DATE 10/15/2004

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000022389

APPLICANT CARMEN FAVORITO JR PHONE 497-4747

ADDRESS 1162 SW SKYLINE LOOP FORT WHITE FL 32038

OWNER CARMEN FAVORITO JR PHONE 497-4747

ADDRESS 1162 SW SKYLINE LOOP FORT WHITE FL 32038

CONTRACTOR OWNER BUILDER PHONE

LOCATION OF PROPERTY 47 S, L HERLONG ST, TAKE THE 1ST PAVED ROAD TO RIGHT,
FOLLOW TO LOT 51, ON CORNER OF HILLTOP & SKYLINE ON L

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 220500.00

HEATED FLOOR AREA 4410.00 TOTAL AREA 5590.00 HEIGHT 23.00 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 35

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

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

PARCEL ID 11-6S-16-03815-151 SUBDIVISION CARDINAL FARMS

LOT 51 BLOCK PHASE UNIT TOTAL ACRES 10.00

000000422 N
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor

PERMIT 04-0947-N BK JK N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: CAL-TEC TESTING REPORT INCLUDED

Check # or Cash 1003

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power date/app. by Foundation date/app. by Monolithic (footer/Slab) 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 $ 1105.00 CERTIFICATION FEE $ 27.95 SURCHARGE FEE $ 27.95

MISC. FEES $ .00 ZONING CERT. FEE $ 50.00 FIRE FEE $ WASTE FEE $

FLOOD ZONE DEVELOPMENT FEE $ CULVERT FEE $ 25.00 **TOTAL FEE** 1235.90

INSPECTORS OFFICE CLERKS OFFICE MSG

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

04-0947-N

Columbia County Building Permit Application

For Office Use Only Application # 0409-23 Date Received 9/15/04 By G Permit # 422/22389

Application Approved by - Zoning Official RJK Date 24.09.03 Plans Examiner _____ Date _____

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

Comments ~~well letter~~ / EH / ~~Address~~

Applicants Name Carmen P. FAVorito, JR. Phone 386-497-4747

Address 3112 SW Herlong St. Ft. White, FL 32038

Owners Name Carmen P. FAVorito JR & Marilyn Meckstroth Phone 386-497-4747

911 Address 1162 SW Skyline Loop, F.W. 32038

Contractors Name Owner builder Phone _____

Address _____

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address Owner/builder

Architect/Engineer Name & Address RFM Design US Hwy 1 Ft. St. Lucie, FL 772-337-4615

Mortgage Lenders Name & Address Fidelity Federal 205 Datura St. WPB, FL 561-803-9700

PARENT PARCEL- 11-6S-16-03815-001

Property ID Number 11-6S-16-03815-151 (proposed) Estimated Cost of Construction 275,000

Subdivision Name Cardinal Farms Lot 51 Block ____ Unit ____ Phase ____

Driving Directions US 47 South to Herlong St. turn left 1st paved road to turn right. follow to lot 51.

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 10 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 1167 Side 133 Side 242 Rear 498

Total Building Height _____ Number of Stories 1 Heated Floor Area 4410 / 5590 Roof Pitch 6/12

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

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Carmen P. Favorito Jr

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 13 day of Sept 20 04.

Personally known ✓ or Produced Identification _____

_____
Contractor Signature
Contractors License Number _____
Competency Card Number _____

NOTARY STAMP/SEAL

MARILYN MECKSTROTH
MY COMMISSION # DD 160060
EXPIRES: October 22, 2006
Bonded Thru Budget Notary Services

Marilyn Meckstroth
Notary Signature

Cal-Tech Testing, Inc.
• Engineering
• Geotechnical
• Environmental
LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

October 11, 2004

Carmen Favorito
3112 S. W. Hurlong Street
Fort White, Florida 32038

Reference: Proposed Favorito Residence
Lot 51, Cardinal Farms
Columbia County, Florida
Cal-Tech Project No. 04-480

Dear Mr. Favorito,

Cal-Tech Testing, Inc. has completed the subsurface investigation and engineering evaluation of the site for a residence to be constructed at Lot 51 of Cardinal Farms in Columbia County, Florida. Our work was authorized by you.

We understand the residence will be single-story, and support for the residence will be provided by conventional, shallow spread footings. Anticipated foundation loads were not provided; however, we assume column and wall loads will not exceed 20 kips and 2 kips per foot, respectively.

The purposes of our investigation were to evaluate the existing subgrade soils for an allowable bearing pressure of 2,500 pounds per square foot and to provide recommendations as appropriate.

Site Investigation

The site was investigated by performing two (2) Standard Penetration Test borings advanced to depths of 7.0 feet. The borings were performed at the approximate locations indicated on the attached Boring Location Plan. The proposed limits of construction were staked on site, and we used this staked area to locate the borings.

The Standard Penetration Test (ASTM D-1586) is performed by driving a standard split-barrel sampler into the soil by blows from a 140-pound hammer falling 30 inches. The number of blows required to drive the sampler 1 foot, after seating 6 inches, is designated the penetration resistance, or N-value; this value is an index to soil density or consistency.

Findings

The soil borings generally encountered three soil strata. The first layer consists of about 1.0 foot of gray sand with silt and organics (SP/SM, Pt). N-values of this layer were not determined.

The second layer consists of about 1.5 feet of very loose, grayish tan sand (SP). The N-values of this layer are on the order of 3 blows per foot.

The third layer consists of an undetermined thickness of orangish tan or gray, red and orange, clayey sand (SC). These soil range from very loose to medium dense, and N-values range from 3 to 28 blows per foot.

Groundwater was not encountered at the time of our investigation; however, the clayey soils were moist at a depth of about 2.5 feet, and we believe the wet season water table will occur as perched ground water at a depth of about 2 feet.

For a more detailed description of the subsurface conditions encountered, please refer to the attached Boring Logs.

Discussion

We have performed a bearing capacity analysis for the immediate bearing soils and have assumed the foundations will have minimum widths of 18 inches and be embedded a minimum of 14 inches below the existing surface grade. For these foundations and the site soils as encountered, we obtained an allowable bearing capacity of 2,500 pounds per square foot with a factor of safety of about 1.05 against a bearing capacity failure. Based upon this evaluation the subgrade soils within the proposed building area are suitable for shallow foundations and an allowable bearing capacity of 2,500 pounds per square foot; however, the factor of safety is unsuitably low, and we recommend the site be improved before construction. We also recommend the site be re-evaluated following this improvement.

Initially, the organic surface layer should be stripped from the site. Excavation should then be performed as required to establish site grading, and the subgrade should then be thoroughly proof-rolled using heavy, rubber-tired equipment (a large, loaded, front-end loader, for example). All bearing areas should then be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density to a minimum depth of 2 feet below the bottoms of the foundations and 1 foot below the bottoms of floor slabs. This preparation of the bearing soils will increase the factor of safety against foundation failure, reduce settling of the foundations and slabs, and decrease the likelihood of distress in the structure at a later date.

Our evaluation is based upon the subsurface conditions encountered at this site and as presented within this report. However, subsurface conditions may exist that

differ from our findings. We request that we be notified if substantially different subsurface conditions are encountered.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.

