DATE 09/05/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000026195

APPLICANT RUSSELL NORTH PHONE 752-6806

ADDRESS 187 NW FOREST MEADOWS AVE LAKE CITY FL 32055

OWNER CLIFFORD ADDISON PHONE 752-7200

ADDRESS 222 SW CR 252B LAKE CITY FL 32055

CONTRACTOR RUSSELL NORTH PHONE 752-6806

LOCATION OF PROPERTY 90W, TL ON CR 252, PAST DEPUTY J. DAVIS LANE, ANIMAL HOSPITAL ON RIGHT

TYPE DEVELOPMENT ADDITION TO COMM. ESTIMATED COST OF CONSTRUCTION 268800.00

HEATED FLOOR AREA _____ TOTAL AREA 2400.00 HEIGHT _____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 1/12 FLOOR SLAB

LAND USE & ZONING CHI MAX. HEIGHT 15

Minimum Set Back Requirments: STREET-FRONT 20.00 REAR 15.00 SIDE 5.00

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

PARCEL ID 34-3S-16-02493-002 SUBDIVISION _____

LOT _____ BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES _____

_____	_____	CGC010421	Russell North
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor

EXISTING	07-619	BK	JH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE, ADDITION TO EXISTING USE

Check # or Cash 5495

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 $ 1345.00 CERTIFICATION FEE $ 12.00 SURCHARGE FEE $ 12.00

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

FLOOD DEVELOPMENT FEE $ _____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ _____ **TOTAL FEE** 1444.00

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."

This Permit Must Be Prominently Posted on Premises During Construction

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

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

1/

Cert. Copy 4.50

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

File No. 07-303

Inst:200712018169 Date:8/10/2007 Time:1:34 PM
DC,P.DeWitt Cason ,Columbia County Page 1 of 3

PERMIT NO._____ **TAX FOLIO NO.:** R02493-002

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

1. Description of property:

SEE EXHIBIT "A" ATTACHED HERETO
FOR LEGAL DESCRIPTION

2. General description of improvement: Construction of addition to animal hospital.

3. Owner information:

a. Name and address: ADDISON ANIMAL HOSPITAL, INC., 222 SW CR 252-B, Lake City, Florida 32024.

b. Interest in property: Fee Simple

c. Name and address of fee simple title holder (if other than Owner):

4. Contractor: RUSSELL NORTH CONSTRUCTION, INC., 187 NW Forest Meadows Avenue, Lake City, Florida 32055.

Contractor's Telephone Number: 386-752-6806 .

5. Surety

a. Name and address: None

6. Lender: PEOPLES STATE BANK, 350 SW Main Boulevard, Lake City, Florida 32025.

Lender's Telephone Number: 386-754-0002 .

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: None

8. In addition to himself, Owner designates EDWARD B. WOODBERY, III, Vice President of PEOPLES STATE BANK, 350 SW Main Boulevard, Lake City, Florida 32025 to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By Sharon Teagle
Deputy Clerk
Date 08-10-2007

CLERK CIRCUIT COURT
COLUMBIA COUNTY, FLORIDA

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

ADDISON ANIMAL HOSPITAL, INC.

By: _____
Clifford M. Addison
President

The foregoing instrument was acknowledged before me this 10th day of August 2007, by CLIFFORD M. ADDISON, President of ADDISON ANIMAL HOSPITAL, INC., a Florida corporation, on behalf of the corporation. He is personally known to me and did not take an oath.

_____
Notary Public
My commission expires: _____

TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

EXHIBIT "A"

TOWNSHIP 3 SOUTH - RANGE 16 EAST

SECTION 34: A part of the SW 1/4 of the SE 1/4 of Section 34, Township 3 South, Range 16 East, more particularly described as follows: Commence at the intersection of the East Line of said SW 1/4 of the SE 1/4 and the West Right-of-Way Line of County Road No. 252-B and run N 3°20'26"E, along said West Right-of-Way Line, 223.03 feet for a POINT OF BEGINNING; thence N 86°39'34"W, 300.00 feet; thence N 3°20'26"E, 150.00 feet; thence S 86°39'34"E, 300.00 feet to the West Right-of-Way Line of said County Road No. 252-B; thence S 3°20'26"W, along said West Right-of-Way Line, 150.00 feet to the POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.

Columbia County Building Permit Application

CK#

For Office Use Only Application # 07 08-34 Date Received 8/13/07 By ____ Permit # 26195

Application Approved by - Zoning Official BLK Date 22.08.07 Plans Examiner OKJH Date 8-31-07

Flood Zone Per Survey Development Permit N/A Zoning CH I Land Use Plan Map Category Highway Interchange

Comments Addition to existing use

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

Name Authorized Person Signing Permit Russell North Fax 386 758 4570 Phone 386 752 6806

Address 187 N.W. Forest Meadows Av.

Owners Name Clifford Addison Phone 752 7200

911 Address 222 SW CR 252 B

Contractors Name Russell North Phone 752 6806

Address 187 NW Forest Meadows Av.

Fee Simple Owner Name & Address Clifford Addison ~~ET~~

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Meta-design Architecture, LLC PO Box 1131 Gainesville, Fl. 32602
~~Caussaux & Ellington Inc. 604 NW 1st Place Gainesville, Fl~~

Mortgage Lenders Name & Address Peoples State Bank LC 32507 32055

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Ene

Property ID Number 34-3S-16-02493-002 Estimated Cost of Construction 268,800

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

Driving Directions U.S. 90 W to 252-B ½ mile on Rt

Type of Construction Addition to Animal Hospital Number of Existing Dwellings on Property 1 Bldg

Total Acreage 1.03Ac± Lot Size 1.03Ac± Do you need a - Culvert Permit or Culvert Waiver or Have an Existing D

Actual Distance of Structure from Property Lines - Front 45' Side 42'Rt Side 65'Lt Rear 125'

Total Building Height 15' Number of Stories 1 Heated Floor Area 2400 New Roof Pitch 4/12

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

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

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

Owner Builder or Authorized Person by Notarized Letter

Russell North
Contractor Signature

Contractors License Number CGC010421

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 6th day of August 2007.

Personally known X or Produced Identification ____

Notary Public State of Florida
Eloise Reynolds
My Commission DD447190
Expires 07/04/2009

Notary Signature

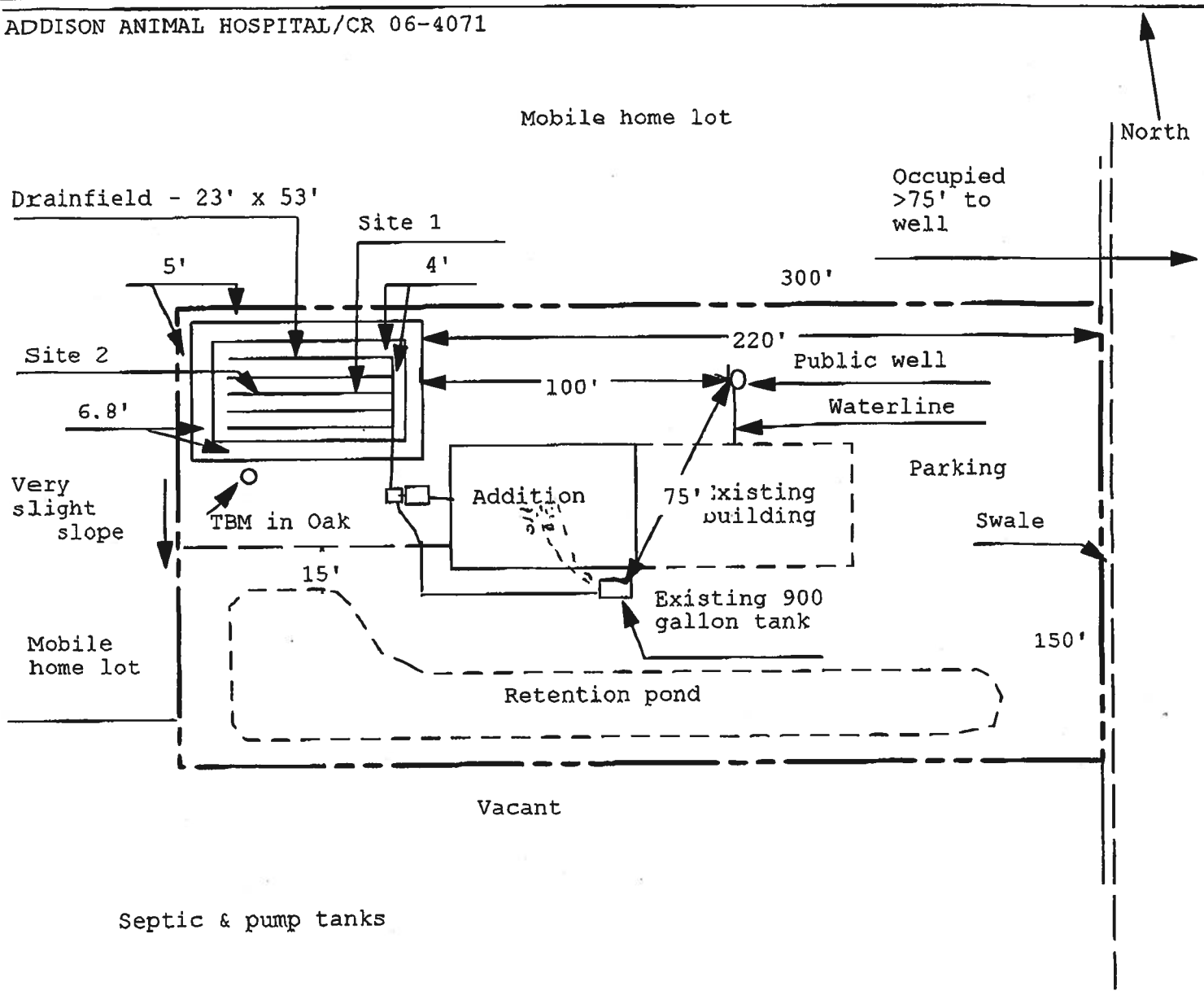
(Revised Sept. 20

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

Permit Application Number: 07-0619

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

ADDISON ANIMAL HOSPITAL/CR 06-4071



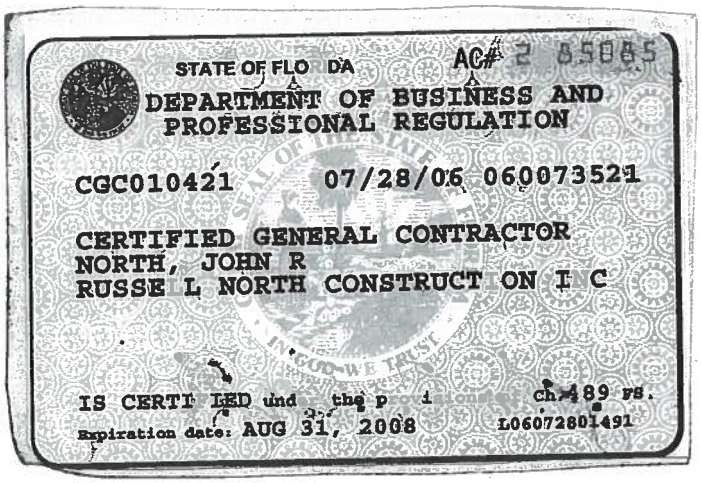
Site Plan Submitted By Paul Lloyd **Date** _____

Plan Approved ✓ **Not Approved** _____ **Date** 8/13/07

By _____ Columbia **CPHU**

Notes: _____

REVISED 8-7-07



STATE OF FLO DA

AC# 2 85085

DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

CGC010421 07/28/06 060073521

CERTIFIED GENERAL CONTRACTOR
NORTH, JOHN R
RUSSE L NORTH CONSTRUCT ON I C

IS CERTI LED und the p i ch. 489 FS.

Expiration date: AUG 31, 2008 L06072801491

Rec. 6.00
Doc. 275.00

Return to:
Name TERRY McDAVID
Address Post Office Box 1328
Lake City, Florida 32056-1328

Property Appraiser's Parcel Identification No. 34-3S-16-02493-000

0718 00395

OFFICIAL RECORDS

This instrument was prepared by:
Name TERRY McDAVID
Address Post Office Box 1328
LAKE CITY, FLORIDA 32056-1328

DOCUMENTARY STAMP 275.00
INTANGIBLE TAX -0-
P. DeWITT CASON, CLERK OF COURTS, COLUMBIA COUNTY
BY [signature]

FILED AND RECORDED

Grantee S.S. No. 553-70-2319
Name Clifford M. Addison
Grantee S.S. No. 261-11-6541
Name Marjorie F. Addison

90 05012

(Space above this line for recording data.)

WARRANTY DEED (STATUTORY FORM — SECTION 689.02, F.S.)

This Indenture, made this 4th day of May 1990, **Between**

CLYDE B. MUSGROVE, as Trustee Under The Provisions of That Certain Trust Agreement Dated June 24, 1987,

of the County of Columbia, State of Florida, grantor*, and

CLIFFORD M. ADDISON and his wife, MARJORIE F. ADDISON,

whose post office address is Post Office Box 446, Branford, Florida 32008
of the County of Suwannee, State of Florida, grantee*.

Witnesseth that said grantor, for and in consideration of the sum of
Ten and no/100-- Dollars,
and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

TOWNSHIP 3 SOUTH - RANGE 16 EAST

SECTION 34: A part of the SW¼ of the SE¼ of Section 34, Township 3 South, Range 16 East, more particularly described as follows: Commence at the intersection of the East Line of said SW¼ of the SE¼ and the West Right-of-Way Line of County Road No. 252-B and run N 3°20'26"E, along said West Right-of-Way Line, 223.03 feet for a POINT OF BEGINNING; thence N 86°39'34"W, 300.00 feet; thence N 3°20'26"E, 150.00 feet; thence S 86°39'34"E, 300.00 feet to the West Right-of-Way Line of said County Road No. 252-B; thence S 3°20'26"W, along said West Right-of-Way Line, 150.00 feet to the POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

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

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

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

Signed, sealed and delivered in our presence:

[signature] — [signature] (Seal)
June N. Eggerson — Clyde B. Musgrove, As Trustee Under The Provisions of That Certain Trust Agreement dated June 24, 1987 (Seal)

STATE OF FLORIDA
COUNTY OF COLUMBIA

I HEREBY CERTIFY that on this day before me, an officer duly qualified to take acknowledgments, personally appeared
CLYDE B. MUSGROVE, as Trustee Under the Provisions of That Certain Trust Agreement dated June 24, 1987,
to me known to be the person(s) described in and who executed the foregoing instrument and acknowledged before me that he executed the same.

WITNESS my hand and official seal in the County and State last aforesaid this 4th day of May, 1990.

My commission expires: 2-12-91

Myrtle Ann McElroy
Notary Public

22-F-761-001

P DEWITT CASON
CLERK OF CIRCUIT COURT
COLUMBIA COUNTY

08/06/2007 07026529 WS
Time: 11:24
Case #: NON CASE
RUSSELL NORTH CONSTRUCTION

Trans #: 1

NC - COPIES	
NC1 NC - COPIES	1.00
Trans Total	1.00
Receipt Total	1.00
Cash Tendered	1.00
Total Received	1.00
Change Due	.00

SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT
9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

RECEIVED
MAY 14 2007

GENERAL PERMIT

PERMITTEE:
DR. CLIFFORD ADDISON
POST OFFICE BOX 446
BRANFORD, FL 32008

PERMIT NUMBER: ERP07-0157
DATE ISSUED: 05/08/2007
DATE EXPIRES: 05/08/2010
COUNTY: COLUMBIA
TRS: S34/T3S/R16E

PROJECT: ADDISON ANIMAL HOSPITAL

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

DR. CLIFFORD ADDISON
POST OFFICE BOX 446
BRANFORD, FL 32008

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource general permit is in effect for the permitted activity description below:

Construction and operation of a surface water management system serving 0.34 acres of impervious on a total area of 1.03 acres. The project shall be constructed in a manner consistent with the application package submitted by Causseaux & Ellington, Inc., and received by the District on April 13, 2007. The plans were signed and sealed by Robert J. Walpole, P.E., on April 11, 2007.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing or mediation. Please refer to enclosed notice of rights.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

Standard Conditions for All General Permits:

1. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.

2. Water quality data representative of the water discharged from the permitted system, including, but not limited to, the parameters in chapter 62-302, F.A.C., shall be submitted to the District as required. If water quality data are required, the permittee shall provide data as required on the volume and rate of discharge including the total volume discharged during the sampling period. All water quality data shall be in accordance with and reference the specific method of analysis in "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association or "Methods for Chemical Analysis of Water and Wastes" by the U.S. Environmental Protection Agency.

3. The operational and maintenance phase of an environmental resource permit will not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. If required by the District, such as-built certification shall be made by an engineer or surveyor. Within 30 days after the completion of construction of the system, the permittee shall notify the District that the facilities are complete. If appropriate, the permittee shall request transfer of the permit to the responsible entity approved by the District for operation and maintenance. The District may inspect the system and, as necessary, require remedial measures as a condition of transfer of the permit or release for operation and maintenance of the system.

4. Off-site discharges during and after construction shall be made only through the facilities authorized by the permit. Water discharged from the project shall be through structures suitable for regulating upstream stage if so required by the District. Such discharges may be subject to operating schedules established by the District.

5. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and chapter 40B-1, F.A.C.

6. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance, alteration, abandonment, or development in a Works of the District which is authorized by the permit.

7. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

8. It is the responsibility of the permittee to obtain all other clearances, permits, or authorizations required by any unit of local, state, or federal government.

9. The surfacewater management system shall be constructed prior to or concurrent with the development that the system is intended to serve and the system shall be completed within 30 days of substantial completion of the development which the system is intended to serve.

10. Except for General Permits After Notice or permits issued to a unit of government, or unless a different schedule is specified in the permit, the system shall be inspected at least once every third year after transfer of a permit to operation and maintenance by the permittee or his agent to ascertain that the system is being operated and maintained in a manner consistent with the permit. A report of inspection is to be sent to the District within 30 days of the inspection date. If required by chapter 471, F.S., such inspection and report shall be made by an engineer.

