0.0	0.00	0.0					
Base Total:			**2385.2**	**As-Built Total:**		**268.0**		**2036.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , **FL,**	PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points			
	2912.0	-0.59	-1718.1		2912.0	-0.59	-1718.1			
Winter Base Points:			**25502.9**	**Winter As-Built Points:**						**26347.8**
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 33000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Gar(AH),R6.0						
				26347.8	0.508	(1.069 x 1.000 x 1.00)	0.443	0.950	6016.0	
				(sys 2: Electric Heat Pump 32000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
				26347.8	0.492	(1.069 x 1.000 x 0.93)	0.443	0.950	5425.4	
25502.9	**0.5540**		**14128.6**	**26347.8**	**1.00**	**1.032**	**0.443**	**0.950**	**11435.0**	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,	PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total
4	2635.00	10540.0		80.0	0.90	4	1.00	2693.56	1.00	10774.2
				As-Built Total:						**10774.2**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
12402	**14129**	**10540**	**37070**	**10493**	**11435**	**10774**	**32703**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , **FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked 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.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.8

The higher the score, the more efficient the home.

John & Julie Taylor, , , FL,

1.	New construction or existing	New	__
2.	Single family or multi-family	Single family	__
3.	Number of units, if multi-family	1	__
4.	Number of Bedrooms	4	__
5.	Is this a worst case?	No	__
6.	Conditioned floor area (ft²)	2912 ft²	__
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor:	Description Area	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 521.3 ft²	__
b.	SHGC:		
	(or Clear or Tint DEFAULT) 7b.	(Clear) 521.3 ft²	__
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=5.0, 268.0(p) ft	__
b.	N/A		__
c.	N/A		__
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1908.7 ft²	__
b.	Frame, Wood, Adjacent	R=13.0, 210.0 ft²	__
c.	N/A		__
d.	N/A		__
e.	N/A		__
10.	Ceiling types		
a.	Under Attic	R=30.0, 3150.0 ft²	__
b.	N/A		__
c.	N/A		__
11.	Ducts(Leak Free)		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft	__
b.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 40.0 ft	__

12.	Cooling systems		
a.	Central Unit	Cap: 33.0 kBtu/hr	__
		SEER: 13.00	__
b.	Central Unit	Cap: 32.0 kBtu/hr	__
		SEER: 13.00	__
c.	N/A		__
			__
13.	Heating systems		
a.	Electric Heat Pump	Cap: 33.0 kBtu/hr	__
		HSPF: 7.70	__
b.	Electric Heat Pump	Cap: 32.0 kBtu/hr	__
		HSPF: 7.70	__
c.	N/A		__
			__
14.	Hot water systems		
a.	Electric Resistance	Cap: 80.0 gallons	__
		EF: 0.90	__
b.	N/A		__
			__
c.	Conservation credits		__
	(HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits	PT,	__
	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

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

Builder Signature: _____ Date: _____

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

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

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

Energy Code Compliance

Duct System Performance Report

Project Name:	Sparks Construction - Taylor Res.	Builder:	Sparks Construction
Address:		Permitting Office:	
City, State:	, FL	Permit Number:	
Owner:	John & Julie Taylor	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	**Total House Duct System Leakage**	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ **(Q_n,tot)** ☐ **Receive credit if Q_n,tot≤ 0.03**	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ **(Q_n,out)** ☐ **Receive credit if Q_n,out≤ 0.03 AND Q_n,tot≤ 0.09**

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: http://energygauge.com/search.htp

BUILDING OFFICIAL: _____

DATE: _____

Cal-Tech Testing, Inc.

27331

• Engineering
• Geotechnical
• Environmental
Laboratories

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456
4784 Rosselle St., Jacksonville, FL 32254 • Tel(904)381-8901 • Fax(904)381-8902

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 08-00425
DATE TESTED: 9/24/08
DATE REPORTED: 9/24/08

PROJECT:	John and Julie Taylor Residence, Lake City, FL
CLIENT:	Sparks Construction, PO Box 1479, Lake City, FL 32056
GENERAL CONTRACTOR:	Sparks Construction
EARTHWORK CONTRACTOR:	Sparks Construction
INSPECTOR:	Garrett Osburn

ASTM METHOD	**SOIL USE**
(D-2922) Nuclear	BUILDING FILL

SPECIFIED REQUIREMENTS: 95%

TEST NO.		TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft^3)	MOISTURE PERCENT	DRY DENSITY (lb/ft^3)	PROCTOR TEST NO.	PROCTOR VALUE	MAXIMUM DENSITY
1		Approximate Center North Footing	0-12"	120.2	7.0	112.3	07-364-4	114.9	98%
2		Approximate Center West Footing	0-12"	126.2	14.2	110.5	07-364-4	114.9	96%
3		Approximate Center South Footing	0-12"	123.7	11.7	110.7	07-364-4	114.9	96%
4		Approximate Center East Footing	0-12"	119.8	8.2	110.7	07-364-4	114.9	96%

REMARKS: The Above Tests Meet Specified Requirements.

PROCTORS

PROCTOR NO.		SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft^3)	OPT. MOIST.	TYPE
07-364-4		Light Tan Fine Sand	114.9	9.6	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Linda Creamer, CEO, DBE

Linda M. Creamer
President - CEO

sw

Reviewed By:

Date: 9/25/08
Licensed, Florida No: 57842

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise. #27331

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: P.O. Box 1795 City Lake City State FL Zip 32056
Company Business License No. JB109476 Company Phone No. 386-755-3611 • 352-494-5761
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Sparks Construction Company Phone No. 623-0575

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) John Taylor
Pinemount Meadows 375 SW Blanton Ln.
Lot #4 Lake City, FL 32024
Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 1' Inside 3' Type of Fill Sand

Section 4: Treatment Information

Date(s) of Treatment(s) 10/7/08
Brand Name of Product(s) Used Biten XTS
EPA Registration No. 53883-189
Approximate Final Mix Solution % .06%
Approximate Size of Treatment Area: Sq. ft. 4183 Linear ft. 428 Linear ft. of Masonry Voids 412
Approximate Total Gallons of Solution Applied 980 gals.
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments

Name of Applicator(s) S. Gregory Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Shannon Gregory Date 10/7/08

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

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 14-4S-15-00363-204 **Building permit No.** 000027331

Use Classification SFD, UTILITY **Fire:** 38.52

Permit Holder JOSH SPARKS **Waste:** 100.50

Owner of Building JOHN & JULIE TAYLOR **Total:** 139.02

Location: 375 SW BLANTON LANE., LAKE CITY, FL

Date: 04/21/2009

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

27331

REPORT OF LIMITED SUBSURFACE EXPLORATION

John & Julie Taylor Residence
375 SW Blanton Lane
Lake City, Columbia County, Florida
CTI Project No. 08-00425-01

- Prepared For -
Sparks Construction, Inc.
163 SW Midtown Place, Suite 105
Lake City, Florida 32025

- Prepared by -
Cal-Tech Testing, Inc.
P.O. Box 1625
Lake City, Florida 32056-1625

August 20, 2008

Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056 Tel. (386) 755-3633 • Fax (386) 752-5456
4784 Rosselle Street • Jacksonville, FL 32254 Tel. (904) 381-8901 • Fax (904) 381-8902
2230 Greensboro Highway • Quincy, FL 32351 Tel. (850) 442-3495 • Fax (850) 442-4008

August 20, 2008

Sparks Construction, Inc.
163 SW Midtown Place, Suite 105
Lake City, Florida 32025

Attention: Mr. Josh Sparks

Reference: Report of Limited Subsurface Exploration
John & Julie Taylor Residence
375 SW Blanton Lane
Lake City, Columbia County, Florida
Cal-Tech Project No. 08-00425-01

Dear Mr. Sparks:

Cal-Tech Testing, Inc. (**CTI**) has completed the subsurface exploration and engineering evaluation for the subject project. Our work was planned and performed in general accordance with our proposal dated August 15, 2008. Authorization for this work was provided by you on August 18, 2008.

INTRODUCTION

This report presents the results of our limited subsurface exploration performed for the proposed residential structure. The services rendered by CTI during the course of this exploration can be summarized as follows:

- Reviewed available in-house data such as results of similar exploration and published data including the U.S.G.S. Quadrangle map, and the Geologic Map of Florida for this area.
- Planned and performed a total of four (4) SPT borings each extending 15 feet below the existing ground surface.
- Reviewed, analyzed, and gathered data in order to evaluate the subsurface conditions with respect to the proposed construction.
- Prepared this report, which includes the results of our field exploration as well as our recommendations with respect to foundation design, foundation related site work, general site development, and quality control.

PROJECT & SITE INFORMATION

The subject property is located on the north side of Blanton Lane approximately 1,250 feet east of Bumstead Road in Lake City, Columbia County, Florida. The existing site conditions were observed by the author of this document on April 19, 2008. At the time of our site visit, the ground surface within the proposed construction area was grass covered and relatively level. Soft and wet surface soils were noted across the subject site. These soft/wet soils prevented our truck-mounted drill rig to freely maneuver across the site, which required us to mobilize an ATV drill rig to the site.

Based on furnished drawings and our telephone conversation with you, we understand the proposed construction will consist of a one- to two-story residential structure with associated driveway and landscaped areas. We anticipate the construction will be of wood-frame with a combination of vinyl siding and decorative stone veneer, with wood/metal roofing.

Structural loading information was not available at this time; however, we anticipate that bearing wall loads and individual column loads (if any) will not exceed 2 klf and 25 kips, respectively. We assume that less than 3 feet of earthwork cut/fill will be required to bring the sites to the desired grades.

FIELD PROGRAM

The field program consisted of performing four (4) Standard Penetration Test (**SPT**) borings each extending 15 feet below the existing ground surface. The SPT borings were performed at the approximate locations shown on the attached Field Exploration Plan.

The sampling and penetration procedures of the SPT borings were accomplished in general accordance with ASTM D-1586, "*Penetration Test and Split-Barrel Sampling of Soils*", using a power rotary drill rig. The standard penetration tests were performed by driving a standard 1-3/8" I.D. and 2" O.D. split spoon sampler with a 140 pound hammer falling 30 inches. The number of hammer blows required to drive the sampler a total of 18 inches, in 6 inch increments, were recorded. The penetration resistance or "*N*" value is the summation of the last two 6 inch increments and is illustrated on the attached boring logs adjacent to their corresponding sample depths. The penetration resistance is used as an index to derive soil parameters from various empirical correlations. The borings were performed using a CME-45 (automatic hammer) drill rig.