Linda Creamer
President / CEO

John C. Dorman, Jr., Ph.D., P.E.
Geotechnical Engineer 10/11/04
52612

B-1

Water Table: N/A

Depth (ft)	N-value	Soil Description
0		Gray SAND with SILT and Organics (SP/SM)
	3	Very Loose, Grayish Tan SAND (SP)
	3	Very Loose, Orangish Tan, CLAYEY SAND (SC)
5	10	Loose to Medium Dense, Gray,
	28	Orange and Red, CLAYEY SAND (SC)

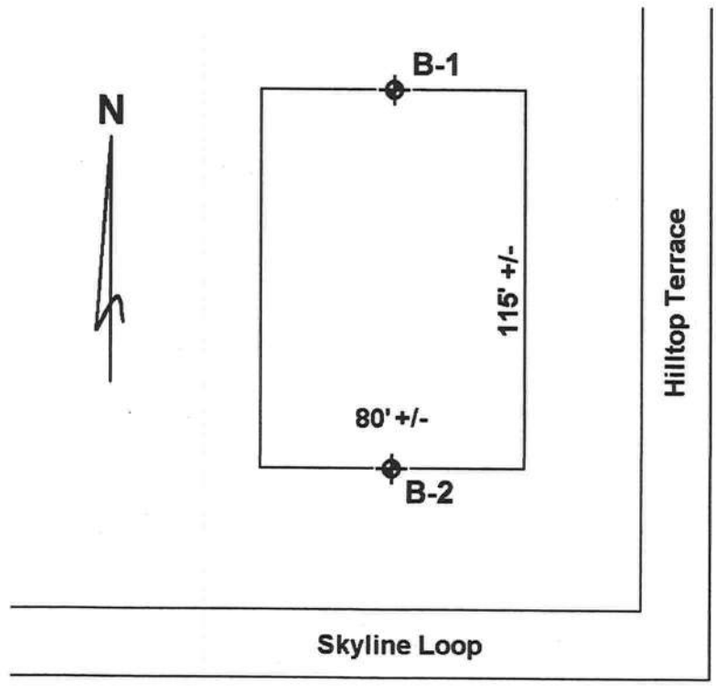
Wet Season Water Table: 2.0 ft.

B-2

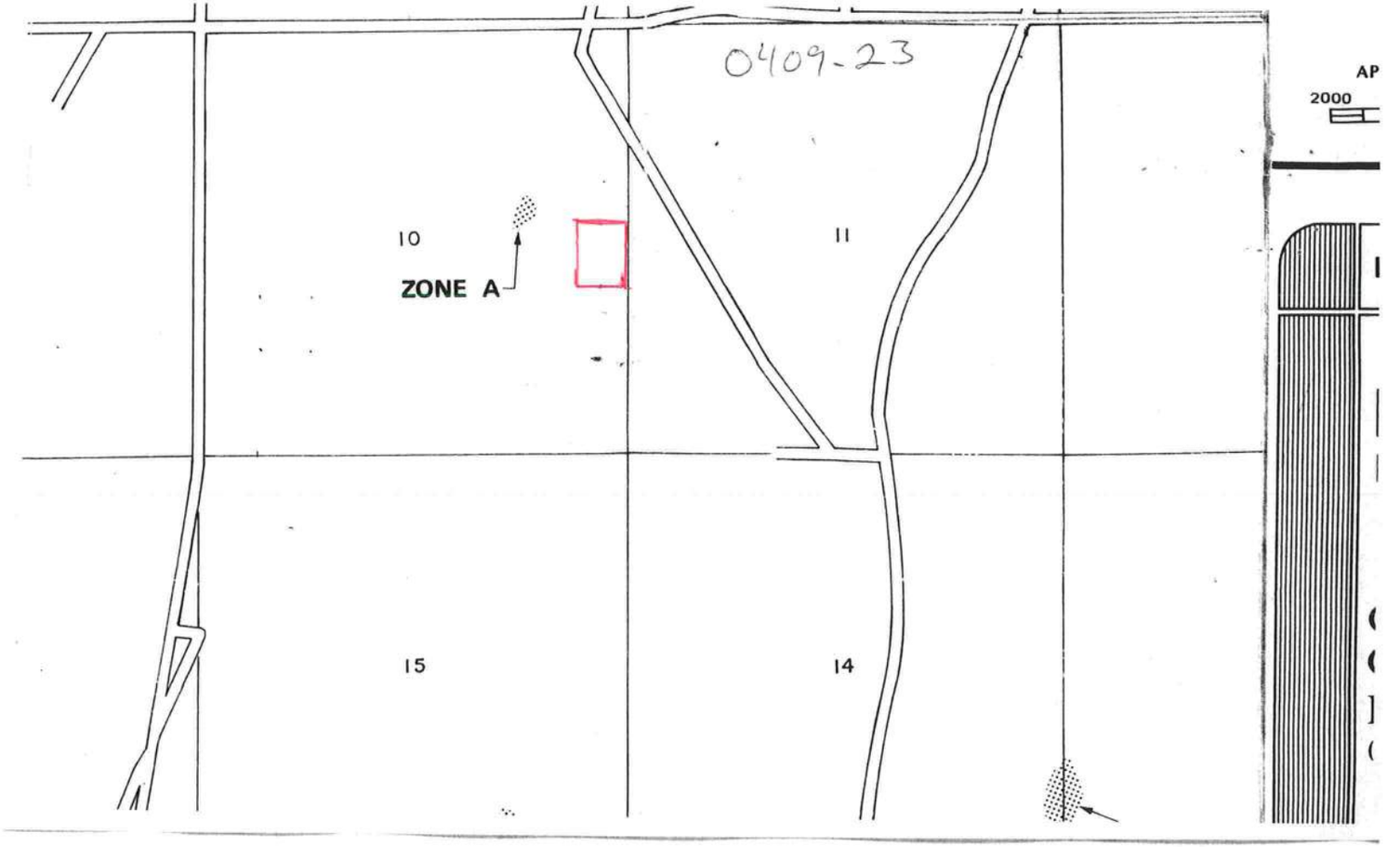
Water Table: N/A

Depth (ft)	N-value	Soil Description
0		Gray SAND with SILT and Organics (SP/SM)
	3	Very Loose, Grayish Tan SAND (SP)
	6	Loose to Medium Dense, Orangish Tan, CLAYEY SAND (SC)
5	15	
	23	Medium Dense, Gray, Red and Orange, CLAYEY SAND (SC)

Wet Season Water Table: 2.0 ft.