11. The permittee shall allow reasonable access to District personnel or agents for the purpose of inspecting the system to insure compliance with the permit. The permittee shall allow the District, at its expense, to install equipment or devices to monitor performance of the system authorized by their permit.

12. The surfacewater management system shall be operated and maintained in a manner which is consistent with the conditions of the permit and chapter 40B-4.2040, F.A.C.

13. The permittee is responsible for the perpetual operation and maintenance of the system unless the operation and maintenance is transferred pursuant to chapter 40B-4.1130, F.A.C., or the permit is modified to authorize a new operation and maintenance entity pursuant to chapter 40B-4.1110, F.A.C.

14. All activities shall be implemented as set forth in the plans, specifications and performance

criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.

15. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

16. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.

17. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site-specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

18. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has temporarily or permanently ceased.

19. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40B-1.901(14) indicating the actual start date and the expected completion date.

20. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40B-1.901(15). These forms shall be submitted during June of each following year.

21. For those systems which will be operated or maintained by an entity requiring an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or

maintenance documents as are required by Paragraph 40B-4.2030(2)(g), F.A.C., and Rule 40B-4.2035, F.A.C., must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of District rules will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

22. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

23. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, using the supplied As-Built Certification Form No. 40B-1.901(16) incorporated by reference in Subsection 40B-1.901(16), F.A.C. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;

b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including

cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;

c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;

d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;

e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;

f. Existing water elevation(s) and the date determined; and

g. Elevation and location of benchmark(s) for the survey.

24. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph 23 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Rule 40B-4.2035, F.A.C., accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the approved responsible operation and maintenance operating entity if different from the permittee. Until the permit is transferred pursuant to Rule 40B-4.1130, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

25. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.

26. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and in this chapter and Chapter 40B-4, F.A.C.

27. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other

lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

28. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under 40B-400.046, F.A.C., provides otherwise.

29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.

31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

Special limiting conditions made part of this permit are as follows:

32. The terms and conditions of this permit supersede those of permit number 4-90-00018 issued by the District to Columbia County Veterinary Clinic on June 4, 1990.

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by Jerry Bowden Date Approved 05/08/07

District Staff

Clerk

Executive Director

NOTICE OF RIGHTS

1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the Suwannee River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Section 120.569 and 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57 Florida Statutes. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, Florida Administrative Code.

2. If the Governing Board takes action which substantially differs from the notice of District decision to grant or deny the permit application, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may chose to pursue mediation as an alternative remedy as described above. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). Such a petition must comply with Chapter 28-106, Florida Administrative Code.

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4. A substantially interested person has the right to an informal hearing pursuant to Section 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.

5. A petition for an administrative hearing is deemed filed upon receipt of the petition by the Office of the District Clerk at the District Headquarters in Live Oak, Florida.

6. Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing pursuant to Rule 28-106.111, Florida Administrative Code.

7. The right to an administrative hearing and the relevant procedures to be followed is governed by Chapter 120, Florida Statutes, and Chapter 28-106, Florida Administrative Code.

8. Pursuant to Section 120.68, Florida Statutes, a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.

9. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy of the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.

10. For appeals to the District Courts of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.

11. Failure to observe the relevant time frames for filing a petition for judicial review, or for Commission review, will result in waiver of the right to review.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Notice of Rights has been sent by U.S. Mail to:

DR. CLIFFORD ADDISON
POST OFFICE BOX 446
BRANFORD, FL 32008

At 4:00 p.m. this 11 day of May, 2007.

Jon M. Dinges
Deputy Clerk
Suwannee River Water Management District
9225 C.R. 49

Live Oak, Florida 32060
386.362.1001 or 800.226.1066 (Florida only)

cc: File Number: ERP07-0157

SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT
9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

RECEIVED
MAY 14 2007

GENERAL PERMIT

PERMITTEE:
DR. CLIFFORD ADDISON
POST OFFICE BOX 446
BRANFORD, FL 32008

PERMIT NUMBER: ERP07-0157
DATE ISSUED: 05/08/2007
DATE EXPIRES: 05/08/2010
COUNTY: COLUMBIA
TRS: S34/T3S/R16E

PROJECT: ADDISON ANIMAL HOSPITAL

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

DR. CLIFFORD ADDISON
POST OFFICE BOX 446
BRANFORD, FL 32008

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource general permit is in effect for the permitted activity description below:

Construction and operation of a surface water management system serving 0.34 acres of impervious on a total area of 1.03 acres. The project shall be constructed in a manner consistent with the application package submitted by Causseaux & Ellington, Inc., and received by the District on April 13, 2007. The plans were signed and sealed by Robert J. Walpole, P.E., on April 11, 2007.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing or mediation. Please refer to enclosed notice of rights.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

Standard Conditions for All General Permits:

1. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.

2. Water quality data representative of the water discharged from the permitted system, including, but not limited to, the parameters in chapter 62-302, F.A.C., shall be submitted to the District as required. If water quality data are required, the permittee shall provide data as required on the volume and rate of discharge including the total volume discharged during the sampling period. All water quality data shall be in accordance with and reference the specific method of analysis in "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association or "Methods for Chemical Analysis of Water and Wastes" by the U.S. Environmental Protection Agency.

3. The operational and maintenance phase of an environmental resource permit will not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. If required by the District, such as-built certification shall be made by an engineer or surveyor. Within 30 days after the completion of construction of the system, the permittee shall notify the District that the facilities are complete. If appropriate, the permittee shall request transfer of the permit to the responsible entity approved by the District for operation and maintenance. The District may inspect the system and, as necessary, require remedial measures as a condition of transfer of the permit or release for operation and maintenance of the system.

4. Off-site discharges during and after construction shall be made only through the facilities authorized by the permit. Water discharged from the project shall be through structures suitable for regulating upstream stage if so required by the District. Such discharges may be subject to operating schedules established by the District.

5. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and chapter 40B-1, F.A.C.

6. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance, alteration, abandonment, or development in a Works of the District which is authorized by the permit.

7. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

8. It is the responsibility of the permittee to obtain all other clearances, permits, or authorizations required by any unit of local, state, or federal government.

9. The surfacewater management system shall be constructed prior to or concurrent with the development that the system is intended to serve and the system shall be completed within 30 days of substantial completion of the development which the system is intended to serve.

10. Except for General Permits After Notice or permits issued to a unit of government, or unless a different schedule is specified in the permit, the system shall be inspected at least once every third year after transfer of a permit to operation and maintenance by the permittee or his agent to ascertain that the system is being operated and maintained in a manner consistent with the permit. A report of inspection is to be sent to the District within 30 days of the inspection date. If required by chapter 471, F.S., such inspection and report shall be made by an engineer.

11. The permittee shall allow reasonable access to District personnel or agents for the purpose of inspecting the system to insure compliance with the permit. The permittee shall allow the District, at its expense, to install equipment or devices to monitor performance of the system authorized by their permit.

12. The surfacewater management system shall be operated and maintained in a manner which is consistent with the conditions of the permit and chapter 40B-4.2040, F.A.C.

13. The permittee is responsible for the perpetual operation and maintenance of the system unless the operation and maintenance is transferred pursuant to chapter 40B-4.1130, F.A.C., or the permit is modified to authorize a new operation and maintenance entity pursuant to chapter 40B-4.1110, F.A.C.

14. All activities shall be implemented as set forth in the plans, specifications and performance

criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.

15. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

16. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.

17. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site-specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

18. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has temporarily or permanently ceased.

19. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40B-1.901(14) indicating the actual start date and the expected completion date.

20. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40B-1.901(15). These forms shall be submitted during June of each following year.

21. For those systems which will be operated or maintained by an entity requiring an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or

maintenance documents as are required by Paragraph 40B-4.2030(2)(g), F.A.C., and Rule 40B-4.2035, F.A.C., must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of District rules will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

22. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

23. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, using the supplied As-Built Certification Form No. 40B-1.901(16) incorporated by reference in Subsection 40B-1.901(16), F.A.C. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;

b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including

cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;

c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;

d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;

e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;

f. Existing water elevation(s) and the date determined; and

g. Elevation and location of benchmark(s) for the survey.

24. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph 23 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Rule 40B-4.2035, F.A.C., accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the approved responsible operation and maintenance operating entity if different from the permittee. Until the permit is transferred pursuant to Rule 40B-4.1130, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

25. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.

26. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and in this chapter and Chapter 40B-4, F.A.C.

27. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other

lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

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29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.

31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

Special limiting conditions made part of this permit are as follows:

32. The terms and conditions of this permit supersede those of permit number 4-90-00018 issued by the District to Columbia County Veterinary Clinic on June 4, 1990.

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by Jessy Bowden Date Approved 05/08/07

District Staff

Clerk

Executive Director

NOTICE OF RIGHTS

1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the Suwannee River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Section 120.569 and 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57 Florida Statutes. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, Florida Administrative Code.

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9. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy of the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.

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11. Failure to observe the relevant time frames for filing a petition for judicial review, or for Commission review, will result in waiver of the right to review.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Notice of Rights has been sent by U.S. Mail to:

DR. CLIFFORD ADDISON
POST OFFICE BOX 446
BRANFORD, FL 32008

At 4:00 p.m. this 11 day of May, 2007.

Jon M. Dinges
Deputy Clerk
Suwannee River Water Management District
9225 C.R. 49

Live Oak, Florida 32060
386.362.1001 or 800.226.1066 (Florida only)

cc: File Number: ERP07-0157

STATE
PERMIT COPY

Florida Energy Efficiency Code For Building Construction

Florida Department of Community Affairs

EnergyGauge FLA/COM 2004 v3.00 -- Form 400A-2004

Method A: Whole Building Performance Method for Commercial Buildings

Effective December 8, 2006

PROJECT SUMMARY

Short Desc:	ANIMAL HOSPITAL	**Description:**	ADDISON ANIMAL HOSP
Owner:	CLIFFORD ADDISION, D.V.M.		
Address1:	222 SW CR 252B	**City:**	LAKE CITY
Address2:		**State:**	FL
		Zip:	32024
Type:	Hospital	**Class:**	Addition to existing Building
Jurisdiction:	LAKE CITY, COLUMBIA COUNTY, FL (221200)		
Cond Area:	2338 SF	**Cond & UnCond Area:**	2338 SF
No of Storeys:	1	**Area entered from Plans**	2400 SF
Permit No:	0	**Max Tonnage**	2.5
		If different, write in:	_____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Use	1,956.0	1,998.2	**PASSES**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**None Entered**
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: Glenn R Hudson Building Official: _____

Date: 5-01-07 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: _____ Reg No: AR91268

Electrical Designer: _____ Reg No: _____

Lighting Designer: _____ Reg No: _____

Mechanical Designer: _____ Reg No: _____

Plumbing Designer: _____ Reg No: _____

(*) 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.

Florida Energy Efficiency Code For Building Construction

Florida Department of Community Affairs

EnergyGauge FLA/COM 2004 v3.00 -- Form 400A-2004

Method A: Whole Building Performance Method for Commercial Buildings

Effective December 8, 2006

PROJECT SUMMARY

Short Desc:	ANIMAL HOSPITAL	**Description:**	ADDISON ANIMAL HOSP
Owner:	CLIFFORD ADDISION, D.V.M.		
Address1:	222 SW CR 252B	**City:**	LAKE CITY
Address2:		**State:**	FL
		Zip:	32024
Type:	Hospital	**Class:**	Addition to existing Building
Jurisdiction:	LAKE CITY, COLUMBIA COUNTY, FL (221200)		
Cond Area:	2338 SF	**Cond & UnCond Area:**	2338 SF
No of Storeys:	1	**Area entered from Plans**	2400 SF
Permit No:	0	**Max Tonnage**	2.5
		If different, write in:	

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Use	1,956.0	1,998.2	**PASSES**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**None Entered**
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: Glenn R Hudson Building Official: _____

Date: 5-01-07 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: _____ Reg No: AR9146

Electrical Designer: _____ Reg No: _____

Lighting Designer: _____ Reg No: _____

Mechanical Designer: _____ Reg No: _____

Plumbing Designer: _____ Reg No: _____

(*) 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: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(WEA File: JACKSONVILLE.TMY)

Whole Building Compliance

	Design	Reference
Total	*97.91*	*100.00*
	$1,956	*$1,998*
ELECTRICITY(MBtu/kWh/$)	97.91 38504 *$1,956*	100.00 39334 *$1,998*
AREA LIGHTS	22.65 8912 *$453*	24.89 9793 *$497*
MISC EQUIPMT	15.72 6185 *$314*	15.72 6185 *$314*
PUMPS & MISC	0.22 93 *$5*	0.22 87 *$4*
SPACE COOL	24.74 9739 *$495*	19.75 7752 *$394*
SPACE HEAT	2.46 960 *$49*	3.35 1325 *$67*
VENT FANS	32.12 12615 *$641*	36.07 14192 *$721*

Credits & Penalties (if any): Modified Points: = 97.92 | **PASSES**

External Lighting Compliance

Description	Category	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)

None

Project: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(WEA File: JACKSONVILLE.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compli-ance
CAT ROOM	,004	Exam/Treatment (Hospital)	270	1	1	1	PASSES
KENNELS	,001	Exercise Area (Exercise Center)	432	1	1	1	PASSES
GROOMING	,004	Exam/Treatment (Hospital)	252	1	1	1	PASSES
WORK STATION	,009	Medical Supply (Hospital)	182	1	1	1	PASSES
OFF-211	17	Office - Enclosed	198	1	1	1	PASSES
WAITING ROOM	17	Office - Enclosed	198	1	1	1	PASSES
PREP ROOM	,004	Exam/Treatment (Hospital)	252	1	1	1	PASSES
OPERATING RO(	,007	Operating Room (Hospital)	252	1	2	1	PASSES
OFFICE 203	17	Office - Enclosed	225	1	1	1	PASSES
H.C.R.R.	6	Toilet and Washroom	77	1	1	1	PASSES

PASSES

Project: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(WEA File: JACKSONVILLE.TMY)

System Report Compliance

HP-1 **System 1** — **Constant Volume Air Cooled Split System < 65000 Btu/hr** — **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		13.00	13.00	8.50		PASSES
Heating System	Air Cooled HP < 65000 Btu/h Cooling Capacity		7.70	7.70			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

HP-2 **System 2** — **Constant Volume Air Cooled Split System < 65000 Btu/hr** — **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		13.00	13.00	8.50		PASSES
Heating System	Air Cooled HP < 65000 Btu/h Cooling Capacity		7.70	7.70			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: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(WEA File: JACKSONVILLE.TMY)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	> 12 [kW]				211.7(	PASSES

PASSES

Project: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(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	0.50	False	105.00	0.28	0.75	0.50	PASSES

PASSES

Project: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(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?	☐

Florida Energy Efficiency Code For Building Construction

Florida Department of Community Affairs

EnergyGauge FLA/COM 2004 v3.00 -- Form 400A-2004

Method A: Whole Building Performance Method for Commercial Buildings

Effective December 8, 2006

PROJECT SUMMARY

Short Desc:	ANIMAL HOSPITAL	**Description:**	ADDISON ANIMAL HOSP
Owner:	CLIFFORD ADDISION, D.V.M.		
Address1:	222 SW CR 252B	**City:**	LAKE CITY
Address2:		**State:**	FL
		Zip:	32024
Type:	Hospital	**Class:**	Addition to existing Building
Jurisdiction:	LAKE CITY, COLUMBIA COUNTY, FL (221200)		
Cond Area:	2338 SF	**Cond & UnCond Area:**	2338 SF
No of Storeys:	1	**Area entered from Plans**	2400 SF
Permit No:	0	**Max Tonnage**	2.5
		If different, write in:	_____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Use	1,956.0	1,998.2	**PASSES**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**None Entered**
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: Glenn R Hudson Building Official: _____

Date: 5-01-07 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: _____ Reg No: AR91268

Electrical Designer: _____ Reg No: _____

Lighting Designer: _____ Reg No: _____

Mechanical Designer: _____ Reg No: _____

Plumbing Designer: _____ Reg No: _____

(*) 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: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(WEA File: JACKSONVILLE.TMY)

Whole Building Compliance

	Design	Reference
Total	*97.91*	*100.00*
	$1,956	*$1,998*
ELECTRICITY(MBtu/kWh/$)	97.91 38504 *$1,956*	100.00 39334 *$1,998*
AREA LIGHTS	22.65 8912 *$453*	24.89 9793 *$497*
MISC EQUIPMT	15.72 6185 *$314*	15.72 6185 *$314*
PUMPS & MISC	0.22 93 *$5*	0.22 87 *$4*
SPACE COOL	24.74 9739 *$495*	19.75 7752 *$394*
SPACE HEAT	2.46 960 *$49*	3.35 1325 *$67*
VENT FANS	32.12 12615 *$641*	36.07 14192 *$721*

Credits & Penalties (if any): Modified Points: = 97.92 | **PASSES**

External Lighting Compliance

Description	Category	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)

None

Project: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(WEA File: JACKSONVILLE.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compli-ance
CAT ROOM	,004	Exam/Treatment (Hospital)	270	1	1	1	**PASSES**
KENNELS	,001	Exercise Area (Exercise Center)	432	1	1	1	**PASSES**
GROOMING	,004	Exam/Treatment (Hospital)	252	1	1	1	**PASSES**
WORK STATION	,009	Medical Supply (Hospital)	182	1	1	1	**PASSES**
OFF-211	17	Office - Enclosed	198	1	1	1	**PASSES**
WAITING ROOM	17	Office - Enclosed	198	1	1	1	**PASSES**
PREP ROOM	,004	Exam/Treatment (Hospital)	252	1	1	1	**PASSES**
OPERATING RO(	,007	Operating Room (Hospital)	252	1	2	1	**PASSES**
OFFICE 203	17	Office - Enclosed	225	1	1	1	**PASSES**
H.C.R.R.	6	Toilet and Washroom	77	1	1	1	**PASSES**

PASSES

Project: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(WEA File: JACKSONVILLE.TMY)

System Report Compliance

HP-1 **System 1** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		13.00	13.00	8.50		PASSES
Heating System	Air Cooled HP < 65000 Btu/h Cooling Capacity		7.70	7.70			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

HP-2 **System 2** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		13.00	13.00	8.50		PASSES
Heating System	Air Cooled HP < 65000 Btu/h Cooling Capacity		7.70	7.70			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: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(WEA File: JACKSONVILLE.TMY)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	> 12 [kW]				211.7(	PASSES

PASSES

Project: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(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	0.50	False	105.00	0.28	0.75	0.50	PASSES

PASSES

Project: ANIMAL HOSPITAL
Title: ADDISON ANIMAL HOSPITAL
Type: Hospital
(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	☐
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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?	☐

PERMIT COPY

EnergyGauge FLA/COM 2004 v3.00

INPUT DATA REPORT

Project Information

Project Name: ANIMAL HOSPITAL
Project Title: ADDISON ANIMAL HOSPITAL
Address: 222 SW CR 252B

State: FL
Zip: 32024

Owner: CLIFFORD ADDISION, D.V.M.