The attached boring logs graphically illustrates penetration resistances, groundwater levels (if any), and soil descriptions. It should be noted the stratification lines and depth designations indicated on the boring records represent approximate boundaries between soil types. In some instances, the transition between these soil types may be gradual.

SUBSURFACE CONDITIONS

Visual classification of the soil samples as disclosed by SPT borings B-1 through B-4 initially consisted of 1 to 1½ feet of gray, silty fine sand with organics (TOPSOIL). This surface cover was underlain by alternating layers of light gray and reddish brown, mottled, sandy clay (CL), light gray to greenish gray, mottled with tan, silty clay (CH), light gray and reddish tan, mottled, clayey sand (SC), or tan to orange and cream, highly weathered LIMESTONE. These soils have a penetration resistance or "*N*" values ranging from 6 to 29 Blows Per Foot (BPF) indicating these soils vary form firm to very stiff in consistency.

Groundwater

At the time of completion of drilling, the groundwater was not encountered in any of the SPT borings. We note that due to the relatively short time frame of the field exploration and clayey nature of the subsurface soils, the groundwater may not have had sufficient time to stabilize. Therefore, for a true groundwater level reading, piezometers may be required. In any event, fluctuation in groundwater levels should be expected due to seasonal climatic changes, construction activity, rainfall variations, surface water runoff, and other site-specific factors.

RECOMMENDATIONS FOR FOUNDATION DESIGN & SITE PREPARATION

Foundation Support

Typically, the borings disclosed clayey soils within the explored depth of 15 feet below the existing ground surface. Our site observation indicated very soft/wet soils within the upper 3 feet of the existing ground surface. These soils are considered unsuitable for the support of the proposed foundation system and will require replacement with well-compacted suitable fill. The removal of this unsuitable soils should extend horizontally a minimum of 5 feet outside the perimeter of the building. All new fill should be placed and compacted as indicated herein.

Provided the foundation and site soils are prepared in accordance with the guidelines presented in this report, it is our opinion the proposed structure may be supported on a conventional shallow foundation system. The shallow foundation may be designed for an allowable soil bearing pressure of 2,000 pounds per square foot (psf) or less on newly placed structural fill.

In using net pressures, the weight of the footing and backfill over the footing need not be considered. Hence, only loads applied at or above final grade need to be used for dimensioning footings. However, wall bearing footings should be designed with a minimum width of 18 inches, while the individual column footings should have minimum dimensions of 2 feet by 2 feet.

Drainage Considerations

Adequate drainage should be provided at the site in order to minimize increase in moisture content of the foundation soils. Excessive moisture can significantly reduce the soils bearing capacity and contribute to foundation settlement. For the protection of the foundation soils, we recommend the ground water surface be sloped away from the structure.

Floor Slab

All unsuitable material (such as topsoil, soft, wet, etc.) located within the building area (**including 5 feet outside the perimeter of the building**) should be overexcavated and removed. Our site observation and results of the SPT borings indicate that a minimum of 3 feet of the existing soils will require replacement with well-compacted suitable fill. The exposed subgrade should then be recompacted and proofrolled with a fully-loaded, tandem-axle dump-truck or similar pneumatic-tired equipment. Provided the recompaction and proofrolling operations do not indicate significant deflecting or pumping of the existing subgrade, the floor slab may be designed as a slab-on-grade.

Floor slabs should be supported on at least 4 inches of relatively clean granular material, such as sand, sand and gravel, or crushed stone. This is to help distribute concentrated loads and equalize moisture beneath the slab. This granular material should have 100 percent passing the 1½ -inch sieve and a maximum of 10 percent passing the No. 200 sieve.

Exposed Subgrade

Following excavation and backfilling, exposed soils in the building and driveway areas should be compacted with overlapping passes of a relatively heavy weight drum roller having a total operating static weight (weight of fuel and water included) of at least 10 tons and a drum diameter of 5 feet. All exposed surfaces should be compacted to a minimum of 98 percent of the standard Proctor maximum dry density (**ASTM D-698**) to a depth of at least 12 inches below the compacted surface.

Structural Fill/Backfill

Structural fill should be placed in thin loose lifts not exceeding 12 inches in thickness and compacted with a heavy roller as described above. For walk-behind equipment, a maximum loose lift thickness of 6 inches is recommended. Each lift should be thoroughly compacted with a roller as described above to provide densities equivalent to at least 95 percent of the modified Proctor maximum dry density (ASTM D-1557). Structural fill should consist of an inorganic, non-plastic, granular soil containing less than 10 percent material passing the No. 200 mesh sieve (relatively clean sand with a Unified Soil Classification of SP or SP-SM).

All floor slab(s) and footings should be supported on a minimum of 36-inches of inorganic, non-plastic, granular soil containing less than 10 percent material passing the No. 200 mesh sieve (relatively clean sand with a Unified Soil Classification of SP or SP-SM). Depending

on the finished subgrade elevation, this may require the overexcavation and replacement of the near-surface soft/wet clayey soils. In any event, it is essential that finished subgrade be inspected by a geotechnical engineer to verify that these recommendations have been interpreted correctly and applied.

Report Limitations

The exploration and recommendations presented in this report are based upon subsurface conditions encountered at a specific location and time as presented within this report. However, subsurface conditions may exist that differ from our findings. We request that we be notified if dissimilar subsurface conditions are encountered.

Closing

We appreciate the opportunity to be of service on this project and look forward to a continued association. Should you have questions concerning this report or if we may be of further service, please contact this office.

Respectfully submitted,
Cal-Tech Testing, Inc.

David B. Brown
Executive Vice President

Nabil O. Hmeidi, P.E. 8/20/08
Senior Geotechnical Engineer
Licensed, Florida No. 57842

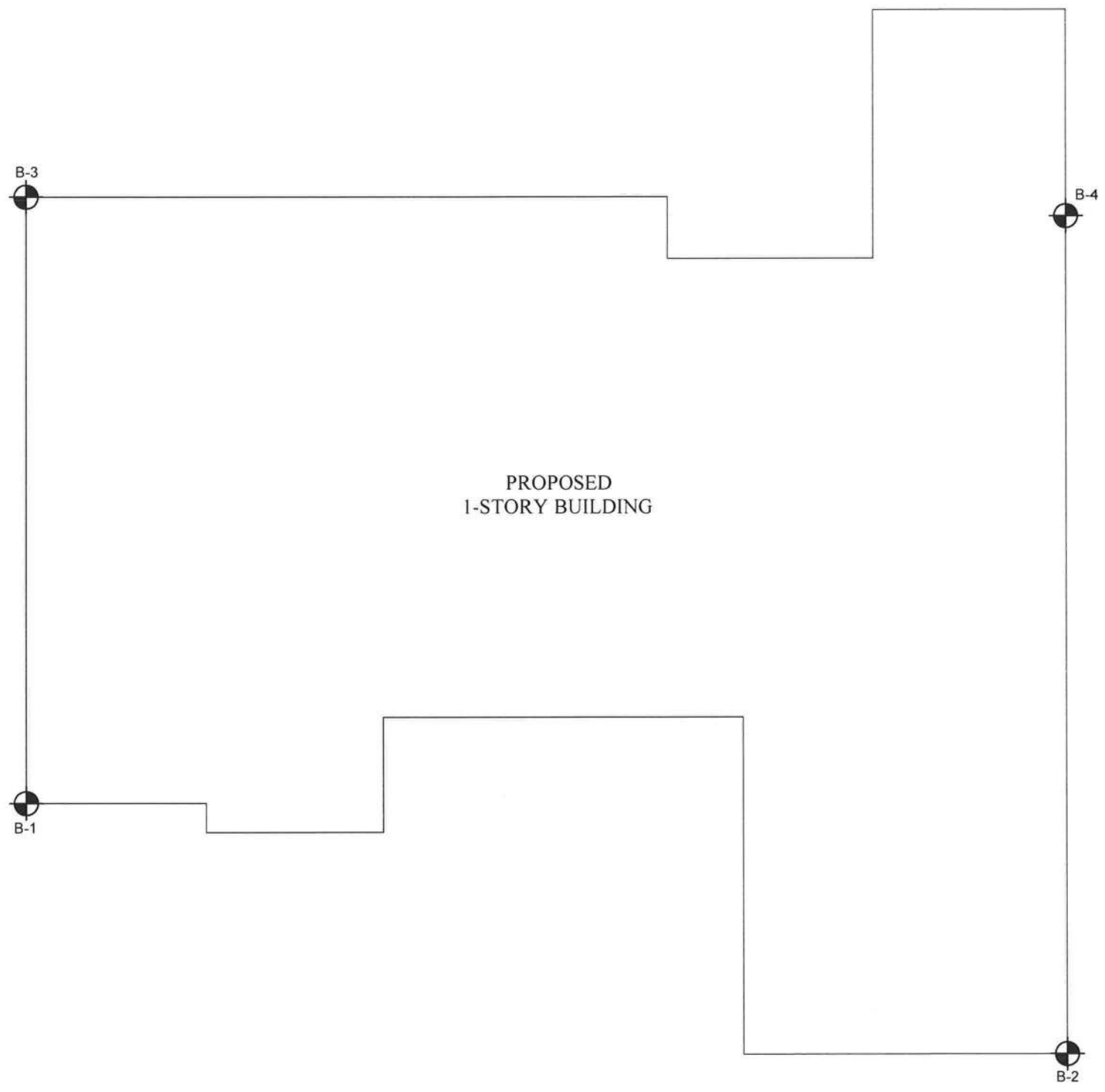
Attachments: *Vicinity Map (1 page)*
Field Exploration Plan (1 page)
Boring Logs (4 pages)
Unified Soil Classification System chart (1 page)
Key To Test Data (1 page)

Distribution: *File (1 copy)*
Addressee (3 bound copies)

ATTACHMENTS

CAL-TECH TESTING, INC. **P.O. Box 1625** **Lake City, Florida 32056-1625** **Phone: (386) 755-3633** **Fax: (386) 752-5456**	**VICINITY MAP** **John & Julie Taylor Residence** **375 SW Blanton Lane** **Lake City, Columbia County, Florida** **Cal-Tech Testing Project No. 08-00419-01**

Figure 1



FOR ILLUSTRATION ONLY
NOT TO SCALE
NOT FOR CONSTRUCTION

This drawing was extracted from a Floor Plan prepared by Sparks Construction, Inc., dated July 29, 2008.