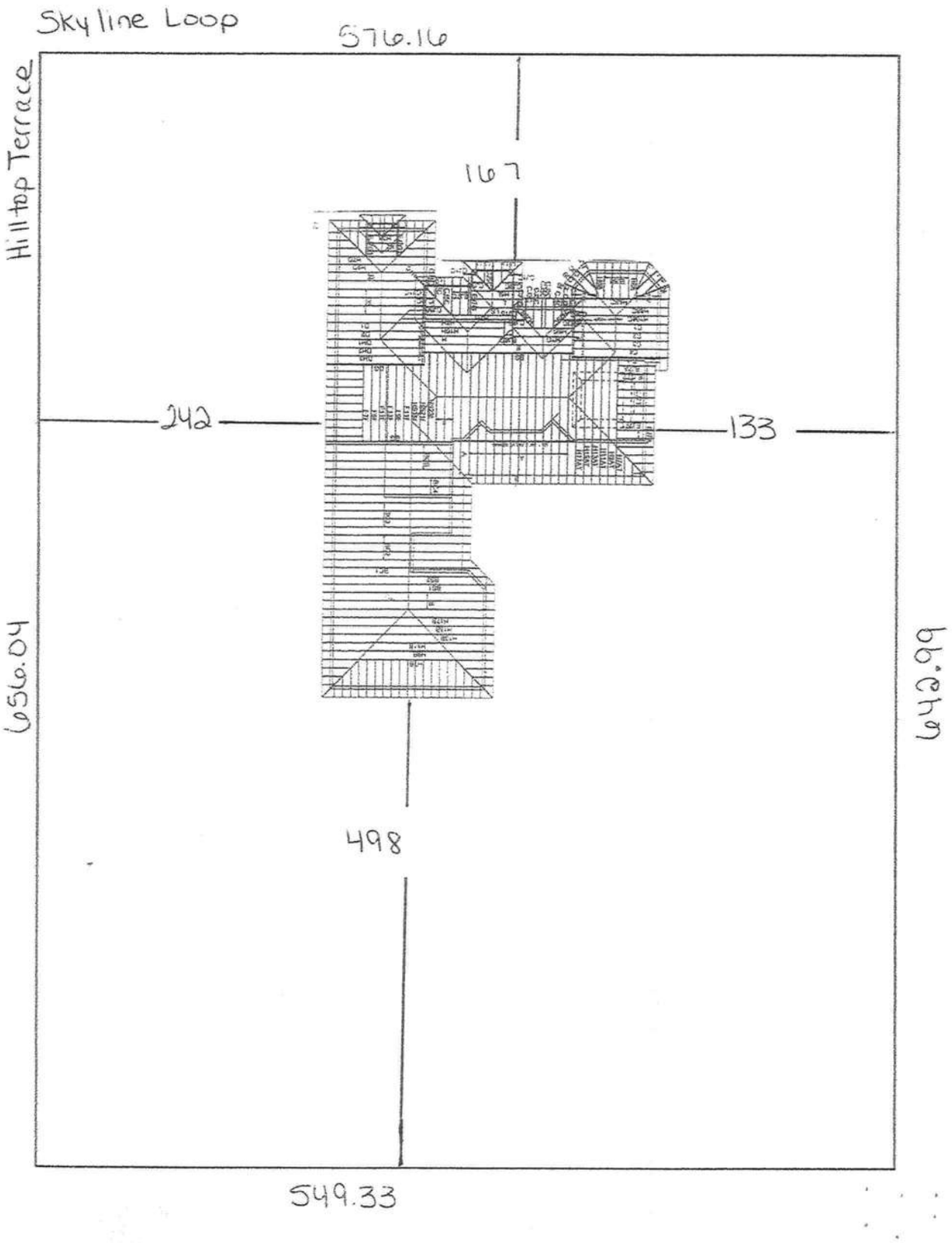


Boring Logs and Location Plan: Lot 51, Cardinal Farms
Favorito Residence
Columbia County, Florida



Cardinal Farms
Lots
standing
water

22
21
65
66
64


Skyline Loop
576.16
Hilltop Terrace
167
242
133
656.04
642.99
498
549.33

This Instrument Prepared by & return to:
Name: ***Joyce Kirpach, an employee of TITLE OFFICES, LLC***
Address: ***1089 SW MAIN BLVD. LAKE CITY, FLORIDA 32025***
04Y-07108
Parcel I.D. #: ***03811-000***

SPACE ABOVE THIS LINE FOR PROCESSING DATA | *SPACE ABOVE THIS LINE FOR RECORDING DATA*

THIS WARRANTY DEED *Made the **3rd** day of **August**, A.D. **2004**, by*

***SUBRANDY LIMITED PARTNERSHIP**, having its principal place of business at*

***P.O. BOX 513, LAKE CITY, FLORIDA 32056**, hereinafter called the grantor, to*

***CARMEN P. FAVORITO, A SINGLE MAN** and **MARILYN M. MECKSTROTH, A SINGLE WOMAN, AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP** whose post office address is*

***3112 SW HERLONG ROAD, FORT WHITE, FLORIDA 32038**, hereinafter called the grantees:*

(Wherever used herein the terms "grantor" and "grantees" include all the parties to this instrument, singular and plural, the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

***Witnesseth:** That the grantor, for and in consideration of the sum of $10.00 and other valuable consideration, receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the grantees all that certain land situate in **Columbia County, State of FLORIDA**, viz:*

Lot 51, Cardinal Farms, Unrecorded

A parcel of land in Section 10, Township 6 South, Range 16 East, Columbia County, Florida, being more particularly described as follows:

COMMENCE at the Southeast corner of Section 11, Township 6 South, Range 16 East, Columbia County, Florida and run thence South 88°19'59" West along the South line of said Section 11 a distance of 5311.34 feet to the Southwest corner of Section 11; thence North 01°22'42" West along the West line of Section 11, being also the East line of Section 10 a distance of 1995.16 feet; thence South 88°38'56" West a distance of 60.18 feet to the POINT OF BEGINNING; thence continue South 88°38'56" West a distance of 549.33 feet; thence North 01°21'04" West a distance of 656.04 feet to a point on the South line of the Northeast ¼ of Section 10; thence continue North 01°21'04" West a distance of 108.05 feet; thence North 87°03'34" East a distance of 576.16 feet; thence South 01°21'04" East a distance of 115.62 feet to a point on the North line of the Southeast ¼; thence continue South 01°21'04" East a distance of 22.02 feet; thence South 01°01'15" West a distance of 642.99 feet to the POINT OF BEGINNING.

SUBJECT TO: An Easement for ingress and egress across the Easterly 30.00 feet and the Southerly 30.00 feet thereof.

Subject to declaration of covenants, conditions and restrictions as recorded in Official Records Book 1012 Page 905, but omitting any covenant or restrictions as to race, color, religion, sex, handicap, familial status or national origin.

Easement, recorded in Official Records Book 836, Page 1284, of the Public Records of Columbia County, Florida.

Restrictions or reservations affecting rights in Oil, Gas or any other Minerals, lying upon or beneath the lands insured hereby, pursuant to that instrument recorded in Official Records Book 220, at Page 318, rerecorded in Official Records Book 610, Page 785, of the Public Records of Columbia County, Florida. [No

SUBJECT TO: An Easement for ingress and egress across the Easterly 30.00 feet and the Southerly 30.00 feet thereof.

Subject to declaration of covenants, conditions and restrictions as recorded in Official Records Book 1012 Page 905, but omitting any covenant or restrictions as to race, color, religion, sex, handicap, familial status or national origin.

Easement, recorded in Official Records Book 836, Page 1284, of the Public Records of Columbia County, Florida.

Restrictions or reservations affecting rights in Oil, Gas or any other Minerals, lying upon or beneath the lands insured hereby, pursuant to that instrument recorded in Official Records Book 220, at Page 318, rerecorded in Official Records Book 619, Page 785 of the Public Records of Columbia County, Florida. [No determination has been made as to the current record owner of the oil, gas and mineral interests excepted herein.]

Subject to easement for utilities.

Subject to road right-of-way in favor of Columbia County, Florida.

