DATE 10/16/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000027427

APPLICANT KELLY STONE PHONE 352-463-3939

ADDRESS 222 W WADE STREET TRENTON FL 32693

OWNER COLUMBIA COUNTY FIRE STATION PHONE 758-1005

ADDRESS 370 SE RACE TRACK LN LAKE CITY FL 32025

CONTRACTOR MATTHEW GRAY PHONE 352-463-3939

LOCATION OF PROPERTY 441 S, L 133-B (RACE TRACK LN), APPROX. .5 MILES ON RIGHT
ADJACENT TO RACE TRACK

TYPE DEVELOPMENT FIRE STATION ESTIMATED COST OF CONSTRUCTION 0.00

HEATED FLOOR AREA _____ TOTAL AREA _____ HEIGHT 25.00 STORIES 1

FOUNDATION CONCRETE WALLS _____ ROOF PITCH _____ 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 X DEVELOPMENT PERMIT NO. _____

PARCEL ID 21-4S-17-08638-005 SUBDIVISION _____

LOT _____ BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES 5.00

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		CGC062854	Kelly Stone

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
EXISTING	08-0643	CS	RJ	N

COMMENTS: EXEMPT NOC, SPECIAL EXCEPTION APPROVED #476 (12-13-07)

Check # or Cash NO CHARGE

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 $ 0.00 CERTIFICATION FEE $ 0.00 SURCHARGE FEE $ 0.00

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

FLOOD DEVELOPMENT FEE $ _____ FLOOD ZONE FEE $ _____ CULVERT FEE $ _____ **TOTAL FEE** 0.00

INSPECTORS OFFICE _____ CLERKS OFFICE CH

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

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

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.

Columbia County Building Permit Application

For Office Use Only Application # 0810-29 Date Received 10/14/08 By LH Permit # 27427

Zoning Official [signature] Date 10/15/08 Flood Zone X Land Use A-3 Zoning A-3

FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner [signature] Date 10/15/08

Comments Special Except - apvd. # 476 12-13-07

EXEMPT NOC ☐ EH ✓ Deed or PA ✓ Site Plan NA State Road Info ☐ Parent Parcel # _____

☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter

IMPACT FEES: EMS _____ Fire _____ Corr _____ Road/Code _____

School _____ = TOTAL EXEMPT Gov.

Septic Permit No. 08-0643 352-354-5482 Fax 352-463-8098

Name Authorized Person Signing Permit GRAY CONSTRUCTION SERVICES, INC. KELLY STONE OR ~~GENE DENNIS~~ Phone 352-463-3939

Address 222 WEST WADE STREET, TRENTON, FL. 32693

Owners Name COLUMBIA COUNTY / DALE WILLIAMS Phone 386-758-1005

911 Address 370 S.E. RACE TRACK LANE, LAKE CITY, FL. 32025

Contractors Name MATHEW T. GRAY Phone 352-463-3939

Address 222 WEST WADE STREET, TRENTON, FL. 32693

Fee Simple Owner Name & Address COLUMBIA COUNTY

Bonding Co. Name & Address FIDELITY AND DEPOSIT COMPANY OF MARYLAND
1400 AMERICAN LANE, TOWER 1 - SCHAUMBURG, IL. 60196

Architect/Engineer Name & Address CRAIG SALLEY & ASSOCIATES - 3911 NEWBERRY ROAD, SUITE D - GAINESVILLE, FL. 32607

Mortgage Lenders Name & Address N/A

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

Property ID Number 21-4S-17-08638-005 03 Estimated Cost of Construction $931,877.00

Subdivision Name N/A Lot ____ Block ____ Unit ____ Phase ____

Driving Directions GO SOUTH ON 41/441 TO CR133B (SE RACE TRACK LANE) TURN LEFT - GO ABOUT ½ MILE - THE NEW FIRESTATION WILL BE ON THE RIGHT SIDE OF THE HWY ADJACENT TO THE NORTH FLORIDA

Number of Existing Dwellings on Property 0

Construction of NEW FIRESTATION Total Acreage 5 Lot Size 471' x 459'

Do you need a ~~Culvert Permit~~ or Culvert Waiver or Have an Existing Drive Total Building Height 25'

Actual Distance of Structure from Property Lines - Front 125 Side 35' Side 264' Rear 256'

Number of Stories 1 Heated Floor Area 3546 SF Total Floor Area 10825 SF Roof Pitch 12/3

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.

Columbia County Building Permit Application

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

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

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

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

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

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

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.

X _____

Owners Signature

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 CGC 062854
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 14 **day of** Oct **20**08

Personally known X **or Produced Identification** _____

Dara Stemple

State of Florida Notary Signature (For the Contractor)

SEAL:

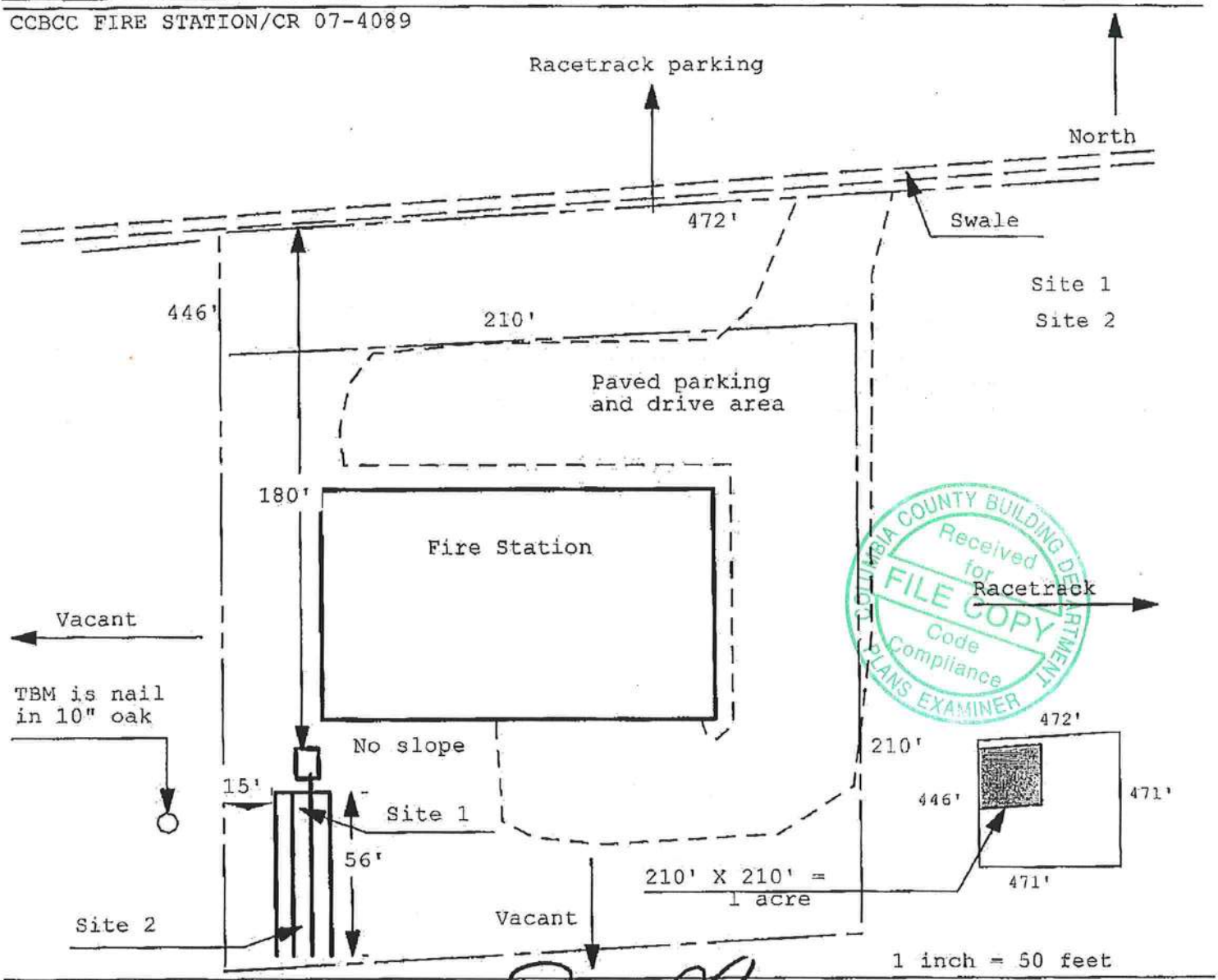
NOTARY PUBLIC-STATE OF FLORIDA
Dara E. Stemple
Commission # DD805809
Expires: APR. 27, 2012
BONDED THRU ATLANTIC BONDING CO., INC.

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

Permit Application Number: 08-0443

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

CCBCC FIRE STATION/CR 07-4089



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

Site Plan Submitted By Paul Lloyd **Date** 2/20/08

Plan Approved ✓ **Not Approved** ____ **Date** 10-6-08

By [signature] Columbia **CPHU**

Notes: _____

08-0643

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT # 896633
DATE PAID 9/23/08
FEE PAID $ -0-
RECEIPT # —
CR # 07-4089

APPLICATION FOR:
[ ] New System [ ] Existing System [ ] Holding Tank [ ] Temporary/Experimental System
[ ] Repair [ ] Abandonment [X] Other (Specify) RESITE

APPLICANT: CCBCC FIRE STATION TELEPHONE: 386-362-3678

AGENT: GTC DESIGN GROUP

MAILING ADDRESS: P O BOX 187 CITY: LIVE OAK STATE: FL ZIP: 32064

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. ATTACH BUILDING PLAN AND TO-SCALE SITE PLAN SHOWING PERTINENT FEATURES REQUIRED BY CHAPTER 10D-6, FLORIDA ADMINISTRATIVE CODE.

PROPERTY INFORMATION [IF LOT IS NOT IN A RECORDED SUBDIVISION, ATTACH LEGAL DESCRIPTION OR DEED]

LOT: N/A BLOCK: N/A SUBDIVISION: MEETS & BOUNDS DATESUBD: N/A

PROPERTY ID #: 21-4S-17-08638-005.03 [Section/Township/Range/Parcel] ZONING: AG

PROPERTY SIZE: 4.9 ACRES [Sqft/43560] PROPERTY WATER SUPPLY: [ ] PRIVATE [X] PUBLIC

PROPERTY STREET ADDRESS: SE COUNTY ROAD 133-B

DIRECTIONS TO PROPERTY: HIGHWAY 41 SOUTH, TL ON COUNTY ROAD 133-B, ON RIGHT JUST BEFORE RACE TRACK

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	# Persons Served	Business Activity For Commercial Only
1	FIRE STATION	6	10300	6	Public Institution (Non-hospital) per person 100 GPD
2					= 600 GPD
3					
4					

[N] Garbage Grinders/Disposals [N] Spas/Hot Tubs [N] Floor/Equipment Drains
[N] Ultra-low Volume Flush Toilets [N] Other (Specify)

APPLICANT'S SIGNATURE: [signature] DATE: 9-23-08

Columbia County Property Appraiser

DB Last Updated: 8/5/2008

2008 Proposed Values

Tax Record | Property Card | Interactive GIS Map | Print

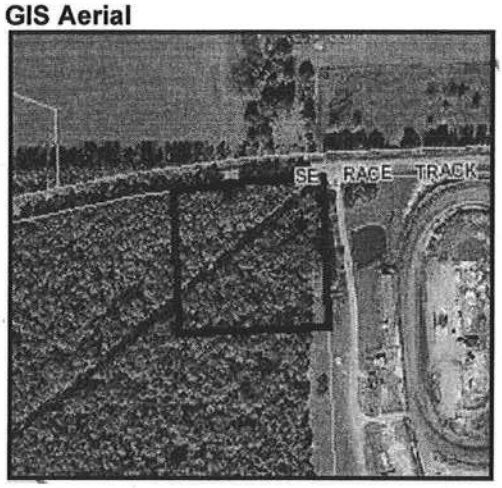
Parcel: 21-4S-17-08638-005 03

Search Result: 1 of 1

Owner & Property Info

Owner's Name	COLUMBIA COUNTY		
Site Address			
Mailing Address	P O BOX 1529 LAKE CITY, FL 320561529		
Use Desc. (code)	COUNTY (008600)		
Neighborhood	21417.00	**Tax District**	2
UD Codes	MKTA02	**Market Area**	02
Total Land Area	5.000 ACRES		
Description	BEG AT NW COR OF NE1/4 OF SW 1/4, RUN S 471.59 FT, W 471.59 FT, N 446.08 FT TO S R/W OF C R 133-B, E ALONG R/W 472.42 FT TO POB ORB 1122-1183		

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (1)	$49,988.00	**Just Value**		$49,988.00
Ag Land Value	cnt: (0)	$0.00	**Class Value**		$0.00
Building Value	cnt: (0)	$0.00	**Assessed Value**		$49,988.00
XFOB Value	cnt: (0)	$0.00	**Exempt Value**	(code: 03)	$49,988.00
Total Appraised Value		$49,988.00	**Total Taxable Value**		$0.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
6/19/2007	1122/1182	WD	V	U		$100,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
008300	SCHOOL (MKT)	5.000 AC	1.00/1.00/1.00/1.00	$9,997.64	$49,988.00

Columbia County Property Appraiser DB Last Updated: 8/5/2008

1 of 1

DESCRIPTION:

BEGIN at the Northeast corner of the Northeast 1/4 of the Southwest 1/4 of Section 21, Township 4 South, Range 17 East, Columbia County, Florida and run South 01°56'10" East along the East line of said Northeast 1/4 of the Southwest 1/4 of Section 21 a distance of 471.59 feet; thence South 88°03'50" West a distance of 471.59 feet; thence North 01°56'10" West along a line parallel to the East line of the Northeast 1/4 of the Southwest 1/4 of Section 21 a distance of 446.08 feet to a point on a curve concave to the South having a radius of 5689.58 feet and a central angle of 04°45'27"; thence Easterly along the arc of said curve, being also the Southerly Right-of-Way line of SE Race Track Lane (County Road 133-B)(formerly State Road 133-B), a distance of 472.42 feet to the POINT OF BEGINNING. Containing 5.00 acres, more or less.

EXHIBIT "A"

DRIVING DIRECTIONS

FROM: COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE HERNANDO AVENUE
LAKE CITY, FL. 32055

TO: LAKE CITY FIRESTATION
370 SE RACETRACK LANE
LAKE CITY, FL. 32025

GO SOUTH ON 41/441 TO CR133B (SE RACETRACK LANE) TURN LEFT GO ABOUT ½ MILE THE FIRESTATION WILL BE ON THE RIGHT ADJACENT TO THE NORTH FLORIDA SPEEDWAY ON THE WEST SIDE.

FOR ADDITIONAL INFORMATION PLEASE CONTACT KELLY STONE WITH GRAY CONSTRUCTION SERVICES AT C:352-354-5482 OF O: 352-463-3939.

GCSI ON SITE SUPERINTENDENT GENE DENNIS CAN BE REACH ON HIS CELL PHONE AT 352-354-0277

GENERAL CONTRACTORS • CONSTRUCTION MANAGERS
222 West Wade Street, Trenton, Florida 32693
352-463-3939 • Fax: 352-463-8098 • FL CGC #062854
www.gray-construction.com

CONSTRUCTION GRAY SERVICES, INC.

October 14, 2008

Columbia County
Building Department
Attn: Joe Haltiwanger
Lake City, Florida

Re: Authorization Letter

To whom it may concern:

I hereby authorize Kelly Stone and/or Eugene Dennis of Gray Construction Services to conduct business on my behalf with Columbia County; in regards to the permitting of construction projects. Should there be any questions, please do not hesitate to contact me at (352) 463-3939.

Thank You

Matthew "Todd" Gray
President

Florida CGC#062854

NOTARY PUBLIC-STATE OF FLORIDA
Dara E. Stemple
Commission # DD805809
Expires: APR. 27, 2012
BONDED THRU ATLANTIC BONDING CO., INC.

Dara Stemple

GENERAL CONTRACTORS • CONSTRUCTION MANAGERS
222 West Wade Street, Trenton, Florida 32693
352-463-3939 • Fax: 352-463-8098 • FL CGC #062854
www.gray-construction.com

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 21-4S-17-08638-005 **Building permit No.** 000027427

Use Classification FIRE STATION **Fire:** 0.00

Permit Holder MATTHEW GRAY **Waste:** 0.00

Owner of Building COLUMBIA COUNTY FIRE STATION **Total:** 0.00

Location: 370 SE RACE TRACK LN

Date: 08/07/2009

Wayne A. Tuck

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Cal-Tech Testing, Inc.

• 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

27427

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 08-00524
DATE TESTED: 11/4/08
DATE REPORTED: 11/5/08

PROJECT:	Fire Station #48, Columbia County
CLIENT:	Gray Construction Services, Inc., 222 West Wade ST., Trenton, Fl 32693
GENERAL CONTRACTOR:	Gray Construction Services, Inc.
EARTHWORK CONTRACTOR:	Dale's Excavation
INSPECTOR:	Wayne Hygema

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

SPECIFIED REQUIREMENTS: 95%

TEST NO.		TEST LOCATION	LIFT	TEST DEPTH	WET DENSITY (lb/ft^3)	MOISTURE PERCENT	DRY DENSITY (lb/ft^3)	PROCTOR TEST NO.	PROCTOR VALUE	MAXIMUM DENSITY
19		SE Corner	4	12"	115.1	10.4	104.3	1	109.0	96%
20		NE Corner	4	12"	115.4	9.3	105.6	1	109.0	97%
21		North Side, Approx. Center	4	12"	115.3	9.9	104.9	1	109.0	96%
22		South Side, Approx. Center	4	12"	116.3	8.9	106.8	1	109.0	98%
23		SW Corner	4	12"	115.3	10.0	104.8	1	109.0	96%
24		NW Corner	4	12"	116.0	8.2	107.2	1	109.0	98%

REMARKS: The Above Tests Meet Specified Requirements.