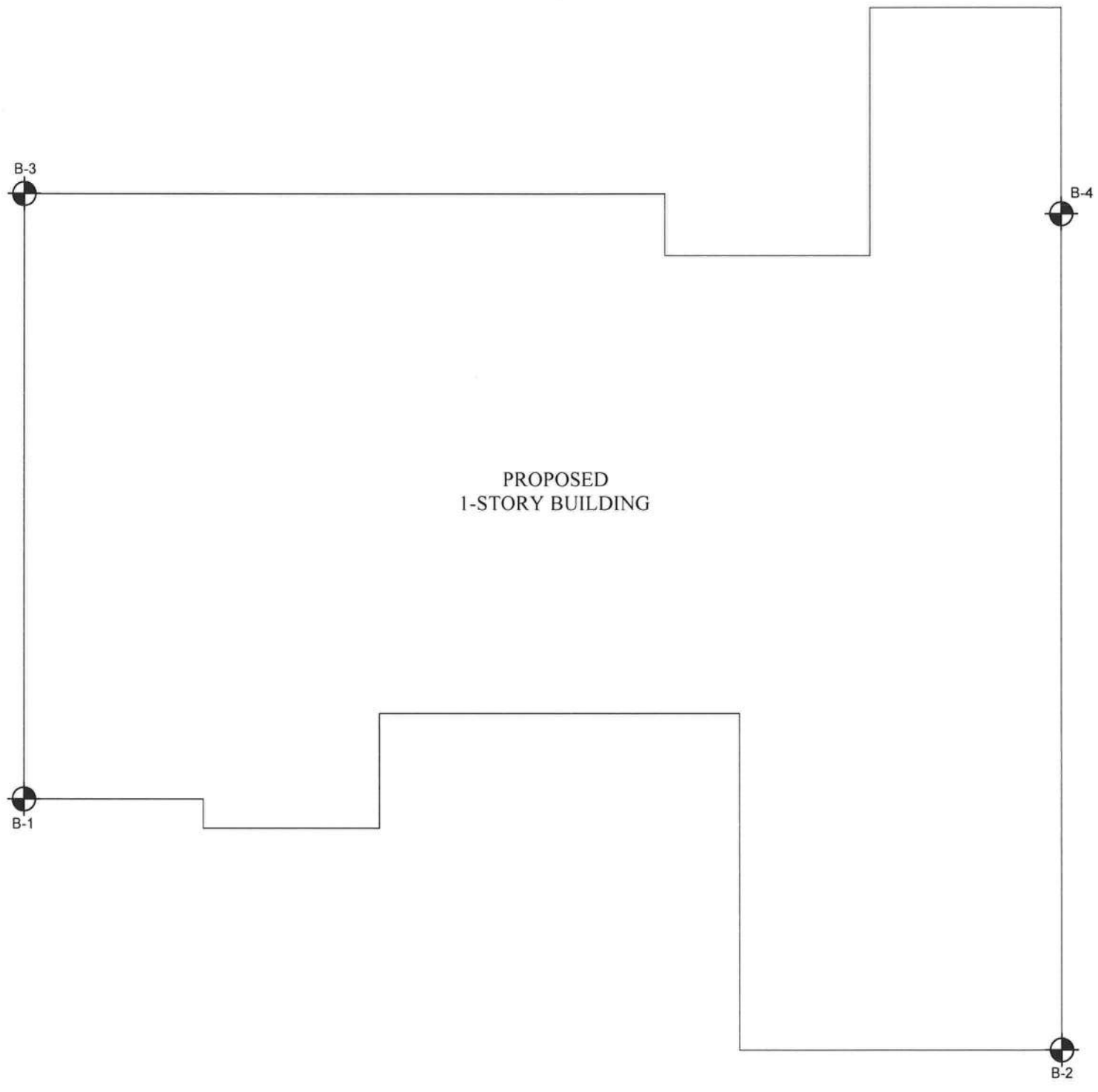
⊕ STANDARD PENETRATION TEST BORINGS BY CAL-TECH TESTING PERFORMED ON 08/19/2008

LIMITED SUBSURFACE EXPLORATION
JOHN & JULIE TAYLOR RESIDENCE
LAKE CITY, COLUMBIA COUNTY, FLORIDA

CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

FIELD EXPLORATION PLAN

Project No. 08-00425-01		DATE: 08/20/2008	FIGURE: 2
DRAWN:	APPROVED:	SCALE: N.T.S.	SHEET: 1/1



FOR ILLUSTRATION ONLY
NOT TO SCALE
NOT FOR CONSTRUCTION

This drawing was extracted from a Floor Plan prepared by Sparks Construction, Inc., dated July 29, 2008.

⊕ STANDARD PENETRATION TEST BORINGS BY CAL-TECH TESTING PERFORMED ON 08/19/2008

LIMITED SUBSURFACE EXPLORATION
JOHN & JULIE TAYLOR RESIDENCE
LAKE CITY, COLUMBIA COUNTY, FLORIDA

CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

FIELD EXPLORATION PLAN

Project No. 08-00425-01		DATE: 08/20/2008	FIGURE: 2
DRAWN:	APPROVED:	SCALE: N.T.S.	SHEET: 1/1

CAL-TECH TESTING, INC.
3309 SW SR 247
Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-2

CLIENT Sparks Construction, Inc.
PROJECT NAME John & Julie Taylor Residence
PROJECT NUMBER 08-00425-01
PROJECT LOCATION 375 SW Balnton Lane, Lake City, Florida
DATE STARTED 08/19/08 **COMPLETED** 08/19/08
GROUND ELEVATION _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Continuous Flight Auger
AT TIME OF DRILLING ---
LOGGED BY N.H. **CHECKED BY** _____
AT END OF DRILLING --- Not Encountered
NOTES CME-45, Automatic Hammer
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
0		Gray, silty fine sand with organics (TOPSOIL)					
		FIRM, light gray and reddish brown, mottled, sandy clay (CL)	SPT 1	100	2-3-5 (8)		
			SPT 2	100	2-3-3 (6)		
5		STIFF to VERY STIFF, light gray to greenish gray, mottled with tan, silty clay (CH)	SPT 3	100	4-4-6 (10)		
			SPT 4	100	5-7-7 (14)		
			SPT 5	100	6-7-7 (14)		
10			SPT 6	100	7-8-9 (17)		
		Yellowish tan to orange, highly weathered LIMESTONE	SPT 7	100	2-4-16 (20)		
15		Bottom of borehole at 15.0 feet.					

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

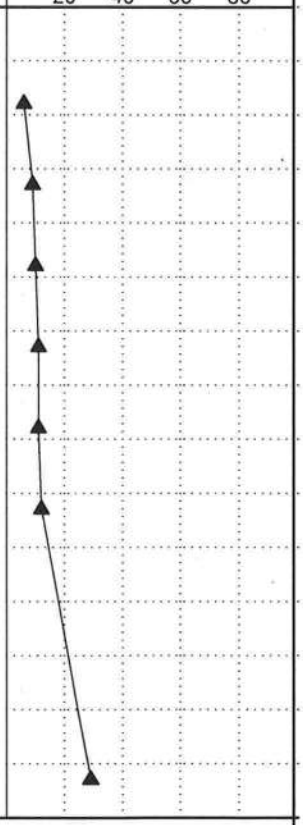
CAL-TECH TESTING, INC.
3309 SW SR 247
Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-3

CLIENT Sparks Construction, Inc.
PROJECT NAME John & Julie Taylor Residence
PROJECT NUMBER 08-00425-01
PROJECT LOCATION 375 SW Balnton Lane, Lake City, Florida
DATE STARTED 08/19/08 **COMPLETED** 08/19/08
GROUND ELEVATION _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Continuous Flight Auger
AT TIME OF DRILLING ---
LOGGED BY N.H. **CHECKED BY** _____
AT END OF DRILLING --- Not Encountered
NOTES CME-45, Automatic Hammer
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
0		Gray, silty fine sand with organics (TOPSOIL)					
		FIRM, light gray and reddish brown, mottled, sandy clay (CL)	SPT 1	100	2-3-3 (6)		
		STIFF, light gray to greenish gray, mottled with tan, silty clay (CH)	SPT 2	100	3-4-5 (9)		
5			SPT 3	100	4-5-5 (10)		
			SPT 4	100	5-5-6 (11)		
			SPT 5	100	5-5-6 (11)		
10			SPT 6	100	5-6-6 (12)		
		Light tan to cream, highly weathered LIMESTONE					
15			SPT 7	100	8-12-17 (29)		

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80



Bottom of borehole at 15.0 feet.