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

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

***And** the grantor hereby covenants with said grantees that it is lawfully seized of said land in fee simple; that it has good right and lawful authority to sell and convey said land, and 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, 2003.*

DISCLOSURE STATEMENT

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

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

(✓) Single Family Dwelling
( ) Two-Family Residence
( ) Farm Outbuilding
( ) Other_____
( ) New Construction
( ) Addition, Alteration, Modification or other Improvement

NEW CONSTRUCTION OR IMPROVEMENT

I Carmen P. Favorito, JR. , have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number 22389

Carmen Favorito Jr 8-25-04

Signature Date

FOR BUILDING USE ONLY

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

Date 10-15-04 Building Official/Representative

TICOR TITLE

COMMITMENT OF TITLE INSURANCE

SCHEDULE A
(*continued*)

File No. **04Y-07108**

LEGAL DESCRIPTION

Lot 51, Cardinal Farms, Unrecorded

A parcel of land in Section 10, Township 6 South, Range 16 East, Columbia County, Florida, being more particularly described as follows:

COMMENCE at the Southeast corner of Section 11, Township 6 South, Range 16 East, Columbia County, Florida and run thence South 88°19'59" West along the South line of said Section 11 a distance of 5311.34 feet to the Southwest corner of Section 11; thence North 01°22'42" West along the West line of Section 11, being also the East line of Section 10 a distance of 1995.16 feet; thence South 88°38'56" West a distance of 60.18 feet to the POINT OF BEGINNING; thence continue South 88°38'56" West a distance of 549.33 feet; thence North 01°21'04" West a distance of 656.04 feet to a point on the South line of the Northeast ¼ of Section 10; thence continue North 01°21'04" West a distance of 108.05 feet; thence North 87°03'34" East a distance of 576.16 feet; thence South 01°21'04" East a distance of 115.62 feet to a point on the North line of the Southeast ¼; thence continue South 01°21'04" East a distance of 22.02 feet; thence South 01°01'15" West a distance of 642.99 feet to the POINT OF BEGINNING.

SUBJECT TO: An Easement for ingress and egress across the Easterly 30.00 feet and the Southerly 30.00 feet thereof.

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000000422

DATE 10/15/2004 PARCEL ID # 11-6S-16-03815-151

APPLICANT CARMEN FAVORITO, JR PHONE 497-4747

ADDRESS 3112 HERLOGST FT. WHITE FL 32038

OWNER CARMEN FAVORITO & MARILYN MECKSTROTH PHONE 497-4747

ADDRESS 1162 SW SKYLINE LOOP FT. WHITE FL 32038

CONTRACTOR OWNER BUILDER PHONE

LOCATION OF PROPERTY 47S, TL ON HERLONG ST, TR ON SKYLINE LOOP, TO LOT 51

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CARDINAL FARMS 51

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**FAVOR RESIDENCE**	Builder:	**OWNER**
Address:	_____	Permitting Office:	Columbia County
City, State:	_____, **FL**	Permit Number:	22389
Owner:	**FAVORITO**	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		5	__
5. Is this a worst case?		Yes	__
6. Conditioned floor area (ft²)		4410 ft²	
7. Glass area & type	Single Pane	Double Pane	__
a. Clear glass, default U-factor	16.0 ft²	0.0 ft²	__
b. Default tint	652.8 ft²	0.0 ft²	__
c. Labeled U or SHGC	0.0 ft²	0.0 ft²	
8. Floor types			__
a. Slab-On-Grade Edge Insulation		R=1.0, 384.0(p) ft	__
b. N/A			__
c. N/A			
9. Wall types			__
a. Frame, Wood, Exterior		R=11.0, 258.0 ft²	__
b. Concrete, Int Insul, Exterior		R=7.0, 2742.0 ft²	__
c. N/A			__
d. N/A			__
e. N/A			
10. Ceiling types (IRCC)			__
a. Under Attic		R=33.0, 4409.9 ft²	__
b. N/A			__
c. N/A			
11. Ducts(IRCC)			__
a. Sup: Unc. Ret: Unc. AH: Garage		Sup. R=6.0, 100.0 ft	__
b. Sup: Unc. Ret: Unc. AH: Garage		Sup. R=6.0, 30.0 ft	

12. Cooling systems		
a. Central Unit	Cap: 61.5 kBtu/hr	__
	SEER: 12.85	__
b. Central Unit	Cap: 30.0 kBtu/hr	__
	SEER: 12.50	__
c. N/A		__
		__
13. Heating systems		
a. Electric Heat Pump	Cap: 74.0 kBtu/hr	__
	HSPF: 7.00	__
b. Electric Heat Pump	Cap: 30.0 kBtu/hr	__
	HSPF: 7.00	__
c. N/A		__
		__
14. Hot water systems		
a. Electric Resistance	Cap: 60.0 gallons	__
	EF: 0.97	__
b. Electric Resistance	Cap: 40.0 gallons	__
	EF: 0.97	__
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		__
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT, CF,	__

Glass/Floor Area: 0.15

Total as-built points: 59050
Total base points: 59236

PASS

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

PREPARED BY: Paula Donaldson

DATE: 04/01/04

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

OWNER/AGENT: _____

DATE: _____

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

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.7

The higher the score, the more efficient the home.

FAVORITO, _____, _____, 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	5	__
5.	Is this a worst case?	Yes	__
6.	Conditioned floor area (ft²)	4410 ft²	
7.	Glass area & type	Single Pane / Double Pane	__
a.	Clear - single pane	16.0 ft² / 0.0 ft²	__
b.	Clear - double pane	652.8 ft² / 0.0 ft²	__
c.	Tint/other SHGC - single pane	0.0 ft² / 0.0 ft²	__
d.	Tint/other SHGC - double pane		
8.	Floor types		__
a.	Slab-On-Grade Edge Insulation	R=1.0, 384.0(p) ft	__
b.	N/A		__
c.	N/A		
9.	Wall types		__
a.	Frame, Wood, Exterior	R=11.0, 258.0 ft²	__
b.	Concrete, Int Insul, Exterior	R=7.0, 2742.0 ft²	__
c.	N/A		__
d.	N/A		__
e.	N/A		
10.	Ceiling types (IRCC)		__
a.	Under Attic	R=33.0, 4409.9 ft²	__
b.	N/A		__
c.	N/A		
11.	Ducts(IRCC)		__
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 100.0 ft	__
b.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 30.0 ft	

12.	Cooling systems		
a.	Central Unit	Cap: 61.5 kBtu/hr	__
		SEER: 12.85	__
b.	Central Unit	Cap: 30.0 kBtu/hr	__
		SEER: 12.50	__
c.	N/A		__
			__
13.	Heating systems		
a.	Electric Heat Pump	Cap: 74.0 kBtu/hr	__
		HSPF: 7.00	__
b.	Electric Heat Pump	Cap: 30.0 kBtu/hr	__
		HSPF: 7.00	__
c.	N/A		__
			__
14.	Hot water systems		
a.	Electric Resistance	Cap: 60.0 gallons	__
		EF: 0.97	__
b.	Electric Resistance	Cap: 40.0 gallons	__
		EF: 0.97	__
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		__
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT, CF,	__

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.*

EnergyGauge® (Version: FLRCSB v3.30)