PROCTORS

PROCTOR NO.		SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft^3)	OPT. MOIST.	TYPE
1		Light Gray Fine Sand	109.0	9.0	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Reviewed By:

Linda M. Creamer
President - CEO

Date:
Licensed, Florida No: 57842

ee

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.

COLUMBIA COUNTY FIRE / RESCUE

P.O. BOX 1529 Lake City, Florida 32056
Office (386) 754-7071 Fax (386) 754-7064

David L. Boozer
Division Chief

05 August 2009

TO: Columbia County Building and Zoning

FROM: David L. Boozer
Division Chief / Fire Marshal

RE: Columbia County Fire Rescue Station 48
370 SE Race Track Lane, Lake City, Florida 32025

This letter is to certify that the above listed building meets the requirements of Chapter 38 of the Florida Fire Prevention Code, 2007 edition. I recommend approval.

Sincerely,

David L. Boozer

David L. Boozer

LIFETIME STEEL BLDGS
1949 JERSEY STREET
JACKSONVILLE, FL 32210

DATE: 9/29/08

LIFETIME STEEL BLDGS
Re: JOB NO. 19066-2
BUILDING SIZE:
WIDTH : 70 ft.
LENGTH : 50.67 ft.
EAVE HT : 16 ft.

JOBSITE : LAKE CITY, FL 32024

To Whom It May Concern:

This is to certify that the above referenced building is designed in accordance with the order documentation, the Thirteenth Edition of the American Institute of Steel Construction (AISC) "Manual of Steel Construction" and the 2001 Edition of American Iron and Steel Institute (AISI) " Cold Formed Steel Design Manual. "The basic loads of the subject building meet or exceed the minimum county climatic data as published in the 2002 edition of the MBMA " Low Rise Building Systems Manual ".

The criteria for application of design loads are follows
Governing Code : FBC 06

Occupancy Category : IV - ESENTIAL FACILITIES
Roof Dead Load : 2.000 psf plus wt. of metal bldg structure
Live Load based on the tributary area :

0 - 200 sq. ft.....20 psf
201 - 600 sq. ft.....See Sec 4.9.1 of ASCE 7-02
over 600 sq. ft.....12 psf

Collateral Load	: 1 psf	Snow Exp. Fac	: NR
Wind Load (3 sec gust)	: 140 mph	Snow Imp. Fac.	: NR
Enclosure Type	: Closed	Seismic Imp. Fact.	: 1.50
Wind Exp. Cat	: B	Designed Spec. Acc. Parameter "Sds"	: 0.1333
Wind Imp. Factor	: 1.15	Designed Spec. Acc. Parameter "Sd1"	: 0.1008
Ground Snow Load	: 0.0000 psf	Mapped Spec. Response Acc. "Ss"	:0.1250
Roof Snow Load	: NR	Mapped Spec. Response Acc. "S1"	:0.0630
		Response Modification Factor	: 3.5

This Letter of Certification applies solely to the building and its component parts as furnished by the Metal Building Manufacturer. Doors, windows and louvers are not structural components of the building. It is the responsibility of the owner to determine if wind lock accessories are supplied if required. Certification specifically excludes any foundation, masonry, or general contract work.

Sincerely,

MIKE MURPHY, P.E.

OCT 09 2008

27427

NOTICE OF COMMENCEMENT

Inst:200812019185 Date:10/20/2008 Time:3:25 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1150 P:2038

This Instrument Prepared By:
Name: GRAY CONSTRUCTION SERVICES, INC.
Address: 222 WEST WADE STREET, TRENTON, FL. 32693
Permit No: 00027427
Tax Folio No: 21-4S-17-08638-005.03
STATE OF: FLORIDA
COUNTY OF: COLUMBIA

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

1. DESCRIPTION OF PROPERTY: Street Address: 370 SE RACE TRACK LANE, LAKE CITY, FL. 32025
Legal Description: SECTION 21, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA.

2. GENERAL DESCRIPTION OF IMPROVEMENT(S): CONSTRUCT A NEW FIRESTATION CONSISTING OF A METAL BUILDING, STEEL FRAME BEARING ON SPREAD FOOTINGS

3. OWNER INFORMATION: a.) Name: COLUMBIA COUNTY Address: 372 W. DUVAL ST., LAKE CITY, FL 32055
b.) Interest in Property: 100%
c.) Fee Simple Titleholder (if other than owner) Name: N/A Address:

4. CONTRACTOR: a.) Name: GRAY CONSTR. SERVICES Address: 222 W. WADE STREET TRENTON, FL 32693 b.) Phone: (352) 463-3939

5. SURETY: a.) Name: FIDELITY & DEPOSIT CO. OF MD. Address: 1400 AMERICAN LANE, TOWER 1, SCHAUMBURG, IL. 60196
b.) Amount of bond $: 931,877.00 c.) Phone: 800-382-2150

6. LENDER: a.) Name: N/A Address: b.) Phone:

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a) 7., Florida Statutes:
a.) Name: DALE WILLIAMS Address: P.O. BOX 1529 LAKE CITY, FL 32056 b.) Phone: 386-758-1005

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

9. Expiration date of notice of commencement (the expiration date is one (1) 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 WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Dale W.
Signature of Owner or Owner's Authorized Officer/Director Partner/Manager

Signatory's Title/ Office

The foregoing instrument was acknowledged before me this 20th day of October 2008 (year)
by (name of person) as (type of authority, e.g. officer, trustee, attorney in fact) for (name of party on behalf of whom instrument was executed).

Penny D. Stanley
Signature of Notary Public - State of Florida
Print, Type, or Stamp Commissioned Name of Notary Public
Commission Number: 769398
Personaly Known ✓ or Produced Identification

PENNY D. STANLEY
MY COMMISSION # DD 769398
EXPIRES: July 15, 2012
Bonded Thru Notary Public Underwriters

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.

Dale W.
Signature of Natural Person Signing Above

REVISED 7-1-07

NOTES

1. DESIGNED AND TESTED IN ACCORDANCE WITH FLORIDA BLDG CODE AND INTERNATIONAL BLDG CODE.
2. SPACING IS THE CENTER TO CENTER DIMENSION.
3. INDICATES SLAT FREQUENCY IN WHICH WINDLOCKS OCCUR.
4. PRESSURES LISTED AS +/- DESIGN/TEST PSF.
5. WALL ANGLES MAY BE WELDED TO STEEL JAMBS. PLUG WELDS IN THE WALL ANGLE SLOTS OR FILLET WELD AT THE HEAL AND TOE IF THE WALL ANGLE IS SUFFICIENT SIZE TO HOLD THE LOADS LISTED IN THE GUIDE TABLE.
6. "E" GUIDE DOORS HAVE THREE WALL FASTENER LENGTHS, THEY ARE:
   3/8" DIA(GRADE 2) = 1" LONG WALL BOLT
   3/8 DIA(GRADE 5) = 1-1/2" LONG WALL BOLT
   1/2 DIA = 1-1/2" LONG WALL BOLT
7. DOOR MANUFACTURED WITH CONTINUOUS WINDLOCKS AND WITH SLATS 22 GA. OR THICKER WILL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE AS TESTED PER TAS 201-94, TAS 203-94, LARGE MISSLE IMPACT.
8. ASTM A-36, GUIDE ANGLE MATERIAL.
9. DOORS AT 6'-9" WIDE WILL HAVE NO WINDBAR.
10. REFERENCE F-265 SLAT DRAWING 307210
11. DOOR OPENINGS 18'-4" AND LESS USE SLATS 22 Ga
    DOOR OPENINGS OVER 18'-4" USE SLATS 20 Ga
12. CONCRETE ANCHORS USE P/N 607692-XXXX
13. CHART OF WIND LOCK CLEARANCE

MAX OPENING WIDTH	CLEARANCE TENSILE
W < = 15'	0.625
UP TO 20'	0.875
UP TO 30'	1.375
UP TO 40'	1.875

PARALLEL FORCE: THE CATENARY FORCE OF THE CURTAIN APPLIED TO THE WINDBAR IN POUNDS PER FOOT OF HEIGHT.

NORMAL FORCE: THE FORCE NORMAL TO THE DOOR OPENING IN POUNDS PER FOOT OF HEIGHT.

MOMENT: THE RESOLUTION OF THE PARELLEL & NORMAL FORCES TO A POINT CORRESPONDING TO THE HEEL OF THE WALL ANGLE IN INCH/POUNDS PER FOOT OF DOOR HEIGHT.

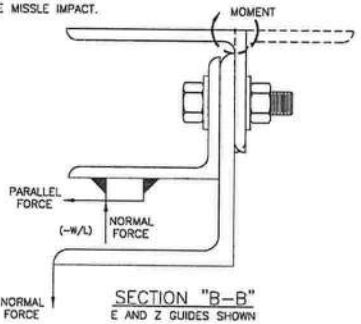
FL-742-R1

REVISIONS				
DR	REV	DESCRIPTION	DATE	APPROVAL
20642	E	REVISE PER EN	1/19/04	CCB
20712	F	REVISE PER EN	10/22/04	LK
20759	G	REVISE PER EN	7-21-05	LK

OVERHEAD DOOR CORPORATION
1900 CROWN DRIVE
FARMERS BRANCH, TEXAS 75234

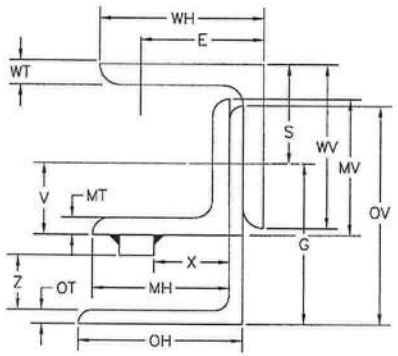
LeROY G. KRUPKE P.E. FL.#36580

LG Krupke
7-21-05

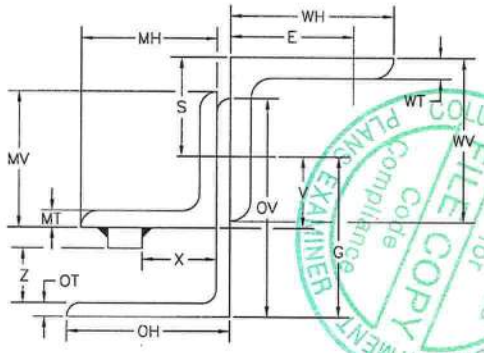


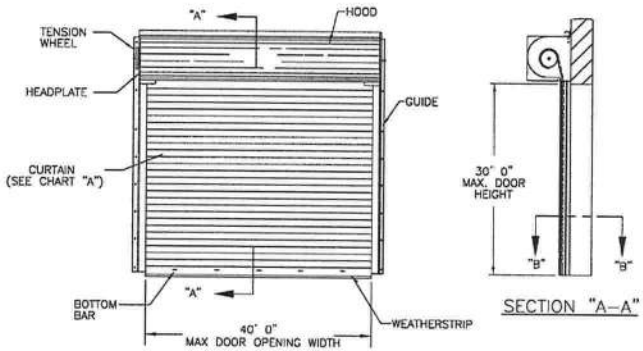
SECTION "B-B"
E AND Z GUIDES SHOWN

"E"-GUIDE



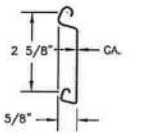
"Z"-GUIDE



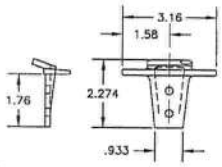


SECTION "A-A"

		E-GUIDE WIND PRESSURE								Z-GUIDE WIND PRESSURE							NOTES
DOOR OPENING WIDTH		6'-9"	12'-4"	15'	20'	25'	30'	35'	40'	11'-2"	15'	20'	25'	30'	35'	40'	
WALL HORIZONTAL	WH	2-1/2	3	3-1/2	3-1/2	4	4	4	4	2-1/2	3-1/2	3-1/2	4	4	4	4	
WALL VERTICAL	WV	3	3	2-1/2	3	3	3	3	3	2-1/2	3	3	3	3	3	3	
WALL THICKNESS	WT	3/16	3/16	1/4	1/4	5/16	5/16	3/8	3/8	3/16	1/4	1/4	5/16	5/16	3/8	3/8	
MIDDLE HORIZONAL	MH	2	2-1/2	3	3	3-1/2	3-1/2	3-1/2	3-1/2	2-1/2	3	3	3-1/2	3-1/2	3-1/2	3-1/2	
MIDDLE VERTICAL	MV	2	2	2	2	2-1/2	2-1/2	2-1/2	2-1/2	2	2	2	2-1/2	2-1/2	2-1/2	2-1/2	
MIDDLE THICKNESS	MT	3/16	3/16	3/16	3/16	1/4	1/4	5/16	5/16	3/16	3/16	3/16	1/4	1/4	5/16	5/16	
OUTSIDE HORIZONTAL	OH	2-1/2	3	3-1/2	3-1/2	4	4	4	4	3	3-1/2	3-1/2	4	4	4	4	
OUTSIDE VERTICAL	OV	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
OUTSIDE THICKNESS	OT	3/16	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
E	E	1-3/4	2-1/4	2-1/4	2-1/4	2-1/2	2-1/2	2-1/2	2-1/2	1-3/4	2-3/4	2-3/4	3-1/4	3-1/4	3-1/4	3-1/4	
S	S	2-1/4	1-5/8	1-13/16	1-13/16	1-13/16	1-13/16	1-7/8	1-7/8	1-5/8	1-13/16	1-13/16	1-13/16	1-13/16	1-7/8	1-7/8	
V	V	15/16	1-3/16	1-1/4	1-1/4	1-1/4	1-1/4	1-5/16	1-5/16	1-3/16	1-1/4	1-1/4	1-1/4	1-1/4	1-5/16	1-5/16	
G	G	2-1/4	2-3/4	2-13/16	2-13/16	2-13/16	2-13/16	2-7/8	2-7/8	2-3/4	2-13/16	2-13/16	2-13/16	2-13/16	2-7/8	2-7/8	
X	X	NONE	1-1/8	1-1/4	1-1/2	1-7/8	1-7/8	2-3/8	2-3/8	1-1/8	1-1/4	1-1/2	1-7/8	1-7/8	2-3/8	2-3/8	
Z	Z	NONE	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	15/16	
WALL BOLT SIZE		3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	3/8	1/2	1/2	1/2	1/2	5/8	5/8	
WALL BOLT GRADE		2	2	2	2	2	5	5	5	2-1/4 L	3-3/4 L	3-3/4 L	5-3/4 L	5-3/4 L	8 L	8 L	6
WALL BOLT SPACING		36	18	15	18	18	18	18	15	18	18	12	15	11	11	9	2
ASSEMBLY BOLT SIZE		3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	3/8	3/8	1/2	1/2	1/2	1/2	1/2	
ASSEMBLY BOLT GRADE		2	2	5	2	2	5	5	5	2	5	2	5	5	5	5	
ASSEMBLY BOLT SPACING		36	18	16	16	13	15	13	11	18	18	15	18	18	15	12	2
WINDLOCK FREQUENCY		0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
MOMENT		236	1533	2769	4264	5317	7103	8150	9895	1110	2720	4199	5215	6981	7979	9700	
NORMAL		88	160	195	260	325	390	455	520	145	195	260	325	390	455	520	
PARALLEL		0	371	671	1042	1257	1719	1891	2330	257	671	1042	1257	1719	1891	2330	



SLAT DETAIL



F-265 ALT. WINDLOCK DETAIL

			TOLERANCES UNLESS OTHERWISE SPECIFIED	FINISH	OVERHEAD DOOR CORPORATION DALLAS, TEXAS	NAME	DATE
		THIRD ANGLE PROJECTION	WHOLE NUMBERS: ± .25	N/A		DRAWN BY: K. WOLFF	11/19/02
		ASME Y14.100 AND Y14.5 APPLY, UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN U.S. CUSTOMARY UNITS.	.X ± .1	UNIT OF MEASURE	MATERIAL: N/A	CHECKED BY: JD FAW	1/24/03
			.XX ± .03			APPROVED BY: DM WELLS	1/24/03
			.XXX ± .010			DRAWING TITLE: WINDLOAD, 610/620, F-265, 25/39 PSF	
			ANGLES: ± .5°			DRAWING NUMBER: D- 308092	
REF DWG	USED ON		HOLES: ±	N/A		SCALE: N/A	SHEET 1 OF 1

MIAMI-DADE COUNTY

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Coral Industries, Inc.
1010 19th Avenue (PO Box 40228)
Tuscaloosa, AL 35404

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series FL500 Aluminum Window Wall System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **FL500_03**, titled "Product Approval Drawings - FL500 Window Wall System – Protocols PA201, 202, 203", sheets 1 through 11 of 11, dated 8/15/07, prepared by manufacturer, signed and sealed by Lewis A. Waldrop, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

PRODUCT CONTROL ACCEPTED

NOA No. 07-0529.01
Expiration Date: October 04, 2012
Approval Date: October 04, 2007

Florida Energy Efficiency Code For Building Construction

Florida Department of Community Affairs

FLA/COM 2004 v2.5, Effective Dec 8, 2006 -- Form 400A-2004R

Method A: Whole Building Performance Method for Commercial Buildings

PROJECT SUMMARY

Short Desc:	039-07	**Description:**	Lake City Fire Station
Owner:	Columbia County		
Address1:	Race Track Lane	**City:**	Lake City
Address2:	Enter Address here	**State:**	Enter state here
		Zip:	0
Type:	Police/Fire Station	**Class:**	New Finished building
Jurisdiction:	COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)		
Conditioned Area:	10229 SF	**Conditioned & UnConditioned Area:**	10229 SF
No of Stories:	1	**Area entered from Plans**	10448 SF
Permit No:	0	**Max Tonnage**	5.9
		If different, write in:	_____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost	4,989.4	5,491.4	**PASSES**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**None Entered**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**PASSES**
Met all required compliance from Check List?			**Yes/No/NA**

IMPORTANT NOTE: An input report of this design building must be submitted along with this Compliance Report.