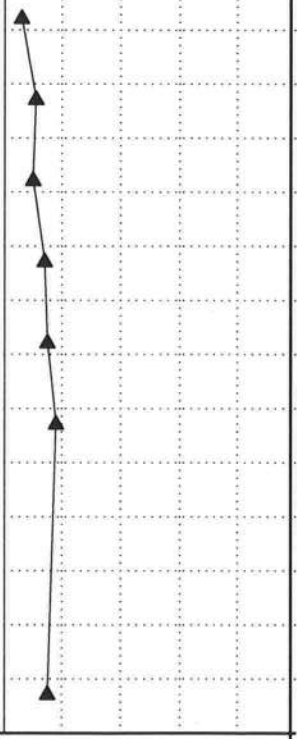
CAL-TECH TESTING, INC.
3309 SW SR 247
Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-4

CLIENT Sparks Construction, Inc.
PROJECT NAME John & Julie Taylor Residence
PROJECT NUMBER 08-00425-01
PROJECT LOCATION 375 SW Balnton Lane, Lake City, Florida
DATE STARTED 08/19/08 **COMPLETED** 08/19/08
GROUND ELEVATION _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Continuous Flight Auger
AT TIME OF DRILLING ---
LOGGED BY N.H. **CHECKED BY** _____
AT END OF DRILLING --- Not Encountered
NOTES CME-45, Automatic Hammer
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
0		Gray, silty fine sand with organics (TOPSOIL)					
		FIRM to STIFF, light gray and reddish brown, mottled, sandy clay (CL)	SPT 1	100	3-3-3 (6)		
			SPT 2	100	3-5-6 (11)		
5			SPT 3	100	3-5-5 (10)		
		MEDIUM DENSE, light gray and reddish tan, mottled, clayey sand (SC)	SPT 4	100	4-6-8 (14)		
		STIFF to VERY STIFF, light gray to greenish gray, mottled with tan, silty clay (CH)	SPT 5	100	5-7-8 (15)		
10			SPT 6	100	6-8-10 (18)		
15		Light tan to cream, highly weathered LIMESTONE	SPT 7	100	5-7-8 (15)		

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80



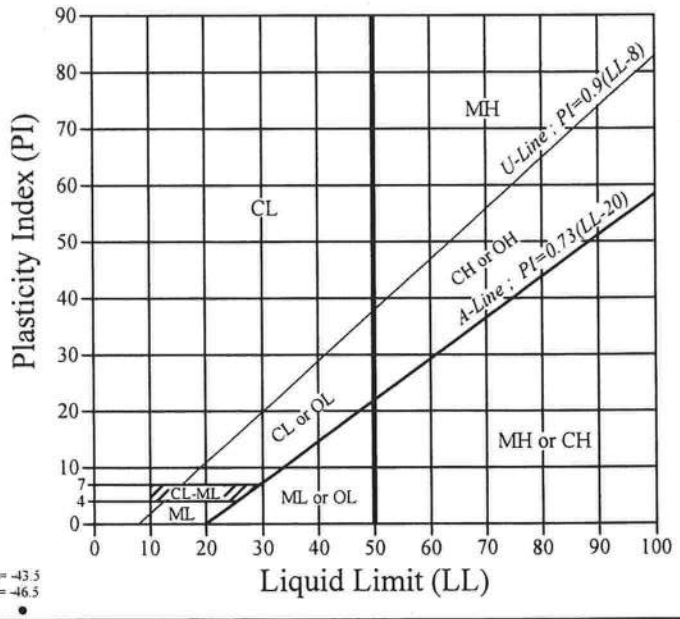
Bottom of borehole at 15.0 feet.

UNIFIED SOIL CLASSIFICATION SYSTEM
ASTM DESIGNATION D-2487

MAJOR DIVISIONS			GROUP SYMBOL	TYPICAL NAMES	LABORATORY CLASSIFICATION CRITERIA	
COARSE GRAINED SOILS (More than half of the material is larger than No. 200 sieve)	Gravels (more than half of the coarse fraction is larger than No. 4 sieve)	Clean gravels	GW	Well-graded gravels, gravel-sand mixtures, little or no fines.	Determine percentage of sand and gravel from grain size curve. Depending on percentage of fines (fraction smaller than No. 200 Sieve size), coarse grained soils are classified as follows: Less than 5% ..... GW, GP, SW, SP; More than 12% ... GM, GC, SM, SC; 5 to 12% ..... Borderline cases requiring dual symbols	$C_u = \frac{D_{60}}{D_{10}} > 4 \;;\; 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$
			GP	Poorly graded gravels, gravel-sand mixture, little or no fines.		Not meeting all gradation requirments of GW
		Gravel with fines	GM	Silty gravels, gravel-sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Above A-Line with PI between 4 and 7 are borderline cases requiring the use of dual symbols.
			GC	Clayey gravels, gravel-sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7	
	Sands (more than half of the coarse fraction is smaller than No. 4 sieve)	Clean sands	SW	Well-graded sands, gravelly sands, little or no fines.		$C_u = \frac{D_{60}}{D_{10}} > 6 \;;\; 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$
			SP	Poorly graded sands, gravelly sands, little or no fines.		Not meeting all gradation requirments of SW
		Sands with fine	SM	Silty sands, sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Limits plotting in hatched zone with PI between 4 and 7 are borderline cases requiring the use of dual symbols.
			SC	Clayey sands, sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7	
FINE GRAINED SOILS (More than half of the material is finer than No. 200 sieve)	Silts and Clays (LL less than 50)		ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity.		
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clay.		
			OL	Organic silts and organic silty clays of low plasticity.		
	Silts and Clays (LL greater than 50)		MH	Inorganic silts, micaceous or diato-maceous fine sandy or silty soils, elastic silts.		
			CH	Inorganic clays of high plasticity, fat clay.		
			OH	Organic clays of medium to high plasticity, organic silts.		
	Highly Organic Soils		Pt	Peat and other highly organic soils.		

PLASTICITY CHART

1. Plot intersection of PI as determined by the Atterberg Limits tests.
2. Points plotted above the A-Line indicate clay soils.
3. Points plotted below the A-Line indicate silt.



LL= 43.5
PI = 46.5

CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: 386-755-3633 Fax: 386-752-5456

5% Max. Passing the U.S. No. 200 Sieve ..... SP
5% - 12% Passing the U.S. No. 200 Sieve ..... SM-SP
12% - 50% Passing the U.S. No. 200 Sieve ..... SM/SC

KEY TO TEST DATA

STANDARD PENETRATION TEST:-

Soil sampling and penetration testing is performed in accordance with ASTM D-1586. The standard penetration resistance ("*N*") is the number of blows of a 140-pound hammer falling 30 inches to drive a 2-inch O.D., 1.4-inch I.D. split spoon sampler one foot.

ROCK CORE DRILLING:-

Rock sampling and core drilling is performed in accordance with ASTM D-2113. The rock quality designation percentage (RQD) is determined by summing only pieces of core that are at least 4 inches long, and dividing by the "run" length.

Relation of RQD and In-situ Rock Quality	
RQD (%)	Rock Quality
90 –100	Excellent
75 – 90	Good
50 –75	Fair
25 – 50	Poor
0 – 25	Very Poor

RELATIVE DENSITY:-

SANDS:

Very loose	**-**	**less than 4 blows/ft.**
Loose	**-**	**5 to 10 blows/ft.**
Medium	**-**	**11 to 30 blows/ft.**
Dense	**-**	**31 to 50 blows/ft.**
Very dense	**-**	**over 50 blows/ft.**

SILTS AND CLAYS:

Very soft	**-**	**less than 2 blows/ft.**
Soft	**-**	**3 to 4 blows/ft.**
Medium stiff	**-**	**5 to 8 blows/ft.**
Stiff	**-**	**9 to 15 blows/ft.**
Very stiff	**-**	**16 to 30 blows/ft.**
Hard	**-**	**31 to 50 blows/ft.**
Very hard	**-**	**over 50 blows/ft.**

ROCKS:

Soft	**- Rock core crumbles when handled.**
Medium	**- Can break core with hands.**
Moderately hard	**- Thin edges of rock core can be broken with fingers.**
Hard	**- Thin edges of core can not be broken with fingers.**
Very hard	**- Can not be scratched with knife.**

GROUNDWATER:- Water levels shown on boring logs are taken immediately upon completion of boring, and are intended for general information. The apparent level may have been altered by the drilling process. Groundwater levels, if desired, can be monitored over a long time interval.

Residential System Sizing Calculation

Summary

John & Julie Taylor

, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

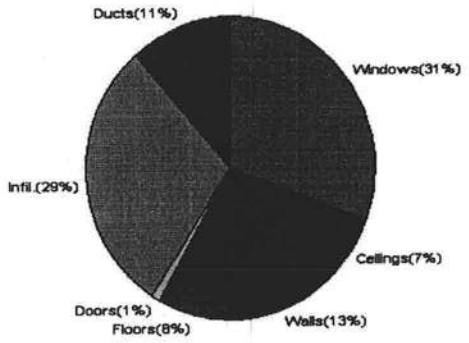
7/22/2008

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**54193**	**Btuh**	**Total cooling load calculation**	**73637**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	119.9	65000	Sensible (SHR = 0.75)	83.0	48750
Heat Pump + Auxiliary(0.0kW)	119.9	65000	Latent	109.0	16250
			Total (Electric Heat Pump)	88.3	65000

WINTER CALCULATIONS

Winter Heating Load (for 2912 sqft)

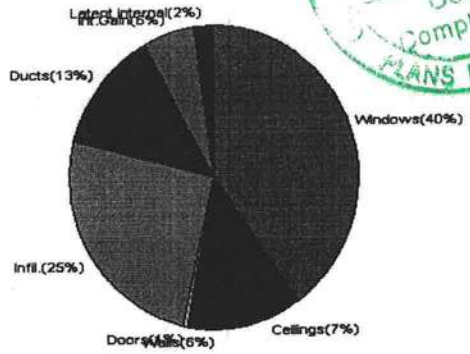
Load component			Load	
Window total	521	sqft	16782	Btuh
Wall total	2119	sqft	6958	Btuh
Door total	40	sqft	518	Btuh
Ceiling total	3150	sqft	3712	Btuh
Floor total	268	sqft	4383	Btuh
Infiltration	388	cfm	15727	Btuh
Duct loss			6113	Btuh
Subtotal			**54193**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**54193**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2912 sqft)

Load component			Load	
Window total	521	sqft	29563	Btuh
Wall total	2119	sqft	4298	Btuh
Door total	40	sqft	392	Btuh
Ceiling total	3150	sqft	5217	Btuh
Floor total			0	Btuh
Infiltration	340	cfm	6323	Btuh
Internal gain			4240	Btuh
Duct gain			8702	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**58735**	**Btuh**
Latent gain(ducts)			887	Btuh
Latent gain(infiltration)			12416	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**14903**	**Btuh**
TOTAL HEAT GAIN			**73637**	**Btuh**



Powered by ACCA MANUAL J

Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 7-23-08

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

John & Julie Taylor
, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

7/22/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
2	2, Clear, Metal, 0.87	W	144.0	32.2	4635 Btuh
3	2, Clear, Metal, 0.87	N	18.0	32.2	579 Btuh
4	2, Clear, Metal, 0.87	W	24.0	32.2	773 Btuh
5	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
6	2, Clear, Metal, 0.87	S	20.0	32.2	644 Btuh
7	2, Clear, Metal, 0.87	W	8.0	32.2	258 Btuh
8	2, Clear, Metal, 0.87	N	72.0	32.2	2318 Btuh
9	2, Clear, Metal, 0.87	N	8.0	32.2	258 Btuh
10	2, Clear, Metal, 0.87	E	36.0	32.2	1159 Btuh
11	2, Clear, Metal, 0.87	E	13.3	32.2	429 Btuh
12	2, Clear, Metal, 0.87	E	36.0	32.2	1159 Btuh
13	2, Clear, Metal, 0.87	E	18.0	32.2	579 Btuh
14	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
15	2, Clear, Metal, 0.87	S	8.0	32.2	258 Btuh
16	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
	Window Total		521(sqft)		16782 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1909	3.3	6268 Btuh
2	Frame - Wood - Adj(0.09)	13.0	210	3.3	690 Btuh
	Wall Total		2119		6958 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	3150	1.2	3712 Btuh
	Ceiling Total		3150		3712Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	268.0 ft(p)	16.4	4383 Btuh
	Floor Total		268		4383 Btuh
			Envelope Subtotal:		32352 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.80	29120	2119 388.3	15727 Btuh
Ductload				(DLM of 0.127)	6113 Btuh
All Zones			**Sensible Subtotal All Zones**		**54193 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