FORM 600A-2001

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	4410.0	20.04	15907.8	Single, Tint	S	9.0	7.0	30.0	33.55	0.49	490.1	
				Single, Tint	S	15.0	9.0	35.0	33.55	0.46	542.6	
				Single, Tint	SE	13.0	7.5	13.8	40.24	0.41	229.3	
				Single, Tint	S	13.0	7.5	33.0	33.55	0.46	507.3	
				Single, Tint	SW	0.0	0.0	13.8	37.77	1.00	521.3	
				Single, Tint	E	2.0	4.0	4.0	39.62	0.73	115.0	
				Single, Clear	NE	2.0	6.0	16.0	33.55	0.87	464.7	
				Single, Tint	N	0.0	0.0	4.0	17.28	1.00	69.1	
				Single, Tint	N	2.0	9.0	63.0	17.28	0.95	1037.1	
				Single, Tint	N	12.0	11.5	57.0	17.28	0.70	694.2	
				Single, Tint	S	13.0	7.0	12.5	33.55	0.45	190.7	
				Single, Tint	SE	13.0	7.0	25.0	40.24	0.41	411.1	
				Single, Tint	N	2.0	9.0	63.0	17.28	0.95	1037.1	
				Single, Tint	W	2.0	6.5	20.3	36.13	0.87	636.4	
				Single, Tint	E	30.0	10.0	64.0	39.62	0.36	904.8	
				Single, Tint	W	2.0	6.5	20.3	36.13	0.87	636.4	
				Single, Tint	W	2.0	5.0	9.0	36.13	0.80	259.9	
				Single, Tint	W	2.0	6.5	20.3	36.13	0.87	636.4	
				Single, Tint	S	0.0	0.0	9.0	33.55	1.00	302.0	
				Single, Tint	W	10.0	7.0	15.0	36.13	0.46	247.6	
				Single, Tint	W	2.0	7.0	15.0	36.13	0.88	478.8	
				Single, Tint	E	2.0	6.5	27.0	39.62	0.87	927.1	
				Single, Tint	NE	2.0	6.5	20.3	27.37	0.88	488.8	
				Single, Tint	N	12.0	9.0	35.0	17.28	0.67	404.6	
				Single, Tint	S	2.0	5.5	10.5	33.55	0.75	264.7	
				Single, Tint	S	2.0	6.5	13.5	33.55	0.80	361.3	
				Single, Tint	S	2.0	4.0	6.0	33.55	0.66	132.8	
				Single, Tint	W	2.0	6.5	13.5	36.13	0.87	423.2	
				As-Built Total:				**668.8**			**13414.7**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	11.0	258.0	1.70	438.6
Exterior	3000.0	1.70	5100.0	Concrete, Int Insul, Exterior	7.0	2742.0	0.70	1919.4
Base Total:	**3000.0**		**5100.0**	**As-Built Total:**		**3000.0**		**2358.0**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Wood	63.0	6.10	384.3
Exterior	63.0	6.10	384.3				
Base Total:	**63.0**		**384.3**	**As-Built Total:**	**63.0**		**384.3**

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: _____, _____, FL, PERMIT #:

BASE				AS-BUILT					
CEILING TYPES	Area X	BSPM =	Points	Type (IRCC)	R-Value	Area X	SPM X SCM =		Points
Under Attic	4409.9	1.73	7629.1	Under Attic	33.0	4409.9	1.65 X 0.84		6182.3
Base Total:	**4409.9**		**7629.1**	**As-Built Total:**		**4409.9**			**6182.3**
FLOOR TYPES	Area X	BSPM =	Points	Type	R-Value	Area X	SPM =		Points
Slab	384.0(p)	-37.0	-14208.0	Slab-On-Grade Edge Insulation	1.0	384.0(p	-39.87		-15308.8
Raised	0.0	0.00	0.0						
Base Total:			**-14208.0**	**As-Built Total:**		**384.0**			**-15308.8**
INFILTRATION	Area X	BSPM =	Points			Area X	SPM =		Points
	4410.0	10.21	45026.1			4410.0	10.21		45026.1
Summer Base Points:			**59839.3**	**Summer As-Built Points:**					**52056.6**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
				52056.6	0.672	(1.071 x 1.147 x 1.00)	0.266	0.902	10303.0
				52056.6	0.328	(1.071 x 1.147 x 1.00)	0.273	0.902	5166.6
59839.3	**0.4266**	**25527.4**		**52056.6**	**1.00**	**1.228**	**0.268**	**0.902**	**15467.0**

FORM 600A-2001

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	4410.0	12.74	10113.0	Single, Tint	S	9.0	7.0	30.0	22.87	3.12	2138.9	
				Single, Tint	S	15.0	9.0	35.0	22.87	3.40	2725.1	
				Single, Tint	SE	13.0	7.5	13.8	24.24	2.41	807.0	
				Single, Tint	S	13.0	7.5	33.0	22.87	3.45	2603.6	
				Single, Tint	SW	0.0	0.0	13.8	26.20	1.00	361.5	
				Single, Tint	E	2.0	4.0	4.0	28.18	1.12	126.2	
				Single, Clear	NE	2.0	6.0	16.0	32.04	1.01	519.0	
				Single, Tint	N	0.0	0.0	4.0	34.06	1.00	136.3	
				Single, Tint	N	2.0	9.0	63.0	34.06	1.00	2149.6	
				Single, Tint	N	12.0	11.5	57.0	34.06	1.02	1978.1	
				Single, Tint	S	13.0	7.0	12.5	22.87	3.48	994.0	
				Single, Tint	SE	13.0	7.0	25.0	24.24	2.44	1480.6	
				Single, Tint	N	2.0	9.0	63.0	34.06	1.00	2149.6	
				Single, Tint	W	2.0	6.5	20.3	30.32	1.04	638.3	
				Single, Tint	E	30.0	10.0	64.0	28.18	1.51	2717.1	
				Single, Tint	W	2.0	6.5	20.3	30.32	1.04	638.3	
				Single, Tint	W	2.0	5.0	9.0	30.32	1.06	289.0	
				Single, Tint	W	2.0	6.5	20.3	30.32	1.04	638.3	
				Single, Tint	S	0.0	0.0	9.0	22.87	1.00	205.8	
				Single, Tint	W	10.0	7.0	15.0	30.32	1.20	545.9	
				Single, Tint	W	2.0	7.0	15.0	30.32	1.03	469.4	
				Single, Tint	E	2.0	6.5	27.0	28.18	1.05	801.2	
				Single, Tint	NE	2.0	6.5	20.3	33.05	1.01	678.2	
				Single, Tint	N	12.0	9.0	35.0	34.06	1.02	1217.9	
				Single, Tint	S	2.0	5.5	10.5	22.87	1.31	314.1	
				Single, Tint	S	2.0	6.5	13.5	22.87	1.22	375.4	
				Single, Tint	S	2.0	4.0	6.0	22.87	1.64	225.0	
				Single, Tint	W	2.0	6.5	13.5	30.32	1.04	424.5	
				As-Built Total:				**668.8**			**28347.8**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	11.0	258.0	3.70	954.6
Exterior	3000.0	3.70	11100.0	Concrete, Int Insul, Exterior	7.0	2742.0	4.60	12613.2
Base Total:	**3000.0**		**11100.0**	**As-Built Total:**		**3000.0**		**13567.8**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Wood	63.0	12.30	774.9
Exterior	63.0	12.30	774.9				
Base Total:	**63.0**		**774.9**	**As-Built Total:**	**63.0**		**774.9**

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: _____, _____, FL, PERMIT #:

BASE				AS-BUILT						
CEILING TYPES	Area X	BWPM	= Points	Type (IRCC)	R-Value	Area X	WPM	X WCM	=	Points
Under Attic	4409.9	2.05	9040.3	Under Attic	33.0	4409.9	1.96	X 0.91		7882.8
Base Total:	**4409.9**		**9040.3**	**As-Built Total:**		**4409.9**				**7882.8**
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM		=	Points
Slab	384.0(p)	8.9	3417.6	Slab-On-Grade Edge Insulation	1.0	384.0(p	15.63			6003.2
Raised	0.0	0.00	0.0							
Base Total:			**3417.6**	**As-Built Total:**		**384.0**				**6003.2**
INFILTRATION	Area X	BWPM	= Points			Area X	WPM		=	Points
	4410.0	-0.59	-2601.9			4410.0	-0.59			-2601.9
Winter Base Points:			**31843.9**	**Winter As-Built Points:**						**53974.6**