CERTIFICATIONS

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

Prepared By: Richard E. Coburn PE

Date: 10/7/08

Building Official: _____

Date: _____

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: _____

Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the FLorida Energy Efficiency Code

Architect:	Craig Salley Architect	Reg No: 4475
Electrical Designer:	Richard E. Coburn PE	Reg No: E32820
Lighting Designer:	Richard E. Coburn PE	Reg No: E32820
Mechanical Designer:	Richard E. Coburn PE	Reg No: E32820
Plumbing Designer:	Richard E. Coburn PE	Reg No: E32820

(*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: 039-07
Title: Lake City Fire Station
Type: Police/Fire Station
(WEA File: JACKSONVILLE.TMY)

Building End Uses

	Design	Reference
Total	*92.42*	*100.00*
	$4,989	*$5,491*
ELECTRICITY(MBtu/kWh/$)	83.23	92.17
	95245	105501
	$4,810	*$5,338*
AREA LIGHTS	17.28	23.09
	19791	26420
	$999	*$1,337*
MISC EQUIPMT	33.59	33.59
	38443	38443
	$1,941	*$1,945*
PUMPS & MISC	0.05	0.05
	59	59
	$3	*$3*
SPACE COOL	11.44	12.01
	13084	13756
	$661	*$696*
VENT FANS	20.87	23.43
	23868	26823
	$1,205	*$1,357*
NATURAL-GAS(MBtu/therm/$)	9.19	7.83
	359	306
	$180	*$153*
SPACE HEAT	9.19	7.83
	359	306
	$180	*$153*

Credits & Penalties (if any): Modified Points: = 92.43 | **PASSES**

Project: 039-07
Title: Lake City Fire Station
Type: Police/Fire Station
(WEA File: JACKSONVILLE.TMY)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 3	Other (doors) than main entries	Yes	20.00	12.0	240	52

Tradable Surfaces: 52 (W) Allowance for Tradable: 240 (W) **PASSES**
All External Lighting: 52 (W)

Project: 039-07
Title: Lake City Fire Station
Type: Police/Fire Station
(WEA File: JACKSONVILLE.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
LIVING AREA 10	9	Food Service - Bar/Lounge	702	1	1	PASSES
KITCHEN 102	7	Food Service - Kitchen	202	1	1	PASSES
DORM 109	,003	Fire station Sleeping Quarters	152	1	1	PASSES
DORM 110	,003	Fire station Sleeping Quarters	162	1	1	PASSES
DORM 111	,003	Fire station Sleeping Quarters	155	1	1	PASSES
HALL 100	9	Food Service - Bar/Lounge	100	1	1	PASSES
SLEEPING 112	,003	Fire station Sleeping Quarters	81	1	1	PASSES
OFFICE 103	17	Office - Enclosed	132	1	1	PASSES
OFFICE 104	17	Office - Enclosed	80	1	1	PASSES
MECHANICAL	1	Electrical Mechanical Equipment Room - General	71	1	1	PASSES
OFFICE 105	17	Office - Enclosed	65	1	1	PASSES
SHOWER/RR 10	,002	Dressing/Locker/Fitting Room (General)	84	1	1	PASSES
SHOWER/RR 10	,002	Dressing/Locker/Fitting Room (General)	84	1	1	PASSES
OFFICE 108	17	Office - Enclosed	120	1	1	PASSES
APP BAY	,002	Fire Station Engine Room	8,039	4	4	PASSES

PASSES

Project: 039-07
Title: Lake City Fire Station
Type: Police/Fire Station
(WEA File: JACKSONVILLE.TMY)

System Report Compliance

ah-1 **System 1** **Constant Volume Packaged System--902** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity		11.10	10.30	11.50		PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

indirect **System 4** **Unit Heater or Warm Air Duct Furnaces** **No. of Units 4**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Heating System	Unit Heaters Gas		80.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance

None

Project: 039-07
Title: Lake City Fire Station
Type: Police/Fire Station
(WEA File: JACKSONVILLE.TMY)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Comp liance
Water Heater 1	Electric water heater	<= 12 [kW]	0.92	0.86			PASSES

PASSES

Project: 039-07
Title: Lake City Fire Station
Type: Police/Fire Station
(WEA File: JACKSONVILLE.TMY)

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
Domestic and Service Hot Water Systems	0.25	False	105.00	0.28	1.00	0.50	PASSES
Cooling Systems (Chilled Water, Brine and Refrigerant)	0.75	False	45.00	0.28	1.00	0.50	PASSES

PASSES

Project: 039-07
Title: Lake City Fire Station
Type: Police/Fire Station
(WEA File: JACKSONVILLE.TMY)

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Infiltration	406.1	Infiltration Criteria have been met	☐
System	407.1	HVAC Load sizing has been performed	☐
Ventilation	409.1	Ventilation criteria have been met	☐
ADS	410.1	Duct sizing and Design have been performed	☐
T & B	410.1	Testing and Balancing will be performed	☐
Motors	414.1	Motor efficiency criteria have been met	☐
Lighting	415.1	Lighting criteria have been met	☐
O & M	102.1	Operation/maintenance manual will be provided to owner	☐
Roof/Ceil	404.1	R-19 for Roof Deck with supply plenums beneath it	☐
Report	101	Input Report Print-Out from EnergyGauge FlaCom attached?	☐

EnergyGauge Summit® v3.14

INPUT DATA REPORT

Project Information

Project Name: 039-07

Project Title: Lake City Fire Station

Address: Race Track Lane
Enter Address here

State: Enter state here

Zip: 0

Owner: Columbia County

Orientation: North

Building Type: Police/Fire Station

Building Classification: New Finished building

No.of Stories: 1

GrossArea: 10229 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	AH1	Zone 1	CONDITIONED	2190.0	1	2190.0	☐
2	UNIT HEATERS	APPARATUS BAYS	CONDITIONED	8039.0	1	8039.0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]	
In Zone:	**AH1**									
1	LIVING ARE	LIVING AREA	Food Service - Bar/Lounge	1.00	702.00	10.00	1	702.0	7020.0	☐
2	KITCHEN 102	KITCHEN	Food Service - Kitchen	1.00	202.00	10.00	1	202.0	2020.0	☐
3	DORM 109	Zo0Sp3	Fire station Sleeping Quarters	1.00	152.00	9.00	1	152.0	1368.0	☐
4	DORM 110	Zo0Sp3	Fire station Sleeping Quarters	1.00	162.00	9.00	1	162.0	1458.0	☐
5	DORM 111	Zo0Sp3	Fire station Sleeping Quarters	1.00	155.00	9.00	1	155.0	1395.0	☐
6	HALL 100	HALL	Food Service - Bar/Lounge	10.00	10.00	10.00	1	100.0	1000.0	☐
7	SLEEPING 11	Zo0Sp7	Fire station Sleeping Quarters	1.00	81.00	9.00	1	81.0	729.0	☐
8	OFFICE 103	Zo0Sp8	Office - Enclosed	1.00	132.00	9.00	1	132.0	1188.0	☐
9	OFFICE 104	Zo0Sp9	Office - Enclosed	1.00	80.00	9.00	1	80.0	720.0	☐
10	MECHANICA	Zo0Sp10	Electrical Mechanical Equipment Room - General	1.00	71.00	9.00	1	71.0	639.0	☐
11	OFFICE 105	Zo0Sp11	Office - Enclosed	1.00	65.00	9.00	1	65.0	585.0	☐
12	SHOWER/RR	Zo0Sp12	Dressing/Locker/Fitting Room (General)	1.00	84.00	9.00	1	84.0	756.0	☐
13	SHOWER/RR	Zo0Sp12	Dressing/Locker/Fitting Room (General)	1.00	84.00	9.00	1	84.0	756.0	☐
14	OFFICE 108	Zo0Sp9	Office - Enclosed	1.00	120.00	9.00	1	120.0	1080.0	☐
In Zone:	**UNIT HEATERS**									
1	APP BAY	Zo0Sp15	Fire Station Engine Room	100.00	80.39	14.00	1	8039.0	112546.0	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: AH1								
In Space: LIVING AREA 101								
1	Compact Fluorescent	General Lighting	10	51	510	Manual On/Off	1	☐
In Space: KITCHEN 102								
1	Recessed Fluorescent - No vent	General Lighting	7	32	224	Manual On/Off	1	☐
In Space: DORM 109								
1	Recessed Fluorescent - No vent	General Lighting	1	32	32	Manual On/Off	1	☐
In Space: DORM 110								
1	Recessed Fluorescent - No vent	General Lighting	1	32	32	Manual On/Off	1	☐
In Space: DORM 111								
1	Recessed Fluorescent - No vent	General Lighting	1	32	32	Manual On/Off	1	☐
In Space: HALL 100								
1	Compact Fluorescent	General Lighting	10	12	120	Manual On/Off	1	☐
In Space: SLEEPING 112								
1	Recessed Fluorescent - No vent	General Lighting	1	24	24	Manual On/Off	1	☐
In Space: OFFICE 103								
1	Recessed Fluorescent - No vent	General Lighting	1	128	128	Manual On/Off	1	☐
In Space: OFFICE 104								
1	Recessed Fluorescent - No vent	General Lighting	1	64	64	Manual On/Off	1	☐
In Space: MECHANICAL								
1	Recessed Fluorescent - No vent	General Lighting	1	64	64	Manual On/Off	1	☐
In Space: OFFICE 105								
1	Recessed Fluorescent - No vent	General Lighting	1	64	64	Manual On/Off	1	☐
In Space: SHOWER/RR 107								

1	Recessed Fluorescent - No vent	General Lighting	1	64	64	Manual On/Off	1	☐
In Space: SHOWER/RR 106								
1	Recessed Fluorescent - No vent	General Lighting	1	64	64	Manual On/Off	1	☐
In Space: OFFICE 108								
1	Recessed Fluorescent - No vent	General Lighting	1	128	128	Manual On/Off	1	☐
In Zone: UNIT HEATERS								
In Space: APP BAY								
1	Recessed Fluorescent - No vent	General Lighting	20	240	4800	Manual On/Off	4	☐

Walls

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: AH1												
1	Filled cell concrete block	8" Filled cell concrete block w/ gyp	40.00	8.00	1	320.0	North	0.0460	3.893	44.96	21.7	☐
2	Pr0Zo1Wa2	Mtl Bldg Roof/R-19 Batt	40.00	8.50	1	340.0	North	0.0492	1.337	9.49	20.3	☐
3	Filled cell concrete block	8" Filled cell concrete block w/ gyp	40.00	8.00	1	320.0	South	0.0460	3.893	44.96	21.7	☐
4	Pr0Zo1Wa2	Mtl Bldg Roof/R-19 Batt	40.00	8.50	1	340.0	South	0.0492	1.337	9.49	20.3	☐
5	Filled cell concrete block	8" Filled cell concrete block w/ gyp	40.00	8.00	1	320.0	West	0.0460	3.893	44.96	21.7	☐
6	Pr0Zo1Wa2	Mtl Bldg Roof/R-19 Batt	36.00	20.00	1	720.0	West	0.0492	1.337	9.49	20.3	☐
In Zone: UNIT HEATERS												
1	Filled cell concrete block	8" Filled cell concrete block w/ gyp	122.00	8.00	1	976.0	North	0.0460	3.893	44.96	21.7	☐
2	Pr0Zo1Wa2	Mtl Bldg Roof/R-19 Batt	122.00	8.50	1	1037.0	North	0.0492	1.337	9.49	20.3	☐

3	Filled cell concrete block	8" Filled cell concrete block w/ gyp	122.00	8.00	1	976.0	South	0.0460	3.893	44.96	21.7
4	Pr0Zo1Wa2	Mtl Bldg Roof/R-19 Batt	122.00	8.50	1	1037.0	North	0.0492	1.337	9.49	20.3
5	Pr0Zo1Wa8	8" Filled cell concrete block w/ gyp	72.00	8.00	1	576.0	North	0.0460	3.893	44.96	21.7

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multiplier	Total Area [sf]
In Zone: AH1										
In Wall: N Ins block										
1	Pr0Zo1Wa1Wi1	User Defined	No	1.2500	0.82	0.76	3.50	3.50	1	12.3
In Wall: W Ins block										
1	Pr0Zo1Wa5Wi1	User Defined	No	1.2500	0.82	0.76	3.50	3.50	3	36.8

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]
In Zone: AH1											
In Wall: N Ins block											
1	Pr0Zo1Wa1Dr1	Solid core flush (2.25)	No	3.00	7.00	1	21.0	0.3504	0.00	0.00	2.85
In Zone: UNIT HEATERS											
In Wall: N Ins block											
1	Pr0Zo1Wa1Dr1	Solid core flush (2.25)	No	14.00	7.00	5	98.0	0.3504	0.00	0.00	2.85
In Wall: N 6" Stud											
1	Pr0Zo1Wa1Dr1	Solid core flush (2.25)	No	14.00	7.00	5	98.0	0.3504	0.00	0.00	2.85
In Wall: s Ins block											
1	Pr0Zo1Wa1Dr1	Solid core flush (2.25)	No	14.00	7.00	5	98.0	0.3504	0.00	0.00	2.85
In Wall: s 6" Stud											

	1	Pr0Zo1Wa1Dr1	Solid core flush (2.25)	No	14.00	7.00	5	98.0	0.3504	0.00	0.00	2.85

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone: AH1											
1	Pr0Zo1Rf1	Mtl Bldg Roof/R-19 Batt	1263.00	1.00	1	1263.0	45.00	0.0492	1.34	9.49	20.3
2	Pr0Zo1Rf1	Mtl Bldg Roof/R-19 Batt	1263.00	1.00	1	1263.0	45.00	0.0492	1.34	9.49	20.3
In Zone: UNIT HEATERS											
1	Pr0Zo1Rf1	Mtl Bldg Roof/R-19 Batt	414.40	10.00	1	4144.0	45.00	0.0492	1.34	9.49	20.3
2	Pr0Zo1Rf1	Mtl Bldg Roof/R-19 Batt	414.40	10.00	1	4144.0	45.00	0.0492	1.34	9.49	20.3

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone:										
In Roof:										

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone: AH1										
1	Pr0Zo1Fl1	1 ft. soil, concrete floor, carpet and rubber pad	1204.00	2.00	1	2408.0	0.1745	54.00	108.00	5.73
In Zone: UNIT HEATERS										

1	Pr0Zo2Fl1	1 ft. soil, concrete floor, carpet and rubber pad	80.39	100.00	1	8039.0	0.1745	54.00	108.00	5.73	☐

Systems

ah-1 **System 1** **Constant Volume Packaged System--902** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	70700.00	11.10	11.50	☐
2	Air Handling System -Supply	2700.00	0.80		☐

indirect **System 4** **Unit Heater or Warm Air Duct Furnaces** **No. Of Units 4**

Component	Category	Capacity	Efficiency	IPLV	
1	Heating System	10000.00	80.00		☐
2	Air Handling System -Supply		0.80		☐

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV	
						☐

Water Heaters

W-Heater	Description	Capacity	Cap.Unit	I/P Rt.	Efficiency	Loss	
1	Electric water heater	50	[Gal]	6 [kW]	0.9200 [Ef]	[Btu/h]	☐

Ext-Lighting

	Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]	
1	Ext Light 3	Other (doors) than main entries	2	26	12.00	Photo Sensor control	52.00	☐

Piping

	No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?	
1		Domestic and Service Hot Water Systems	105.00	0.28	0.25	1.00	No	☐
2		Cooling Systems (Chilled Water, Brine and Refrigerant)	45.00	0.28	0.75	1.00	No	☐

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT	
ASHULSglClrAll Frm	User Defined	1	1.2500	0.8200	0.7600	☐

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
18	Matl18	2 in. Wood	No	2.3857	0.1670	0.0700	37.00	0.3900	☐
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					☐

265	Matl265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	☐
48	Matl48	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	☐
57	Matl57	3/4 in. Plaster or gypsum	No	0.1488	0.0625	0.4200	100.00	0.2000	☐
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	☐
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	☐
420	Matl420	0.875 in. Stucco	No	0.1822	0.0729	0.4000	16.00	0.2000	☐
1001	ApLbMat1001	8" CONCRETE BLOCK W/FILLED CELL	Yes	19.0000					☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1056	Mtl Bldg Roof/R-19 Batt	No	No	0.05	1.34	9.49	20.3	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	94	BUILT-UP ROOFING, 3/8IN	0.0313	0.000	☐
2	23	6 in. Insulation	0.5000	0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1057	1 ft. soil, concrete floor, carpet and rubber pad	No	No	0.17	54.00	108.00	5.7	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	265	Soil, 1 ft	2.0000	0.000	☐
2	48	6 in. Heavyweight concrete	0.5000	0.000	☐
3	178	CARPET W/RUBBER PAD		0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1058	Solid core flush (2.25)	No	Yes	0.35			2.9	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	279	Solid core flush (2.25")		0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1060	8" Filled cell concrete block w/ gyp	No	No	0.05	3.89	44.96	21.7	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	420	0.875 in. Stucco	0.0729	0.000	☐
2	1001	8" CONCRETE BLOCK W/FILLED CELL		0.000	☐
3	57	3/4 in. Plaster or gypsum	0.0625	0.000	☐
4	18	2 in. Wood	0.1670	0.000	☐

Air System Sizing Summary for AHU-1

Project Name: 039-07
Prepared by: AKEA Inc

10/07/2008
08:54AM

Air System Information

Air System Name	AHU-1		Number of zones	1	
Equipment Class	SPLT AHU		Floor Area	2560.0	ft²
Air System Type	SZCAV		Location	Gainesville, Florida	

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM	Sum of space airflow rates		Calculation Months	Jan to Dec	
Space CFM	Individual peak space loads		Sizing Data	Calculated	

Central Cooling Coil Sizing Data

Total coil load	5.9	Tons	Load occurs at	Jul 0000	
Total coil load	70.6	MBH	OA DB / WB	78.7 / 72.9	°F
Sensible coil load	59.0	MBH	Entering DB / WB	80.3 / 66.0	°F
Coil CFM at Jul 0000	2433	CFM	Leaving DB / WB	57.7 / 56.4	°F
Max block CFM	2433	CFM	Coil ADP	55.2	°F
Sum of peak zone CFM	2433	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.835		Resulting RH	44	%
ft²/Ton	435.2		Design supply temp.	58.0	°F
BTU/(hr-ft²)	27.6		Zone T-stat Check	0 of 1	OK
Water flow @ 10.0 °F rise	N/A		Max zone temperature deviation	2.9	°F

Central Heating Coil Sizing Data

Max coil load	20.4	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	2433	CFM	BTU/(hr-ft²)	8.0	
Max coil CFM	2433	CFM	Ent. DB / Lvg DB	66.7 / 74.5	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	2433	CFM	Fan motor BHP	0.00	BHP
Standard CFM	2420	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	0.95	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	189	CFM	CFM/person	11.78	CFM/person
CFM/ft²	0.07	CFM/ft²			

Zone Sizing Summary for AHU-1

Project Name: 039-07
Prepared by: AKEA Inc

10/07/2008
08:54AM

Air System Information

Air System Name **AHU-1**
Equipment Class ..... **SPLT AHU**
Air System Type ..... **SZCAV**

Number of zones **1**
Floor Area ..... **2560.0** ft²
Location ..... **Gainesville, Florida**

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM ..... **Sum of space airflow rates**
Space CFM ..... **Individual peak space loads**

Calculation Months ..... **Jan to Dec**
Sizing Data ..... **Calculated**

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (MBH)	Design Air Flow (CFM)	Minimum Air Flow (CFM)	Time of Peak Load	Maximum Heating Load (MBH)	Zone Floor Area (ft²)	Zone CFM/ft²
Zone 1	42.9	2384	2384	Jul 1500	12.3	2560.0	0.93

Zone Terminal Sizing Data

No Zone Terminal Sizing Data required for this system.