Orientation: East
Building Type: Hospital
Building Classification: Addition to existing Building

No.of Storeys: 1
GrossArea: 2338 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	ONE	Zone 1	CONDITIONED	1136.0	1	1136.0	☐
2	TWO	Zone 2	CONDITIONED	1202.0	1	1202.0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]	
In Zone: ONE										
1	CAT ROOM	Zo0Sp1	Exam/Treatment (Hospital)	15.00	18.00	9.00	1	270.0	2430.0	☐
2	KENNELS	Zo0Sp2	Exercise Area (Exercise Center)	18.00	24.00	9.00	1	432.0	3888.0	☐
3	GROOMING	Zo0Sp3	Exam/Treatment (Hospital)	18.00	14.00	9.00	1	252.0	2268.0	☐
4	WORK STATI	Zo0Sp4	Medical Supply (Hospital)	26.00	7.00	9.00	1	182.0	1638.0	☐
In Zone: TWO										
1	OFF-211	Zo0Sp1	Office - Enclosed	18.00	11.00	8.00	1	198.0	1584.0	☐
2	WAITING RO	Zo2Sp2	Office - Enclosed	18.00	11.00	8.00	1	198.0	1584.0	☐
3	PREP ROOM	Zo2Sp3	Exam/Treatment (Hospital)	18.00	14.00	8.00	1	252.0	2016.0	☐
4	OPERATING	Zo2Sp4	Operating Room (Hospital)	18.00	14.00	8.00	1	252.0	2016.0	☐
5	OFFICE 203	Zo2Sp5	Office - Enclosed	18.00	12.50	8.00	1	225.0	1800.0	☐
6	H.C.R.R.	Zo2Sp6	Toilet and Washroom	7.00	11.00	8.00	1	77.0	616.0	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: ONE								
In Space: CAT ROOM								
1	Recessed Fluorescent - No vent	General Lighting	2	160	320	Manual On/Off	1	☐
In Space: KENNELS								
1	Recessed Fluorescent - No vent	General Lighting	3	120	360	Manual On/Off	1	☐
In Space: GROOMING								
1	Recessed Fluorescent - No vent	General Lighting	3	120	360	Manual On/Off	1	☐

In Space:	**WORK STATION**							
1	Recessed Fluorescent - No vent	General Lighting	2	120	240	Manual On/Off	1	☐
In Zone:	**TWO**							
In Space:	**OFF-211**							
1	Recessed Fluorescent - No vent	General Lighting	2	120	240	Manual On/Off	1	☐
In Space:	**WAITING ROOM**							
1	Recessed Fluorescent - No vent	General Lighting	2	105	210	Manual On/Off	1	☐
In Space:	**PREP ROOM**							
1	Recessed Fluorescent - No vent	General Lighting	2	160	320	Manual On/Off	1	☐
In Space:	**OPERATING ROOM**							
1	Recessed Fluorescent - No vent	General Lighting	2	120	240	Manual On/Off	1	☐
2	Incandescent	General Lighting	1	300	300	Manual On/Off	1	☐
In Space:	**OFFICE 203**							
1	Recessed Fluorescent - No vent	General Lighting	2	120	240	Manual On/Off	1	☐
In Space:	**H.C.R.R.**							
1	Suspended Fluorescent	General Lighting	1	80	80	Manual On/Off	1	☐

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:	**ONE**											
1	Pr0Zo1Wa1	0.5 Pol/35/8" Mtl std@24"oc/R19/0.5" Gyp	20.00	9.00	1	180.0	North	0.0423	1.011	8.57	23.7	☐
2	Pr0Zo1Wa2	0.5 Pol/35/8" Mtl std@24"oc/R19/0.5" Gyp	36.00	9.00	1	324.0	South	0.0423	1.011	8.57	23.7	☐
3	Pr0Zo1Wa3	0.5 Pol/35/8" Mtl std@24"oc/R19/0.5" Gyp	40.00	9.00	1	360.0	West	0.0423	1.011	8.57	23.7	☐
In Zone:	**TWO**											

1	Pr0Zo2Wa1	0.5 Pol/35/8" Mtl std@24"oc/R19/0.5" Gyp	40.00	8.00	1	320.0	North	0.0423	1.011	8.57	23.7
2	Pr0Zo2Wa2	0.5 Pol/35/8" Mtl std@24"oc/R19/0.5" Gyp	22.00	8.00	1	176.0	South	0.0423	1.011	8.57	23.7

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]
In Zone: ONE										
In Wall: NORTH WALL										
1	Pr0Zo1Wa1Wi1	User Defined	No	1.2500	0.82	0.76	5.00	4.00	4	80.0
In Wall: SOUTH WALL										
1	Pr0Zo1Wa2Wi1	User Defined	No	1.2500	0.82	0.76	10.00	2.00	1	20.0
In Wall: WEST WALL										
1	Pr0Zo1Wa3Wi1	User Defined	Yes	1.2500	0.82	0.76	5.00	2.67	2	26.7
In Zone: TWO										
In Wall: NORTH WALL										
1	Pr0Zo2Wa1Wi1	User Defined	No	1.2500	0.82	0.76	3.00	4.00	2	24.0
In Wall: SOUTH WALL										
1	Pr0Zo2Wa2Wi1	User Defined	No	1.2500	0.82	0.76	4.00	4.00	2	32.0

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]
In Zone: ONE											
In Wall: WEST WALL											
1	Pr0Zo1Wa3Dr1	Fiberglass/Mineral wool core	No	3.00	7.00	1	21.0	1.2244	0.00	0.00	0.82

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: ONE											
1	Pr0Zo1Rf1	Mtl Bldg Roof/R-19 Batt	30.00	35.20	1	1056.0	0.00	0.0492	1.34	9.49	20.3
In Zone: TWO											
1	Pr0Zo2Rf1	Mtl Bldg Roof/R-19 Batt	40.00	30.00	1	1200.0	0.00	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: ONE										
1	Pr0Zo1Fl1	1 ft. soil, concrete floor, carpet and rubber pad	30.00	35.20	1	1056.0	0.1745	54.00	108.00	5.73
In Zone: TWO										
1	Pr0Zo2Fl1	1 ft. soil, concrete floor, carpet and rubber pad	40.00	30.00	1	1200.0	0.1745	54.00	108.00	5.73

Systems

HP-1	System 1	Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units 1	
Component	**Category**	**Capacity**	**Efficiency**	**IPLV**	
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	30000.00	13.00	8.50	☐
2	Heating System (Air Cooled HP < 65000 Btu/h Cooling Capacity)	28000.00	7.70		☐
3	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	1000.00	0.80		☐

HP-2	System 2	Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units 1	
Component	**Category**	**Capacity**	**Efficiency**	**IPLV**	
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	24000.00	13.00	8.50	☐
2	Heating System (Air Cooled HP < 65000 Btu/h Cooling Capacity)	22000.00	7.70		☐
3	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	800.00	0.80		☐

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV	
						☐

Water Heaters

W-Heater Description	CapacityCap.Unit	I/P Rt.	Efficiency	Loss	
1 Electric water heater	30 [Gal]	4500 [kW]	[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]

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	0.50	0.75	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]
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000
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
218	Matl218	POLYURETHANE,EXP.,1/2 IN,	No	3.2077	0.0417	0.0130	1.50	0.3800
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

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]
1018	0.5 Pol/35/8" Mtl std@24"oc/R19/0.5" Gyp	No	No	0.04	1.01	8.57	23.7

Layer	Material No.	Material	Thickness [ft]	Framing Factor
1	218	POLYURETHANE,EXP.,1/2IN,	0.0417	0.000
2	23	6 in. Insulation	0.5000	0.000
3	187	GYP OR PLAS BOARD,1/2IN	0.0417	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]
1029	Fiberglass/Mineral wool core	No	Yes	1.22			0.8

Layer	Material No.	Material	Thickness [ft]	Framing Factor
1	280	Fiberglass/Mineral wool core		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]	
1047	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	☐

PERMIT COPY

S/N RNW20418 **RIGHT-N SHORT FORM** Feb 13, 2007
Units: U.S. customary (I-P)
Job #:

For: ADDISON ANIMAL HOSPTIAL - ANIMAL CARE
222 SW COUNTY RD.252B
LAKE CITY, FL 32024

By:

	Htg	Clg
Outside db	25	95
Inside db	70	75
Design TD	45	20
Daily Range	-	20
Inside Humid.	-	50
Moist. Diff.	-	47
Inside wb	-	63
Outside RH	-	45
Outside wb	-	77

HEATING EQUIPMENT

Make		
Model		
Type	HEAT PUMP	
Efficiency / HSPF	7.5	
Heating Input	0.0	MBtuh
Heating Output	28.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	99.2	°F
Actual Heating Fan	877	cfm

COOLING EQUIPMENT

Make	OWNERS CHOICE	
Model		
Type	HEAT PUMP	
COP / EER / SEER	13.0	
Sensible Cooling	23.0	MBtuh
Latent Cooling	7.0	MBtuh
Total Cooling	30.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	877	cfm

Equipment Location	UNIT	
System Type	PEAKCV	
Fan Motor Heat Type	BLOWTHRU	
Fan & Motor Combined Efficiency	95	%
Static Pressure Across Fan	2.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
CAT ROOM	270	7937	8907	2192	302	368	3PM
GROOMING	252	5697	4926	2192	140	165	3PM
KENNELS	352	7734	6572	2792	281	235	3PM
WORK STATION	182	2470	2547	648	154	109	3PM
ONE	1056	23838	22951	7823	877	877	3PM

S/N RNW20418

RIGHT-N ZONE SUMMARY

Units: U.S. customary (I-P) Feb 13, 2007

For: ADDISON ANIMAL HOSPTIAL - ANIMAL CARE

By:

Job #: Zone: ONE

COOLING LOAD

1.	**DESIGN CONDITIONS** at	3PM		Peak load at	3PM		
	Inside:	75 °F	Outside:	95 °F	TD:	20 °F	
	RH:	50 %	Moisture:	47 gr/lb	Mult:	1.0	Ins.wb 63 °F
						Sensible	Latent
2.	**SOLAR RADIATION THROUGH GLASS**					4189	-
3.	**TRANSMISSION GAINS**	Sensible				4829	-
	Walls:	667				-	-
	Glass:	813				-	-
	Doors:	224				-	-
	Partitions:	0				-	-
	Floors:	0				-	-
	Roofs/Ceilings:	3125				-	-
	Return Air Ceiling:	0				-	-
4.	**INTERNAL HEAT GAIN**	Sensible		Latent		8303	2700
	Occupants:	2700		2700		-	-
	Lights:	5603		0		-	-
	Motors:	0		0		-	-
	Appliances & Other:	0		0		-	-
5.	**INFILTRATION:**	Outside air cfm:		11		239	348
6.	**SUBTOTAL:** Space load					17560	3048
7.	**SUPPLY DUCT**					878	-
8.	**SUBTOTAL:** Bldg comp's and supply duct					18438	-
	Actual cfm:	877	at Supply TD:	20		-	-
9.	**VENTILATION:**	Make-up air cfm:		150		3282	4775
10.	**RETURN AIR LOAD:** Lighting & roof (net)					0	-
11.	**RETURN DUCT**					527	-
12.	**TOTAL LOADS ON EQUIPMENT**					22246	7823

HEATING LOAD

13.	**DESIGN CONDITIONS**			Mult:	1.0	
	Inside:	70 °F	Outside:	25 °F	TD:	45 °F
14.	**TRANSMISSION LOSSES**					8406
	Walls:	1507				-
	Glass:	1541				-
	Doors:	504				-
	Partitions:	0				-
	Floors:	2807				-
	Roofs/Ceilings:	2048				-
	Return Air Roof:	0				-
15.	**INFILTRATION:**	Outside air cfm:		56		2743
16.	**SUBTOTAL:** Building components					11149
17.	**SUPPLY DUCT:**					557
18.	**VENTILATION:**	Make-up air cfm:		150		7385
19.	**HUMIDIFICATION**					4412
20.	**RETURN DUCT**					334
21.	**TOTAL HEATING LOAD ON EQUIPMENT**					23838

Manual N: 4th Edition Right-N: Ver.3.0.07

Certified by ACCA to meet all requirements of Manual Form N

S/N RNW20418 **RIGHT-N SHORT FORM** FEB 14 07

Units: U.S. customary (I-P)

Job #:

For: ADDISON ANIMAL HOSPITAL-MEDICAL
222 SW CR 252B
LAKE CITY, F 3202-43827

By:

	Htg	Clg
Outside db	33	95
Inside db	71	75
Design TD	38	20
Daily Range	-	20
Inside Humid.	-	50
Moist. Diff.	-	47
Inside wb	-	63
Outside RH	-	45
Outside wb	-	77

HEATING EQUIPMENT

Make		
Model		
Type	HEAT PUMP	
Efficiency / HSPF	7.5	
Heating Input	0.0	MBtuh
Heating Output	23.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	100.3	°F
Actual Heating Fan	717	cfm

COOLING EQUIPMENT

Make	OWNERS CHOICE	
Model		
Type	HEAT PUMP	
COP / EER / SEER	13.0	
Sensible Cooling	19.0	MBtuh
Latent Cooling	5.0	MBtuh
Total Cooling	24.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	717	cfm

Equipment Location	UNIT
System Type	PEAKCV
Fan Motor Heat Type	BLOWTHRU
Fan & Motor Combined Efficiency	95 %
Static Pressure Across Fan	2.0 in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
OFF-203	225	2513	3062	778	134	117	3PM
OFF-211	198	2691	3443	778	137	133	3PM
OPERATING	252	4682	5042	2492	146	169	3PM
PREP ROOM	252	2628	3263	778	142	126	3PM
WAITING	198	3636	4671	1855	159	172	3PM
TWO	1125	16151	19481	6680	717	717	3PM

S/N RNW20418 **RIGHT-N ZONE SUMMARY**

Units: U.S. customary (I-P) FEB 14 07

For: ADDISON ANIMAL HOSPITAL-MEDICAL

By:

Job #: Zone: TWO

COOLING LOAD

1.	**DESIGN CONDITIONS** at	3PM		Peak load at	3PM		
	Inside: 75 °F	Outside: 95 °F		TD:	20 °F		
	RH: 50 %	Moisture: 47 gr/lb		Mult:	1.0	Ins.wb	63 °F
						Sensible	Latent
2.	**SOLAR RADIATION THROUGH GLASS**					2048	-
3.	**TRANSMISSION GAINS**	Sensible				4088	-
	Walls:	349				-	-
	Glass:	426				-	-
	Doors:	224				-	-
	Partitions:	0				-	-
	Floors:	0				-	-
	Roofs/Ceilings:	3089				-	-
	Return Air Ceiling:	0				-	-
4.	**INTERNAL HEAT GAIN**	Sensible	Latent			8815	2700
	Occupants:	2700	2700			-	-
	Lights:	6115	0			-	-
	Motors:	0	0			-	-
	Appliances & Other:	0	0			-	-
5.	**INFILTRATION:**	Outside air cfm:		0		0	0
6.	**SUBTOTAL:** Space load					14950	2700
7.	**SUPPLY DUCT**					748	-
8.	**SUBTOTAL:** Bldg comp's and supply duct					15698	-
	Actual cfm: 717	at Supply TD:		20		-	-
9.	**VENTILATION:**	Make-up air cfm:		125		2735	3980
10.	**RETURN AIR LOAD:** Lighting & roof (net)					0	-
11.	**RETURN DUCT**					449	-
12.	**TOTAL LOADS ON EQUIPMENT**					18881	6680

HEATING LOAD

13.	**DESIGN CONDITIONS**		Mult:	1.0	
	Inside: 71 °F	Outside: 33 °F	TD:	38 °F	
14.	**TRANSMISSION LOSSES**			5576	
	Walls:	735		-	
	Glass:	689		-	
	Doors:	425		-	
	Partitions:	0		-	
	Floors:	2023		-	
	Roofs/Ceilings:	1705		-	
	Return Air Roof:	0		-	
15.	**INFILTRATION:**	Outside air cfm:	45	1865	
16.	**SUBTOTAL:** Building components			7441	
17.	**SUPPLY DUCT:**			372	
18.	**VENTILATION:**	Make-up air cfm:	125	5142	
19.	**HUMIDIFICATION**			2972	
20.	**RETURN DUCT**			223	
21.	**TOTAL HEATING LOAD ON EQUIPMENT**			16151	

Manual N: 4th Edition Right-N: Ver.3.0.07
Certified by ACCA to meet all requirements of Manual Form N

PERMIT COPY

S/N RNW20418 **RIGHT-N SHORT FORM** Feb 13, 2007
Units: U.S. customary (I-P)
Job #:

For: ADDISON ANIMAL HOSPTIAL - ANIMAL CARE
222 SW COUNTY RD.252B
LAKE CITY, FL 32024

By:

	Htg	Clg
Outside db	25	95
Inside db	70	75
Design TD	45	20
Daily Range	-	20
Inside Humid.	-	50
Moist. Diff.	-	47
Inside wb	-	63
Outside RH	-	45
Outside wb	-	77

HEATING EQUIPMENT

Make		
Model		
Type	HEAT PUMP	
Efficiency / HSPF	7.5	
Heating Input	0.0	MBtuh
Heating Output	28.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	99.2	°F
Actual Heating Fan	877	cfm