Total Winter Points	X System Multiplier	= Heating Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			53974.6	0.712	(1.066 x 1.169 x 1.00)	0.487	0.950	22148.3
			53974.6	0.288	(1.066 x 1.169 x 1.00)	0.487	0.950	8979.0
31843.9	**0.6274**	**19978.9**	**53974.6**	**1.00**	**1.246**	**0.487**	**0.950**	**31127.3**

FORM 600A-2001

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
5		2746.00	13730.0	60.0	0.97	5		0.60	2491.22	1.00	7473.6
				40.0	0.97	5		0.40	2491.22	1.00	4982.4
				As-Built Total:							**12456.1**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
25527	**19979**	**13730**	**59236**	**15467**	**31127**	**12456**	**59050**

PASS

FORM 600A-2001

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 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Favorito Residence
HVAC Load Calculations

for

Favorito

Elite Software

RHVAC RESIDENTIAL HVAC LOADS

Prepared By:
Paulo Goncalves
RFM Design & Associates

Thursday, April 01, 2004

Total Building Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1A-hb-o: Glazing-Single pane, operable window, heat-absorbing, metal frame with break, outdoor insect screen with 50% coverage, light color drapes with medium weave with 50% coverage, external shade screen coefficient of 0.45 and 100% coverage	652.5	28,897	0	26,382	26,382
7A-1: Glazing-Glass or plastic block, smooth or wide ribs or flutes, no screen, no coating, external shade screen coefficient of 0.45 and 100% coverage	16	394	0	848	848
11D: Door-Solid Core	63	1,008	0	714	714
13A-4ocb: Wall-Block, board insulation only, R-4 board insulation, open core, brick finish	2742	16,639	0	6,037	6,037
12B-0sw: Wall-Frame, R-11 insulation in 2 x 4 stud cavity, no board insulation, siding finish, wood studs	258	1,026	0	622	622
16BR-30-ml: Roof/Ceiling-Under attic or knee wall, unvented attic with radiant barrier, R-30 insulation, light metal	4409.9	5,784	0	7,480	7,480
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	384	21,379	0	0	0
Subtotals for structure:		75,127	0	42,083	42,083
People:	8		1,840	2,400	4,240
Equipment:			440	880	1,320
Lighting:	2775			9,463	9,463
Ductwork:		4,935	0	6,074	6,074
Infiltration: Winter CFM: 525, Summer CFM: 300		23,561	10,160	5,910	16,070
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
Total Building Load Totals:		103,623	12,440	66,810	79,250

Check Figures

Total Building Supply CFM:	3,054	CFM Per Square ft.:	1.394
Square ft. of Room Area:	4,410	Square ft. Per Ton:	610
Volume (ft³) of Cond. Space:	45,020	Air Turnover Rate (per hour):	8.6

Building Loads

Total Heating Required With Outside Air:	103,623 Btuh	103.623 MBH	
Total Sensible Gain:	66,810 Btuh	84 %	
Total Latent Gain:	12,440 Btuh	16 %	
Total Cooling Required With Outside Air:	79,250 Btuh	6.60	Tons (Based On Sensible + Latent)
		7.23	Tons (Based On 77% Sensible Capacity)

Notes

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

System 1 (Imported) Summary Loads (Peak Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1A-hb-o: Glazing-Single pane, operable window, heat-absorbing, metal frame with break, outdoor insect screen with 50% coverage, light color drapes with medium weave with 50% coverage, external shade screen coefficient of 0.45 and 100% coverage	496.8	21,999	0	19,351	19,351
7A-1: Glazing-Glass or plastic block, smooth or wide ribs or flutes, no screen, no coating, external shade screen coefficient of 0.45 and 100% coverage	16	394	0	848	848
11D: Door-Solid Core	42	672	0	476	476
13A-4ocb: Wall-Block, board insulation only, R-4 board insulation, open core, brick finish	1771.2	10,749	0	3,796	3,796
12B-0sw: Wall-Frame, R-11 insulation in 2 x 4 stud cavity, no board insulation, siding finish, wood studs	258	1,026	0	622	622
16BR-30-ml: Roof/Ceiling-Under attic or knee wall, unvented attic with radiant barrier, R-30 insulation, light metal	3151.4	4,133	0	5,345	5,345
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	254	14,141	0	0	0
Subtotals for structure:		53,114	0	30,438	30,438
People:	5		1,150	1,500	2,650
Equipment:			220	440	660
Lighting:	1825			6,223	6,223
Ductwork:		3,537	0	4,302	4,302
Infiltration: Winter CFM: 393, Summer CFM: 225		17,632	7,604	4,423	12,027
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
System 1 (Imported) Load Totals:		74,283	8,974	47,326	56,300

Check Figures

Supply CFM:	2,163	CFM Per Square ft.:	0.686
Square ft. of Room Area:	3,152	Square ft. Per Ton:	615
Volume (ft³) of Cond. Space:	33,694	Air Turnover Rate (per hour):	3.9

System Loads

Total Heating Required With Outside Air:	74,283 Btuh	74.283 MBH	
Total Sensible Gain:	47,326 Btuh	84 %	
Total Latent Gain:	8,974 Btuh	16 %	
Total Cooling Required With Outside Air:	56,300 Btuh	4.69	Tons (Based On Sensible + Latent)
		5.12	Tons (Based On 77% Sensible Capacity)

Notes

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

System 2 (Imported) Summary Loads (Peak Method)

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
1A-hb-o: Glazing-Single pane, operable window, heat-absorbing, metal frame with break, outdoor insect screen with 50% coverage, light color drapes with medium weave with 50% coverage, external shade screen coefficient of 0.45 and 100% coverage	155.8	6,898	0	7,031	7,031
11D: Door-Solid Core	21	336	0	238	238
13A-4ocb: Wall-Block, board insulation only, R-4 board insulation, open core, brick finish	970.8	5,890	0	2,241	2,241
16BR-30-ml: Roof/Ceiling-Under attic or knee wall, unvented attic with radiant barrier, R-30 insulation, light metal	1258.5	1,651	0	2,135	2,135
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	130	7,238	0	0	0
Subtotals for structure:		22,013	0	11,645	11,645
People:	3		690	900	1,590
Equipment:			220	440	660
Lighting:	950			3,240	3,240
Ductwork:		1,398	0	1,772	1,772
Infiltration: Winter CFM: 132, Summer CFM: 76		5,929	2,556	1,487	4,043
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
System 2 (Imported) Load Totals:		29,340	3,466	19,484	22,950

Check Figures

Supply CFM:	890	CFM Per Square ft.:	0.708
Square ft. of Room Area:	1,258	Square ft. Per Ton:	597
Volume (ft³) of Cond. Space:	11,326	Air Turnover Rate (per hour):	4.7

System Loads

Total Heating Required With Outside Air:	29,340 Btuh	29.340 MBH	
Total Sensible Gain:	19,484 Btuh	85 %	
Total Latent Gain:	3,466 Btuh	15 %	
Total Cooling Required With Outside Air:	22,950 Btuh	1.91	Tons (Based On Sensible + Latent)
		2.11	Tons (Based On 77% Sensible Capacity)

Notes

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

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 11-6S-16-03815-151 Building permit No. 000022389

Use Classification SFD, UTILITY Fire: 74.34

Permit Holder OWNER BUILDER Waste: 110.25

Owner of Building CARMEN FAVORITO JR Total: 184.59

Location: 1162 SW SKYLINE LOOP(CARDINAL FARMS,LOT 51)

Date: 01/25/2006

COLUMBIA COUNTY GAINESVILLE FLORIDA

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Cal-Tech Testing, Inc.
• Engineering
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LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

22389

October 25, 2004

Carmen Favorito
3112 S. W. Hurlong Street
Fort White, Florida 32038

Reference: Proposed Favorito Residence
Lot 51, Cardinal Farms
Columbia County, Florida
Cal-Tech Project No. 04-480

Dear Mr. Favorito,

Cal-Tech Testing, Inc. has performed a follow-up investigation and evaluation of the site for a proposed residence to be constructed at Lot 51 of Cardinal Farms in Columbia County, Florida. Our work was authorized by you.