John & Julie Taylor
, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

7/22/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	54193 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	54193 Btuh

EQUIPMENT

1. Electric Heat Pump	#		33000 Btuh
2. Electric Heat Pump	#		32000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

John & Julie Taylor
, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

7/22/2008

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
2	2, Clear, Metal, 0.87	W	144.0	32.2	4635 Btuh
3	2, Clear, Metal, 0.87	N	18.0	32.2	579 Btuh
4	2, Clear, Metal, 0.87	W	24.0	32.2	773 Btuh
5	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
6	2, Clear, Metal, 0.87	S	20.0	32.2	644 Btuh
7	2, Clear, Metal, 0.87	W	8.0	32.2	258 Btuh
8	2, Clear, Metal, 0.87	N	72.0	32.2	2318 Btuh
9	2, Clear, Metal, 0.87	N	8.0	32.2	258 Btuh
10	2, Clear, Metal, 0.87	E	36.0	32.2	1159 Btuh
11	2, Clear, Metal, 0.87	E	13.3	32.2	429 Btuh
12	2, Clear, Metal, 0.87	E	36.0	32.2	1159 Btuh
13	2, Clear, Metal, 0.87	E	18.0	32.2	579 Btuh
14	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
15	2, Clear, Metal, 0.87	S	8.0	32.2	258 Btuh
16	2, Clear, Metal, 0.87	S	24.0	32.2	773 Btuh
	Window Total		521(sqft)		16782 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1909	3.3	6268 Btuh
2	Frame - Wood - Adj(0.09)	13.0	210	3.3	690 Btuh
	Wall Total		2119		6958 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	3150	1.2	3712 Btuh
	Ceiling Total		3150		3712Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	268.0 ft(p)	16.4	4383 Btuh
	Floor Total		268		4383 Btuh
		Zone Envelope Subtotal:			32352 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.80	29120	2119 388.3	15727 Btuh
Ductload	Pro. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)			(DLM of 0.127)	6113 Btuh
Zone #1		**Sensible Zone Subtotal**			**54193 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

John & Julie Taylor

, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

7/22/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	54193 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	54193 Btuh

EQUIPMENT

1. Electric Heat Pump	#	33000 Btuh
2. Electric Heat Pump	#	32000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

John & Julie Taylor
, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 7/22/2008

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Overhang Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	HTM Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	11.5ft	10ft.	36.0	33.3	2.7	29	80	1181 Btuh
2	2, Clear, 0.87, None,N,N	W	11.5ft	10ft.	144.0	135.8	8.2	29	80	4585 Btuh
3	2, Clear, 0.87, None,N,N	N	50ft.	10ft.	18.0	0.0	18.0	29	29	521 Btuh
4	2, Clear, 0.87, None,N,N	W	15.8	10ft.	24.0	24.0	0.0	29	80	695 Btuh
5	2, Clear, 0.87, None,N,N	W	15.8	10ft.	36.0	36.0	0.0	29	80	1043 Btuh
6	2, Clear, 0.87, None,N,N	S	7.5ft	10ft.	20.0	20.0	0.0	29	34	579 Btuh
7	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	8.0	0.0	8.0	29	80	636 Btuh
8	2, Clear, 0.87, None,N,N	N	1.5ft	10ft.	72.0	0.0	72.0	29	29	2085 Btuh
9	2, Clear, 0.87, None,N,N	N	1.5ft	10ft.	8.0	0.0	8.0	29	29	232 Btuh
10	2, Clear, 0.87, None,N,N	E	7.5ft	10ft.	36.0	13.3	22.7	29	80	2188 Btuh
11	2, Clear, 0.87, None,N,N	E	7.5ft	10ft.	13.3	5.8	7.5	29	80	768 Btuh
12	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	36.0	0.0	36.0	29	80	2863 Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	18.0	0.0	18.0	29	80	1431 Btuh
14	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	20.0	0.0	20.0	29	80	1590 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft	10ft.	8.0	7.0	1.0	29	34	236 Btuh
16	2, Clear, 0.87, None,N,N	S	1.5ft	10ft.	24.0	22.0	2.0	29	34	704 Btuh
	Excursion									8227 Btuh
	Window Total				521 (sqft)					29563 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1908.7	2.1	3981 Btuh
2	Frame - Wood - Adj	13.0/0.09	210.0	1.5	317 Btuh
	Wall Total		2119 (sqft)		4298 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Adjacent	20.0	9.8	196 Btuh
	Door Total	40 (sqft)		392 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	3150.0	1.7	5217 Btuh
	Ceiling Total		3150 (sqft)		5217 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	268 (ft(p))	0.0	0 Btuh
	Floor Total		268.0 (sqft)		0 Btuh

			Envelope Subtotal:		39470 Btuh
Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM= / Load
	SensibleNatural	0.70	29120	2119	388.3 / 6323 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance / Load
		8	X 230	+	2400 / 4240 Btuh
			Sensible Envelope Load:		50033 Btuh
Duct load			(DGM of 0.174)		8702 Btuh
			Sensible Load All Zones		**58735 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

John & Julie Taylor

, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

7/22/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**50033 Btuh**
	Sensible Duct Load	8702 Btuh
	Total Sensible Zone Loads	**58735 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**58735 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	12416 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	887 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**14903 Btuh**
	TOTAL GAIN	**73637 Btuh**

EQUIPMENT

1. Central Unit	#	33000 Btuh
2. Central Unit	#	32000 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

John & Julie Taylor
, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 7/22/2008

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	11.5ft	10ft.	36.0	33.3	2.7	29	80	1181 Btuh
2	2, Clear, 0.87, None,N,N	W	11.5ft	10ft.	144.0	135.8	8.2	29	80	4585 Btuh
3	2, Clear, 0.87, None,N,N	N	50ft	10ft.	18.0	0.0	18.0	29	29	521 Btuh
4	2, Clear, 0.87, None,N,N	W	15.8	10ft.	24.0	24.0	0.0	29	80	695 Btuh
5	2, Clear, 0.87, None,N,N	W	15.8	10ft.	36.0	36.0	0.0	29	80	1043 Btuh
6	2, Clear, 0.87, None,N,N	S	7.5ft	10ft.	20.0	20.0	0.0	29	34	579 Btuh
7	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	8.0	0.0	8.0	29	80	636 Btuh
8	2, Clear, 0.87, None,N,N	N	1.5ft	10ft.	72.0	0.0	72.0	29	29	2085 Btuh
9	2, Clear, 0.87, None,N,N	N	1.5ft	10ft.	8.0	0.0	8.0	29	29	232 Btuh
10	2, Clear, 0.87, None,N,N	E	7.5ft	10ft.	36.0	13.3	22.7	29	80	2188 Btuh
11	2, Clear, 0.87, None,N,N	E	7.5ft	10ft.	13.3	5.8	7.5	29	80	768 Btuh
12	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	36.0	0.0	36.0	29	80	2863 Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	18.0	0.0	18.0	29	80	1431 Btuh
14	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	20.0	0.0	20.0	29	80	1590 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft	10ft.	8.0	7.0	1.0	29	34	236 Btuh
16	2, Clear, 0.87, None,N,N	S	1.5ft	10ft.	24.0	22.0	2.0	29	34	704 Btuh
	Window Total				521 (sqft)					21337 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1908.7	2.1	3981 Btuh
2	Frame - Wood - Adj	13.0/0.09	210.0	1.5	317 Btuh
	Wall Total		2119 (sqft)		4298 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Adjacent	20.0	9.8	196 Btuh
	Door Total	40 (sqft)		392 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	3150.0	1.7	5217 Btuh
	Ceiling Total		3150 (sqft)		5217 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	268 (ft(p))	0.0	0 Btuh
	Floor Total		268.0 (sqft)		0 Btuh

		Zone Envelope Subtotal:		31243 Btuh
Infiltration	Type: SensibleNatural	ACH: 0.70	Volume(cuft): 29120 wall area(sqft): 2119	CFM= 339.7 Load: 6323 Btuh
Internal gain		Occupants: 8	Btuh/occupant: X 230 +	Appliance: 2400 Load: 4240 Btuh
		Sensible Envelope Load:		41806 Btuh
Duct load	Prop. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)		(DGM of 0.174)	7271 Btuh
		Sensible Zone Load		**49077 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

John & Julie Taylor
, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

7/22/2008

The following window Excursion will be assigned to the system loads.