COOLING EQUIPMENT

Make	OWNERS CHOICE	
Model		
Type	HEAT PUMP	
COP / EER / SEER	13.0	
Sensible Cooling	23.0	MBtuh
Latent Cooling	7.0	MBtuh
Total Cooling	30.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	877	cfm

Equipment Location	UNIT	
System Type	PEAKCV	
Fan Motor Heat Type	BLOWTHRU	
Fan & Motor Combined Efficiency	95	%
Static Pressure Across Fan	2.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
CAT ROOM	270	7937	8907	2192	302	368	3PM
GROOMING	252	5697	4926	2192	140	165	3PM
KENNELS	352	7734	6572	2792	281	235	3PM
WORK STATION	182	2470	2547	648	154	109	3PM
ONE	1056	23838	22951	7823	877	877	3PM

Manual N: 4th Edition Right-N: Ver.3.0.07
Certified by ACCA to meet all requirements of Manual Form N

S/N RNW20418

RIGHT-N ZONE SUMMARY

Units: U.S. customary (I-P) Feb 13, 2007

For: ADDISON ANIMAL HOSPTIAL - ANIMAL CARE

By:

Job #: Zone: ONE

COOLING LOAD

1. DESIGN CONDITIONS at 3PM Peak load at 3PM
Inside: 75 °F Outside: 95 °F TD: 20 °F
RH: 50 % Moisture: 47 gr/lb Mult: 1.0 Ins.wb 63 °F

			Sensible	Latent
2. SOLAR RADIATION THROUGH GLASS			4189	-
3. TRANSMISSION GAINS	Sensible		4829	-
Walls:	667		-	-
Glass:	813		-	-
Doors:	224		-	-
Partitions:	0		-	-
Floors:	0		-	-
Roofs/Ceilings:	3125		-	-
Return Air Ceiling:	0		-	-
4. INTERNAL HEAT GAIN	Sensible	Latent	8303	2700
Occupants:	2700	2700	-	-
Lights:	5603	0	-	-
Motors:	0	0	-	-
Appliances & Other:	0	0	-	-
5. INFILTRATION:	Outside air cfm:	11	239	348
6. SUBTOTAL: Space load			17560	3048
7. SUPPLY DUCT			878	-
8. SUBTOTAL: Bldg comp's and supply duct			18438	-
Actual cfm: 877	at Supply TD:	20	-	-
9. VENTILATION:	Make-up air cfm:	150	3282	4775
10. RETURN AIR LOAD: Lighting & roof (net)			0	-
11. RETURN DUCT			527	-
12. TOTAL LOADS ON EQUIPMENT			22246	7823

HEATING LOAD

13. DESIGN CONDITIONS Mult: 1.0
Inside: 70 °F Outside: 25 °F TD: 45 °F

14. TRANSMISSION LOSSES			8406
Walls:	1507		-
Glass:	1541		-
Doors:	504		-
Partitions:	0		-
Floors:	2807		-
Roofs/Ceilings:	2048		-
Return Air Roof:	0		-
15. INFILTRATION:	Outside air cfm:	56	2743
16. SUBTOTAL: Building components			11149
17. SUPPLY DUCT:			557
18. VENTILATION:	Make-up air cfm:	150	7385
19. HUMIDIFICATION			4412
20. RETURN DUCT			334
21. TOTAL HEATING LOAD ON EQUIPMENT			23838

S/N RNW20418 **RIGHT-N SHORT FORM** FEB 14 07

Units: U.S. customary (I-P)

Job #:

For: ADDISON ANIMAL HOSPITAL-MEDICAL
222 SW CR 252B
LAKE CITY, F 3202-43827

By:

	Htg	Clg
Outside db	33	95
Inside db	71	75
Design TD	38	20
Daily Range	-	20
Inside Humid.	-	50
Moist. Diff.	-	47
Inside wb	-	63
Outside RH	-	45
Outside wb	-	77

HEATING EQUIPMENT

Make		
Model		
Type	HEAT PUMP	
Efficiency / HSPF	7.5	
Heating Input	0.0	MBtuh
Heating Output	23.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	100.3	°F
Actual Heating Fan	717	cfm

COOLING EQUIPMENT

Make	OWNERS CHOICE	
Model		
Type	HEAT PUMP	
COP / EER / SEER	13.0	
Sensible Cooling	19.0	MBtuh
Latent Cooling	5.0	MBtuh
Total Cooling	24.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	717	cfm

Equipment Location	UNIT	
System Type	PEAKCV	
Fan Motor Heat Type	BLOWTHRU	
Fan & Motor Combined Efficiency	95	%
Static Pressure Across Fan	2.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
OFF-203	225	2513	3062	778	134	117	3PM
OFF-211	198	2691	3443	778	137	133	3PM
OPERATING	252	4682	5042	2492	146	169	3PM
PREP ROOM	252	2628	3263	778	142	126	3PM
WAITING	198	3636	4671	1855	159	172	3PM
TWO	1125	16151	19481	6680	717	717	3PM

S/N RNW20418 **RIGHT-N ZONE SUMMARY**

Units: U.S. customary (I-P) FEB 14 07

For: ADDISON ANIMAL HOSPITAL-MEDICAL

By:

Job #: Zone: TWO

COOLING LOAD

1.	**DESIGN CONDITIONS** at	3PM		Peak load at	3PM	
	Inside: 75 °F	Outside: 95 °F		TD:	20 °F	
	RH: 50 %	Moisture: 47 gr/lb		Mult:	1.0	Ins.wb 63 °F
					Sensible	Latent
2.	**SOLAR RADIATION THROUGH GLASS**				2048	-
3.	**TRANSMISSION GAINS**	Sensible			4088	-
	Walls:	349			-	-
	Glass:	426			-	-
	Doors:	224			-	-
	Partitions:	0			-	-
	Floors:	0			-	-
	Roofs/Ceilings:	3089			-	-
	Return Air Ceiling:	0			-	-
4.	**INTERNAL HEAT GAIN**	Sensible		Latent	8815	2700
	Occupants:	2700		2700	-	-
	Lights:	6115		0	-	-
	Motors:	0		0	-	-
	Appliances & Other:	0		0	-	-
5.	**INFILTRATION:**	Outside air cfm:		0	0	0
6.	**SUBTOTAL:** Space load				14950	2700
7.	**SUPPLY DUCT**				748	-
8.	**SUBTOTAL:** Bldg comp's and supply duct				15698	-
	Actual cfm:	717	at Supply TD:	20	-	-
9.	**VENTILATION:**	Make-up air cfm:		125	2735	3980
10.	**RETURN AIR LOAD:** Lighting & roof (net)				0	-
11.	**RETURN DUCT**				449	-
12.	**TOTAL LOADS ON EQUIPMENT**				18881	6680

HEATING LOAD

13.	**DESIGN CONDITIONS**			Mult:	1.0
	Inside: 71 °F	Outside: 33 °F		TD:	38 °F
14.	**TRANSMISSION LOSSES**				5576
	Walls:	735			-
	Glass:	689			-
	Doors:	425			-
	Partitions:	0			-
	Floors:	2023			-
	Roofs/Ceilings:	1705			-
	Return Air Roof:	0			-
15.	**INFILTRATION:**	Outside air cfm:		45	1865
16.	**SUBTOTAL:** Building components				7441
17.	**SUPPLY DUCT:**				372
18.	**VENTILATION:**	Make-up air cfm:		125	5142
19.	**HUMIDIFICATION**				2972
20.	**RETURN DUCT**				223
21.	**TOTAL HEATING LOAD ON EQUIPMENT**				16151

Manual N: 4th Edition Right-N: Ver.3.0.07
Certified by ACCA to meet all requirements of Manual Form N

COLUMBIA COUNTY FIRE DEPARTMENT

P. O. BOX 1529
LAKE CITY, FL 32056
PHONE (386) 754-7071
FAX (386) 754-7064

David L. Boozer
Division Chief

05 May 2008

TO: Columbia County Building Department
Att: Harry Dicks

FROM: David L. Boozer

RE: Addison Animal Hospital
Russell North Construction Co.
Permit # 26195

Mr. Dicks,

A Fire Safety Inspection was performed today of the Addison Animal Hospital located at CR 252B in Lake City, Florida. This building meets the requirements of Chapter 39 of the Florida fire Prevention Code, 2004 edition. We recommend approval.

4/30/08

222 SW CR 252B

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 34-3S-16-02493-002 **Building permit No.** 000026195

Use Classification ADDITION TO COMM. **Fire:** 0.00

Permit Holder RUSSELL NORTH **Waste:**

Owner of Building CLIFFORD ADDISON **Total:** 0.00

Location: 222 SW CR 252B, LAKE CITY, FL

Date: 05/05/2008

Harry Dicke

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
2230 Greensboro Hwy • Quincy, FL 32351 • Tel(850)442-3495 • Fax(850)442-4008

26195

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 07-00470
DATE TESTED: 8/23/07
DATE REPORTED: 9/19/07

PROJECT:	Addison Animal Hospital, Lake City, Florida
CLIENT:	Norton's Home Improvement, 3367 US Hwy 441, Suite 101, Lake City, FL 32025
GENERAL CONTRACTOR:	Norton's Home Improvement
EARTHWORK CONTRACTOR:	Norton's Home Improvement
INSPECTOR:	David Brown

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

SPECIFICATION REQUIREMENTS: 95%

TEST NO.		TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft^3)	MOISTURE PERCENT	DRY DENSITY (lb/ft^3)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1		NE Corner of Building Pad	0-12"	113.3	10.2	102.8	06-152-3	106.6	96%
2		Center of Building Pad	0-12"	112.6	7.9	104.4	06-152-3	106.6	98%
3		SW Corner of Building Pad	0-12"	116.6	11.4	104.7	06-152-3	106.6	98%

REMARKS: The Above Tests Meet Specification Requirements.

PROCTORS

PROCTOR NO.		SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft^3)	OPT. MOIST.	TYPE
06-152-3		Tan Fine Sand	106.6	11.7	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Linda Creamer, CEO, DBE

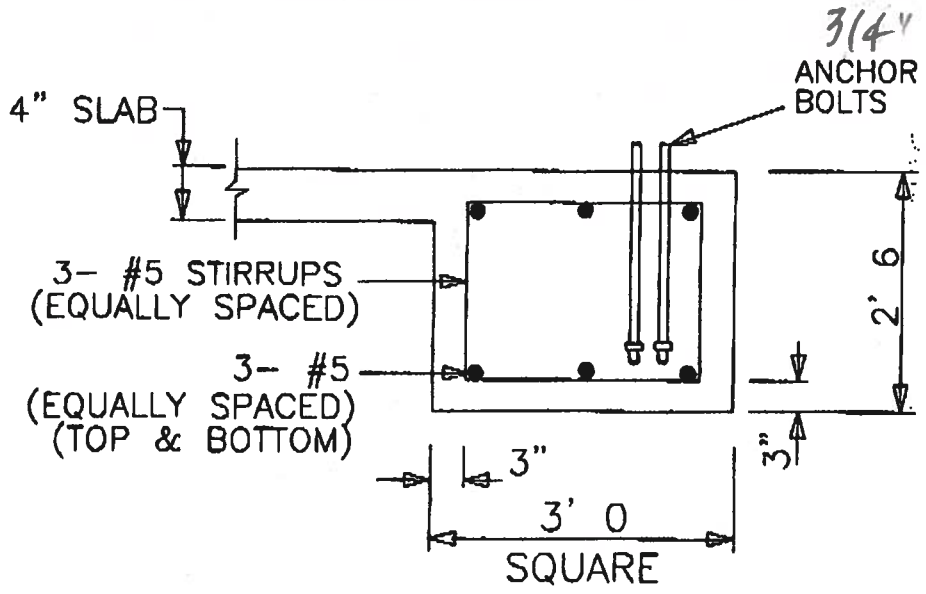
Linda M. Creamer
President - CEO

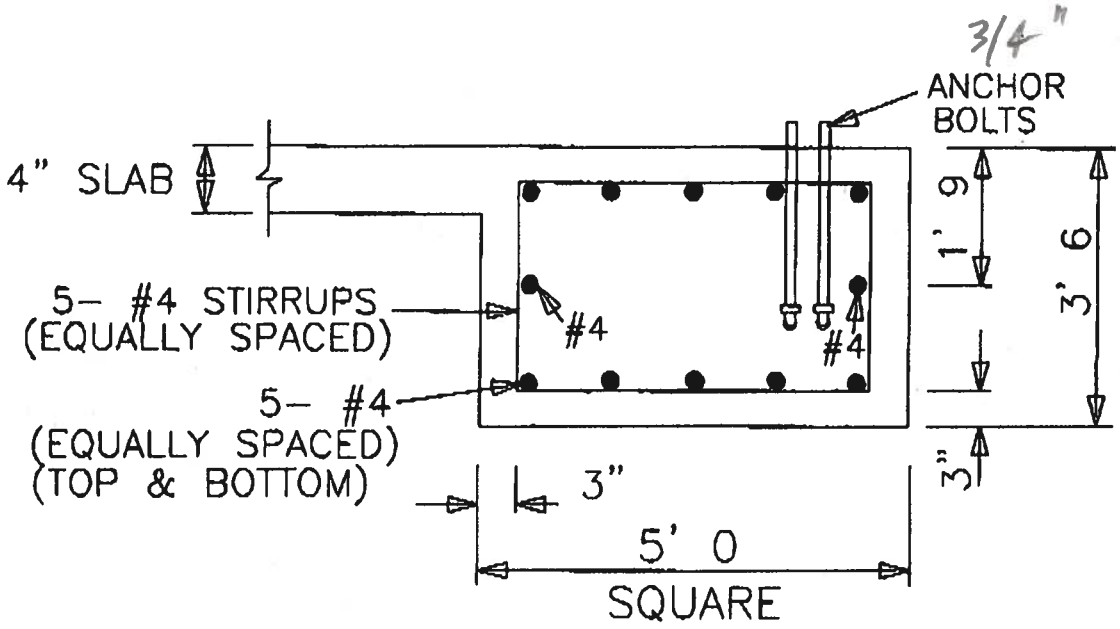
Reviewed By:

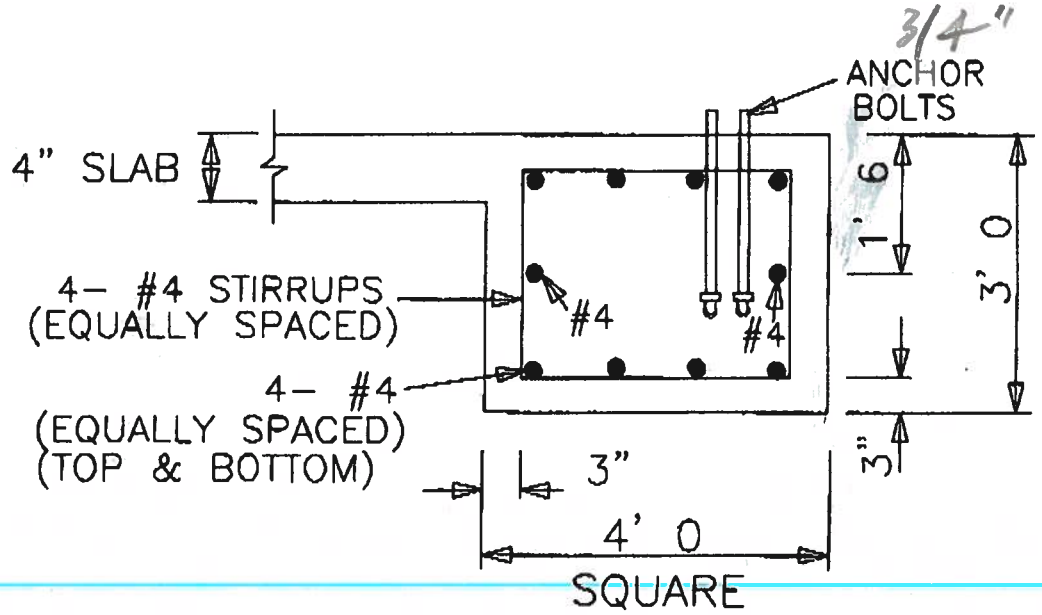
Date: 9/19/07
Licensed, Florida No: 57842

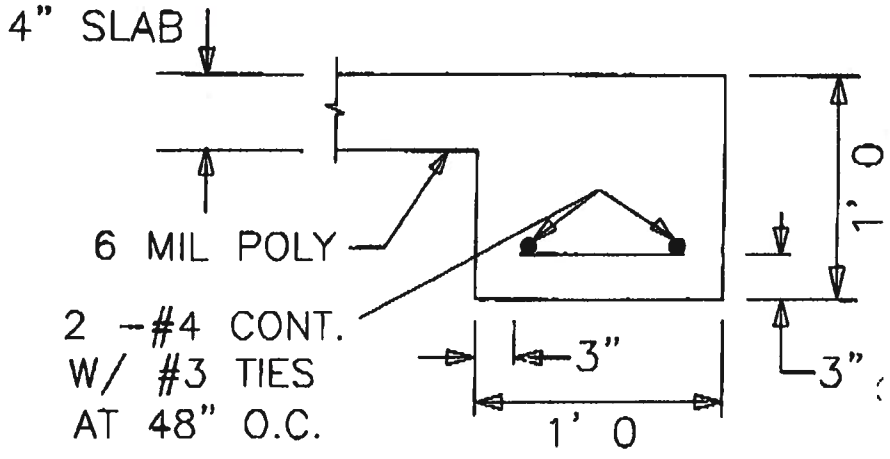
The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised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