The purposes of our investigation were to reevaluate the existing subgrade soils for an allowable bearing pressure of 2,500 pounds per square foot and to provide recommendations as appropriate.

Site Investigation

The building area was investigated by performing one (1) additional Standard Penetration Test boring (B-3) advanced to a depth of 7.0 feet. This boring was performed at the approximate location indicated on the attached Location Plan. The proposed limits of construction were cleared on site, and we used this delineated area to locate the boring.

The Standard Penetration Test (ASTM D-1586) is performed by driving a standard split-barrel sampler into the soil by blows from a 140-pound hammer falling 30 inches. The number of blows required to drive the sampler 1 foot, after seating 6 inches, is designated the penetration resistance, or N-value; this value is an index to soil density or consistency.

Findings

Soil boring B-3 generally encountered three soil strata. The first layer consists of about 2.5 feet of loose, tan and gray sand (SP). The N-values of this layer are on the order of 6 blows per foot.

The second layer consists of about 2.5 feet of loose to medium dense, tan or tan, orange and red, clayey sand (SC). The N-values of this layer range from 8 to 27 blows per foot.

The third layer consists of an undetermined thickness of medium dense to dense, gray, orange and red, clayey sand (SC). The N-values of this layer range from 27 to 39 blows per foot.

Groundwater was not encountered at the time of our investigation. For a more detailed description of the subsurface conditions encountered, please refer to the attached Boring Log. Note that the boring logs from the previous investigation are included with the current boring log for comparison.

Discussion

Based upon our current findings, we have performed a bearing capacity analysis for the immediate bearing soils and have assumed the foundations will have minimum widths of 18 inches and be embedded a minimum of 14 inches below the existing surface grade. For these foundations and the site soils as encountered, we obtained an allowable bearing capacity of 2,500 pounds per square foot with a factor of safety of about 1.3 against a bearing capacity failure. Based upon this evaluation the subgrade soils within the proposed building area are suitable for shallow foundations and an allowable bearing capacity of 2,500 pounds per square foot

Our evaluation is based upon the subsurface conditions encountered at this site and as presented within this report. However, subsurface conditions may exist that differ from our findings. We request that we be notified if substantially different subsurface conditions are encountered.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.

Linda Creamer
President / CEO

John C. Dorman, Jr., Ph.D., P.E.
Geotechnical Engineer 10/25/04
52612

B-1

Water Table: N/A

Depth (ft)	N-value	Soil Description
0		Gray SAND with SILT and Organics (SP/SM)
	3	Very Loose, Grayish Tan SAND (SP)
	3	Very Loose, Orangish Tan, CLAYEY SAND (SC)
5	10	Loose to Medium Dense, Gray,
	28	Orange and Red, CLAYEY SAND (SC)

Wet Season Water Table: 2.0 ft.

B-2

Water Table: N/A

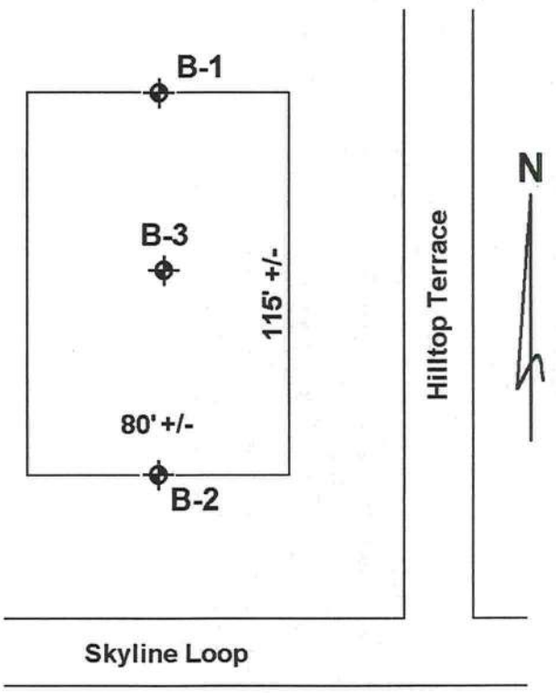
Depth (ft)	N-value	Soil Description
0		Gray SAND with SILT and Organics (SP/SM)
	3	Very Loose, Grayish Tan SAND (SP)
	6	Loose to Medium Dense, Orangish Tan, CLAYEY SAND (SC)
5	15	
	23	Medium Dense, Gray, Red and Orange, CLAYEY SAND (SC)

Wet Season Water Table: 2.0 ft.

B-3

Water Table: N/A

Depth (ft)	N-value	Soil Description
0		Loose, Tan and Gray SAND (SP)
	6	Loose, Tan, CLAYEY SAND (SC)
	8	Loose to Medium Dense, Tan, Orange and Red, CLAYEY SAND (SC)
5	27	
	39	Medium Dense to Dense, Gray, Red and Orange, CLAYEY SAND (SC)



Boring Logs and Location Plan: Lot 51, Cardinal Farms
Favorito Residence
Columbia County, Florida

22389

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

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

Tax Parcel ID Number 11-6S-16-03815-151

1. **Description of property: (legal description of the property and street address or 911 address)**
   Cardinal Farms Lot 51

   Inst:2004026083 Date:11/22/2004 Time:09:23
   DC,P.DeWitt Cason,Columbia County B:1031 P:740

2. **General description of improvement:** single family dwelling
3. **Owner Name & Address** Carmen P. Favorito - 1162 SW Skyline Loop Ft. White, FL 32038
   Interest in Property
4. **Name & Address of Fee Simple Owner (if other than owner):**
5. **Contractor Name** owner-builder **Phone Number** 386-497-4747
   Address 3112 SW Herlong St Ft. White FL 32038
6. **Surety Holders Name** **Phone Number**
   Address
   Amount of Bond
7. **Lender Name** Fidelity Federal **Phone Number** 561-803-9900
   Address Datura St. WPB, FL
8. **Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:**
   Name **Phone Number**
   Address
9. **In addition to himself/herself the owner designates** **of** Fidelity Federal **to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) –**
   (a) 7. Phone Number of the designee
10. **Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording,**
    (Unless a different date is specified)

NOTICE AS PER CHAPTER 713, Florida Statutes:
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Signature of Owner

Sworn to (or affirmed) and subscribed before day of Nov. 22, 20 04

NOTARY STAMP/SEAL

MARILYN MECKSTROTH
MY COMMISSION # DD 15...
EXPIRES: October 22, 2006
Bonded Thru Budget Notary Services

Marilyn Meckstroth
Signature of Notary

Cal-Tech Testing, Inc.
• Engineering
• Geotechnical
• Environmental
[redacted]
P.O. Box 1625 • Lake City, FL 32056-1625
8919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257
Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

#22389

JOB NO.: 04-480
DATE TESTED: 12/08/04
DATE REPORTED: 12/08/04

REPORT OF IN-PLACE DENSITY TEST

PROJECT:	Proposed Favorito Residence, Columbia County, Florida
CLIENT:	Carmen Favorito, 3112 SW Hurlong Street, Ft. White, FL 32038
GENERAL CONTRACTOR:	Carmen Favorito
EARTHWORK CONTRACTOR:	Carmen Favorito
INSPECTOR:	Mike Stalvey

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

SPECIFICATION REQUIREMENTS: 95%

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft³)	MOISTURE PERCENT	DRY DENSITY (lb/ft³)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1	SW Area of Pad	0-6"	117.1	8.0	108.4	1	106.5	101.8%
2	East Side of Pad	0-6"	111.0	7.6	103.2	1	106.5	96.9%

REMARKS: The Above Tests Meet Specification Requirements.