Windows	July excursion for System 1S2		Excursion Subtotal:	8227 Btuh 8227 Btuh
Duct load				1431 Btuh
			Sensible Excursion Load	**9658 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

John & Julie Taylor
, FL

Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

7/22/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**50033 Btuh**
	Sensible Duct Load	8702 Btuh
	Total Sensible Zone Loads	**58735 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**58735 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	12416 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	887 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**14903 Btuh**
	TOTAL GAIN	**73637 Btuh**

EQUIPMENT

1. Central Unit	#	33000 Btuh
2. Central Unit	#	32000 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

Powered by ACCA MANUAL J

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

John & Julie Taylor

, FL

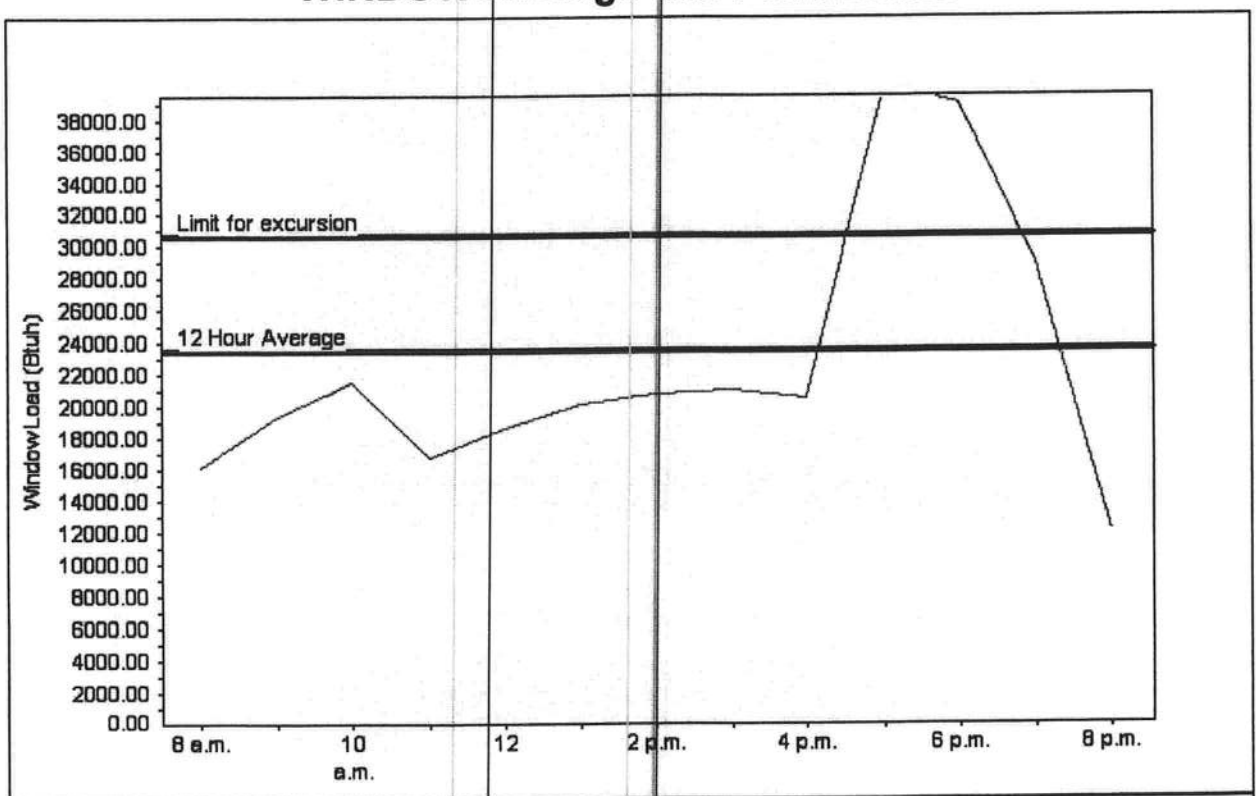
Project Title:
Sparks Construction - Taylor Res.

Code Only
Professional Version
Climate: North

7/22/2008

Weather data for: Gainesville - Defaults			
Summer design temperature	92 F	Average window load for July	23573 Btu
Summer setpoint	75 F	Peak window load for July	40163 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	30645 Btu
Latitude	29 North	Window excursion (July)	9518 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

John & Julie Taylor

PRODUCT APPROVAL SPECIFICATION SHEET

Location: **Project Name:**

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	Mayfair	entry door	FL 1311
2. Sliding			
3. Sectional	Raynor	Classic Sectional	FL 3070
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	Dawid	Single hung windows	FL 1369
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding	James Hardie	Hardiboard Siding	FL 889-R1
2. Soffits	Ashley	Aluminum	FL 406
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	Tamko	30-year asphault	FL 673
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

ory/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

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) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspectic

Contractor or Contractor's Authorized Agent Signature

Linda Roder

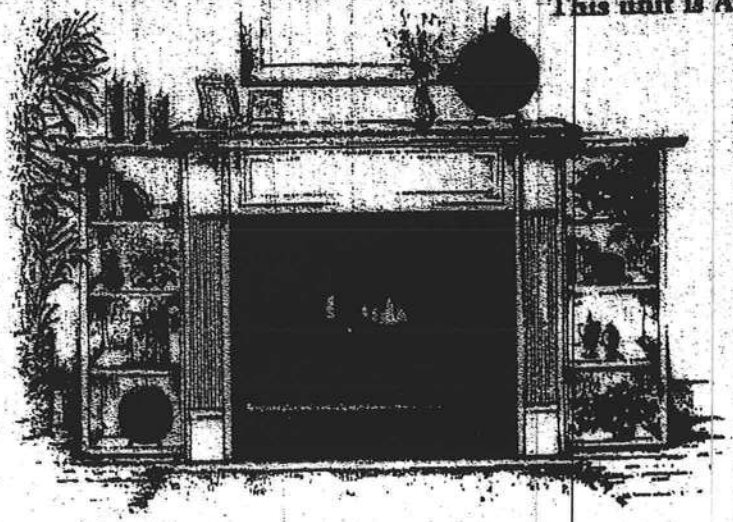
Print Name

8-9-08

Date

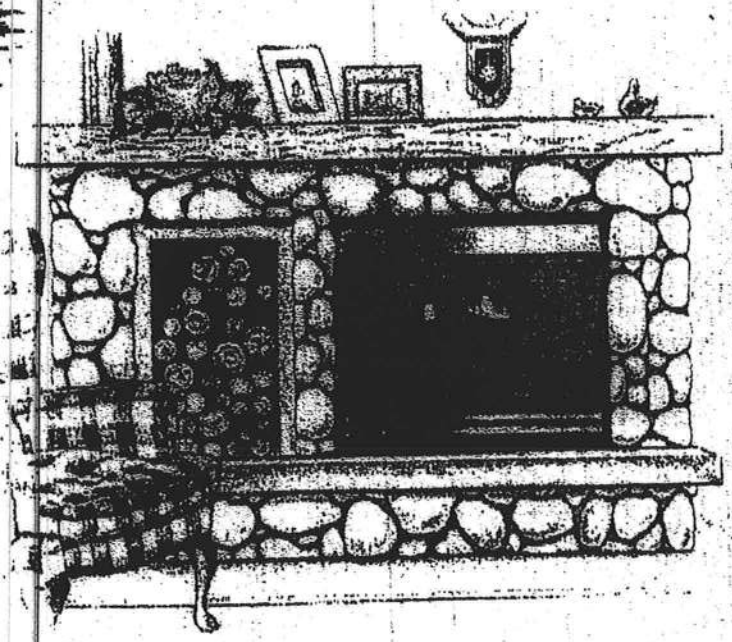
VENT-FREE

This unit is A.G.A. certified as a heater with 99% heat efficiency
No chimney or flue system required
Wide selection of factory installed options offered



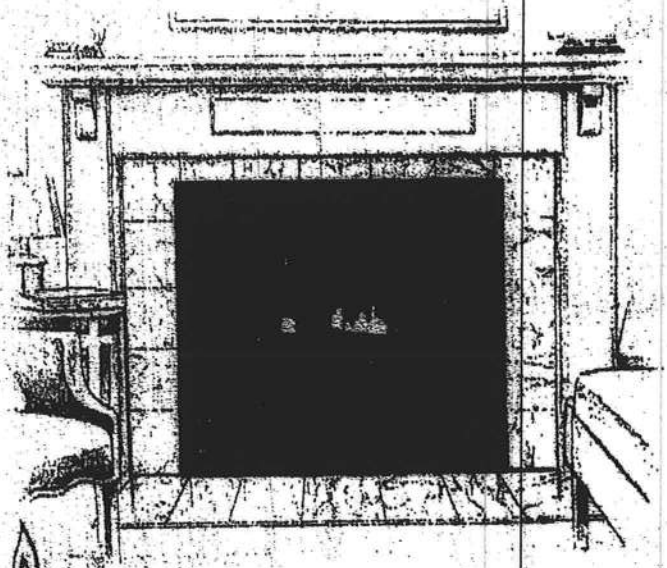
VF-4000

- 14,000 – 25,000 Btu/hr with manual control valve
- 19,500 – 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening



VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers



VF-6000

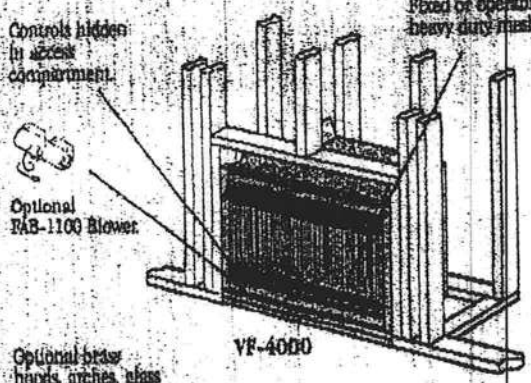
- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

GAS

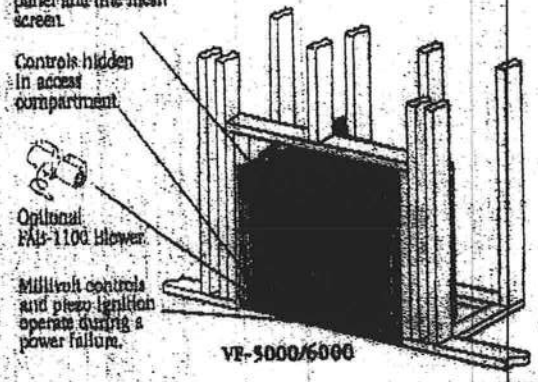
SUPERIOR

VF-4000/5000/6000

VF-6000 shown



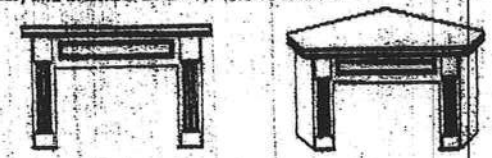
VF-4000



VF-5000/6000

SURROUNDS

The Charleston Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



Distributed by:

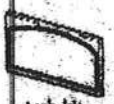
Refractory tan brick panels

Gas flex liner kit.

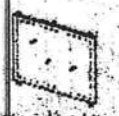
Square brass trim kit.