26195

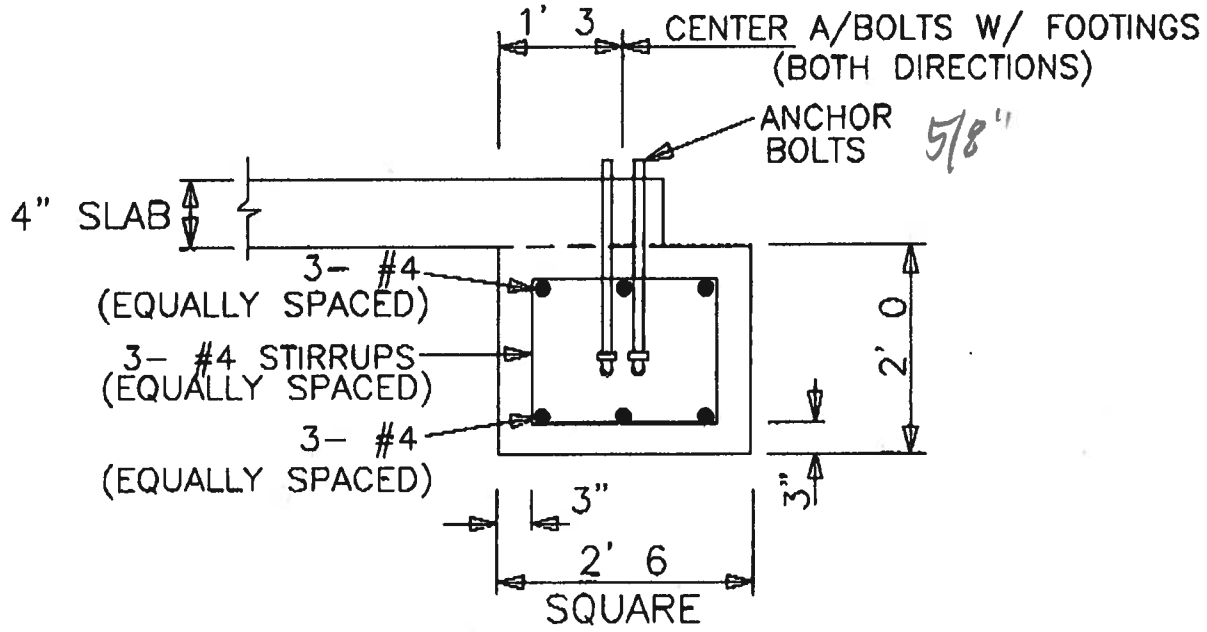

3/4" ANCHOR BOLTS
4" SLAB
3- #5 STIRRUPS (EQUALLY SPACED)
3- #5 (EQUALLY SPACED) (TOP & BOTTOM)
2' 6
3"
3"
3' 0 SQUARE

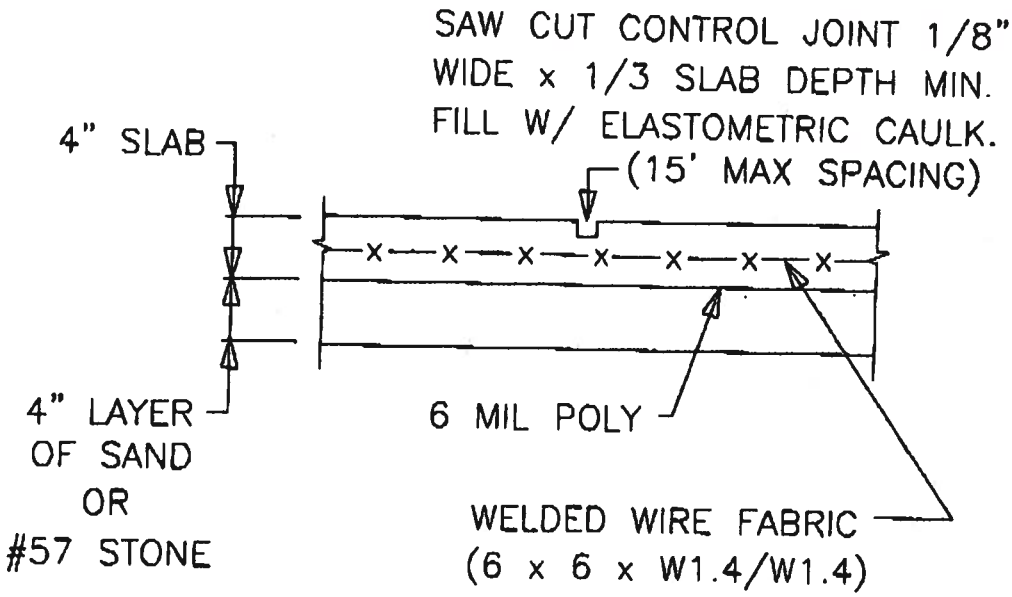

3/4" ANCHOR BOLTS
4" SLAB
5- #4 STIRRUPS (EQUALLY SPACED)
5- #4 (EQUALLY SPACED) (TOP & BOTTOM)
#4
#4
1' 9
3' 6
3"
3"
5' 0 SQUARE


3/4" ANCHOR BOLTS
4" SLAB
4- #4 STIRRUPS (EQUALLY SPACED)
4- #4 (EQUALLY SPACED) (TOP & BOTTOM)
#4
#4
1' 6
3' 0
3"
3"
4' 0 SQUARE

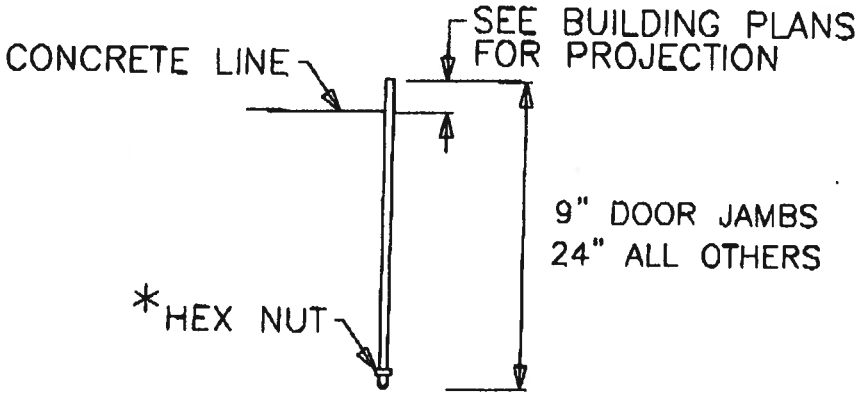


SLAB TURN DOWN





SLAB DETAIL



*TACK WELD NUT TO ANCHOR BOLT

ANCHOR BOLTS SHALL BE ASTM A307 GR36

ANCHOR BOLTS

* 26195

meta-design:architecture, LLC
211 SW 4th Ave, Suite 3A
Gainesville, FL 32601
p. 352.248.0531 f.866.358.8213

meta@meta-da.com
FL lic. AA26000939

Permit modification letter

Date: 09/13/07

To: Dr. Clifford Addison
222 SW County Road 252b
Lake City, Florida 32024-3827

Cc: S Bender, File

Re: Renovation & Addition to Addison Animal Hospital

Dear Mr. Addison,

regarding the addition to your facility, meta-design:architecture, llc. finds the foundation designs of the metal building manufacturer acceptable to replace the foundation design shown on Sheet A3 with the following condition.

The design shall be sealed by a Professional Engineer registered in the State of Florida.

Best Regards,

meta-design:architecture, llc

Michael Richmond, AIA, NCARB, LEED

attachments:

Adel Steel Inc
601, S. Elm Street
Adel, GA 31620
Phone No: 229 896 2263
Fax No: 229 896 4658

LETTER OF CERTIFICATION

Date: 8/29/07

Russell North Construction

Lake City, Fl
SIZE: 40 x 60 x 12

Re: Adel Steel job 7122

To whom it may concern:

This is to certify that the Adel Steel Inc. building described above is designed and fabricated to meet or exceed the criteria of the American National Standard Institute, American Institute of Steel Construction & American Welding Society as applicable to this project. In addition, the building is designed to meet or exceed the Following loads:

BUILDING CODE:----------	FBC 04
LIVE LOAD TO ROOF :---------	20 psf
LIVE LOAD TO FRAME :--------	12 / 15.2 psf
WIND LOAD :----------	110 mph
DEAD LOAD :----------	2 psf
COLLATERAL LOAD :----------	3 psf
OTHER LOADS : ----------	NONE

This "LEDA" building design conforms to the AISC FCD Category MB" Specification for Structural Steel Buildings-Allowable Stress Design and Plastic Design", AISI "Specification For the Design on Cold Formed Steel Structural Members", and the MBMA "Low Rise building System Manual". The Primary Structural framing is designed to the following:

1.Hot Rolled Structural Shapes: ASTM A-36 OR ASTM A-352.
2.Tubing or Pipe: ASTM A-500, Grade B, ASTM A-501 or ASTM A-53.
3.Plate or Bar Stock: ASTM A-529, ASTM A-570 OR ASTM A-572 (Min 50ksi Yield Strength)
4.Cold Formed Members: ASTM A-607, Grade 50.
5.Bolting Materials: ASTM A-325.
6.Bracing:
   A. Cable: Minimum 7 Strand, Extra high strength galvanized steel.
   B. Angles: ASTM A-36

If you have any questions or if you need any additional information regarding this project, please feel free to contact Adel Steel, Inc., During regular Business hours, from 8:00 AM. To 5:00 PM., Monday through Friday.

Respectfully Yours

Gregory S. Barfield, P.E.

GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

9-25-07

Adel Steel Inc.
601 South Elm St
Adel, Ga 31620

STRUCTURAL DESIGN CALCULATIONS
FOR
Russell North Construction

Lake City, Fl

Addison Animal Clinic

Lake City, Florida
7122

BUILDING DATA

Width (ft)	=	40.0
Length (ft)	=	60.0
Eave Height (ft)	=	12.0/ 12.0
Roof Slope (rise/12)	=	4.00/ 4.00
Dead Load (psf)	=	2.0
Roof Live Load (psf)	=	20.0
Frame Live Load (psf)	=	12.0
Collat. Load (psf)	=	3.0
Wind Speed(mph)	=	110.0
Wind Code	=	FBC 04
Closed/Open	=	C
Exposure	=	B
Importance - Wind	=	1.00
Importance - Seismic	=	1.00
Seismic Design Category	=	D
Seismic Coeff (Fa*Ss)	=	0.20

Designer =

8/29/07

```
================================================================================
 7122                Design Loads For Each Building Component:  8/29/07 12:45am
================================================================================
```

FRONT SIDEWALL:

BASIC LOADS:

Basic Wind	Wind_Load_Ratio Deflect	Factor	Edge_Strip_Ratio Zone Width	Girt	Panel	Col/ Jamb
18.4	1.00	1.00	4.00	1.07	1.00	1.07

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	Wind Long	
17.5	-19.2		.. Girt/Header
21.7	-29.1		.. Panel
17.5	-19.2		.. Jamb
33.2	-20.3		.. Parapet

BACK SIDEWALL:

BASIC LOADS:

Basic Wind	Wind_Load_Ratio Deflect	Factor	Edge_Strip_Ratio Zone Width	Girt	Panel	Col/ Jamb
18.4	1.00	1.00	4.00	1.07	1.00	1.07

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	Wind Long	
17.5	-19.2		.. Girt/Header
21.7	-29.1		.. Panel
17.5	-19.2		.. Jamb
33.2	-20.3		.. Parapet

LEFT ENDWALL:

BASIC LOADS:

Dead Load	Collat Load	Live Load	Snow Load	Basic Wind	Wind_Load_Ratio Deflect	Factor	Edge_Strip_Ratio Zone Width	Girt	Panel	Col/ Jamb
2.0	3.0	20.0	0.0	18.4	1.00	1.00	4.00	1.07	1.00	1.07

BASIC LOADS AT EAVE:

Seis Load	---Torsion--- Wind	Seismic
0.03	0.00	0.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	
17.5	-19.2	.. Column
17.5	-19.2	.. Girt/Header
17.5	-19.2	.. Jamb
21.7	-29.1	.. Panel
33.2	-20.3	.. Parapet

WIND COEFFICIENTS:

Surf Id	Rafter_Wind_1 Left	Right	Rafter_Wind_2 Left	Right	Bracing_Wind Left	Right	Long Wind	Surface Friction
1	0.00	0.00	0.00	0.00	0.62	-0.89	0.00	0.00

2	-1.11	-0.78	-0.75	-0.42	-1.11	-0.78	-1.11	0.00
3	-0.78	-1.11	-0.42	-0.75	-0.78	-1.11	-1.11	0.00
4	0.00	0.00	0.00	0.00	-0.89	0.62	0.00	0.00

COLUMN & BRACING DESIGN LOADS:

Load						Rafter_Wind		Brace_Wind		Long	Column_Wind			Aux_Load	
No.	Id	Dead	Coll	Live	Snow	Left	Right	Left	Right	Wind	Press	Suct	Seis	Id	Coef
6	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	1.30	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	1.30	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.00	0.00	0	0.00
	5	1.00	1.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0	0.00
	6	1.00	1.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	1.30	0.00	0	0.00

RAFTER DESIGN LOADS:

Load						Rafter_Wind_1		Rafter_Wind_2		Long		Aux_Load	
No	Id	Dead	Coll	Live	Snow	Left	Right	Left	Right	Wind	Seis	Id	Coef
10	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0	0.00
	5	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0	0.00
	6	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0	0.00
	7	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	1.00
	8	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	1.00
	9	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	1.00
	10	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	1.00

AUXILIARY LOADS:

No. Aux	Aux Id	Aux Name	No. Load	Add_Load Id	Add_Load Coeff
4	1	E1PAT_LL 1	3	1	1.00
				2	1.00
				3	1.00
	2	E1PAT_LL 2	3	2	1.00
				3	1.00
				4	1.00
	3	E1PAT_LL 3	2	1	1.00
				4	1.00
	4	E1PAT_LL 4	2	2	1.00
				3	1.00

ADDITIONAL LOADS:

No. Add	Add Id	Surf Id	Basic Load	Load Type	Fx W1	Fy W2	Mom Co	X Dx1	Y Dx2	.. Conc .. Dist
8	1	2	------	D	-0.01	-0.01	0.33	0.00	14.76	
	2	2	------	D	-0.01	-0.01	0.33	14.76	21.08	
	3	3	------	D	-0.01	-0.01	-0.33	0.00	6.32	
	4	3	------	D	-0.01	-0.01	-0.33	6.32	21.08	
	5	2	WINDL1	D	-0.06	-0.06	0.00	20.00	21.08	
	6	2	WINDL2	D	-0.06	-0.06	0.00	20.00	21.08	
	7	3	WINDR1	D	-0.06	-0.06	0.00	0.00	1.08	
	8	3	WINDR2	D	-0.06	-0.06	0.00	0.00	1.08	

RIGHT ENDWALL:

BASIC LOADS:

Dead Load	Collat Load	Live Load	Snow Load	Basic Wind	Wind_Load_Ratio Deflect	Wind_Load_Ratio Factor	-----Edge_Strip_Ratio----- Zone Width	Girt	Panel	Col/ Jamb
2.0	3.0	18.0	0.0	18.4	1.00	1.00	4.00	1.07	1.00	1.07

BASIC LOADS AT EAVE:

Seis Load	---Torsion--- Wind	Seismic
0.15	0.00	0.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	
17.5	-19.2	.. Column
17.5	-19.2	.. Girt/Header
17.5	-19.2	.. Jamb
21.7	-29.1	.. Panel
33.2	-20.3	.. Parapet

WIND COEFFICIENTS:

Surf Id	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Bracing_Wind Left	Bracing_Wind Right	Long Wind	Surface Friction
1	0.00	0.00	0.00	0.00	0.63	-0.90	0.00	0.00
2	-1.15	-0.80	-0.79	-0.44	-1.15	-0.80	-1.15	0.00
3	-0.80	-1.15	-0.44	-0.79	-0.80	-1.15	-1.15	0.00
4	0.00	0.00	0.00	0.00	-0.90	0.63	0.00	0.00

COLUMN & BRACING DESIGN LOADS:

Load No.	Id	Dead	Coll	Live	Snow	Rafter_Wind Left	Rafter_Wind Right	Brace_Wind Left	Brace_Wind Right	Long Wind	Column_Wind Press	Column_Wind Suct	Seis	Aux_Load Id	Aux_Load Coef
8	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	1.30	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	1.30	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.00	0.00	0	0.00
	5	1.00	1.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0	0.00
	6	1.00	1.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	1.30	0.00	0	0.00
	7	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	8	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

RAFTER DESIGN LOADS:

Load No	Id	Dead	Coll	Live	Snow	Rafter_Wind_1 Left	Rafter_Wind_1 Right	Rafter_Wind_2 Left	Rafter_Wind_2 Right	Long Wind	Seis	Aux_Load Id	Aux_Load Coef
8	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	1.00	1.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0	0.00
	5	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0	0.00
	6	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0	0.00
	7	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	8	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

AUXILIARY LOADS:

No. Aux	Aux Id	Aux Name	No. Load	Add_Load Id	Add_Load Coeff
1	1	E2PAT_LL 1	0		

ADDITIONAL LOADS:

No. Add	Add Id	Surf Id	Basic Load	Load Type	Fx W1	Fy W2	Mom Co	X Dx1	Y Dx2	.. Conc .. Dist
4	1	2	WINDL1	D	-0.06	-0.06	0.00	20.00	21.08	
	2	2	WINDL2	D	-0.08	-0.08	0.00	20.00	21.08	
	3	3	WINDR1	D	-0.08	-0.08	0.00	0.00	1.08	
	4	3	WINDR2	D	-0.06	-0.06	0.00	0.00	1.08	

ROOFDES:

BASIC LOADS:

Dead Load	Collat Load	Live Load	Snow Load	Basic Wind	Wind_Load_Ratio Deflect	Factor	Surface Friction	Seis Factor	% Snow
2.0	3.0	20.0	0.0	18.4	1.00	1.00	0.00	1.000	0.00

WIND PRESSURE/SUCTION:

Wind Press	Wind Suct	Wind Suct_Roof	
10.0	-18.1		.. Purlins
0.0	-40.5		.. Gable Extensions
12.5	-19.9		.. Panels

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   10.7   -2.0   -12.7      .. Long Bracing, Building
   14.6   -4.6              .. Long Bracing, Wall Edge Zone
   33.2  -20.3    14.7      .. Long Bracing, Facia/Parapet