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (MBH)	Time of Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (ft²)	Space CFM/ft²
Zone 1							
100 Hall	2	1.3	Jul 1300	70	0.3	180.0	0.39
101 Living Area	1	12.5	Jun 1600	683	4.9	702.0	0.97
102 Kitchen	1	7.6	Jul 1300	417	0.8	206.0	2.02
103 Office	1	1.7	Jun 1400	94	0.9	135.0	0.70
104 Server/Office	1	5.0	Jul 1300	275	0.2	95.0	2.90
105 Restroom/Shower	1	0.6	Jul 1300	35	0.2	90.0	0.39
107 Restroom/Shower	1	0.6	Jul 1300	30	0.1	78.0	0.39
108 Office	1	2.1	Jul 1300	115	0.2	116.0	0.99
109 Dorm	1	2.2	Jul 1300	119	0.7	157.0	0.76
110 Dorm	1	2.4	Aug 1300	132	1.2	165.0	0.80
111 Dorm	1	2.1	Aug 1400	118	0.8	155.0	0.76
112 Sleeping	1	1.0	Aug 1400	53	0.5	85.0	0.62
100-A Hall	1	2.3	Jul 1700	124	0.8	91.0	1.36
100 Hall-B	1	0.4	Jul 1300	21	0.1	55.0	0.39
117 Mechanical	1	0.5	Jul 1300	27	0.1	70.0	0.39

SOIL BORING
9P
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REPORT OF GEOTECHNICAL EXPLORATION

New Fire Station Building
SE Racetrack Way & U.S. Highway No. 441
Lake City, Columbia County, Florida
CTI Project No. 07-00524-01

- Prepared for -

Columbia County Board of County Commissioners
P.O. Drawer 1529
Lake City, Florida 32055

- Prepared by -

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

November 1, 2007

Cal-Tech Testing, Inc.
• Engineering
• Geotechnical
• Environmental
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November 1, 2007

Columbia County Board of County Commissioners
P.O. Drawer 1529
Lake City, Florida 32055

Attention: Mr. John Colson

Subject: Report of Geotechnical Exploration
New Fire Station Building
SE Racetrack Way & U.S. Highway No. 441
Lake City, Columbia County, Florida
CTI Project No. 07-00524-01

Dear Mr. Colson:

Cal-Tech Testing, Inc. (CTI) has completed the subsurface exploration for the proposed new Fire Station building in Lake City, Florida.

The following report presents the results of our field exploration and testing, an evaluation of the subsurface conditions with respect to available project characteristics, and recommendations to aid in the design and construction of the proposed fire station building.

We have enjoyed assisting you on this project and look forward to serving as your geotechnical and construction materials testing consultant for the remainder of this and future projects. Should you have any questions concerning this report, please contact our office at 386-755-3633.

Sincerely,
Cal-Tech Testing, Inc.

David B. Brown
Executive Vice President

Nabil O. Hmeidi, P.E. 11/1/07
Senior Geotechnical Engineer
Licensed, Florida No. 57842

Distribution: *File (1 copy)*
Addressee (2 copies)
Mr. Chad Pickle – Craig Salley & Associates, Architects (1 copy)

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APPENDIX

1.0 PROJECT INFORMATION

The purpose of this exploration was to develop information concerning the site and subsurface conditions in order to evaluate site preparation requirements and foundation support recommendations for the proposed new Fire Station building. The subject site is located on the south side of SE Racetrack Way approximately ¼ mile east of U.S. Highway No. 441 in Lake City, Columbia County, Florida. This report briefly describes our field activities and presents our findings.

We have been furnished with an electronic copy of an undated Soil Boring Plan prepared by Craig Salley & Associates, Architects (**CSA**). We understand the proposed fire station building will have plan dimensions of approximately 165 feet by 57 feet. We anticipate the proposed construction will include a one-story, pre-engineered metal building with a 15- to 20-foot eave height. Detailed structural information has not been provided; however, we anticipate individual column loads will not exceed 40 kips. We have assumed that soil-supported ground floor loads (dead load plus live load) in the fire station will not exceed 150 psf. We assume that less than two feet of earthwork fill will be required to achieve desired finished grade elevations.

2.0 FIELD EXPLORATION

The subsurface conditions were explored by performing four (4) Standard Penetration Test (SPT) borings extended to a depth of 20 feet below the existing ground surface. The SPT borings were performed at the approximate locations shown on the attached Field Exploration Plan. The locations of the SPT borings were provided to us on an undated drawing prepared by CSA of Gainesville, Florida. These locations were determined in the field by our personnel and referenced from existing site features.

The sampling and penetration procedures of the SPT borings were accomplished in accordance with ASTM D-1586, 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 attached Generalized Subsurface Profile(s) graphically illustrates penetration resistances, groundwater levels (if any encountered), 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.

3.0 SITE AND SUBSURFACE CONDITIONS

3.1 Site Conditions

The existing site conditions were observed by our personnel during our field program. At the time of our visit, the ground surface was densely wooded and covered with underbrush. The site topography was relatively level with elevation difference of approximately two feet across the proposed building area.

3.2 General Area Geology

A review of the site geology indicates the subject project is underlain by Undifferentiated Quaternary Sediments (**Qu**) of the Pleistocene and Holocene epochs. These sediments consist of siliciclastics, organics and freshwater carbonates. The silicicalstics are light gray, tan, brown to dark, unconsolidated to poorly consolidated, clean to clayey, silty, fossiliferous, variably organic-bearing sands to blue green to olive green, poorly to moderately consolidated, sandy, silty, clays. Freshwater carbonates "*marls*" are buff colored to tan, unconsolidated to poorly consolidated, fossiliferous (mollusks) carbonate muds containing organics.

3.3 USDA/NRCS Soil Survey

Cursory review of the Columbia County, Florida USDA Soil Survey indicates the subject site is underlain by one or more of the following soil map units:

- **Blanton fine sand (Soil Map Unit No. 8),** 0% to 5% slopes: This soil map unit consists of about 7 inches of gray sand, underlain by about 45 inches of very pale brown to light gray sand. The substratum soils are underlain by light yellowish brown to light brownish gray sandy loam to a depth of 80 inches or more below the natural ground surface. The soil survey indicates a perched[1] high water table at about 5 to 6 feet below the ground surface during the period of December to March.

- **Albany fine sand (Soil Map Unit No. 1),** 0% to 5% slopes: This soil unit consists of about 9 inches of dark grayish brown fine sand underlain by about 48 inches of light yellowish brown fine sand, mottled with brown and white; and pale yellow fine sand, mottled with red and white. These soils are underlain by light yellowish brown fine sandy loam, mottled with brown and light gray; and gray sandy clay loam that has strong brown mottles to a depth of about 80 inches below natural ground surface. The soil survey indicates the apparent[2] high water table at about 1 to 2.5 feet below the ground surface during the period of December to March.

---

[1] *Water standing above an unsaturated zone. In places, a perched (or upper) water table is separated from the lower one by a dry zone.*

[2] *Thick zone of free water in the soil indicated by the level at which water stands in an uncased borehole after adequate time is allowed for adjustment in the surrounding soils.*

3.4 Subsurface Conditions

A representation of the subsurface conditions encountered in the explored area is shown on the attached Generalized Subsurface Profile. The profile and soil conditions outlined below indicate major subsurface stratification. It should be understood that soil conditions may vary between and away from the boring locations.

Initially, the soil profile as disclosed by SPT borings B-1 through B-4 consisted of about 12 inches of grayish brown, silty fine sand (SP-SM) with trace of organic (topsoil). This surficial cover was underlain by about 3 to 8½ feet of light tan, silty fine sand (SM-SP). This stratum was underlain by about 1½ to 7 feet of gray and reddish brown, clayey fine sand (SC). Beneath this layer, the soil profile consisted of about 5 to 8 feet of light gray and reddish tan, mottled sandy clay (CL). This layer, at the location of SPT borings B-2 and B-3, was underlain by about 6½ to 8 feet of gray and reddish brown, clayey fine sand (SC). At the location of SPT boring B-4, about 3 feet of light gray and reddish tan, mottled, clay (CH) was encountered at a depth of 17 feet below the existing ground surface. All SPT borings were terminated at a depth of 20 feet below the existing ground surface.

3.5 Groundwater

At the time of completion of drilling, no groundwater was encountered in the SPT and auger borings. We note that due to the relatively short time frame of the field exploration, the groundwater may not have had sufficient time to stabilize. 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. Since groundwater level variations are anticipated, design drawings and specifications should accommodate such possibilities and construction planning should be based on the assumption that variations will occur.

4.0 RECOMMENDATIONS FOR FOUNDATION DESIGN & SITE PREPARATION

The recommendations presented in this report are based upon available project information, anticipated loading conditions, and data obtained during our field program. If the structural information is incorrect or the location of the structure changes, please contact this office so our recommendations may be reviewed and/or revised. Discovery of any site or subsurface condition during construction, which deviates from the data collected during this exploration, should be reported to us for evaluation. Assessment of site environmental conditions or presence of pollutants was beyond the scope of this exploration.

4.1 General

Based on our evaluation of the encountered subsoils, anticipated loading conditions and our past experience with similar projects, it is our professional opinion the subject site is considered suitable for the support of the proposed Fire Station building. The development should include the usual clearing, stripping and removal of surface vegetation, topsoil and any other deleterious materials that fall within the building area. This operation should be followed by proofrolling/compaction of the near surface in-situ soils and any additional fill soils required to achieve final grades.

4.2 Foundation Support

The test borings indicated the presence of very loose sandy soils within the upper 4 feet of the existing ground surface. The majority of these soils are considered suitable for reuse as structural fill, however, they are not considered acceptable for the support of the proposed building in their current conditions. To improve the density of the supporting soils, the upper 4 feet of the site soils should be overexcavated, and recompacted 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 bearing pressure of 2,500 pounds per square foot (psf) or less supported on in-situ **recompacted** soils or 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.

4.3 Settlement Analyses

Actual magnitude of settlement that will occur beneath foundations will depend upon variations within the subsurface soil profile, actual structural loading conditions, embedment depth of the footings, actual thickness of compacted fill or cut, and the quality of the earthwork operations. Assuming that the foundation related site work and foundation design is completed in accordance with the enclosed recommendations, we estimate the total settlement of the structure will be on the order of 1 inch or less. Differential settlements (between adjacent columns or along the length of a continuous wall footing) should be approximately one-half of the total settlement. This settlement is primarily the result of elastic compression of the upper loose sands, and should occur almost immediately following the application of the structural dead load during construction.

4.4 Floor Slab

Provided all unsuitable material (such as topsoil, organics, etc.) located within the proposed building area (**including 5 feet outside the perimeter of the building**) is undercut and replaced with well-compacted structural fill, floor slabs can be adequately supported on recompacted soils or newly placed structural fill. All exposed subgrade should be proofrolled with a fully-loaded, tandem-axle dump-truck or similar pneumatic-tired equipment. Provided the proofrolling operations do not indicate significant deflecting or pumping of the existing subgrade, the floor slab in these areas may also be designed as a slab-on-grade. Any soft or loose soils found during the proofrolling procedure should be undercut and replaced with suitable, well-compacted, engineered fill.

All 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.

Based upon the soil conditions encountered at the subject site, the anticipated fill placement, and the recommended site preparation operations presented in this report, a modulus of vertical subgrade reaction (k) for the slab bearing soils of 225 pounds per square inch per inch of vertical deflection (pci) for the recommended structural fill compaction criteria.

4.5 Exposed Subgrade

Following excavation and backfilling, exposed soils in the building area (**including 5 feet outside the perimeter of the building**) should be compacted with overlapping passes of a relatively heavy weight vibratory 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 95 percent of the modified Proctor maximum dry density (**ASTM D-1557**) to a depth of at least 12 inches below the compacted surface.

4.6 Structural Fill/Backfill

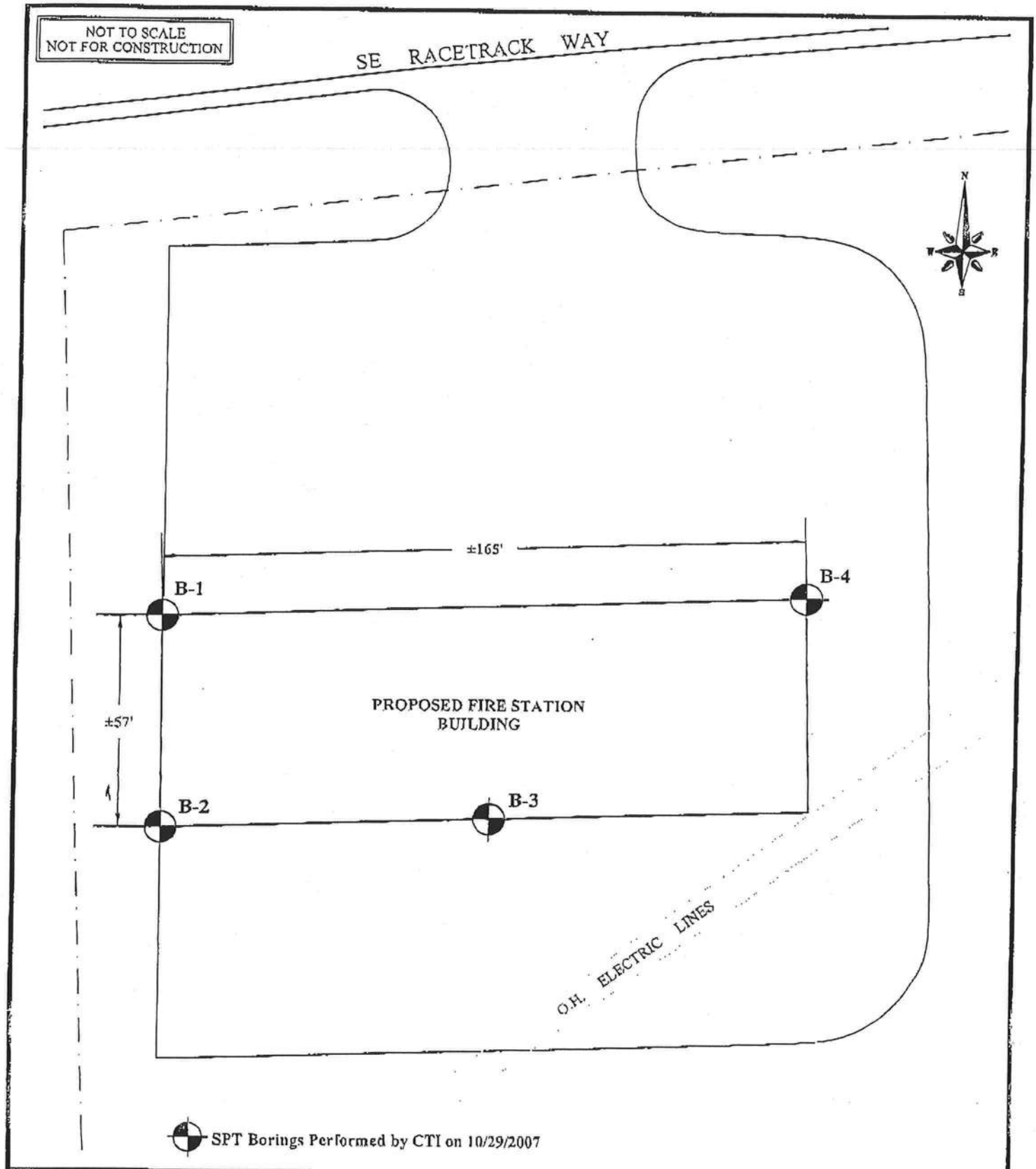
Structural fill should be placed in thin loose lifts not exceeding 12 inches in thickness and compacted with a heavy roller as described above. For walk-behind equipment, a maximum loose lift thickness of 6 inches is recommended. Each lift should be thoroughly compacted with the vibratory roller to provide 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).

Compaction of exposed soils in deeper excavations may cause pumping and/or yielding of the soils being compacted. The instability is caused by excess pore water pressure build-up in the subgrade soils being compacted. To allow this excess pore water pressure to dissipate, the contactor may temporarily halt the compaction operation or disengage the vibratory action of the compaction equipment. In any event, it is recommended to maintain a distance of at least two feet between the groundwater level and the compaction surface.