Brass Louver kit (For VF-4 only)

Screen panel kit. (For VF-5 & VF6 only)



Arch kit. (For VF-5 & VF6 only)



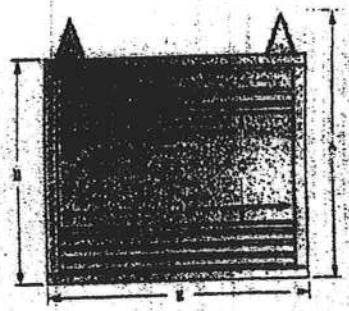
Glass door kit. (For VF-5 & VF6 only)

Brass hood. (For VF-5 & VF6 only)

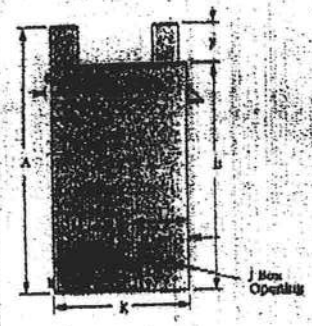
Wall switch or optional wireless remote available. (For VF-4MV, VF-5 & VF-6)

Wall thermostat (For VF-4MV, VF-5 & VF-6)

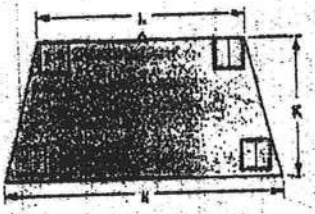
Front View



Left Side View



Top View



Vent-Free Product Dimensions

	VF-4000/5000C	VF-6000C
A		42-1/8"
B	31-1/2"	36-5/8"
C		20"
D	30"	34"
E		40"
F	5-1/2"	5-1/2"
G		1/2"
H	3-3/4"	3-3/4"
I		8-1/2"
J	3"	3"
K	19-1/8"	19-1/8"
L	27"	28-1/2"

Btu Chart

Model	Natural	Propane
VF-4000 manual	14,000 – 25,000	14,000 – 25,000
VF-4000/5000 millivolt	19,500 – 25,000	19,500 – 25,000
VF-6000	25,000 – 32,000	25,000 – 32,000

Framing Dimension

Model	Width	Height	Depth
VF-4000/5000	37"	37-1/4"	15-1/2"
VF-6000	41"	42-3/8"	19-1/2"

NOTE: Diagrams and illustrations are not to scale. Product designs, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice. Built to ANSI Z21.11.2 standard and approved by A.G.A. (report # 1297001?).

Consult your distributor for local fireplace code information.

SUPERIOR

www.LennoxHearthProducts.com

Printed in U.S.A. ©2001 Lennox Hearth Products • 1110 West Taft Ave., Orange, CA 92865-4150

Lennox Hearth Products Direct-Vent heater rated gas appliances include a 20-year limited warranty.

John Wayne Taylor

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST
FOR THE FLORIDA RESIDENTIAL BUILDING CODE 2004 with 2005 & 2006
Supplements and One (1) and Two (2) Family Dwellings

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current FLORIDA BUILDING CODES and the Current FLORIDA RESIDENTIAL CODE. ALL PLANS OR DRAWING SHALL PROVIDED CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the Residential Code (Florida Wind speed map) **SHALL BE USED.**

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

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

GENERAL REQUIREMENTS:

- Two (2) complete sets of plans containing the following:
- All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void
- Condition space (Sq. Ft.) and total (Sq. Ft.) under roof shall be shown on the plans.
- Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents per FBC 106.1.

Site Plan information including:

- Dimensions of lot or parcel of land
- Dimensions of all building set backs
- Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.
- Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required:

- Plans or specifications must meet state compliance with FRC Chapter 3
- The following information must be shown as per section FRC
- Basic wind speed (3-second gust), miles per hour
- Wind importance factor and nature of occupancy
- Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
- The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.

Elevations Drawing including:

- All side views of the structure
- Roof pitch
- Overhang dimensions and detail with attic ventilation
- Location, size and height above roof of chimneys
- Location and size of skylights with Florida Product Approval
- Number of stories
- e) Building height from the established grade to the roofs highest peak

Floor Plan including:

- ✓ Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies and raised floor surfaces located more than 30 inches above the floor or grade
- ✓ All exterior and interior shear walls indicated
- ✓ Shear wall opening shown (Windows, Doors and Garage doors
- ✓ Emergency escape and rescue opening in each bedroom (net clear opening shown)
- ✓ Safety glazing of glass where needed
- ✓ Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FRC)
- o Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FRC 311)
- ✓ Plans must show and identify accessibility of bathroom (see FRC 322)

All materials placed within opening or onto/into exterior shear walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

Foundation Plans Per FRC 403:

- ✓ a) Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.
- ✓ b) All posts and/or column footing including size and reinforcing
- ✓ c) Any special support required by soil analysis such as piling.
- ✓ d) Assumed load-bearing valve of soil _____ (psf)
- o e) Location of horizontal and vertical steel, for foundation or walls (include # size and type)

CONCRETE SLAB ON GRADE Per FRC R506

- ✓ Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
- ✓ Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports

PROTECTION AGAINST TERMITES Per FRC 320:

- ✓ Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered termiticides

Masonry Walls and Stem walls (load bearing & shear Walls) FRC Section R606

- o Show all materials making up walls, wall height, and Block size, mortar type
- o Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

- ✓ Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer
- ✓ Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers
- ✓ Girder type, size and spacing to load bearing walls, stem wall and/or priers
- ✓ Attachment of joist to girder
- ✓ Wind load requirements where applicable
- ✓ Show required under-floor crawl space
- ✓ Show required amount of ventilation opening for under-floor spaces
- ✓ Show required covering of ventilation opening.
- ✓ Show the required access opening to access to under-floor spaces
- ✓ Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing
- ✓ Show Draft stopping, Fire caulking and Fire blocking
- ✓ Show fireproofing requirements for garages attached to living spaces, per FRC section R309
- ✓ Provide live and dead load rating of floor framing systems (psf).

WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

- Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls.
- Fastener schedule for structural members per table R602.3 (1) are to be shown.
- Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing
- Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems.
- Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FRC Table R502.5 (1)
- Indicate where pressure treated wood will be placed.
- Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas
- A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail

ROOF SYSTEMS:

- Truss design drawing shall meet section FRC R802.10 Wood trusses. Include a layout and truss details and be signed and sealed by Fl. Pro. Eng.
- Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters
- Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details
- Provide dead load rating of trusses

Conventional Roof Framing Layout Per FRC 802:

- Rafter and ridge beams sizes, span, species and spacing
- Connectors to wall assemblies' include assemblies' resistance to uplift rating.
- Valley framing and support details
- Provide dead load rating of rafter system.

ROOF SHEATHING FRC Table R602,3(2) FRC 803

- Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing on the edges & intermediate areas

ROOF ASSEMBLIES FRC Chapter 9

- Include all materials which will make up the roof assembles covering; with Florida Product Approval numbers for each component of the roof assembles covering.

FCB Chapter 13 Florida Energy Efficiency Code for Building Construction

- Residential construction shall comply with this code by using the following compliance methods in the FBC Subchapter 13-6, Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area
- Show the insulation R value for the following areas of the structure: Attic space, Exterior wall cavity and Crawl space (if applicable)

HVAC information shown

- Manual J sizing equipment or equivalent computation
- Exhaust fans locations in bathrooms

Plumbing Fixture layout shown

- All fixtures waste water lines shall be shown on the foundation plan

Electrical layout shown including:

- Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- Ceiling fans
- Smoke detectors
- Service panel, sub-panel, location(s) and total ampere ratings

- ✓ On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.
- ✓ Appliances and HVAC equipment and disconnects
- ✓ Arc Fault Circuits (AFCI) in bedrooms

- o Notarized Disclosure Statement for Owner Builders

- o Notice of Commencement Recorded (in the Columbia County Clerk Office) Notice Of Commencement is required to be filed with the building department Before Any Inspections Will Be Done.

Private Potable Water

- o Size of pump motor
- o Size of pressure tank
- o Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

- o Building Permit Application: A current Building Permit Application form is to be completed and submitted for all residential projects.

- o Parcel Number: The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

- o Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)

- o City Approval: If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321

- o Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED. A development permit will also be required. The permit cost is $50.00.

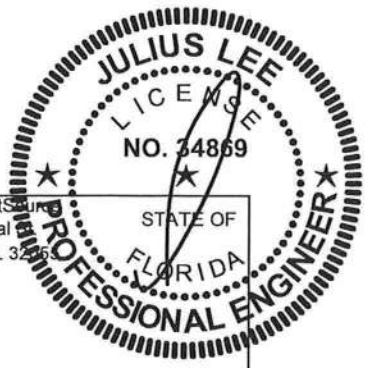
- o Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit ($25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ($50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.

- o 911 Address: If the project is located in an area where the 911 address has been issued, then the proper Paper work from the 911 Addressing Departments must be submitted. (386) 758-1125

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. NOTIFICATION WILL BE GIVEN WHEN THE APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT.

Builders FirstSource

HLAKMF



Project Information:

Builder: SPARKS CONSTRUCTION
Model: CUSTOM
Builders FirstSource Job #: L284669
Street: N/A
City: Lake City
County: Columbia
Building Code: FBC2004/TPI2002
Computer Program Used: MiTek 6.3

Builders FirstSource
2525 E. Duval
Lake City, FL 32

JULIUS LEE'S CONSULT. ENGR INC
1455 SW 4TH AVE , DELRAY BEACH
FLORIDA. 33444

Truss Design Information:

Gravity Loads
Roof: 32 psf Total
Floor: 55 psf Total

Wind
Wind Standard: ASCE 7-02
Wind Speed: 110 mph
Mean Roof Ht: 18 ft
Exposure: B

Note: Refer to individual truss design drawings for special loading conditions, design criteria, truss geometry, lumber, and plate information.

Design Professional Information:

Design Professional Of Record: Joshua D. Sparks
License # : CBC125226
Delegated Truss Engineer: Julius Lee
License # : 34869

REVIEWED
By julius lee at 1:15 pm, Aug 01, 2008

This truss specification package consists of this index sheet and 41 truss design drawings. This signed and sealed index sheet indicates acceptance of my professional engineering responsibility solely for listed truss design drawings. The suitability and use of each truss component for any particular building is the responsibility of the building designer per TPI.