EDGE & CORNER ZONE WIND:
        --------Left_End--------  ------Center------ --------Right_End--------
Surface              ----Coeff---       ----Coeff---              ----Coeff---
Id  Loc Width Length Purlin Panel Width Purlin Panel Width Length Purlin Panel
 2   L   4.00   4.00   1.16  1.74  4.00   1.16  1.74  4.00   4.00   1.16  1.74
     C  13.08   4.00   1.16  1.74 13.08   1.00  1.00 13.08   4.00   1.16  1.74
     R   4.00   4.00   1.16  1.74  4.00   1.16  1.74  4.00   4.00   1.16  1.74
 3   L   4.00   4.00   1.16  1.74  4.00   1.16  1.74  4.00   4.00   1.16  1.74
     C  13.08   4.00   1.16  1.74 13.08   1.00  1.00 13.08   4.00   1.16  1.74
     R   4.00   4.00   1.16  1.74  4.00   1.16  1.74  4.00   4.00   1.16  1.74

PURLIN DESIGN LOADS:
  Surf   No.    Load                              Wind  Wind   Aux_Load
   Id    Loads   Id   Dead Collat Live Snow Press  Suct   Id  Coef
    2     10      1   1.00  1.00  1.00 0.00  0.00  0.00    0  0.00
                  2   1.00  1.00  0.00 0.00  1.30  0.00    0  0.00
                  3   1.00  0.00  0.00 0.00  0.00  1.30    0  0.00
                  4   1.00  1.00  0.00 0.00  0.00  0.00    3  2.00
                  5   1.00  1.00  0.00 0.00  0.00  0.00    4  2.00
                  6   1.00  1.00  0.00 0.00  0.00  0.00    5  2.00
                  7   1.00  1.00  0.00 0.00  0.00  0.00    1  2.00
                  8   1.00  1.00  0.00 0.00  0.00  0.00    2  2.00
                  9   1.00  1.00  1.00 0.00  0.00  0.00    1 -2.00
                 10   1.00  1.00  1.00 0.00  0.00  0.00    2 -2.00
    3     10      1   1.00  1.00  1.00 0.00  0.00  0.00    0  0.00
                  2   1.00  1.00  0.00 0.00  1.30  0.00    0  0.00
                  3   1.00  0.00  0.00 0.00  0.00  1.30    0  0.00
                  4   1.00  1.00  0.00 0.00  0.00  0.00    3  2.00
                  5   1.00  1.00  0.00 0.00  0.00  0.00    4  2.00
                  6   1.00  1.00  0.00 0.00  0.00  0.00    5  2.00
                  7   1.00  1.00  0.00 0.00  0.00  0.00    1  2.00
                  8   1.00  1.00  0.00 0.00  0.00  0.00    2  2.00
                  9   1.00  1.00  1.00 0.00  0.00  0.00    1 -2.00
                 10   1.00  1.00  1.00 0.00  0.00  0.00    2 -2.00

 BRACING DESIGN LOADS:
         No.    Load                              Wind  Wind  Seis   Aux_Load
         Loads   Id   Dead Collat Live Snow Press  Suct  Load   Id  Coef
           3      1   1.00  1.00  1.00 0.00  1.00  1.00  0.00    0  0.00
                  2   1.00  0.00  0.00 0.00  1.30  1.30  0.00    0  0.00
                  3   1.02  1.02  1.00 0.00  0.00  0.00  1.00    0  0.00

AUXILIARY LOADS:
 No.  Aux   Aux            No.     Add_Load
 Aux  Id    Name          Load     Id    Coef
  5    1    ----------      1      1    0.50
       2    ----------      1      4    0.50
       3    ----------      2      1    0.50
                                2    0.50
       4    ----------      2      2    0.50
                                3    0.50
       5    ----------      2      3    0.50
                                4    0.50

ADDITIONAL LOADS:
 No.  Add  Surf  Basic  Load      Fy             Dx            .. Conc
 Add   Id   Id   Load   Type      W1      W2     Dx1    Dx2    .. Dist
  4     1    0  ------  D      -20.0   -20.0    0.0   20.0
        2    0  ------  D      -20.0   -20.0   20.0   40.0
        3    0  ------  D      -20.0   -20.0   40.0   60.0
        4    0  ------  D      -20.0   -20.0   60.0   63.0

RIGID FRAME #1:
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BASIC LOADS:

Dead	Live	Snow	Collateral	Basic Wind	Defl Ratio
2.0	12.0	0.0	3.0	18.4	1.00

BASIC LOADS AT EAVE:

-Seismic-- Load	SpcEP	Weak_Axis_L Wind	Seis	Weak_Axis_R Wind	Seis	--Torsion-- Wind	Seis	-EW_Brace-- Wind	Seis
0.15	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WIND COEFFICIENTS:

Surf Id	--Wind_1--- Left	Right	--Wind_2--- Left	Right	Long_Wind 1	2	Surface Friction
1	0.35	-0.62	0.72	-0.24	-0.63	-0.63	0.00
2	-0.87	-0.65	-0.51	-0.29	-0.87	-0.55	0.00
3	-0.65	-0.87	-0.29	-0.51	-0.55	-0.87	0.00
4	-0.62	0.35	-0.24	0.72	-0.63	-0.63	0.00

DESIGN LOADS:

Load No.	Id	Dead	Coll	Live	Snow	-Wind_1-- Lt	Rt	-Wind_2-- Lt	Rt	Long_Wind Lt	Rt	-Seismic-- Long	Tran	Aux_Load Id	Coef
18	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	5	1.00	1.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0	0.00
	6	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0	0.00
	7	1.00	1.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	8	1.00	1.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	9	1.00	1.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0	0.00
	10	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0	0.00
	11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0	0.00
	12	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.30	0.00	0.00	0.00	0	0.00
	13	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0	0.00
	14	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.30	0.00	0.00	0	0.00
	15	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	16	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00
	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

ADDITIONAL LOADS:

No. Add	Add Id	Surf Id	Basic Type	Load Type	Fx W1	Fy W2	Mom Co	Dx Dl1	Dy Dl2	.. Conc .. Dist
4	1	2	WINDL1	D	-0.08	-0.08	0.000	20.00	21.08	
	2	2	WINDL2	D	-0.08	-0.08	0.000	20.00	21.08	
	3	3	WINDR1	D	-0.08	-0.08	0.000	0.00	1.08	
	4	3	WINDR2	D	-0.08	-0.08	0.000	0.00	1.08	

RIGID FRAME #2:

BASIC LOADS:

Dead	Live	Snow	Collateral	Basic Wind	Defl Ratio
2.0	15.2	0.0	3.0	18.4	1.00

BASIC LOADS AT EAVE:

-Seismic-- Load	SpcEP	Weak_Axis_L Wind	Seis	Weak_Axis_R Wind	Seis	--Torsion-- Wind	Seis	-EW_Brace-- Wind	Seis
0.09	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WIND COEFFICIENTS:

Surf Id	--Wind_1--- Left	Right	--Wind_2--- Left	Right	Long_Wind 1	2	Surface Friction
1	0.35	-0.62	0.72	-0.24	-0.63	-0.63	0.00
2	-0.87	-0.65	-0.51	-0.29	-0.87	-0.55	0.00
3	-0.65	-0.87	-0.29	-0.51	-0.55	-0.87	0.00
4	-0.62	0.35	-0.24	0.72	-0.63	-0.63	0.00

DESIGN LOADS:

Load					-Wind_1--		-Wind_2--		Long_Wind		-Seismic--		Aux_Load	
No.	Id	Dead	Coll	Live	Snow	Lt	Rt	Lt	Rt	Lt	Rt	Long	Tran	Id	Coef
18	1	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	2	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	3	1.00	1.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	4	1.00	1.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	5	1.00	1.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0	0.00
	6	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0	0.00
	7	1.00	1.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	8	1.00	1.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
	9	1.00	1.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0	0.00
	10	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0	0.00
	11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0	0.00
	12	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.30	0.00	0.00	0.00	0	0.00
	13	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0	0.00
	14	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.30	0.00	0.00	0	0.00
	15	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	16	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00
	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0	0.00
	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.00	0	0.00

ADDITIONAL LOADS:

No. Add	Add Id	Surf Id	Basic Type	Load Type	Fx W1	Fy W2	Mom Co	Dx Dl1	Dy Dl2	.. Conc .. Dist
4	1	2	WINDL1	D	-0.05	-0.05	0.000	20.00	21.08	
	2	2	WINDL2	D	-0.05	-0.05	0.000	20.00	21.08	
	3	3	WINDR1	D	-0.05	-0.05	0.000	0.00	1.08	
	4	3	WINDR2	D	-0.05	-0.05	0.000	0.00	1.08	

7122 Reactions, Anchor Bolts, & Base Plates: 8/29/07 12:45am

Frame Line	Col Line	Foundation_Loads(k) Max_Pos_Val Id	Horz	Vert	Max_Neg_Val Id	Horz	Vert	Anc._Bolt No.	Diam	Base_Plate Width	Len	Thick
1	C	8	2.7	-1.0	9	-2.3	0.2	4	0.625	8.00	8.00	0.375
		1	-0.1	0.8	8	2.7	-1.0					
1	B	8	2.7	-1.0	9	-2.3	0.2	4	0.625	8.00	8.00	0.375
		1	-0.1	0.8	8	2.7	-1.0					
2 *	D	1	2.7	7.2	2	-3.5	-5.7	4	0.750	6.00	10.25	0.500
		3	-0.1	18.5	4	0.9	-27.1					
2 *	A	5	3.3	-8.6	1	-2.7	8.5	4	0.750	6.00	10.25	0.500
		6	0.1	18.6	7	-0.9	-26.9					
1	D	1	1.9	4.9	2	-2.0	-3.1	4	0.750	6.00	10.25	0.375
1	A	5	2.0	-3.1	1	-1.9	4.9	4	0.750	6.00	10.25	0.375
		1	-1.9	4.9	5	2.0	-3.1					

2 * Frame Lines :2 3

Load Id	Load Combination
1	DL+CL+LL
2	DL+CL+1.30WL1
3	DL+CL-1.30LnWnd2
4	DL+CL+1.30LnWnd1
5	DL+CL+1.30WR1
6	DL+CL-1.30LnWnd1
7	DL+CL+1.30LnWnd2
8	DL+CL+1.30WR1+1.30WS
9	DL+CL+1.30WP+1.30LnWnd1
10	DL+CL+1.30WL1+1.30WS

BRACING/PANEL SHEAR REACTIONS:

Wall Loc	Wall Line	Col Line	Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft)
L_EW	1	Rigid Frame At Endwall					
F_SW	A	Wind Column In Wall					
R_EW	4	No Bracing Used					0
B_SW	D	Wind Column In Wall					

WIND COLUMNS:

Wall Loc	Wall Line	Col Line	Load_Id	Reaction(k,f-k) Horz	Vert	Moment	Anc._Bolt No	Dia	Base_Plate(in) Width	Length	Thick
F_SW	A	2	Wind	2.3	17.2	22.9	2	0.750	6.000	11.00	0.500
			Seismic	0.5	3.5	4.6					
B_SW	D	2	Wind	2.3	17.2	22.9	2	0.750	6.000	11.00	0.500

Seismic 0.5 3.4 4.5

7122 Additional Reactions Report: 8/29/07 12:45am

Rigid Frame Column Reactions

Frame Line	Col Line	---Dead--- Horz	Vert	Collateral Horz	Vert	---Live--- Horz	Vert	---Snow--- Horz	Vert	-Wind_L1-- Horz	Vert
2 *	D	0.4	1.2	0.5	1.3	1.8	4.7	-0.1	-0.1	-3.4	-6.3
2 *	A	-0.4	1.4	-0.5	1.3	-1.8	5.9	0.1	1.1	-0.5	-6.8
1	D	0.3	0.9	0.3	0.7	1.3	3.3	0.0	0.0	-2.0	-3.6
1	A	-0.3	0.9	-0.3	0.7	-1.3	3.3	0.0	0.0	-0.1	-2.6

Frame Line	Col Line	-Wind_R1-- Horz	Vert	-Wind_L2-- Horz	Vert	-Wind_R2-- Horz	Vert	-LnWind_1- Horz	Vert	-LnWind_2- Horz	Vert
2 *	D	0.3	-4.5	-3.4	-3.6	0.4	-1.9	0.0	-22.7	-0.8	-22.1
2 *	A	3.3	-8.6	-0.5	-4.2	3.2	-6.0	0.8	-22.1	0.0	-22.7
1	D	0.1	-2.6	-1.9	-2.1	0.1	-1.1	0.0	-3.0	-0.4	-2.7
1	A	2.0	-3.6	-0.1	-1.1	1.9	-2.1	0.4	-2.7	0.0	-3.0

Frame Line	Col Line	Seismic_L- Horz	Vert	Seismic_R- Horz	Vert	Ln_Seismic Horz	Vert
2 *	D	-0.2	-0.1	0.2	0.1	0.0	-4.0
2 *	A	-0.2	0.1	0.2	-0.1	0.0	-4.1
1	D	-0.1	-0.1	0.1	0.1	0.0	0.0
1	A	-0.1	0.1	0.1	-0.1	0.0	0.0

2 * Frame Lines :2 3

Endwall Column Reactions

Frame Line	Col Line	Dead Vert	Coll Vert	Live Vert	Snow Vert	-Brc_Wind_L- Horz	Vert	-Brc_Wind_R- Horz	Vert	Out_Of_Plane Wind_P Horz	Wind_S Horz
1	C	0.2	0.0	0.6	0.6	0.0	0.0	0.0	0.0	-1.7	2.1
1	B	0.2	0.0	0.6	0.6	0.0	0.0	0.0	0.0	-1.7	2.1

Endwall Column Reactions

Frame Line	Col Line	-Raf_Wind_L- Horz	Vert	-Raf_Wind_R- Horz	Vert	LnWind Vert	--Seismic_L- Horz	Vert	--Seismic_R- Horz	Vert
1	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

```
================================================================================
 7122                Seismic Design Report:                    8/29/07 12:45am
================================================================================


      Building Data
      -------------
        Code                =FBC  04
        Length              =  60.00
        Width               =  40.00
        Left  Eave Height   =  12.00
        Right Eave Height   =  12.00

      Seismic Formula
      ---------------
        Base  Shear, V      = 0.667*1.2*Fa*Ss*W/R


        Shear Force, E      = Omega*Rho*V

        Fa*Ss               =   0.200
        Zone/Design Category=   D
        Rho                 =  2-20/(RMax*SQRT(W*L))

      Seismic Dead Load, W
      --------------------
        Roof   Dead+Collat  =    5.00 (psf  )
        Frame  Dead         =    2.00 (psf  )
        Roof   Total        =    7.00 (psf  )    , Weight=  17.05 (k )
        L_EW   Dead         =    2.00 (psf  )    , Weight=   0.61 (k )
        F_SW   Dead         =    2.00 (psf  )    , Weight=   0.72 (k )
        R_EW   Dead         =    2.00 (psf  )    , Weight=   0.61 (k )
        B_SW   Dead         =    2.00 (psf  )    , Weight=   0.72 (k )
        L_EW Extend Dead    =    2.00 (psf  )    , Weight=   0.12 (k )
        F_SW Extend Dead    =    2.00 (psf  )    , Weight=   0.23 (k )
                                                           -------
                                                 Total =  20.07 (k )

      Seismic Forces
      --------------

        Roof Bracing
                        R  =   5.00, Rho=   1.18, RMax=   0.50, Omega=   2.00
                        W  =  18.28 (k )
                Force, V   =   0.58 (k )
                Force, E   =   1.39 (k )

        Wind Columns
          Front         R  =   3.50, Rho=   1.18, RMax=   0.50, Omega=   1.00
                        W  =  10.10 (k )
                Force, V   =   0.46 (k )
                Force, E   =   0.55 (k )
          Back          R  =   3.50, Rho=   1.18, RMax=   0.50, Omega=   1.00
                        W  =   9.87 (k )
                Force, V   =   0.45 (k )
                Force, E   =   0.53 (k )

        Rigid Frames
                        R  =   3.50, Rho=   1.00, RMax=   0.33, Omega=   1.00
          Frame 1       W  =   6.56 (k )
                Force, V   =   0.30 (k )
                Force, E   =   0.30 (k )
          Frame 2       W  =   3.94 (k )
                Force, V   =   0.18 (k )
                Force, E   =   0.18 (k )

        End Plates
```

Frame R = 3.50, Omega= 3.00

Adel Steel Inc.
601 South Elm St
Adel, Ga 31620

REACTIONS, ANCHOR BOLTS, & BASE PLATES
FOR
Russell North Construction

Lake City, Fl

Addison Animal Clinic

Lake City, Florida
7122

BUILDING DATA

Width (ft)	=	40.0
Length (ft)	=	60.0
Eave Height (ft)	=	12.0/ 12.0
Roof Slope (rise/12)	=	4.00/ 4.00
Dead Load (psf)	=	2.0
Roof Live Load (psf)	=	20.0
Frame Live Load (psf)	=	12.0
Collat. Load (psf)	=	3.0
Wind Speed(mph)	=	110.0
Wind Code	=	FBC 04
Closed/Open	=	C
Exposure	=	B
Importance - Wind	=	1.00
Importance - Seismic	=	1.00
Seismic Design Category	=	D
Seismic Coeff (Fa*Ss)	=	0.20

Designer =

8/29/07

7122 Reactions, Anchor Bolts, & Base Plates: 8/29/07 12:45am

Frame Line	Col Line	Foundation_Loads(k) Max_Pos_Val Id	Horz	Vert	Max_Neg_Val Id	Horz	Vert	Anc._Bolt No.	Diam	Base_Plate Width	Len	Thick
1	C	8	2.7	-1.0	9	-2.3	0.2	4	0.625	8.00	8.00	0.375
		1	-0.1	0.8	8	2.7	-1.0					
1	B	8	2.7	-1.0	9	-2.3	0.2	4	0.625	8.00	8.00	0.375
		1	-0.1	0.8	8	2.7	-1.0					
2 *	D	1	2.7	7.2	2	-3.5	-5.7	4	0.750	6.00	10.25	0.500
		3	-0.1	18.5	4	0.9	-27.1					
2 *	A	5	3.3	-8.6	1	-2.7	8.5	4	0.750	6.00	10.25	0.500
		6	0.1	18.6	7	-0.9	-26.9					
1	D	1	1.9	4.9	2	-2.0	-3.1	4	0.750	6.00	10.25	0.375
1	A	5	2.0	-3.1	1	-1.9	4.9	4	0.750	6.00	10.25	0.375
		1	-1.9	4.9	5	2.0	-3.1					