5.0 REPORT LIMITATIONS

This report has been prepared for the exclusive use of the **Columbia County Board of County Commissioners, Florida,** for the specific application to the project discussed herein. Our conclusions and recommendations have been rendered using generally accepted standards of geotechnical engineering practice in the State of Florida. No other warranty is expressed or implied. **CTI** is not responsible for the interpretations, conclusions, opinions, or recommendations of others based on the data contained herein. We note that the assessment of environmental conditions for the presence of pollutants in the soil, rock, or groundwater at the site was beyond the scope of the exploration. Field observations, monitoring, and quality assurance testing during earthwork and foundation installation are an extension of the geotechnical design. We recommend that the owner retain these services and that **CTI** be allowed to continue our involvement in the project through these phases of construction.

APPENDIX

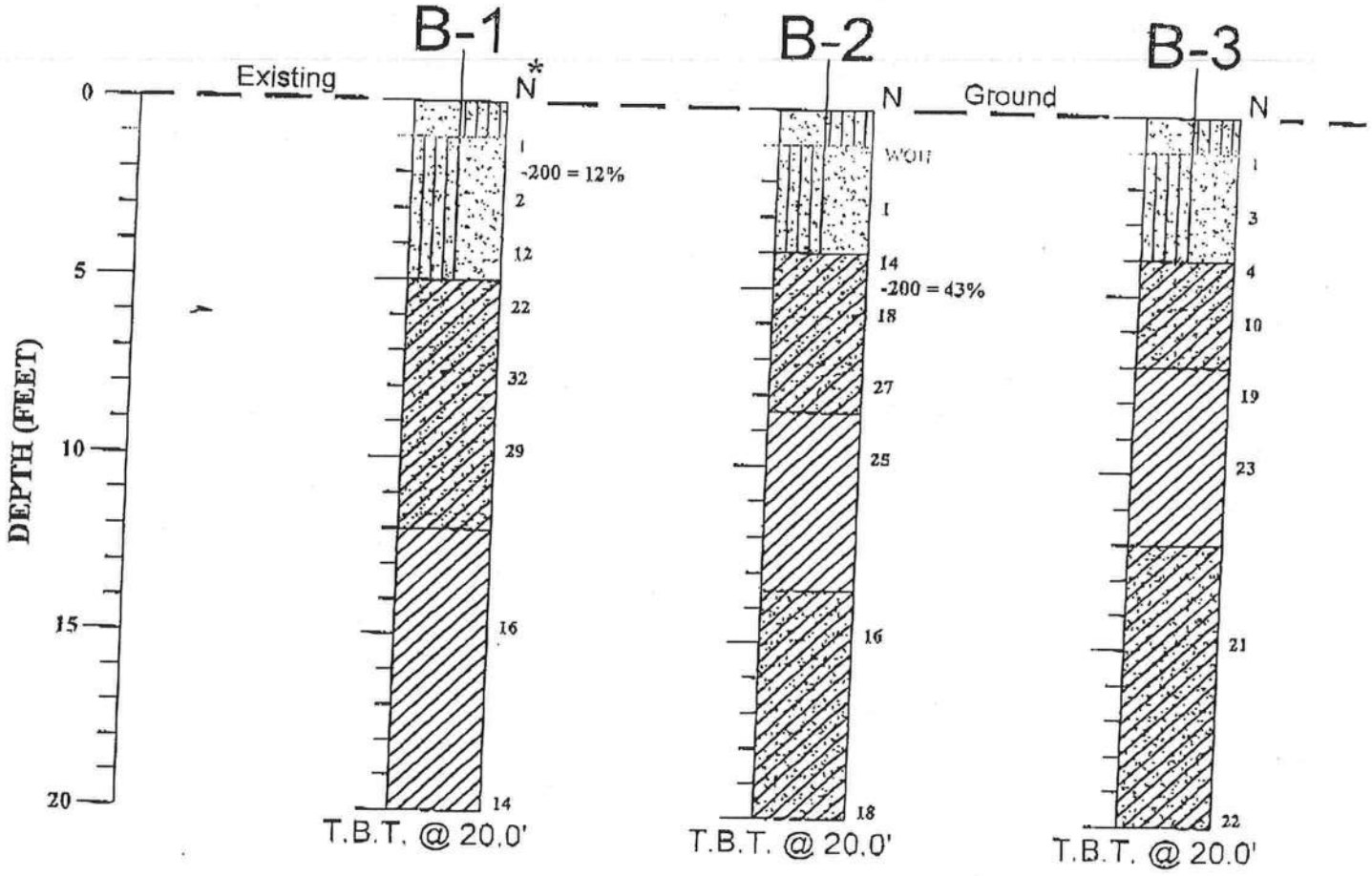


SUBSURFACE EXPLORATION
NEW FIRE STATION
LAKE CITY, COLUMBIA COUNTY, FLORIDA

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

FIELD EXPLORATION PLAN

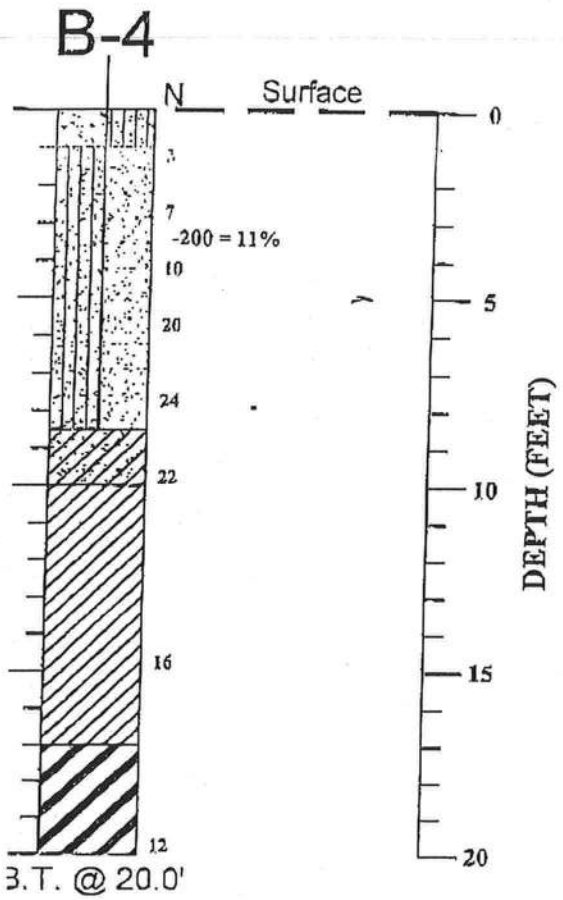
Project No. 07-00524-01	DATE: 10/31/2007	FIGURE: 1
APPROVED:	SCALE: N.T.S.	SHEET: 1/1



NOTE: Please refer to text of report for additional information relative to groundwater conditions and potential fluctuations which could occur.

REVISIONS							NAMES	DATE
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY:		
						CHECKED BY:		
						DRILLED BY:		
						APPROVED BY:		
						Cal-TechProject No.	07-00524-01	

CAL-TE
P.
Lake City,
Phone
Fax:



LEGEND

- Grayish brown, silty fine sand (SP-SM), trace organics
- Light tan, silty fine sand (SM-SP)
- Gray and reddish brown, clayey fine sand (SC)
- Light gray and reddish tan, mottled, sandy clay (CL)
- Light gray and reddish tan, mottled, clay (CH)
- * Standard Penetration Resistance (Blows/ft.) Measured Using a Manual Hammer System
- Groundwater Level Measured at Completion
- T.B.T. Test Boring Terminated
- A.B.T. Auger Boring Terminated
- WOH Weight Of Hammer
- -200 Fines Content (Percent of soil particle passing the No. 200 sieve mesh)
- 20.0' Termination Depth

TING, INC. 1625 32056-1625 '55-3633 2-5456	SUBSURFACE EXPLORATION NEW FIRE STATION LAKE CITY, COLUMBIA COUNTY, FLORIDA	GENERALIZED SUBSURFACE PROFILE	FIGURE: 2 SHEET: 1/1

COLUMBIA COUNTY BUILDING DEPARTMENT

COMMERCIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 WITH 2005 & 2006 Supplements

ALL REQUIREMENTS LISTED ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES. 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 DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FBC FIGURE 1609 STATE OF FLORIDA WIND-BORNE DEBRIS REGION & BASIC WIND SPEED MAP

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

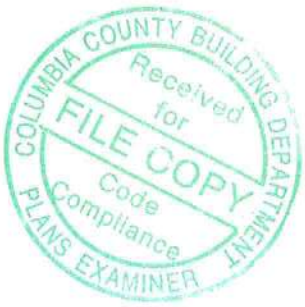
GENERAL REQUIREMENTS:

All drawings must be clear, concise and drawn to scale. details that are not used shall be marked void.
If the design professional is an architect or engineer legally registered under the laws of this state regulating the practice of architecture as provided for in Chapter 481, Florida Statutes, Part I, or engineering as provided for in Chapter 471, Florida Statutes, then he or she shall affix his or her official seal to said drawings, specifications and accompanying data, as required by Florida Statute.

- **Two (2) complete sets of plans containing the following information**:

Building

1. Site requirements:
   - Parking
   - Fire access
   - Vehicle loading
   - Driving/turning radius
   - Fire hydrant water supply/post indicator valve (PIV)
   - Set back/separation (assumed property lines)
   - Location of specific tanks, water lines and sewer lines
   - All exterior elevations views
   - Total height of structure form established grade



2. Occupancy group use and special occupancy requirements.

3. Minimum type of permitted construction by code for occupancy use.

4. Fire-resistant construction requirements shall be shown, include the following components:
   - Fire-resistant separations
   - Fire-resistant protection for type of construction
   - Protection of openings and penetrations of rated walls
   - Fire blocking and draftstopping and calculated fire resistance

5. Fire suppression systems shall be shown include:
   - Early warning smoke evacuation systems Schematic fire sprinklers
   - Standpipes
   - Pre-engineered systems
   - Riser diagram

6. Life safety systems shall be shown include the following requirements:
    - Occupant load and egress capacities
    - Early warning
    - Smoke control
    - Stair pressurization
    - Systems schematic

7. Occupancy load egress requirements shall be shown include:
    - Occupancy load
    - Gross
    - Net
    - Means of egress
    - Exit access
    - Exit
    - Exit discharge
    - Stairs construction geometry and protection
    - Doors
    - Emergency lighting and exit signs
    - Specific occupancy requirements
    - Construction requirements
    - Horizontal exits exit passageways

8. Structural requirements shall be shown include:
    - Soil conditions analysis
    - Termite protection
    - Design loads
    - Wind requirements
    - Building envelope
    - Structural calculations (if required)
    - Foundation
    - Wall systems
    - Floor systems
    - Roof systems
    - Threshold inspection plan
    - Stair systems

9. Materials shall be shown include the following:
    - Wood
    - Steel
    - Aluminum
    - Concrete
    - Plastic
    - Glass
    - Masonry
    - Gypsum board and plaster
    - Insulating (mechanical)
    - Roofing
    - Insulation

10. Accessibility requirements shall be shown include the following:
    - Site requirements
    - Accessible route
    - Vertical accessibility
    - Toilet and bathing facilities
    - Drinking fountains
    - Equipment
    - Special occupancy requirements

- Fair housing requirements

11. Interior requirements shall include the following:
    - Interior finishes (flame spread smoke development)
    - Light and ventilation
    - Sanitation

12. Special systems:
    - Elevators
    - Escalators
    - Lifts

13. Swimming pools:
    - Barrier requirements
    - Spas
    - Wading pools

14. Electrical:
    - Wiring
    - Services
    - Feeders and branch circuits
    - Overcurrent protection
    - Grounding
    - Wiring methods and materials
    - GFCIs
    - Equipment
    - Special occupancies
    - Emergency systems
    - Communication systems
    - Low voltage
    - Load calculations

15. Plumbing
    - Minimum plumbing facilities
    - Fixture requirements
    - Water supply piping
    - Sanitary drainage
    - Water heaters
    - Vents
    - Roof drainage
    - Back flow prevention
    - Irrigation
    - Location of water supply line
    - Grease traps
    - Environmental requirements
    - Plumbing riser

16. Mechanical
    - Energy calculations
    - Exhaust systems:
        - Clothes dryer exhaust
        - Kitchen equipment exhaust
        - Specialty exhaust systems
    - Equipment:
    - Equipment location:
        - Make-up air
        - Roof-mounted equipment
        - Duct systems

- Ventilation
- Combustion air
- Chimneys, fireplaces and vents
- Appliances
- Boilers
- Refrigeration
- Bathroom ventilation
- Laboratory

17. Gas

- Gas piping
- Venting
- Combustion air
- Chimneys and vents
- Appliances
- Type of gas
- Fireplaces
- LP tank location
- Riser diagram/shutoffs

- **Notice Of Commencement:**

A 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**

- **Disclosure Statement for Owner Builders**
- Private Potable Water:
  - Size of pump motor
  - Size of pressure tank
  - Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS:

- **1.Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all construction projects.

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

- **3.Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic tank approval or sewer tap is required (386)758-1058

- **4.City Approval:** If the project is 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.

- **5.<u>Flood Information:</u>** 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 that is located within a flood zone where the base flood elevation (100 year flood) **has not been** established shall meet the requirements of section 8.7 of the Columbia County Land Development Regulations. **<u>CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.</u>**
  A development permit will also be required. **The development permit cost is $10.00**

- **6.<u>Driveway Connection:</u>** If the property does not have an existing access to a public road, then an application for a culvert permit must be made **($5.00)**. Culvert installation for commercial, industrial and other uses shall **conform to the approved site plan or to the specifications of a registered engineer. Joint use culverts will comply with Florida Department of Transportation specifications**. If the project is to be located on a F.D.O.T. maintained road, then an F.D.O.T. access permit is required.

- **7.<u>Suwannee River Water Management District Approval:</u>** All commercial projects must have an SRWMD permit issued or an exemption letter, before a building will be issued.

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

PRODUCT APPROVAL SPECIFICATION SHEET

Location: 370 SE RACE TRACK LANE **Project Name:** FIRE STATION

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS	Ingersoll-Rand	- EXTERIOR MTL DOOR	04-0203.03
x 1. Swinging	" "	SWINGING	
2. Sliding			
3. Sectional			
x 4. Roll up	OVERHEAD DOOR	- METAL CURTAIN ROLL UP DOOR	FL-742-R1
5. Automatic			
6. Other			
B. WINDOWS			
x 1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
x 5. Fixed	CORAL IND.	ALUMINUM WINDOW WALL SYST	07-0529.01
x 6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
x 2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
x 6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
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			
12. Roofing Slate			

Category/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 inspection

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

Permit # **(FOR STAFF USE ONLY)**

Website:

Effective April 1, 2004

Columbia County 9-1-1 Addressing / GIS Department
P.O. Box 1787, Lake City, FL 32056
Telephone: (386) 758-1125 * Fax: (386) 758-1365 * E-mail: ron_croft@columbiacountyfla.com

9-1-1 Address Request Form

NOTE: ADDRESS ASSIGNMENT MAY REQUIRE UP TO 10 WORKING DAYS. IF THE ADDRESSING DEPARTMENT NEEDS TO CONDUCT ON SITE GPS LOCATION IDENTIFICATION, ADDITIONAL TIME MAY BE REQUIRED.

Date of Request: _____

Requester Last Name: _____

First Name: _____

Contact Telephone Number: _____

(Cell Phone Number if Provided): _____

Requested for Self: _____ or Requested for Company: _____
(check one)
If Address is Requested by a Company, Provide Name of Requesting Company:

_____

Parcel Identification Number: ____ - ____ - ____ N/A - ____

If in Subdivision, Provide Name Of Subdivision:

ALREADY ESTABLISHED

_____

Phase or Unit Number (if any): _____ Block Number (if any): _____

Lot Number: _____

Attach Site Plan or you may use back of Request Form for Site Plan:

Requirements for Site Plan Are Listed on Back of Request From:
(NOTE: Site Plan Does NOT have to be a survey or to scale; FURTHER a Environmental Health Dept. Site Plan showing only a 210 by 210 cutout of a property will NOT suffice for Addressing Requirements.)