Truss #	Truss Label	Drawing #	Seal Date
1	CJ1	L284669001	8/1/2008
2	CJ1A	L284669002	8/1/2008
3	CJ2	L284669003	8/1/2008
4	CJ3	L284669004	8/1/2008
5	CJ3A	L284669005	8/1/2008
6	CJ4	L284669006	8/1/2008
7	CJ5	L284669007	8/1/2008
8	CJ6	L284669008	8/1/2008
9	CJ8	L284669009	8/1/2008
10	EJ5	L284669010	8/1/2008
11	EJ7	L284669011	8/1/2008
12	EJ7A	L284669012	8/1/2008
13	HJ11	L284669013	8/1/2008
14	HJ7	L284669014	8/1/2008
15	PB01	L284669015	8/1/2008
16	PB01G	L284669016	8/1/2008
17	T01	L284669017	8/1/2008
18	T01G	L284669018	8/1/2008
19	T02	L284669019	8/1/2008
20	T02G	L284669020	8/1/2008
21	T03	L284669021	8/1/2008
22	T03G	L284669022	8/1/2008
23	T04	L284669023	8/1/2008
24	T05	L284669024	8/1/2008
25	T06	L284669025	8/1/2008
26	T07	L284669026	8/1/2008
27	T08	L284669027	8/1/2008
28	T09	L284669028	8/1/2008
29	T10	L284669029	8/1/2008
30	T11	L284669030	8/1/2008
31	T12	L284669031	8/1/2008
32	T13	L284669032	8/1/2008
33	T14	L284669033	8/1/2008
34	T15	L284669034	8/1/2008
35	T16	L284669035	8/1/2008
36	T17	L284669036	8/1/2008
37	T18	L284669037	8/1/2008
38	T19	L284669038	8/1/2008
39	T20	L284669039	8/1/2008
40	T21	L284669040	8/1/2008
41	T22	L284669041	8/1/2008

Project Information:	Builder: SPARKS CONSTRUCTION	Builders FirstSource
	Model: CUSTOM	2525 E. Duval St.
	Builders FirstSource Job #: L284669	Lake City, FL 32055

Builders FirstSource

To whom it may concern,

This letter is intended to address the issue of warning notes on 7' jack trusses. I have reviewed the jack truss and it passes without modification for any jack up to 7' with a total loading not to exceed 55# and a maximum overhang of 2'. Below is a copy of note you will see on the jack. This letter will act as an approval for the truss mentioned above.

*****Design Problems*** Review Required/ Max Deflection In Panel Exceeded: A-B**

Sincerely,

JULIUS LEE LICENSE No. 34869 AUG 04 2007 STATE OF FLORIDA PROFESSIONAL ENGINEER

Julius Lee, P.E.
FL. PE# 34869

Job	Truss	Truss Type	Qty	Ply	SPARKS CONST. - TAYLOR RES.
L284669	CJ1A	JACK	1	1	L284669002

Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Fri Aug 01 12:08:30 2008 Page 1

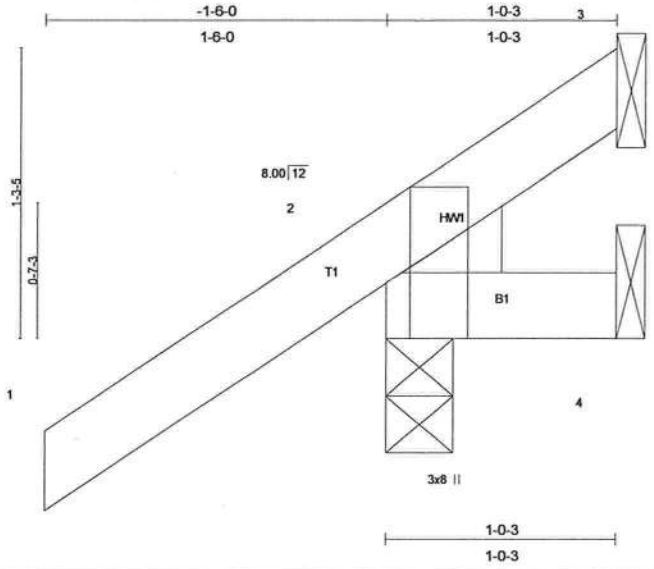


Plate Offsets (X,Y): [2:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.14	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 7 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEDGE
Left: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=179/0-3-8, 4=5/Mechanical, 3=-39/Mechanical
Max Horz 2=90(load case 6)
Max Uplift2=-177(load case 6), 4=-11(load case 4), 3=-39(load case 1)
Max Grav 2=179(load case 1), 4=15(load case 2), 3=45(load case 6)

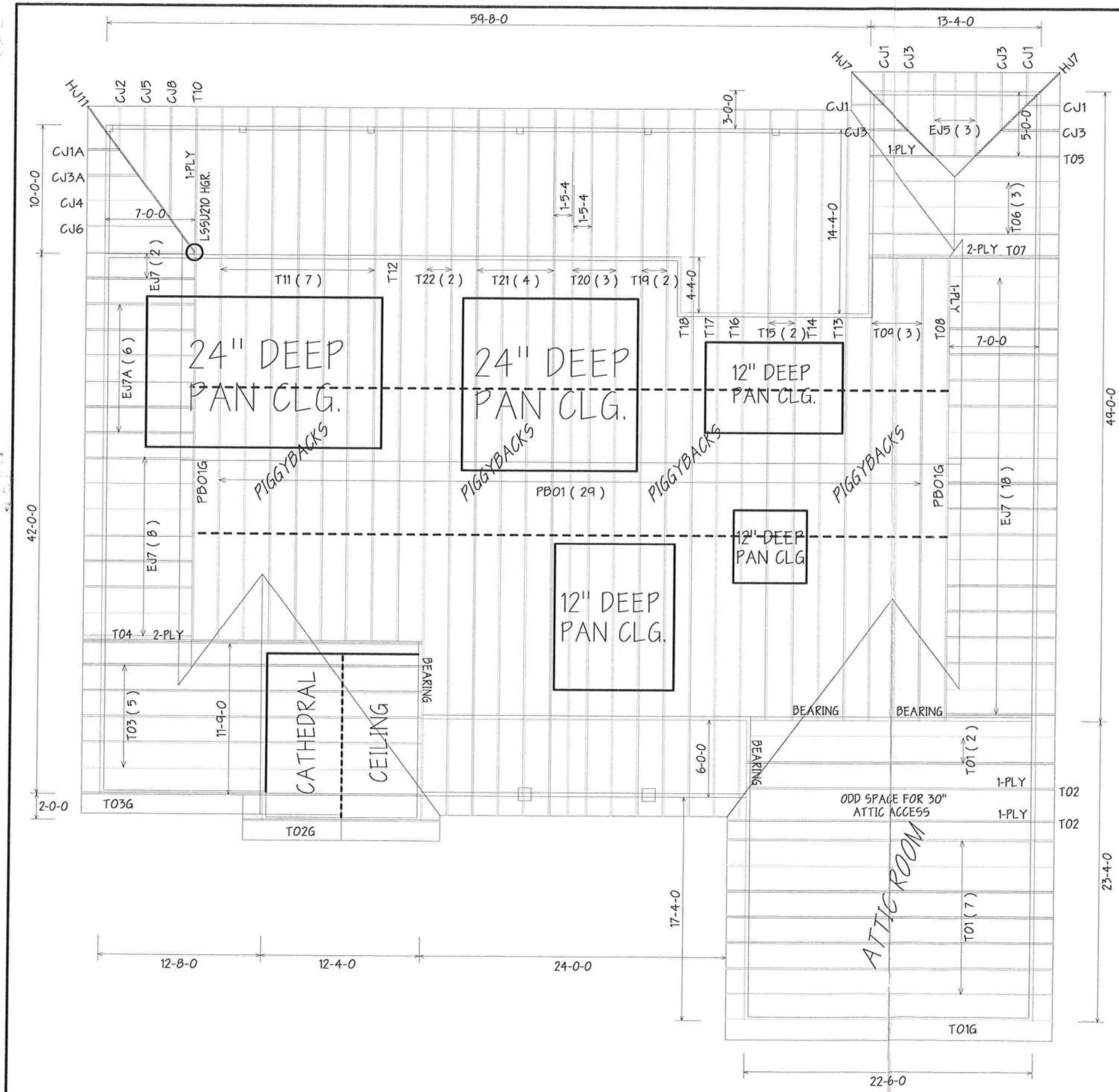
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-63/37
BOT CHORD 2-4=0/0

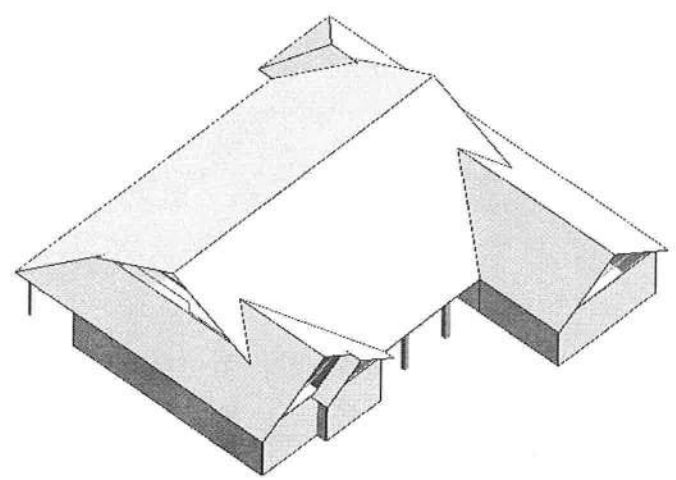
JOINT STRESS INDEX
2 = 0.08 and 2 = 0.00

NOTES (5)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=18ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 2, 11 lb uplift at joint 4 and 39 lb uplift at joint 3.
5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

8/12 PITCH - 1'-6" O/H
6/12 PITCH
(FRONT/REAR ONLY)





BEARING HEIGHT SCHEDULE

10'-1 1/8"

HANGER SCHEDULE
13 - HTU26
1 - LSSU210 (HJ11)

NOTES:

1.) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) ALL ROOF TRUSS HANGERS TO BE SIMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

8.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Requested Delivery Date: _____

Approved by: _____ Date: _____

Builders FirstSource
Bunnell
PHONE: 904-437-3349 FAX: 904-437-3994
Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973
Lake City
PHONE: 386-755-6894 FAX: 386-755-7973
Sanford
PHONE: 407-322-0099 FAX: 407-322-9993

BUILDER: SPARKS CONST.
LEGAL ADDRESS: TAYLOR RES.
MODEL: REVISION:
SCALE: NTS
DATE: 8-1-08
DRAWN BY: K.L.H.
JOB #: L284669