2 * Frame Lines :2 3

Load Id	Load Combination
1	DL+CL+LL
2	DL+CL+1.30WL1
3	DL+CL-1.30LnWnd2
4	DL+CL+1.30LnWnd1
5	DL+CL+1.30WR1
6	DL+CL-1.30LnWnd1
7	DL+CL+1.30LnWnd2
8	DL+CL+1.30WR1+1.30WS
9	DL+CL+1.30WP+1.30LnWnd1
10	DL+CL+1.30WL1+1.30WS

BRACING/PANEL SHEAR REACTIONS:

Wall Loc	Wall Line	Col Line	Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft)
L_EW	1	Rigid Frame At Endwall					
F_SW	A	Wind Column In Wall					
R_EW	4	No Bracing Used					0
B_SW	D	Wind Column In Wall					

WIND COLUMNS:

Wall Loc	Wall Line	Col Line	Load_Id	Reaction(k,f-k) Horz	Vert	Moment	Anc._Bolt No	Dia	Base_Plate(in) Width	Length	Thick
F_SW	A	2	Wind	2.3	17.2	22.9	2	0.750	6.000	11.00	0.500
			Seismic	0.5	3.5	4.6					
B_SW	D	2	Wind	2.3	17.2	22.9	2	0.750	6.000	11.00	0.500

Seismic 0.5 3.4 4.5

7122 Additional Reactions Report: 8/29/07 12:45am

Rigid Frame Column Reactions

Frame Line	Col Line	---Dead--- Horz	Vert	Collateral Horz	Vert	---Live--- Horz	Vert	---Snow--- Horz	Vert	-Wind_L1-- Horz	Vert
2 *	D	0.4	1.2	0.5	1.3	1.8	4.7	-0.1	-0.1	-3.4	-6.3
2 *	A	-0.4	1.4	-0.5	1.3	-1.8	5.9	0.1	1.1	-0.5	-6.8
1	D	0.3	0.9	0.3	0.7	1.3	3.3	0.0	0.0	-2.0	-3.6
1	A	-0.3	0.9	-0.3	0.7	-1.3	3.3	0.0	0.0	-0.1	-2.6

Frame Line	Col Line	-Wind_R1-- Horz	Vert	-Wind_L2-- Horz	Vert	-Wind_R2-- Horz	Vert	-LnWind_1- Horz	Vert	-LnWind_2- Horz	Vert
2 *	D	0.3	-4.5	-3.4	-3.6	0.4	-1.9	0.0	-22.7	-0.8	-22.1
2 *	A	3.3	-8.6	-0.5	-4.2	3.2	-6.0	0.8	-22.1	0.0	-22.7
1	D	0.1	-2.6	-1.9	-2.1	0.1	-1.1	0.0	-3.0	-0.4	-2.7
1	A	2.0	-3.6	-0.1	-1.1	1.9	-2.1	0.4	-2.7	0.0	-3.0

Frame Line	Col Line	Seismic_L- Horz	Vert	Seismic_R- Horz	Vert	Ln_Seismic Horz	Vert
2 *	D	-0.2	-0.1	0.2	0.1	0.0	-4.0
2 *	A	-0.2	0.1	0.2	-0.1	0.0	-4.1
1	D	-0.1	-0.1	0.1	0.1	0.0	0.0
1	A	-0.1	0.1	0.1	-0.1	0.0	0.0

2 * Frame Lines :2 3

Endwall Column Reactions

Frame Line	Col Line	Dead Vert	Coll Vert	Live Vert	Snow Vert	-Brc_Wind_L- Horz	Vert	-Brc_Wind_R- Horz	Vert	Out_Of_Plane Wind_P Horz	Wind_S Horz
1	C	0.2	0.0	0.6	0.6	0.0	0.0	0.0	0.0	-1.7	2.1
1	B	0.2	0.0	0.6	0.6	0.0	0.0	0.0	0.0	-1.7	2.1

Endwall Column Reactions

Frame Line	Col Line	-Raf_Wind_L- Horz	Vert	-Raf_Wind_R- Horz	Vert	LnWind Vert	--Seismic_L- Horz	Vert	--Seismic_R- Horz	Vert
1	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

```
================================================================================
 7122                Seismic Design Report:                  8/29/07 12:45am
================================================================================


      Building Data
      -------------
        Code                =FBC  04
        Length              =  60.00
        Width               =  40.00
        Left  Eave Height   =  12.00
        Right Eave Height   =  12.00

      Seismic Formula
      ---------------
        Base  Shear, V      = 0.667*1.2*Fa*Ss*W/R


        Shear Force, E      = Omega*Rho*V

        Fa*Ss               =   0.200
        Zone/Design Category=   D
        Rho                 =  2-20/(RMax*SQRT(W*L))

      Seismic Dead Load, W
      --------------------
        Roof   Dead+Collat  =    5.00 (psf  )
        Frame  Dead         =    2.00 (psf  )
        Roof   Total        =    7.00 (psf  )    , Weight=  17.05 (k )
        L_EW   Dead         =    2.00 (psf  )    , Weight=   0.61 (k )
        F_SW   Dead         =    2.00 (psf  )    , Weight=   0.72 (k )
        R_EW   Dead         =    2.00 (psf  )    , Weight=   0.61 (k )
        B_SW   Dead         =    2.00 (psf  )    , Weight=   0.72 (k )
        L_EW Extend Dead    =    2.00 (psf  )    , Weight=   0.12 (k )
        F_SW Extend Dead    =    2.00 (psf  )    , Weight=   0.23 (k )
                                                             -------
                                                   Total =  20.07 (k )

      Seismic Forces
      --------------

        Roof Bracing
                        R  =   5.00, Rho=   1.18, RMax=   0.50, Omega=   2.00
                        W  =  18.28 (k )
                Force, V   =   0.58 (k )
                Force, E   =   1.39 (k )

        Wind Columns
          Front         R  =   3.50, Rho=   1.18, RMax=   0.50, Omega=   1.00
                        W  =  10.10 (k )
                Force, V   =   0.46 (k )
                Force, E   =   0.55 (k )
          Back          R  =   3.50, Rho=   1.18, RMax=   0.50, Omega=   1.00
                        W  =   9.87 (k )
                Force, V   =   0.45 (k )
                Force, E   =   0.53 (k )

        Rigid Frames
                        R  =   3.50, Rho=   1.00, RMax=   0.33, Omega=   1.00
          Frame 1       W  =   6.56 (k )
                Force, V   =   0.30 (k )
                Force, E   =   0.30 (k )
          Frame 2       W  =   3.94 (k )
                Force, V   =   0.18 (k )
                Force, E   =   0.18 (k )

        End Plates
```

Frame R = 3.50, Omega= 3.00

SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT
9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

GENERAL PERMIT

PERMITTEE:
DR. CLIFFORD ADDISON
POST OFFICE BOX 446
BRANFORD, FL 32008

PERMIT NUMBER: ERP07-0157
DATE ISSUED: 05/08/2007
DATE EXPIRES: 05/08/2010
COUNTY: COLUMBIA
TRS: S34/T3S/R16E

PROJECT: ADDISON ANIMAL HOSPITAL

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

DR. CLIFFORD ADDISON
POST OFFICE BOX 446
BRANFORD, FL 32008

Duplicate

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource general permit is in effect for the permitted activity description below:

Construction and operation of a surface water management system serving 0.34 acres of impervious on a total area of 1.03 acres. The project shall be constructed in a manner consistent with the application package submitted by Causseaux & Ellington, Inc., and received by the District on April 13, 2007. The plans were signed and sealed by Robert J. Walpole, P.E., on April 11, 2007.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing or mediation. Please refer to enclosed notice of rights.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

Standard Conditions for All General Permits:

1. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.

2. Water quality data representative of the water discharged from the permitted system, including, but not limited to, the parameters in chapter 62-302, F.A.C., shall be submitted to the District as required. If water quality data are required, the permittee shall provide data as required on the volume and rate of discharge including the total volume discharged during the sampling period. All water quality data shall be in accordance with and reference the specific method of analysis in "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association or "Methods for Chemical Analysis of Water and Wastes" by the U.S. Environmental Protection Agency.

3. The operational and maintenance phase of an environmental resource permit will not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. If required by the District, such as-built certification shall be made by an engineer or surveyor. Within 30 days after the completion of construction of the system, the permittee shall notify the District that the facilities are complete. If appropriate, the permittee shall request transfer of the permit to the responsible entity approved by the District for operation and maintenance. The District may inspect the system and, as necessary, require remedial measures as a condition of transfer of the permit or release for operation and maintenance of the system.

4. Off-site discharges during and after construction shall be made only through the facilities authorized by the permit. Water discharged from the project shall be through structures suitable for regulating upstream stage if so required by the District. Such discharges may be subject to operating schedules established by the District.

5. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and chapter 40B-1, F.A.C.

6. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance, alteration, abandonment, or development in a Works of the District which is authorized by the permit.

7. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

8. It is the responsibility of the permittee to obtain all other clearances, permits, or authorizations required by any unit of local, state, or federal government.

9. The surfacewater management system shall be constructed prior to or concurrent with the development that the system is intended to serve and the system shall be completed within 30 days of substantial completion of the development which the system is intended to serve.

10. Except for General Permits After Notice or permits issued to a unit of government, or unless a different schedule is specified in the permit, the system shall be inspected at least once every third year after transfer of a permit to operation and maintenance by the permittee or his agent to ascertain that the system is being operated and maintained in a manner consistent with the permit. A report of inspection is to be sent to the District within 30 days of the inspection date. If required by chapter 471, F.S., such inspection and report shall be made by an engineer.

11. The permittee shall allow reasonable access to District personnel or agents for the purpose of inspecting the system to insure compliance with the permit. The permittee shall allow the District, at its expense, to install equipment or devices to monitor performance of the system authorized by their permit.

12. The surfacewater management system shall be operated and maintained in a manner which is consistent with the conditions of the permit and chapter 40B-4.2040, F.A.C.

13. The permittee is responsible for the perpetual operation and maintenance of the system unless the operation and maintenance is transferred pursuant to chapter 40B-4.1130, F.A.C., or the permit is modified to authorize a new operation and maintenance entity pursuant to chapter 40B-4.1110, F.A.C.

14. All activities shall be implemented as set forth in the plans, specifications and performance

criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.

15. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

16. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.

17. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site-specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

18. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has temporarily or permanently ceased.

19. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40B-1.901(14) indicating the actual start date and the expected completion date.

20. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40B-1.901(15). These forms shall be submitted during June of each following year.

21. For those systems which will be operated or maintained by an entity requiring an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or

maintenance documents as are required by Paragraph 40B-4.2030(2)(g), F.A.C., and Rule 40B-4.2035, F.A.C., must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of District rules will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

22. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

23. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, using the supplied As-Built Certification Form No. 40B-1.901(16) incorporated by reference in Subsection 40B-1.901(16), F.A.C. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;

b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including

cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;

c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;

d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;

e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;

f. Existing water elevation(s) and the date determined; and

g. Elevation and location of benchmark(s) for the survey.

24. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph 23 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Rule 40B-4.2035, F.A.C., accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the approved responsible operation and maintenance operating entity if different from the permittee. Until the permit is transferred pursuant to Rule 40B-4.1130, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

25. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.

26. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and in this chapter and Chapter 40B-4, F.A.C.

27. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other

lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

28. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under 40B-400.046, F.A.C., provides otherwise.

29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.

31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

Special limiting conditions made part of this permit are as follows:

32. The terms and conditions of this permit supersede those of permit number 4-90-00018 issued by the District to Columbia County Veterinary Clinic on June 4, 1990.

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by Jerry Bowden
District Staff

Date Approved 05/08/07

Clerk

Executive Director

NOTICE OF RIGHTS

1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the Suwannee River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Section 120.569 and 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57 Florida Statutes. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, Florida Administrative Code.

2. If the Governing Board takes action which substantially differs from the notice of District decision to grant or deny the permit application, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may chose to pursue mediation as an alternative remedy as described above. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). Such a petition must comply with Chapter 28-106, Florida Administrative Code.

3. A substantially interested person has the right to a formal administrative hearing pursuant to Section 120.569 and 120.57(1), Florida Statutes, where there is a dispute between the District and the party regarding an issue of material fact. A petition for formal hearing must comply with the requirements set forth in Rule 28-106.201, Florida Administrative Code.

4. A substantially interested person has the right to an informal hearing pursuant to Section 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.

5. A petition for an administrative hearing is deemed filed upon receipt of the petition by the Office of the District Clerk at the District Headquarters in Live Oak, Florida.

6. Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing pursuant to Rule 28-106.111, Florida Administrative Code.

7. The right to an administrative hearing and the relevant procedures to be followed is governed by Chapter 120, Florida Statutes, and Chapter 28-106, Florida Administrative Code.

8. Pursuant to Section 120.68, Florida Statutes, a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.

9. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy of the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.

10. For appeals to the District Courts of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.

11. Failure to observe the relevant time frames for filing a petition for judicial review, or for Commission review, will result in waiver of the right to review.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Notice of Rights has been sent by U.S. Mail to:

DR. CLIFFORD ADDISON
POST OFFICE BOX 446
BRANFORD, FL 32008

At 4:00 p.m. this 11 day of May, 2007.

Jon M. Dinges
Deputy Clerk
Suwannee River Water Management District
9225 C.R. 49

Live Oak, Florida 32060
386.362.1001 or 800.226.1066 (Florida only)

cc: File Number: ERP07-0157

Notice of Treatment 12732

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 526 SE BAYA AVE
City LAKE CITY Phone 752-1703

Site Location: Subdivision Russel N. Const
Lot # _____ Block# _____ Permit # 26195
Address 222 SW CR. 252B Animal Hospital

Product used	Active Ingredient	% Concentration
☒ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☒ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Addition	2400	200	170 gals

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

9-19-07 Date | 10:30 Time | F299 Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©

SUMMARY REPORT OF A GEOTECHNICAL SITE EXPLORATION

ADDISON ANIMAL HOSPITAL
LAKE CITY, FLORIDA

PROJECT NO. 10004

Prepared For:

HUDSON & COMPANY, INC.

APRIL 2007

April 4, 2007

Mr. John Hudson
Hudson & Company, Inc.
211 SW 4th Avenue, Suite 3
Gainesville, Florida 32601

Subject: Summary Report of a Geotechnical Site Exploration
Addison Animal Hospital
Lake City, Florida
Project No. 10004

Dear Mr. Hudson:

We are pleased to submit this geotechnical site exploration report for the above referenced project. Presented herein are the findings and conclusions of our exploration, including the geotechnical recommendations for foundation and storm water management designs.

We appreciate this opportunity to have assisted you on this project. If you have any questions or comments concerning this report, please contact us.

Sincerely,

Joakim (Jay) B. Nordqvist, P.E.
Principal Engineer
Florida Registration Number 42681

Kenneth L. Hill, P.E. 4/4/07
Principal Engineer
Florida Registration Number 40146

\Projects\10004 Addison Animal Hospital\10004.doc

Distribution: Addressee (2)
Causseaux & Ellington, Inc. (4)
File (1)

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APPENDIX

1.0 INTRODUCTION

1.1 General

Hudson & Company, Inc. authorized this geotechnical exploration of the proposed additions and improvements to the Addison Animal Hospital in Lake City, Florida. Our exploration was performed in accordance with our proposal No. 2007-005 dated March 7, 2007, which was authorized by Mr. John Hudson on March 9, 2007.

1.2 Project Description

The site is located at 222 SW County Road 252B in Lake City, Florida. A project site location map is provided in Figure 1. The site is currently developed with a building, parking lots and a storm water retention pond. The site is partially wooded and the topography generally slopes down gently to the south.

Mr. Robert J. Walpole, P.E., the project civil engineer, provided a Conceptual Site Plan that showed the proposed improvements. The proposed project will include a single-story addition onto the west end of the existing building, and a storm water management facility.

The finished floor elevation of the proposed building was not provided, but is expected to match the existing building and be near the existing grades. The structural loads of the proposed building are expected to be on the order of 2 to 4 kips per foot for bearing walls, and 30 to 50 kips for columns.

1.3 Purpose

The purpose of this geotechnical exploration was to determine the general subsurface conditions, evaluate these conditions with respect to the proposed construction, and prepare geotechnical recommendations for the design of the foundations and storm water management facilities.

2.0 FIELD AND LABORATORY TESTS

2.1 General Description

The procedures used for field sampling and testing are in general accordance with industry standards of care and established geotechnical engineering practices for this geographic region. Our exploration consisted of performing two Standard Penetration Test (SPT) borings to a depth of 20 feet below land surface (bls) at the building location. We also performed two auger borings to a depth of 10 feet bls in the building area and three auger borings to a depth of 15 feet bls in the area of the storm water storm water management facility. The soil borings were performed at the approximate locations as shown on Figure 2. The soil borings were performed on March 15, 2007.

2.2 Standard Penetration Test Borings

The soil borings were performed with a drill rig employing mud rotary drilling techniques and Standard Penetration Testing (SPT) in accordance with ASTM Specifications D-1586. The SPTs were performed continuously to ten feet and at five-foot intervals thereafter. Soil samples were obtained at the depths where the SPTs were performed. The soil samples were classified in the field, placed in sealed containers, and returned to our laboratory for further evaluation.

After drilling to the sampling depth and flushing the borehole, the standard two-inch O.D. split-barrel sampler was seated by driving it six inches into the undisturbed soil. Then the sampler was driven an additional 12 inches by blows of a 140-pound hammer falling 30 inches. The number of blows required to produce the 12 inches of penetration were recorded as the penetration resistance ("N" value). These values and the complete SPT boring logs are provided in Section 5.1.

Sampling performed in the upper ten feet utilized a 24-inch long split spoon. The sampler was driven 24 inches and the blows required to drive the sampler the middle two six-inch increments were recorded as the "N" value. Through this technique, the upper ten feet of the soil was sampled continuously. Upon completion of the sampling, the boreholes were abandoned in accordance with Water Management District regulations.

2.3 Auger Borings

The auger borings were performed in accordance with ASTM Specification D-1452. The borings were performed with hand and flight auger equipment that was rotated into the ground in a manner that reduces soil disturbance. After penetrating to the required depth, the auger was retracted and the soils collected in the auger bucket were field classified and placed in sealed containers. Representative samples of each stratum were retained from the auger borings. Results from the auger borings are provided in Section 5.2.