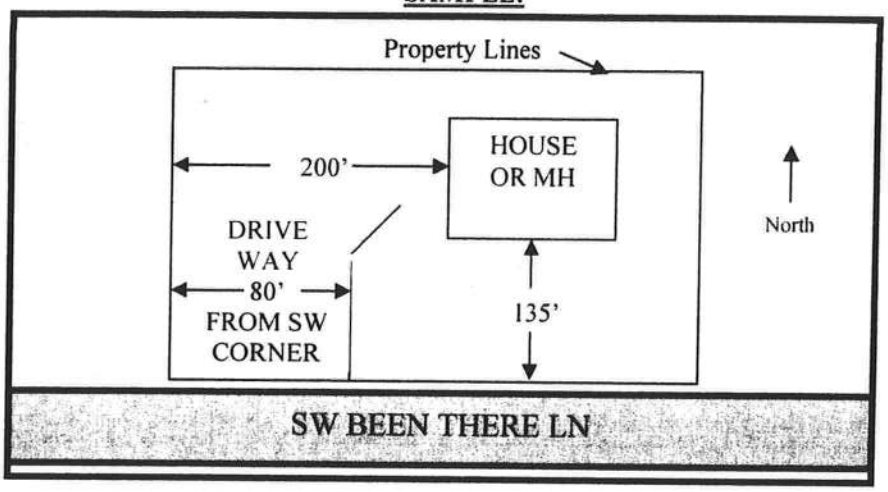
Addressing / GIS Department Use Only:

Date Received: _____ Date Assigned: _____

ID Number: _____

1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



SITE PLAN BOX:

#48

200800599621
7/31
(5)

PROJECT MANUAL
CIVIL ENGINEERING / ARCHITECTURAL / M/E/P
FOR

FIRE STATION
RACE TRACK LANE, LAKE CITY, FL
FOR

COLUMBIA COUNTY
BOARD OF COUNTY COMMISSION

CRAIG SALLEY AND ASSOCIATES
ARCHITECTS • PLANNERS • INTERIOR DESIGNERS
3911 NEWBERRY ROAD, SUITE D • GAINESVILLE, FLORIDA 32607 • AAA0002479 • (352) 372-8424 • FAX (352) 377-4945

CIVIL ENGINEERS
GTC DESIGN GROUP, LLC
176 NW LAKE JEFFREY ROAD
LAKE CITY, FLORIDA 32055

S E C
STRUCTURAL ENGINEERING CONSULTANTS
8201 Lakemont Dr., Jacksonville, FL 32216
Alnis Banga, P.E. Principal Engineer

AKEA Inc.
MECHANICAL & ELECTRICAL ENGINEERS
25401NW 8th Place, Newberry, FL 32669
Phone: 352.472.5151 Fax: 352.472.5159

ARCHITECT'S PROJECT NO. 0715

BID/PERMIT DOCUMENTS

INCLUDES ADDENDUMS 1, 2, 3, 4 & 5

DATE: JULY 1, 2008

SET NO. 6

July 24, 2008 e-mail

ADDENDUM NO. 1

TO THE DRAWINGS AND PROJECT MANUAL
FOR
FIRE STATION
RACE TRACK LANE, LAKE CITY, FL
COLUMBIA COUNTY BOARD OF COUNTY COMMISSION

ARCHITECT'S PROJECT NO. 0715

CRAIG SALLEY & ASSOCIATES, ARCHITECTS, GAINESVILLE, FLORIDA

This Addendum shall be considered part of the Contract Documents for the above mentioned Project as though it has been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence. **Bidders are hereby notified that they shall acknowledge receipt of this Addendum on their Bid Proposal Form.**

1. GENERAL:

A. A Mandatory Pre-Bid Conference was held at the Columbia County Courthouse beginning at 10:00 A.M. on Wednesday, July 23, 2008. Only those General Contractors, or their representatives in attendance, will be allowed to submit a Bid for this project. The following General Contractors were in attendance:

COMPANY	CONTACT	TELEPHONE
Billco	William F. Pagend	386-322-2123
Concept Construction	Jason Parker	386-755-8887
Core Construction	Leslie Lawrence	904-399-1033
Don Reed Construction	Don Reed	386-752-4072
East Coast Construction, LLC	Shawn Snidler Mike Shearer	386-867-0845
Florida Fill & Grading	Clint Boone	386-755-2298
Florida Steel Contracting Corp.	Pat Riley	386-497-1069
GMC Construction	Danette Dorsey	352-380-0318
Gray Construction	Kelly Stone	352-463-3939
Hashman Construction	Mark Hashman	904-739-1122
Inter-Tech Systems	Orlando Cruz	407-876-1658
J. A. Standridge	Tina Rush	352-475-1530
J. K. Lockwood	Matthew Bunce	352-628-2567
J.L. Dupree Construction	Lamar Dupree Curt McDonald	386-754-5678
Joyner Construction	Richard Wagner	352-332-8171

General Contractor's List Continued:

COMPANY	CONTACT	TELEPHONE
Little & Williams	Mark Little	386-755-3139
Mandese White Construction, Inc.	Stephen Bender	352-332-9272
Mil-Con	Matt Haluck	904-317-5601
Music Construction	Allen Music	386-658-1598
Newman Construction	Don Newman	904-783-2260
Nooney Construction	Rick Nooney	904-260-5124
Quality Plus Services	Woody Woodard	386-623-6689
RAM Construction and Development, LLC	Mark Phillips	850-671-7267
ROTCI	Richard O. Tillis	386-496-1360
Simque Construction , LLC	David Simque	386-755-7787
Slack Construction	Ron Webb	352-622-9568
Wade Willis Construction	Wade Willis	386-623-3331
Worth Construction	Jason Worth	386-364-9330

In addition to the General Contractors listed above, interested subcontractors in attendance at the Pre-Bid Conference were present as follows:

COMPANY	CONTACT	TELEPHONE
Associated Construction Services, Inc.	Eric Smith	386-590-0891
Country Comfort Heating & Air	Chris Williams	386-752-5841
Dale's Excavation	Dale Peeler	386-755-1699
Earthworx	Herb Horne	352-339-5844
Florida Rock	Shane Crawford	352-494-1243
Mangrum Plumbing Inc.	Andrew Mangrum	386-623-4237
Metal Erection & Buildings	Randy Sherouse	386-487-0135
Miro Electric	Jim Flanaga	386-792-3888
North Florida Acoustics	Jim Steiner	386-867-0049
PMH Group (Electrical)	Glen Sidwell	863-287-9420
R&E Environmental Services	Thomas Alvarez	866-496-3867
Standard Plumbing & Supplies Co.	Mark Dawson	386-755-1950
Triple "S" Plumbing	David Skinner Tommy Skinner	352-473-0083
Zabatt Inc.	Juan Alfaro	352-484-4151

B. For clarification, the generator, transfer switch and ice machine are Owner furnished and Contractor installed.

2. **ADVERTISEMENT FOR BID:** Delete the reference to Owner Furnished carpet and vinyl base. **All floor finishes and base shall be furnished and installed by the Contractor.**

3. **PROJECT MANUAL, STATEMENT OF CONTRACTOR'S QUALIFICATION FORM:** For clarification: Item 17 can be left blank, since Section 00310 – LIST OF SUBCONTRACTORS OR SUPPLIERS, is sufficient and takes the place of this item. Note that Section 00310 must be completely filled out and turned in with the Proposal Form 00300.

4. **PROJECT MANUAL, SECTION 00100 – INSTRUCTIONS TO BIDDERS:**

   A. Bidders are not required to submit the SWORN STATEMENT and the DRUG FREE WORKPLACE PROGRAM REQUIREMENTS forms with their bid. These forms shall be submitted by the successful bidder at the time the bonds, builder's risk and insurance policies are submitted.

   B. Refer to Paragraph 1.16 Building Permit. **The County will waive all permit fees on this project.**

5. **PROJECT MANUAL, SECTION 00900 – DIRECT PURCHASE PROCEDURES:** Delete this section in its entirety. There will be no direct purchase items in this project.

6. **PROJECT MANUAL, SECTION 02750 – CHAIN LINK FENCING AND GATES:** Delete this section in its entirety. There will be no chain link fencing or gates in this project.

7. **PROJECT MANUAL, SECTION 04340 – REINFORCED UNIT MASONRY SYSTEM:**

   A. Refer to Paragraph 1.04 and delete Paragraph A. SECTION 07165 – DAMPPROOFING. There is no dampproofing required in this project.

   B. **Delete reference to Textured Coating on exterior unit masonry in Section 09900 – PAINTING.** The split faced CMU shall be water proofed on the exterior per Section 07175 – WATER REPELLENT COATING, which is added as Attachment "A" to this Addendum.

8. **PROJECT MANUAL, SECTION 06416 – PREFABRICATED MILLWORK:** The shelving shown in the Storage Rooms shall be equal to 82/182 wall-mounted shelving system, 16" deep minimum, with heavy-duty, double-track standards and brackets as manufactured by Knape & Vogt Manufacturing Company, 2700 Oak Industrial Dr N.E., Grand Rapids, MI, 49505, (616)459-3311, www.kv.com

9. **PROJECT MANUAL, SECTION 08300 – SPECIAL DOORS:** Refer to Paragraph 2.02, EXTERIOR ELECTRICALLY OPERATED ROLL-UP DOOR. Add Item 5. **Overhead Door Manufacturer is an approved door manufacturer for this project.**

10. **PROJECT MANUAL, SECTION 09300 – HARD TILE:** For clarification: Unglazed ceramic mosaic floor tile and base shall be DalTile Vitrostone 8" x 8".

11. **PROJECT MANUAL, SECTION 09900 – PAINTING: Delete all reference to Textured Coating on exterior unit masonry in this section.** The split faced CMU shall be water proofed on the exterior, per Section 07175 – WATER REPELLENT COATING, which is added as Attachment "A" to this Addendum.

12. **PROJECT MANUAL, SECTION 10350 – FLAGPOLE AND FLAG:** Refer to Paragraph 2.01, Subparagraph A. and add the following manufacturer as approved on this project: PoleTech, Flag Pole Manufacturer, 97 Gnarled Hollow Road, P.O. Box 715, East Setauket, New York, 11733, Toll Free Tel: 800-633-6733; Tel: 631-689-5525; Fax: 631-689-5528; Email: info@poletech.com; Web: www.poletech.com

13. **PROJECT MANUAL, SECTION 13120 – PREFABRICATED METAL BUILDING:**

A. Add the following Metal Building Manufacturers as approved to bid on this project:

1. Gulf States Manufacturers
2. Dean Steel Buildings, Inc.
3. Western Steel Building Systems
4. Sunward Steel Buildings
5. Star Building Systems
6. Liberty Building Systems

B. For clarification, the metal building siding shall be manufacturer's standard metal siding, not standing seam. The siding shall comply with design wind load requirements specified.

14. **PROJECT MANUAL, SECTION – 15061 - STEEL PIPE AND FITTINGS:** Revise the natural gas piping from yellow polyethylene piping to black steel piping rated for gas service. Prime and paint all gas piping gloss yellow, under Section 09900 – PAINTING, Paragraph 2.03, Subparagraph C. 4.

15. **PROJECT MANUAL, SECTION – 15064 - PLASTIC PIPE AND FITTINGS:** System description: Revise Paragraph A. 2. to be Schedule 40 solid wall PVC piping in lieu of Schedule 80 PVC.

16. **PROJECT MANUAL, SECTION – 15424 – DOMESTIC WATER HEATERS – ELECTRIC:** Change the voltage of the electric water heater WH-1 to 208 volt, 3 phase.

17. **PROJECT MANUAL, SECTION – 15450 – PLUMBING FIXTURES:** Fixture P-1, Standard Toilet, shall be revised to flush valve type, elongated bowl, equal to American Standard "Modera", Model No. 2234.015. Provide H.C. toilet with ADA compliant trim and flush valves. Flush valves shall be equal to Sloan Royal #111, chrome plated, polished exterior. **Revise water supply lines serving toilets to one inch (1") in size.**

18. **PROJECT MANUAL, SECTION – 15500 – FIRE PROTECTION:** Refer to PART 3 EXECUTION – INSTALLATION and add Item P. as follows: After the fire sprinkler system has been flushed and sterilized, the system shall be tested and certified by a State Certified Fire Sprinkler Inspector. Provide three copies of the certification as part of the Final Close Out Documents.

19. **PROJECT MANUAL, SECTION 16720 – FIRE DETECTION AND ALARM:** Refer to ACCEPTABLE MANUFACTURERS. Delete all acceptable manufacturers except NOTIFIER, No. 7 on the list. **The Fire Detection and Alarm System shall be as manufactured by Notifier NFS-320.** NO SUBSTITUTIONS will be accepted. Provide all equipment and accessories as outlined in this Section for a complete, Code Compliant System. **The fire alarm system shall be State Certified prior to acceptance of the project.** Provide three copies of the Certification as part of the Final Close Out Documents. Refer to Attachment "B" and replace this section in its entirety.

20. **DRAWINGS, SHEET C-2:** The City of Lake City will extend the gas line to within five feet of the building at the tie-in point of the building gas service line. The City will provide and connect the regulator and meter. The Contractor shall make the connection from the City gas line, regulator and meter to the building gas service line.

21. **DRAWINGS, SHEET SA-1 - ARCHITECTURAL SITE PLAN:** Sodding and Seeding shall be provided at 10'-0" minimum beyond all new construction, including concrete sidewalks and asphalt paving, and at the new retention area.

22. **DRAWINGS, SHEET A-9:** Refer to the LEGEND on this sheet and change all references to 4" thick batt insulation to 6" thick batt insulation. See SECTION 07210 – BUILDING INSULATION, for the specifications for batt insulation.

23. **DRAWINGS, SHEET P-1 – SUPPLY WATER PIPING PLAN:** Revise all references to "C.I." (cast iron) piping to Schedule 40 solid wall PVC. Revise water supply lines serving toilets to one inch (1") in size.

24. **DRAWINGS, SHEET P-4:** Change all automatic trap primers to passive type trap primers equal to J.R. Smith Model 2698, satin chrome cast bronze P-Trap with ground joint outlet. At all A.D.A. Lavatory locations, insulate trap and trap primer assemblies per A.D.A. Regulations.

25. **DRAWINGS, SHEET E-2.2:** Refer to LIGHTING FIXTURES SCHEDULE and add Lithonia as an acceptable manufacturer for fixtures as appropriate for the application. All Lithonia fixtures shall meet or exceed all the requirements of the fixtures specified.

26. **DRAWINGS, SHEET E-3.1 – ELECTRICAL POWER PLAN – APPARATUS BAYS:** The cooling only thermostat shall be equal to a 1E78-140 cooling only non programmable thermostat. Provide with a welded wire locking cover assembly. The control transformer shall be a White Rogers 90-T96F2, 90 va control transformer with a 120/240 volt primary and a 12/24 volt secondary. Provide 12" x 8" x 6" deep hinged over, gasketed control box with an SQ D Model 9999SC8 manual hand off auto switch.

END OF WRITTEN ADDENDUM

ATTACHMENT "A"

SECTION 07175

WATER REPELLENT COATING

PART 1 GENERAL

1.01 WORK INCLUDED: This Section covers the Work necessary to furnish and install, complete, the following:

A. Water repellent coating for all exterior CMU split faced and smooth faced surfaces.

1.02 RELATED WORK SPECIFIED AND PERFORMED UNDER OTHER SECTIONS

A. SECTION 04340 - REINFORCED UNIT MASONRY SYSTEM

1.03 QUALITY ASSURANCE

A. Applicator: Minimum 2 years experience on projects of similar scope.

1.04 SUBMITTALS: Submittals during construction shall be made in accordance with SECTION 01300, SUBMITTALS. In addition, the following specific information shall be provided:

A. Include details of product description, limitations to coating, cautionary procedures required during application, and chemical properties, including percentage of solids.

B. Submit manufacturer's printed application instructions.

C. Applicator's Qualification Affidavit: Submit water repellent coating applicator's affidavit of qualification compliance.

1.05 TRIAL APPLICATION

A. Apply coating according to manufacturer's directions to approximately 100 square feet of CMU.

B. Verify that CMU is coated with sufficient material to effectively repel moisture from surface.

C. Verify that application of coating to CMU will produce no surface stains.

1.06 DELIVERY, STORAGE AND HANDLING

A. Deliver, store and handle materials or equipment under provisions of SECTION 01600, MATERIAL AND EQUIPMENT.

B. Deliver materials in original sealed containers, clearly marked with manufacturer's name, brand name, and type of material. Store materials in area where temperatures are not less than 50 degrees F or over 85 degrees F, unless otherwise authorized by manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. The use of a manufacturer's name and specification number is for the purpose of establishing the standard of quality and general configuration desired. Products of other manufacturers, meeting the requirements specified herein, will be considered in accordance with SECTION 01600, MATERIAL AND EQUIPMENT.

B. Acceptable Manufacturers:

1. Emusol
2. Hydorzo - Clear 16
3. Chemprobe
4. Prime - A Pell 200
5. Flood - V.I.P. 9100

PART 3 EXECUTION

3.01 ENVIRONMENTAL REQUIREMENTS

A. Do not apply coating in rainy conditions or within 3 days after surfaces become wet from rainfall or other moisture.

B. Do not apply coating when low temperature of 40 degrees F or less is predicted within a period of 24 hours after application.

3.02 PROTECTION

A. Protect plants and vegetation which might be affected by coating fumes.

B. Protect all adjacent surfaces not to be coated.

3.03 INSPECTION

A. Examine surfaces to receive coating to assure conditions are satisfactory for application, CMU is clean and ready to receive coating. Do not apply coating to CMU that is stained, needs pointing up or otherwise is not ready to receive coating.

B. Verify that mortar joints found to be unsound, hollow, or otherwise defective, have been raked out to a depth of 1/2 inch and tuck pointed with mortar.

C. Verify that cracks which exceed 1/64 inch wide have been filled with pointing mortar.

3.04 SURFACE PREPARATION

A. Clean CMU surfaces to remove dust, dirt, oil, wax, efflorescence, and other foreign materials, in accordance with coating manufacturer's instructions.

B. Remove dust and dirt from CMU surfaces by lightly scrubbing with detergent solution and thoroughly rinsing with clean water.

C. Allow 3 days' drying time following washing down of CMU surfaces.

3.05 APPLICATION

A. Apply coating in strict accordance with manufacturer's directions with approved low pressure airless spray equipment with a course nozzle, or as directed by manufacturer.

B. **Apply coating materials in 2-coat application** at rates recommended by the manufacturer. Apply sufficient to obtain a surface run-down of 6 to 12 inches.

C. Start application at top of wall and work down surface, keeping a wet edge at all times.

D. Avoid letting coating dry between passes.

3.06 ADJUST AND CLEAN

A. Clean spillage and overspray from adjacent surfaces as recommended by coating manufacturer.

3.07 FIELD QUALITY CONTROL

A. After coating has dried, spray coat surfaces with water. Proper coating means water will bead up and not be absorbed by masonry.

B. Recoat surfaces that show water absorption at no cost to Owner.

END OF SECTION

ATTACHMENT "B"

SECTION 16720

FIRE DETECTION AND ALARM SYSTEMS

GENERAL

WORK INCLUDED

A. Includes But Not Limited To:
   1. Furnish and install alarm and detection system as described in Contract Documents.
   2. Furnish and install raceway, cable and conductors, boxes, and miscellaneous items necessary for complete system.