PROCTORS

PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft³)	OPT. MOIST.	TYPE
1	Gray Sand with Silt	106.5	11.2	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Linda Creamer

Linda M. Creamer
President - CEO

Reviewed By:

Date: 12/8/04
Florida Registration No: 52612

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.

Cardinal farms Lot 51

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October 11, 2004

Carmen Favorito
3112 S. W. Hurlong Street
Fort White, Florida 32038

Reference: Proposed Favorito Residence
Lot 51, Cardinal Farms
Columbia County, Florida
Cal-Tech Project No. 04-480

Dear Mr. Favorito,

Cal-Tech Testing, Inc. has completed the subsurface investigation and engineering evaluation of the site for a residence to be constructed at Lot 51 of Cardinal Farms in Columbia County, Florida. Our work was authorized by you.

We understand the residence will be single-story, and support for the residence will be provided by conventional, shallow spread footings. Anticipated foundation loads were not provided; however, we assume column and wall loads will not exceed 20 kips and 2 kips per foot, respectively.

The purposes of our investigation were to evaluate the existing subgrade soils for an allowable bearing pressure of 2,500 pounds per square foot and to provide recommendations as appropriate.

Site Investigation

The site was investigated by performing two (2) Standard Penetration Test borings advanced to depths of 7.0 feet. The borings were performed at the approximate locations indicated on the attached Boring Location Plan. The proposed limits of construction were staked on site, and we used this staked area to locate the borings.

The Standard Penetration Test (ASTM D-1586) is performed by driving a standard split-barrel sampler into the soil by blows from a 140-pound hammer falling 30 inches. The number of blows required to drive the sampler 1 foot, after seating 6 inches, is designated the penetration resistance, or N-value; this value is an index to soil density or consistency.

Findings

The soil borings generally encountered three soil strata. The first layer consists of about 1.0 foot of gray sand with silt and organics (SP/SM, Pt). N-values of this layer were not determined.

The second layer consists of about 1.5 feet of very loose, grayish tan sand (SP). The N-values of this layer are on the order of 3 blows per foot.

The third layer consists of an undetermined thickness of orangish tan or gray, red and orange, clayey sand (SC). These soil range from very loose to medium dense, and N-values range from 3 to 28 blows per foot.

Groundwater was not encountered at the time of our investigation; however, the clayey soils were moist at a depth of about 2.5 feet, and we believe the wet season water table will occur as perched ground water at a depth of about 2 feet.

For a more detailed description of the subsurface conditions encountered, please refer to the attached Boring Logs.

Discussion

We have performed a bearing capacity analysis for the immediate bearing soils and have assumed the foundations will have minimum widths of 18 inches and be embedded a minimum of 14 inches below the existing surface grade. For these foundations and the site soils as encountered, we obtained an allowable bearing capacity of 2,500 pounds per square foot with a factor of safety of about 1.05 against a bearing capacity failure. Based upon this evaluation the subgrade soils within the proposed building area are suitable for shallow foundations and an allowable bearing capacity of 2,500 pounds per square foot; however, the factor of safety is unsuitably low, and we recommend the site be improved before construction. We also recommend the site be re-evaluated following this improvement.

Initially, the organic surface layer should be stripped from the site. Excavation should then be performed as required to establish site grading, and the subgrade should then be thoroughly proof-rolled using heavy, rubber-tired equipment (a large, loaded, front-end loader, for example). All bearing areas should then be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density to a minimum depth of 2 feet below the bottoms of the foundations and 1 foot below the bottoms of floor slabs. This preparation of the bearing soils will increase the factor of safety against foundation failure, reduce settling of the foundations and slabs, and decrease the likelihood of distress in the structure at a later date.

Our evaluation is based upon the subsurface conditions encountered at this site and as presented within this report. However, subsurface conditions may exist that

differ from our findings. We request that we be notified if substantially different subsurface conditions are encountered.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.

Linda Creamer
President / CEO

John C. Dorman, Jr., Ph.D., P.E.
Geotechnical Engineer 10/11/04
52612

B-1

Water Table: N/A

Depth (ft)	N-value	Soil Description
0		Gray SAND with SILT and Organics (SP/SM)
3	3	Very Loose, Grayish Tan SAND (SP)
5	3	Very Loose, Orangish Tan, CLAYEY SAND (SC)
10	28	Loose to Medium Dense, Gray, Orange and Red, CLAYEY SAND (SC)

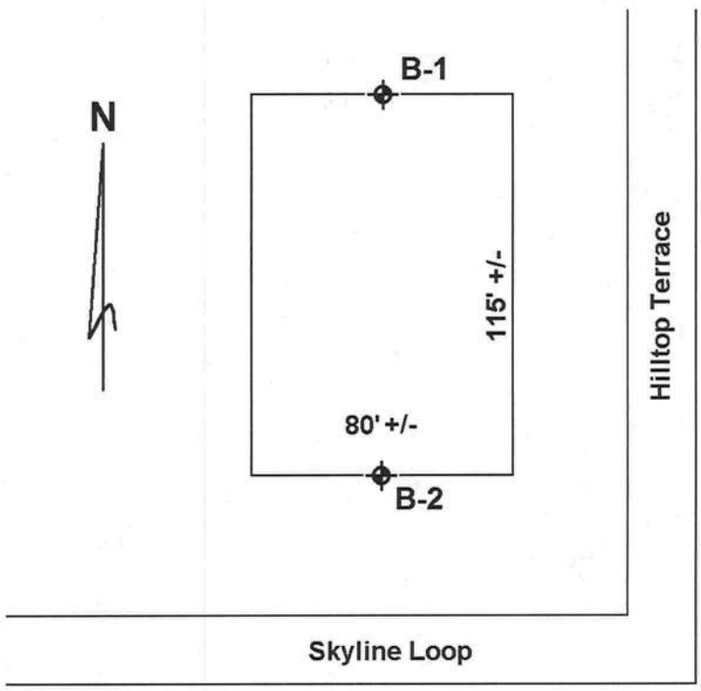
Wet Season Water Table: 2.0 ft.

B-2

Water Table: N/A

Depth (ft)	N-value	Soil Description
0		Gray SAND with SILT and Organics (SP/SM)
3	3	Very Loose, Grayish Tan SAND (SP)
5	6	Loose to Medium Dense, Orangish Tan, CLAYEY SAND (SC)
15	23	Medium Dense, Gray, Red and Orange, CLAYEY SAND (SC)

Wet Season Water Table: 2.0 ft.



Boring Logs and Location Plan: Lot 51, Cardinal Farms
Favorito Residence
Columbia County, Florida