B. Related Sections:
   1. Section 16100 Basic Materials and Methods.

SYSTEM DESCRIPTION

A. Automatic fire alarm system consisting of control panel, power supplies, alarm initiating devices, notification appliances, and off-site communicating devices. System shall be non-coded, zoned or addressable, and monitored for integrity of conductors.

B. Class B (Style B) initiating device circuits and Class A (Style Z) notification appliance circuits including end-of-line devices.

C. Performance Requirements:

   1. Operation of manual station or automatic activation of any smoke detector, heat detector, or sprinkler flow device shall:
      a. Cause system notification appliances to operate. Indicate zone in alarm on control panel.
      b. Initiate off-site alarm notification system.
      c. Indicate zone or device in alarm on remote annunciator (future requirement).
      d. Initiate HVAC shutdown.

2. Alarm may be silenced by switch in control panel.
   a. When alarms are silenced, zone indicating red LEDs on control panel and remote annunciator shall remain indicated until operated device is returned to normal and control panel is manually reset.

3. Green pilot LED, or other visual annunciation, shall normally be on indicating that system is receiving normal power. In addition, failure of normal power be annunciated.

4. Trouble alarm and annunciation, operating together, shall signal trouble condition.
   a. Following conditions shall signal trouble condition:
      (1) Failure of normal power.
      (2) Opens or short circuits on indicating circuits.
      (3) Disarrangements in system wiring.
      (4) Control panel circuit board removal.
      (5) Ground faults.

5. Trouble silencing switch shall silence trouble alarm, but visual annunciation shall remain on until system is restored to normal. As ring-back feature, trouble alarm shall resound as reminder to return silencing switch to normal position.

6. Supervisory LED, separate from trouble LED, and alarm, operating together, shall signal operation of supervisory device, such as control valve tamper, low air pressure, and low temperature switches. Alarm silence switch shall operate in same manner as trouble alarm.

SUBMITTALS

A. Shop Drawings:
   1, Prepared by authorized factory representative and including:
      a. Single line diagram of actual system. Typical riser diagrams are not acceptable
      b. Complete wiring diagrams.
   2. Manufacturer's original catalog data and descriptive information on each piece of equipment to be used.

B. Quality Assurance / Control: Certificate of completion, from Manufacturer's Representative, in accordance with NFPA 72 requirements.

C. Closeout:
   1. Operations And Maintenance Manual Data:
      a. Provide operating and maintenance instructions for each item of equipment submitted under Product Data. Provide instruction manual from Manufacturer that explains what is to be done in event of various indications.
      b. Include copy of approved shop drawings.

QUALITY ASSURANCE

A. Regulatory Requirements:
   1. System shall meet approval of authority having jurisdiction (AHJ). NEC and local ordinances and regulations shall govern unless more stringent requirements are specified.
B. Equipment, devices, and cable shall be UL or Factory Mutual listed for use in fire alarm systems.

OWNER'S INSTRUCTIONS

A. Instruct Owner's representative in proper operation and maintenance procedures.

PART 2 PRODUCTS

COMPONENTS

A. Equipment and accessories furnished under this Specification shall be standard products of single manufacturer, or include written statement by Notifier confirming compatibility of components and inclusion of these components under system warranty. Control panel shall be equal to Notifier Model #NFS-320, NO SUBSTITUTIONS.

B. Control Panel:
   1. Listed under UL Standard 864.
   2. Solid-state modular design with flush or semi-flush mounting.
   3. Control functions shall be behind locked door with annunciating devices visible through door. Single key shall operate all keyed functions in system. Provide three keys.
   4. Each zone shall be electrically supervised in accordance with wiring style specified.
   5. Provide integral surge protection.
   6. Make provisions for connection to off-site alarm notification system. Provide separate dry contacts for alarm and supervisory/trouble alarms.
   7. Power Supply:
      a. Provide indication of normal power supply.
      b. Loss of normal power shall activate trouble alarm.
      c. Meet requirements of and size in accordance with UL Standard 1481 and NFPA 72.
      d. Include standby batteries, charger, and automatic transfer equipment.
   8. Visual Annunciation:
      a. Separate indication on each zone for alarm, trouble, or supervisory conditions.
      b. Visual indication shall be by LED lights or other easily identifiable method.
      c. On zoned system, permanently custom label zones by zone name, not number.
      c. Fault or trouble condition on any zone shall not affect any other zone.

9. Audible Horn Alarm Annunciation:
   a. Provide separate and distinct alarm signals for alarm and trouble conditions.
   b. Alarm signal shall also operate strobe lights, if specified.
   c. Provide alarm silence switches at control panel.
   d. Trouble alarm shall be horn integral to control panel.
10. Supervisory alarm may be same audible alarm as trouble alarm, but with separate visual annunciation.
11. Off-Site Alarm Notification System
    a. Provide two telephone lines from telephone terminal board to fire alarm control panel. Owner will arrange for monitoring connection contract.

C. Alarm Initiating Devices:

1. Smoke Detectors (including Duct Smoke Detectors):
   a. Photoelectric type.
   b. Listed under UL Standard 268.
   c. Provide visual indication of alarm on unit when normally pulsed supervisory LED glows continuously.
   d. Sampling tube for duct detectors shall extend across entire width of duct.
2. Heat Detectors:
   Non-settable 200 deg F fixed temperature.
   Provide visible indication that device has operated.
   Listed under UL Standard 521.
3. Manual Fire Alarm Boxes:
   a. Non-coded and double-action requiring two actions to initiate alarm. Breakable glass type is not approved.
   b. Box shall mechanically latch when actuated and require key to reset. Key shall match control panel door lock.

D. Notification Appliances:
1. Combination Horn / Strobe:
   a. Wall mounted flush or semi-flush.
   b. Non-coded audible output of 90 dB minimum at 10 feet.
   c. Integrally mounted flashing light unit with block letters 'FIRE.' Minimum light intensity of 15/75 candela and flash rate between one and three Hertz.
   d. Listed under UL Standards 464 and 1971.

2. Strobe Only:
   a. Wall mounted flush or semi-flush.
   b. Integrally mounted flashing light unit with block letters 'FIRE.' Minimum light intensity of 15/75 candela and flash rate between one and three Hertz.
   c. Listed under UL Standard 1971.
   d. Color: White

E. Accessory Devices:
   1. Notification Appliance Protective Devices: Provide wire guard covers for appliances installed in Apparatus Bay.
   2. HVAC shut-down relays.
   3. Remote indicator light for each duct detector.

MANUFACTURER

A. Notifier, NO SUBSTITUTIONS. Model #NFS-320.
B. Contact Information:
   Notifier, Northford, CT (800) 454-9779 or (203) 484-7161. www.notifier.com

EXECUTION

INSTALLATION

A. Install fire alarm and detection systems as indicated, in accordance with Equipment Manufacturer's written instructions, and complying with applicable portions of NEC, NFPA, and NECA's 'Standard of Installation.'

B. Mounting Heights:
   1. Unless otherwise indicated, mount center of outlets or boxes at following heights above finish floor:
      a. Fire alarm horns speaker/strobes: 90 inches
      b. Fire alarm pull stations: 54 inches.
      c. Remote annunciator panel: 60 inches.
      d. Remote duct detector indicator light – 48".
      e. Locate fire alarm manual stations 24 inches minimum away from any light switch.
   2. Identification:
      a. Label zone indicators on control unit indicating location and type of initiating device, i.e., CORRIDOR SMOKE, VALVE TAMPER, AIR SYSTEM SMOKE, etc. Labels shall be engraved plastic laminate, or other permanent labeling system as supplied by Control Unit Manufacturer.
      b. Post copy of wire identification list inside fire alarm panel door or other area accessible to fire alarm service personnel.
      c. Print location of circuit disconnecting means inside panel.

C. Conductors:
1. Install conductors in conduit.
2. Fire alarm system conductors from different zones may be combined in common conduit. Make certain that raceway size and wire quantity, size, and type are suitable for equipment supplied and is within NEC standards. Label pull and junction boxes 'FIRE ALARM.' All fire alarm conduit and junction boxes shall be painted red.

3. Install conductors and make connections to water flow switches, valve tamper switches, low air pressure switches, and duct smoke detectors.
4. Loop wires through each device on zone for proper supervision. Tee-taps not permitted.
5. Minimum conductor size shall be 14 AWG unless otherwise specified.
6. Do not install ceiling mounted detectors within 36 inches of air discharge grilles.
7. Do not install manual fire alarm boxes close to light switches. Coordinate with other trades as required.
8. Mount Duct Smoke detectors in return air ducts of each HVAC unit as shown on the drawings.

FIELD QUALITY CONTROL

A. Manufacturer's Field Service:
1. Provide factory-trained representative to perform complete system testing in presence of Owner's representative and local fire department personnel upon completion of installation.
   a. Test each initiating and annunciating device for proper operation, except fixed temperature heat detectors.
   b. Test operation of trouble annunciation on each circuit.
   c. Perform complete testing of control panel functions.

PROTECTION
1. Provide dust protection for installed smoke detectors until finish work is completed and building is ready for occupancy.
2. Protect conductors from cuts, abrasion and other damage during construction.

END OF SECTION

ADDENDUM NO. 2

TO THE DRAWINGS AND PROJECT MANUAL
FOR
FIRE STATION
RACE TRACK LANE, LAKE CITY, FL
COLUMBIA COUNTY BOARD OF COUNTY COMMISSION

ARCHITECT'S PROJECT NO. 0715

CRAIG SALLEY & ASSOCIATES, ARCHITECTS, GAINESVILLE, FLORIDA

This Addendum shall be considered part of the Contract Documents for the above mentioned Project as though it has been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence. **Bidders are hereby notified that they shall acknowledge receipt of this Addendum on their Bid Proposal Form**.

1. **PROJECT MANUAL, SECTION 10900 – MISCELLANEOUS SPECIALTIES:** Refer to Paragraph 1.01 and add Item G. MARQUEE SIGN. Contractor shall furnish and install a 3' high x 6' wide, aluminum and fiberglass, double post and panel, internally illuminated sign similar to that of Series 4210, as manufactured by Apco, Atlanta, GA, www.apcosigns.com.

   Aluminum support posts shall be rectangular, approximately 3"x 8", with support mounting plates. Provide high output, 120 V, fluorescent lamps, horizontally mounted with low temperature start up ballasts.

   Signage shall be in Helvetica lettering in color as selected by Owner and shall read as follows:

   6'-0"

   3'-0"

   COLUMBIA COUNTY
   FIRE STATION NO. 48

   LAKE CITY, FLORIDA

   Provide 12" x 12" x 48" deep footings with four #5 reinforcing bars under each support post. Bolt support posts mounting plates to concrete supports with 3/8" by L.A.R. for 120 mph wind loading. Provide all electrical connections, disconnect, all as required for a complete Code compliant installation. See Sheet E-1 of the Drawings for location, electrical requirements, etc. Final location of sign to be determined by the Owner.

2. **PROJECT MANUAL, SECTION 13120 – PREFABRICATED METAL BUILDING: Kirby Building Systems, Rigid Building Systems and Mesco Building Solutions** metal building manufacturers and are **not approved** to bid on this project, as the time for requesting substitutions has expired. No more metal building manufacturers will be approved on this project.

3. **PROJECT MANUAL, SECTION 15064 – PLASTIC PIPE AND FITTINGS:** For clarification: All PVC piping on this project shall be **Schedule 40 solid wall PVC piping.** All PVC pipe shall bear the ASTM number and NSF seal. **Foam core PVC is not allowed on this project.**

4. **PROJECT MANUAL, SECTION 15450 – PLUMBING FIXTURES:** Refer to Fixture P-6 EYEWASH. Change Model No. to 8320. **Delete the Thermostatic mixing valve. There is no hot water serving this fixture.** The Dust Cover and Foot Treadle accessories remain and are to be furnished.

5. **PROJECT MANUAL, SECTION 15771 – SPLIT SYSTEM AIR CONDITIONING UNITS:** Refer to SPLIT-SYSTEM AIR CONDITIONERS, Paragraph B. Outdoor Unit and revise Subparagraph 1 as follows:

   1. Outdoor unit shall be designed for use with Refrigerant R22 and contain sufficient charges (R22) for complete system, as indicated on the schedule on the drawings. Brass service valves with refrigerant line fittings and service ports shall be located on exterior of unit.

6. **PROJECT MANUAL, SECTION 16610 – SURGE SUPPRESSION:** Refer to Part 2 Products, Acceptable Manufacturers and add the following manufacturer as approved on this project: **Siemens Energy and Automation.**

7. **DRAWINGS, SHEET E-1:** Delete the Oil Interceptor and associated alarm circuit and Alarm Control Panel. There is no oil interceptor required on this project.

8. **DRAWINGS, SHEET E-2.1:** Change Light Fixtures "G" (400 watt Metal Halide) to Lithonia Fixture No. 454L with four, 54W T5HO lamps. Provide supports as required to suspend fixtures at 15' above finish floor.

   Provide and install a total of three Pass and Seymour, Power Packs & Add-A-Relay (one for every four lights in each Apparatus Bay) Catalog No. PWP120.

   Provide and install a total of six Pass and Seymour, Occupancy & Vacancy Sensors – Passive Infrared Sensors (two sensors per quad group of fixtures in each Apparatus Bay). Install sensors on opposite sides of bays above the roll-up doors. Provide Uni-strut or other supports for mounting sensors to the structure. Provide all conduit and wire as required for the installation of the Power Packs and Occupancy Sensors.

9. DRAWINGS, SHEET E-4:

A. Panel "MD" Panel Schedule: Panel "MD" shall be M.L.O.

B. Wire/Conduit Schedule: Item #4 shall read '4-600KCMIL, 1/0G, IN 4" PVC SCH 40'.

C. Wire/Conduit Schedule: Item #11 shall read '4-350KCMIL, #2G, IN 4" PVC SCH 40'.

D. Electrical Riser Diagram: Main Service Disconnect (labeled as 'DISC') shall be fused at 400 Amps.

E. Electrical Riser Diagram: Delete grounding electrode from Emergency Backup Generator.

GENERAL NOTE: PROVIDE NEMA 3, EXTERIOR, WEATHER TIGHT, TYPE SWITCH GEAR, DISCONNECTS, ETC. AT ALL EXTERIOR LOCATIONS

END OF WRITTEN ADDENDUM

July 28, 2008 e-mail

ADDENDUM NO. 3

TO THE DRAWINGS AND PROJECT MANUAL
FOR
FIRE STATION
RACE TRACK LANE, LAKE CITY, FL
COLUMBIA COUNTY BOARD OF COUNTY COMMISSION

ARCHITECT'S PROJECT NO. 0715

CRAIG SALLEY & ASSOCIATES, ARCHITECTS, GAINESVILLE, FLORIDA

This Addendum shall be considered part of the Contract Documents for the above mentioned Project as though it has been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence. **Bidders are hereby notified that they shall acknowledge receipt of this Addendum on their Bid Proposal Form**.

1. **ADDENDUM NO. 1 – ITEM NO. 21:** For clarification, fertilizing and laying sod shall be as described in Section 02938 of the Project Manual and shall be provided at 10'-0" minimum beyond all new construction, including concrete sidewalks and asphalt paving, and at the new retention area.

2. **ADDENDUM NO. 2, ITEM NO. 8 – "G" LIGHT FIXTURE:** Clarification on the requirements for the "G" Fixture specified in Addendum No. 2 is as follows: The catalogue number for the Lithonia fixture specified is IB 454L, I-Beam Series. The distribution shall be WDS-wide distribution, no uplight. The voltage shall be 120 volt. The ballast configuration shall be 2/2 – Two, two-lamp ballasts. Lamps shall be F54T5HD/841.

   Provide all "G" fixtures with the following options: Occupancy Sensor pre-wired; aircraft cable "Y" hangers; zinc-coated wireguard.

3. **PROJECT MANUAL, SECTION 13120 – PREFABRICATED METAL BUILDING:** Refer to Paragraph 2.03, Subparagraphs B and C. For clarification, the anchor bolts shall be 18" in total length with 3" bends. The metal building manufacturer shall provide the quantity and diameters (3/4" minimum) of the anchor bolts. Templates shall be provided by the General Contractor based on the layout details of the anchor bolts provided by the metal building manufacturer.

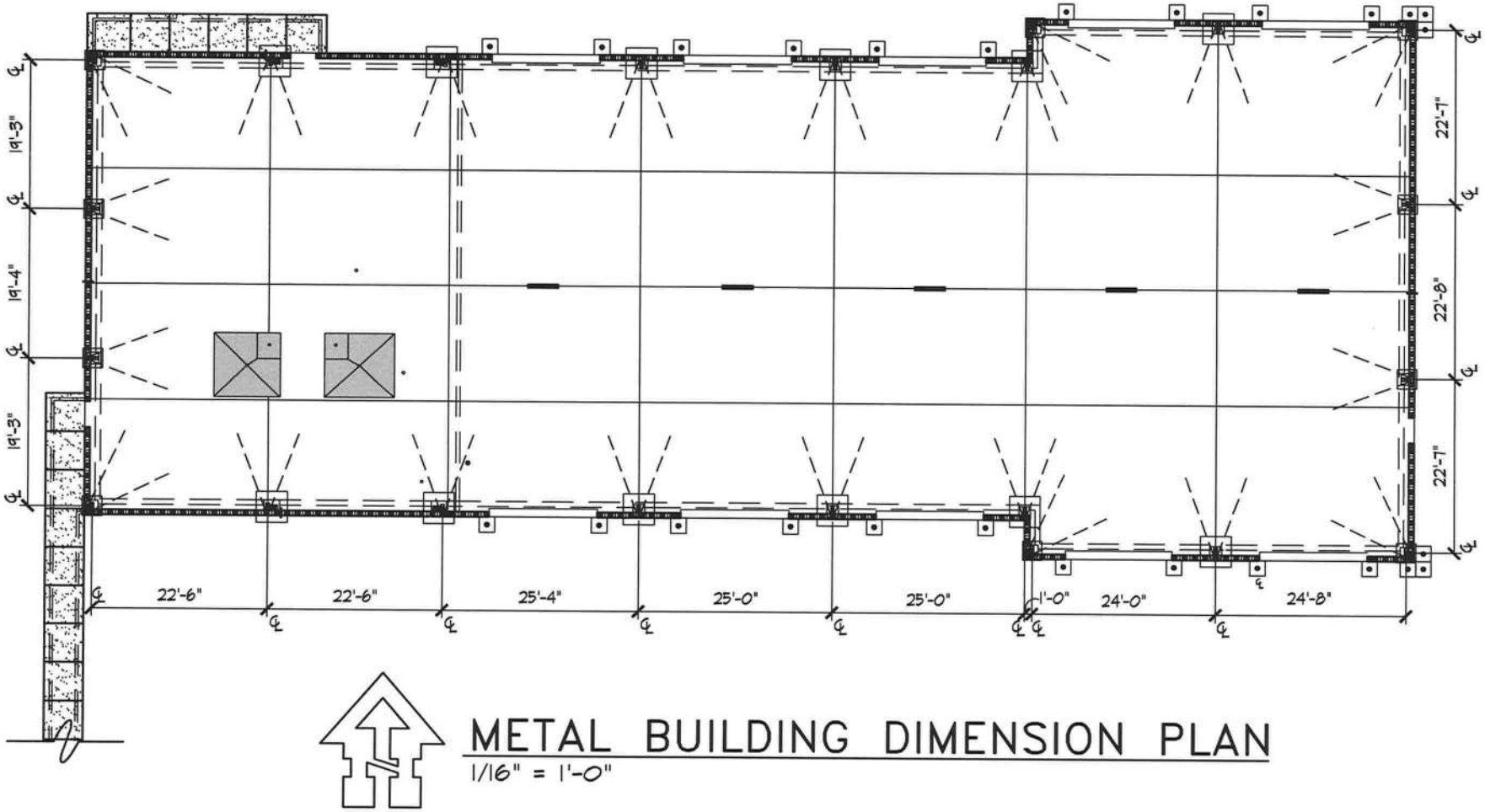
4. **PROJECT MANUAL, SECTION 15060 – PIPE AND FITTINGS:** General Note: Use galvanized iron water supply piping from required depth to plumbing fixtures on all exterior applications, including hose bibbs and backflow preventor piping. Coat all G.I. water supply piping below grade or passing through concrete slabs with bitumastic coating.

5. **ADDENDUM NO. 2 AND PROJECT MANUAL, SECTION 15061 – STEEL PIPE AND FITTINGS:** The gas piping above grade and above slab shall be black steel pipe rated for gas service, per Addendum No. 2. The gas piping below grade shall be as originally specified in Section 15061 Steel Pipe and Fittings, Part 1 General, System Description, C Natural Gas Below Slab or Grade.

6. **PROJECT MANUAL, SECTION 16100 – BASIC MATERIALS & METHODS:** Refer to PART 2 – PRODUCTS, CONDUIT and add the following: Use galvanized rigid metal piping risers from required depth to electrical panel or device boxes in all exterior exposed applications. Coat galvanized rigid pipe with bitumastic coating at all below grade locations and anywhere piping penetrates concrete slabs.

7. **DRAWINGS, SHEET A-1 – FOUNDATION PLAN:** When the Foundation Plan was plotted, the dimension layer was not turned on. Refer to Attachment "A" for dimensions for the prefabricated metal building frame.

END OF WRITTEN ADDENDUM



METAL BUILDING DIMENSION PLAN

1/16" = 1'-0"

FILE NO. 0715

July 29, 2008 e-mail

ADDENDUM NO. 4

TO THE DRAWINGS AND PROJECT MANUAL
FOR
FIRE STATION
RACE TRACK LANE, LAKE CITY, FL
COLUMBIA COUNTY BOARD OF COUNTY COMMISSION

ARCHITECT'S PROJECT NO. 0715

CRAIG SALLEY & ASSOCIATES, ARCHITECTS, GAINESVILLE, FLORIDA

This Addendum shall be considered part of the Contract Documents for the above mentioned Project as though it has been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence. **Bidders are hereby notified that they shall acknowledge receipt of this Addendum on their Bid Proposal Form.**

1. **ADDENDUM NO. 2:** Refer to Item No. 2. After further review, Rigid Building Systems and Mesco Building Solutions submitted pre-bid substitution requests in a timely manner and therefore are approved metal building manufacturers for this project.

2. **PROJECT MANUAL, SECTION 08710 – FINISH HARDWARE:** Refer to Hardware Set 04 and delete it. Doors 114A, 115A and 116A shall be moved to Hardware Set 05. In addition, a kickplate, 8400 10" x 1" LDW, shall be added to Hardware Set 05.

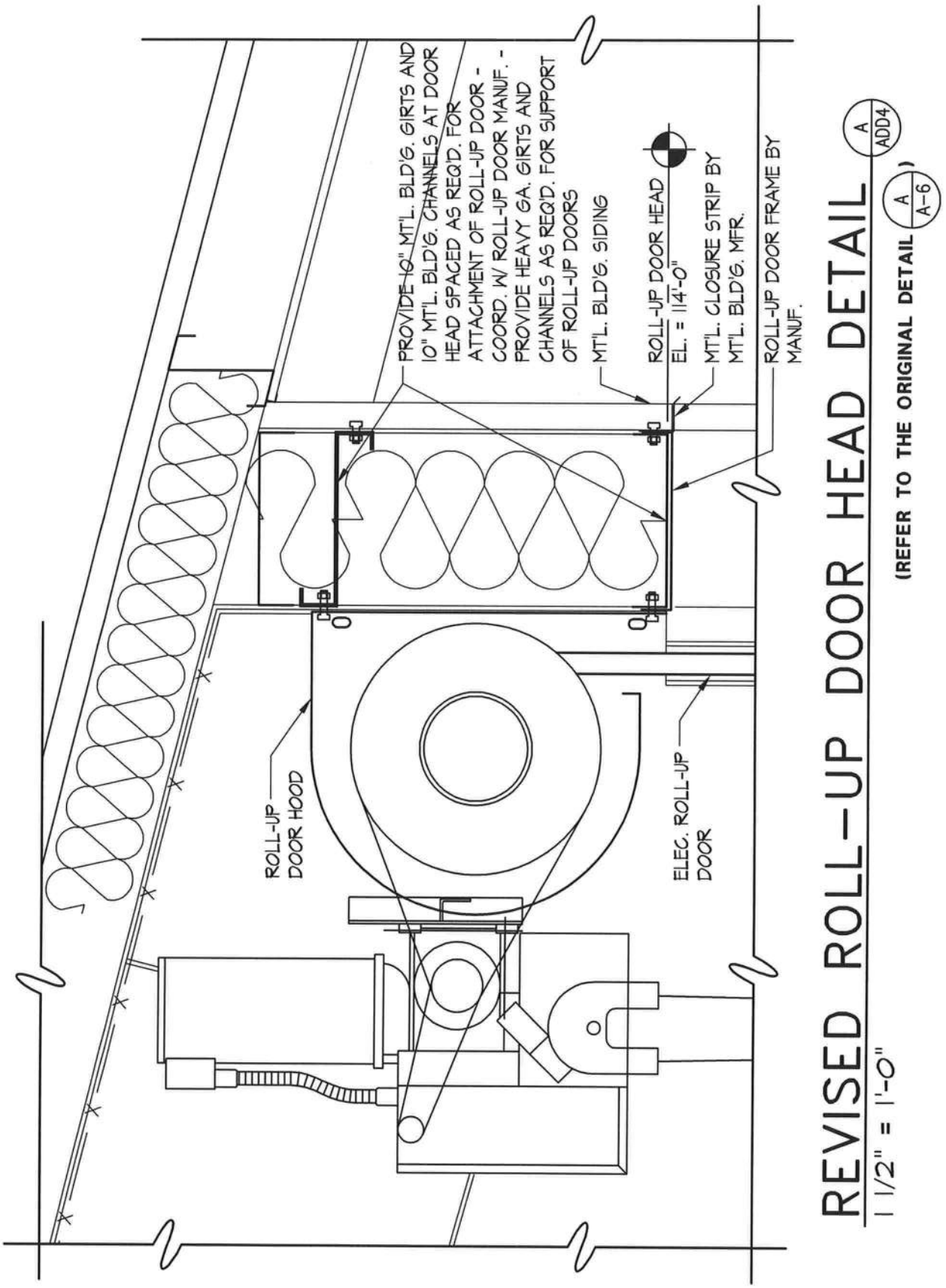
3. **PROJECT MANUAL, SECTION 13120 – PREFABRICATED METAL BUILDING:** A collateral load of 5 psf shall be provided to the metal building frame design. The 5 psf is for items to be suspended from the frame, including the sprinkler piping, suspended ceiling grid and tile, ductwork and lighting.

4. **DRAWINGS, SHEET A-6 – BUILDING SECTIONS:** Refer to Roll-Up Door Head Detail A/A-6 and Roll-Up Door Jamb Detail B/A-6 and replace them with Attachments "A" and "B" which revise these details and increase the size of all the metal building girts to 10" deep, as required for the 140 M.P.H. wind loading. Make all adjustments throughout the Documents required to accommodate this change.

5. **DRAWINGS, SHEET A-7 – WALL SECTIONS:** Refer to Attachment Detail B/A-7 and replace it with Attachment "C" that increases the depth of the metal building frame girts (wall thickness) to 10" deep, as required for the 140 M.P.H. wind loading. Make all adjustments throughout the Documents required to accommodate this change.

END OF WRITTEN ADDENDUM

ATTACHMENT "A"

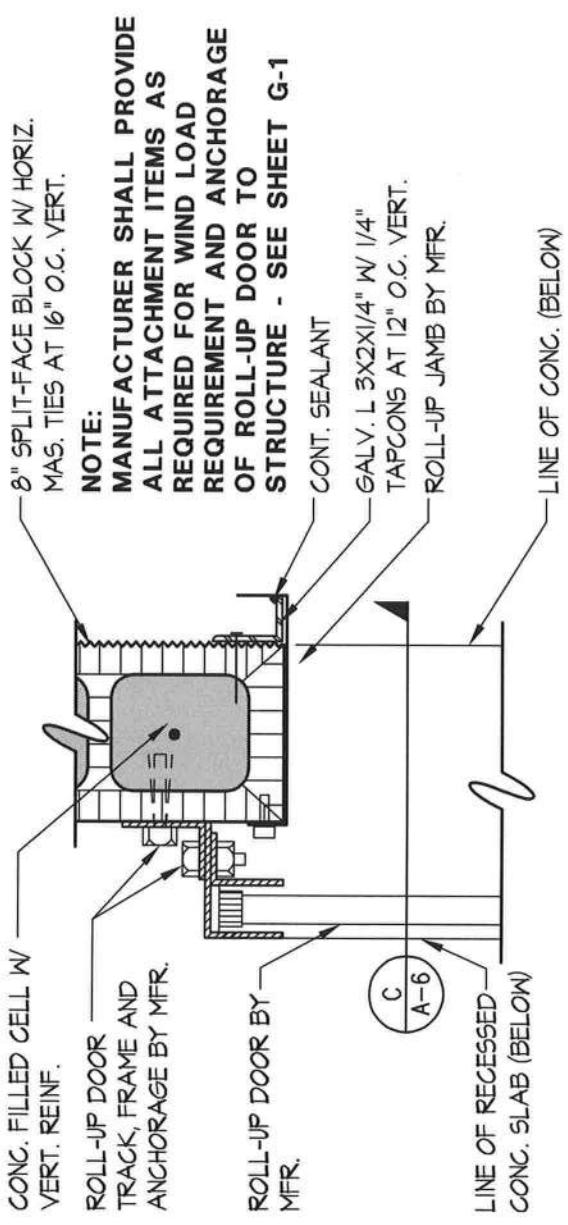


REVISED ROLL-UP DOOR HEAD DETAIL (A/ADD4)

1 1/2" = 1'-0"

(REFER TO THE ORIGINAL DETAIL (A/A-6))

ATTACHMENT "B"



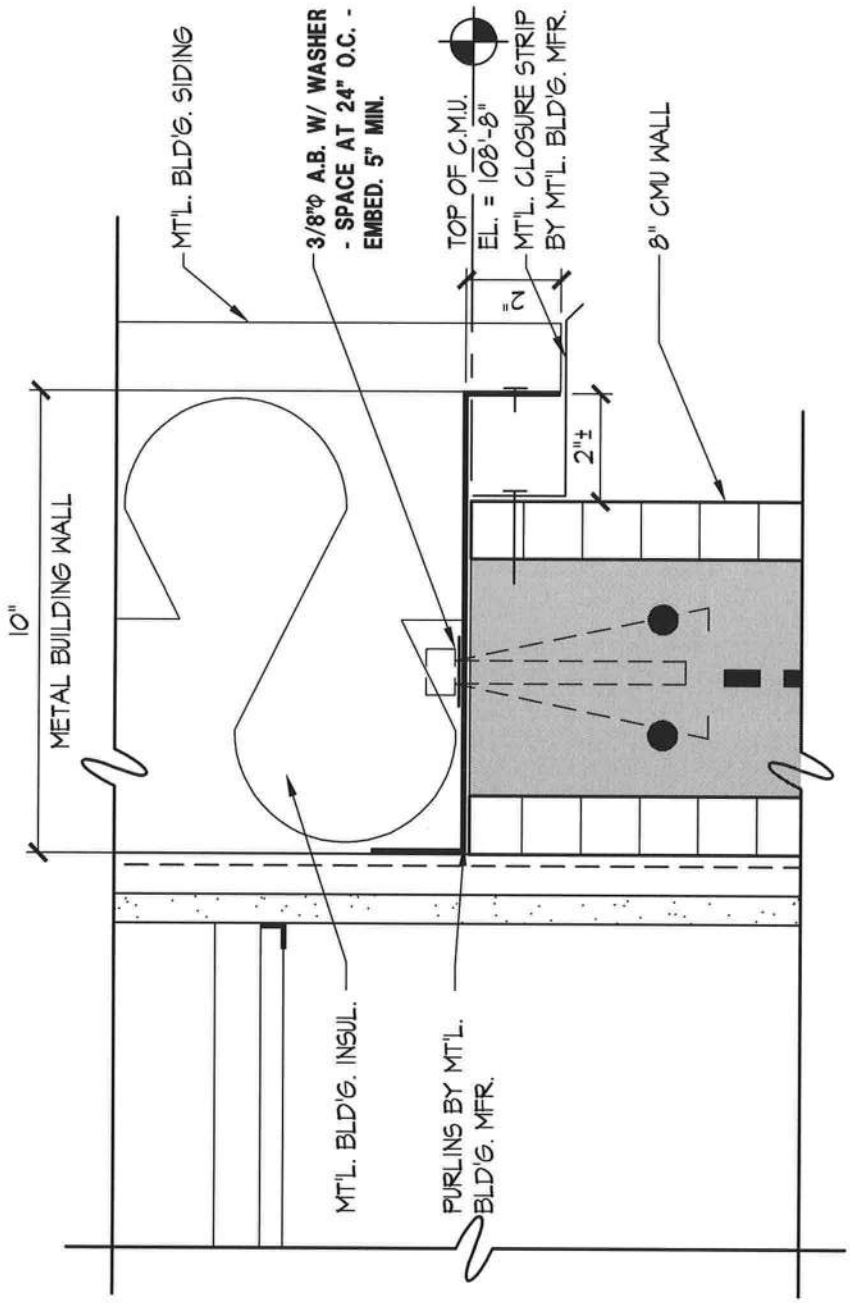
REVISED ROLL-UP DOOR JAMB DETAIL

B ADD4

1 1/2" = 1'-0"

(REFER TO THE ORIGINAL DETAIL B A-6)

ATTACHMENT "C"



ATTACHMENT DETAIL (C / ADD4)

3" = 1'-0" (REFER TO THE ORIGINAL DETAIL (B / A-7))

July 30, 2008 e-mail

ADDENDUM NO. 5

TO THE DRAWINGS AND PROJECT MANUAL
FOR
FIRE STATION
RACE TRACK LANE, LAKE CITY, FL
COLUMBIA COUNTY BOARD OF COUNTY COMMISSION

ARCHITECT'S PROJECT NO. 0715

CRAIG SALLEY & ASSOCIATES, ARCHITECTS, GAINESVILLE, FLORIDA

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1. **PROJECT MANUAL, SECTION 02200 – EARTHWORK:** Refer to Paragraph 3.09 – DISPOSAL OF EXCESS EXCAVATING MATERIALS and revise as follows:

   A. Waste all excess excavated material not required for backfill or filling **on site,** to agree with Note 10 on Sheet C-1.

2. **PROJECT MANUAL, SECTION 15064 – PLASTIC PIPE AND FITTINGS, DRAWINGS, SHEET C-2 – SITE PLAN AND DRAWINGS, SHEET FP-1 – FIRE PROTECTION/SPRINKLER SYSTEM:**

   A. Clarification on Certification/Licensing required for installing the Fire Protection Water Supply Line: The backflow device is called out on Civil Drawings C-2 and Detail B. The fire protection water supply line from the City installed tap, through the backflow preventer and to the building shall be installed by a State Certified and Licensed Fire Protection Contractor. **A Utility Contractor License is not sufficient.**

   B. Clarification: Refer to Section 15064 for the specification for below grade PVC fire protection pipe specification.

END OF WRITTEN ADDENDUM

PROJECT MANUAL
CIVIL ENGINEERING / ARCHITECTURAL / M/E/P
FOR

FIRE STATION
RACE TRACK LANE, LAKE CITY, FL
FOR

COLUMBIA COUNTY
BOARD OF COUNTY COMMISSION

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Alnis Banga, P.E. Principal Engineer

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MECHANICAL & ELECTRICAL ENGINEERS
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Phone: 352.472.5151 Fax: 352.472.5159

ARCHITECT'S PROJECT NO. 0715

BID/PERMIT DOCUMENTS

DATE: JULY 1, 2008

SET NO._____