2.4 Soil Laboratory Tests

The soil samples recovered from the soil borings were returned to our laboratory, and examined to confirm the field descriptions. Representative samples were then selected for laboratory testing. The laboratory tests consisted of seven percent retained on the No. 40 and passing the No. 200-sieves determinations with natural moisture contents, three constant head permeability tests, one organic content test and one Atterberg Limits test. These tests were performed in order to aid in classifying the soils and to further evaluate their engineering properties. The laboratory tests are provided in Section 5.3.

3.0 FINDINGS

3.1 Surface Conditions

The site is developed with the existing Addison Animal Hospital. The existing development includes a single-story, steel frame building, a parking lot and a storm water management facility. The site topography generally slopes down gently to the south.

3.2 Subsurface Conditions

The locations of the SPT and auger borings are provided on Figure 2. Complete logs for the borings are provided in Sections 5.1 and 5.2. Descriptions for the soils encountered are accompanied by the Unified Soil Classification System symbol (SM, SP-SM, etc.) and are based on visual examination of the recovered soil samples and the laboratory tests performed. Stratification boundaries between the soil types should be considered approximate, as the actual transition between soil types may be gradual.

The SPT and auger borings indicate that soil conditions across the project site are relatively consistent, generally consisting of 2 to 4 feet of loose sand and sand with silt (SP, SP-SM) overlying medium dense clayey sand (SC) and stiff clay (CL/CH) to the boring termination depths. Sandy clay (CL) was encountered below a depth of 4.5 feet bls at location B-1. A layer of organic materials that appears to be topsoil fill materials was encountered at location A-4 from land surface to a depth of 2.5 feet bls.

The groundwater table was encountered at depths of 4 to 8.5 feet bls at the time of our exploration.

3.3 Review of Published Data

The Soil Conservation Service (SCS) Soil Survey for Columbia County[1] maps three soil types at this site, consisting of Blanton fine sand, Bonneau fine sand and Plummer fine sand. The following soil descriptions are from the Soil Survey.

Blanton fine sand, 0 to 5 percent slopes - This is a moderately well drained, nearly level to gently sloping soil on broad ridges and undulating side slopes. The areas of this soil range from about 20 to 1,000 acres and are irregular in shape.

Typically, the surface layer is gray fine sand about 7 inches thick. The subsurface layer is very pale brown fine sand in the upper 30 inches and light gray fine sand in the lower 15 inches. The subsoil extends to a depth of 80 inches. In the upper 10 inches, it is light yellowish brown fine sandy loam with brownish yellow mottles; in the next 5 inches, it is very pale brown with strong brown and pale brown mottles; and in the lower part, it is light brownish gray fine sandy loam with strong brown mottles.

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[1] Soil Survey of Columbia County, Florida. Soil Conservation Service, U.S. Department of Agriculture.

Included with this soil in mapping are small areas of Albany, Alpin, Chipley, Lakeland, Ocilla, Troup, and Bonneau soils. These soils make up less than 15 percent of the map unit.

This Blanton soil has a water table at a depth of 5 to 6 feet most of the year. In wet seasons, a perched water table is above the subsoil for less than a month. The available water capacity is medium in the surface layer and low in the subsurface layer and subsoil. Permeability is rapid in the surface and subsurface layers and moderate in the subsoil. Natural fertility and the organic matter content are low.

Bonneau fine sand, 5 to 8 percent slopes - This is a moderately well drained, sloping soil on short hillsides in the uplands. The areas range from 3 to 50 acres and are circular.

Typically, the surface layer is grayish brown fine sand about 5 inches thick. The subsurface layer is fine sand about 17 inches thick. The upper 7 inches is yellowish brown; the next 7 inches is light yellowish brown; the lower 3 inches is pale brown. The subsoil in the upper 6 inches is yellowish brown sandy clay loam. Below that, yellowish brown, pale brown, and strong brown mottled sandy clay loam extends to a depth of 36 inches. Below that, sandy clay loam with yellowish brown, brownish yellow, yellowish red, and light brownish gray mottles extends to a depth of 80 inches or more.

Included with this soil in mapping are small areas of Ichetucknee, Ocilla, Goldsboro, and Lucy soils. These included soils make up less than 20 percent of the map unit.

This Bonneau soil has a perched water table at a depth of 48 to 72 inches for 1 to 2 months during rainy periods in most years. Otherwise, the water table is at a depth of more than 72 inches. The available water capacity is low in the surface and subsurface layers and medium in the subsoil. Permeability is rapid in the surface and subsurface layers and moderate in the subsoil. The natural fertility is moderate, and the organic matter content is very low.

Plummer fine sand - This is a poorly drained, nearly level soil in broad flat areas or in areas adjoining drainageways and ponds. The areas range from 5 to 100 acres and are irregularly shaped. The slope is 0 to 2 percent.

Typically, the surface layer is fine sand. The upper 4 inches is very dark gray mixed with uncoated sand grains, and the next 5 inches is dark grayish brown with very dark gray mottles. The subsurface layer is gray fine sand in the upper 18 inches and white fine sand from a depth of 27 to 56 inches. The subsoil is light gray fine sandy loam underlain by sandy clay loam that extends to a depth of 80 inches or more.

Included with this soil in mapping are small areas of Hurricane, Pelham, and Albany soils. Also included are areas of soils that are similar to the Plummer soil but that have a clayey subsoil, have phosphatic pebbles and iron concretions, or have weakly cemented organic layers in the subsurface layer. The included soils make up less than 20 percent of the map unit.

This Plummer soil has a water table within 15 inches of the surface for 6 to 8 months during most years. The water table recedes to a depth of more than 40 inches during very dry periods.

The available water capacity is medium in the surface layer, low in the subsurface layer, and very low in the subsoil. Permeability is rapid in the surface and subsurface layers and moderately slow in the subsoil. Natural fertility and the organic matter content are low.

The soil types encountered by the soil borings at this site are generally consistent with the County soil survey mapping.

3.4 Laboratory Soil Analysis

Selected soil samples recovered from the soil borings were analyzed for natural moisture content, the percent passing the No. 200 sieve, organic content, the Atterberg Limits and vertical permeability. Locations of the soil borings are shown on Figure 2. Selected soil samples were collected from depths ranging from 1 to 7 feet bls. These tests were performed to confirm visual soil classification and evaluate their engineering properties. The complete laboratory report is provided in Section 5.3.

The laboratory tests indicate the near surface soils generally consist of sand and sand with silt (SP, SP-SM) having about 5 to 8 percent passing the No. 200 sieve. The deeper clayey sand (SC) has about 22 to 30 percent passing the No. 200 sieve. The sandy clay at location B-1 has 50 percent soil fines passing the No. 200 sieve. The topsoil fill material at location A-4 has 5.2 percent organic material. Soils with more than about 5 percent organics are considered deleterious.

The Atterberg Limits test performed on the sandy clay sand recovered from boring B-1 indicates this soil has a Liquid Limit of 31 and a Plasticity Index of 13, which results in a CL classification and a low potential for expansive behavior (U.S. Department of the Army USA, 1983. Foundations in Expansive Soils, TM 5-818-7, p. 4-1).

The constant head permeability tests results indicate the upper layer of sand and sand with silt has vertical coefficients of permeability of 22 to 44 feet per day (7.79×10^{-3} cm/sec to 1.56×10^{-2} cm/sec).

4.0 EVALUATION AND RECOMMENDATIONS

4.1 General

The following recommendations are made based upon our understanding of the proposed construction, a review of the attached soil borings and laboratory test data, and experience with similar projects and subsurface conditions. If plans or the location of proposed construction changes from those discussed previously, we request the opportunity to review and possibly amend our recommendations with respect to those changes.

In this section of the report, we present our recommendations for building foundations, groundwater control and general site development.

4.2 Groundwater

The groundwater table was encountered in the borings at depths of 4 to 8.5 feet bls at the time of our exploration. The seasonal high groundwater table is expected to perch above the clayey sand and range from about 2 to 3 feet bls at the boring locations.

4.3 Building Foundations

The soil borings performed indicate the soils at the site have a relatively consistent profile, encountering 2 to 4 feet of sand and sand with silt overlying loose to medium dense clayey sand and stiff clay at depth. The Atterberg Limits test indicates the sandy clay at location B-1 has a low potential for expansive behavior, and that no special foundation considerations related to the clay are necessary. The deeper clay is well below the water table, and is not expected to be a concern for shallow foundations.

If the site is prepared in accordance with the recommendations in this report, it is our opinion the proposed structures can be supported by conventional, shallow spread footings designed for a maximum net soil bearing pressure of 3000 psf. Net bearing pressure is defined as the soil bearing pressure at the base of the foundation in excess of the natural overburden pressure. The foundations should be designed based upon the maximum load that could be imposed by all loading conditions.

The foundations should be embedded a minimum of 18 inches below the lowest adjacent grade. Interior foundations or thickened sections should be embedded a minimum of 12 inches. The foundations should have minimum widths of 20 inches for strip footings, and 24 inches for columns, even though the maximum soil bearing pressure may not be fully developed. If the bearing surface is poorly graded sand or sand with silt (SP, SP-SM), the upper 12-inches should be compacted to 95 percent of the Modified Proctor maximum dry density (ASTM D 1557). If clayey sands are present at the bearing depth, they should probed to confirm the upper 12 inches are firm and unyielding.

Due to the sandy nature of the majority of the near surface soils, we expect settlement to be mostly elastic in nature. The majority of the settlement will occur on application of the loads, during and immediately following construction. Using the recommended maximum bearing pressure, the assumed maximum structural loads, and the field and laboratory test data which we have correlated into the strength and compressibility characteristics of the subsurface soils, we estimate the total settlements of the structure to be 1-inch or less, with approximately half of it occurring upon load application (during construction).

Differential settlement results from differences in applied bearing pressures and the variations in the compressibility characteristics of the subsurface soils. For the building pad prepared as recommended, we anticipate differential settlement of less than 1/2-inch.

Post-construction settlement of the structures will be influenced by several interrelated factors, such as (1) subsurface stratification and strength/compressibility characteristics of the bearing soils; (2) footing size, bearing level, applied loads, and resulting bearing pressures beneath the foundation; (3) site preparation and earthwork construction techniques used by the contractor, and (4) external factors, including but not limited to vibration from offsite sources and groundwater fluctuations beyond those normally anticipated for the naturally-occurring site and soil conditions which are present.

Our settlement estimates for the structure are based upon the use of successful adherence to the site preparation recommendations presented later in this report. Any deviation from these recommendations could result in an increase in the estimated post-construction settlement of the structure.

4.4 Site Preparation

The soils at this site should be suitable for supporting the proposed construction using normal, good practice site preparation procedures. The following recommendations are our general guidelines for site preparation.

4.4.1 Stripping

Strip the construction limits and 10 feet beyond the perimeter of all grass, roots, topsoil and other deleterious materials. You should expect to strip to depths of 6 to 12 or more inches. Deeper stripping will be necessary in areas of major root systems associated with the trees on site and in the vicinity of boring A-4 where the topsoil fill materials were encountered.

4.4.2 Dewatering

Temporary dewatering may be necessary at this site. Perched groundwater may be present above the layer of clayey sand after periods of heavy rainfall. Temporary dewatering can likely be accomplished with sumps placed outside the construction area. The site should always be graded

to promote runoff and limit the amount of ponding. Localized ponding of storm water is expected without proper grading during construction, and could render previously acceptable surfaces unacceptable.

4.4.3 Proof-Rolling

Proof-roll the subgrade with heavy rubber-tired equipment, such as a loaded front-end loader or dump truck, to identify any loose or soft zones not found by the soil borings. Undercut or otherwise treat these zones as recommended by the geotechnical engineer in this report.

4.4.4 Proof Compaction

Compact the subgrade with vibratory equipment until a density of at least 95 percent of the Modified Proctor maximum dry density (ASTM Specification D-1557) is obtained to a depth of 1 foot below the foundation bottoms and the existing grade prior to placing fill. This compaction requirement applies to the upper layer of sand (SP, SP-SM) encountered by the borings. If the foundation excavations penetrate the clayey sand, we recommend the excavation be performed in a manner that reduces soil disturbance. The clayey sand subgrade soils should be visually observed and probed to confirm they are firm and unyielding in the upper 12 inches. Compaction tests are not required in the clayey sand.

4.4.5 Fill Placement

Imported fill placed to raise the site grades should consist of clean sand having less than 10 percent passing the No. 200 sieve. The fill should be placed in maximum 12 inch loose lifts that are compacted to at least 95 percent of the Modified Proctor maximum dry density. If lighter "walk-behind" compaction equipment is used, this may require lifts of 4-inches or less to achieve the required degree of compaction.

The upper layer of sandy soils (with exception of topsoil) excavated from the basin location (SP, SP-SM) should be suitable for use as structural fill, assuming it has less than 5 percent organic material and is free of roots and other deleterious debris.

Most of the clayey sand soils at deeper depths are considered suitable for use as structural fill or as stabilized subgrade material for proposed pavements, but may be a less desirable source of fill, as these soils are moisture sensitive and can be difficult to compact unless they are worked at close to optimum moisture. If clay rich soils are utilized, we recommend that they contain less than 30 percent fines (Passing the No. 200 sieve) with a plastic limit of less than 20 and liquid limit less than 45. If these soils have fines in excess of 15 percent, these soils should be compacted to 98 percent of the Standard Proctor maximum dry density (ASTM D698).

4.4.6 Testing

Perform compaction testing in the fill. One test should be performed every 50 linear feet of continuous footing and every other column footing, per foot depth of fill or native material.

Perform a compaction test for each 2500 square feet of floor area per foot of fill or native material, or a minimum of three tests, whichever is greater. Test all footing excavations to a depth of 1 foot, at the frequencies stated above.

4.5 Surface Water Control and Landscaping

Roof gutters should be considered to divert runoff away from the building. The gutter downspouts should discharge a minimum of 5 feet from the structure to reduce the amount of water collecting around the foundations. Grading of the site should be such that water is diverted away from the building on all sides.

With respect to landscaping, it is recommended that trees and large "tree-like" shrubbery be planted a minimum distance of half their mature height, and preferably their expected final height, away from the structure. The purpose of this is to reduce the potential for foundation movements from the growth of root systems as the landscaping matures.

4.6 Storm Water management Facilities

The soil conditions at the storm water management facility were relatively consistent, consisting of sand with silt to a depth of approximately 4 feet overlying clayey sand.

The water table was encountered at depths of 4 to 8.5 feet bls at the storm water management facility location. We estimate the seasonal high water table will be approximately 2.5 feet bls. The laboratory permeability tests indicate the surficial layer of sand and sand with silt has vertical coefficients of permeability of 22 to 44 feet per day.

Based upon our findings and test results, we recommend the following soil parameters for the southern storm water management area design:

1. Base elevation of effective or mobilized aquifer (average depth of confining layer) equal to 4 feet bls.
2. Unsaturated vertical infiltration rate of 20 feet per day.
3. Horizontal hydraulic conductivity of 25 feet per day.
4. Specific yield (fillable porosity) of 25 percent
5. Normal seasonal high groundwater table depth of 2.5 feet bls.

A factor of safety of 2 should be applied to the infiltration and hydraulic conductivity values provided.

5.0 FIELD DATA

5.1 Standard Penetration Test Boring Logs

BORING NUMBER B-1

PROJECT NUMBER	10004	**DATE STARTED:**	3/15/07
PROJECT NAME	Addison Animal Hospital	**DATE COMPLETED**	3/15/07
LOCATION	Lake City, Florida	**CASING TYPE/DIAMETER**	---
DRILLING METHOD	Mud Rotary	**SCREEN TYPE/SLOT**	---
SAMPLING METHOD	SPT	**GRAVEL PACK TYPE**	---
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	---
TOP OF CASING	---	**DEPTH TO WATER**	7.5
LOGGED BY	G.W.	**GROUND WATER ELEVATION**	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
	2 3 3		SPT 1			SP		Loose Tan Sand	
	2 2		SPT 2						3.5
	2 3		SPT 3			SM		Very Loose Orange Silty Sand	4.5
	5 8 7 9		SPT 4		5	CL		Stiff to Very Stiff Gray and Orange Sandy Clay	
	11 10 11		SPT 5					▼	
	11 7 11 15		SPT 6		10				12.0
	3 3		SPT 7			SP-SC		Loose Tan Fine Sand with lenses of clay	14.5
	5				15	CL		Stiff Green Clay	
	3 4 5		SPT 8		20				20.0
								Bottom of borehole at 20.0 feet.	

BORING NUMBER B-2

PROJECT NUMBER	10004	**DATE STARTED:**	3/15/07
PROJECT NAME	Addison Animal Hospital	**DATE COMPLETED**	3/15/07
LOCATION	Lake City, Florida	**CASING TYPE/DIAMETER**	---
DRILLING METHOD	Mud Rotary	**SCREEN TYPE/SLOT**	---
SAMPLING METHOD	SPT	**GRAVEL PACK TYPE**	---
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	---
TOP OF CASING	---	**DEPTH TO WATER**	8.0
LOGGED BY	G.W.	**GROUND WATER ELEVATION**	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
	3 3 3		SPT 1			SP		Loose Tan Fine Sand	
	2 3 3		SPT 2			SM		Loose Light Brown and Orange Silty Sand	3.0
	4 5 7		SPT 3		5	SC		Medium Dense Gray and Orange Clayey Sand	4.5
	7 9 8		SPT 4						7.0
	7 8 10		SPT 5			SC		Medium Dense Light Brown and Orange Silty Clayey Sand ▼	
	7 11 13		SPT 6		10				12.0
	3 5 6		SPT 7		15	CL		Stiff Green Clay with lenses of sand	
	3 5 7		SPT 8		20	CL		Stiff Orange Clay with sand	19.0 20.0
								Bottom of borehole at 20.0 feet.	

5.2 Auger Boring Logs

BORING NUMBER A-1

PROJECT NUMBER	10004	**DATE STARTED:**	3/15/07
PROJECT NAME	Addison Animal Hospital	**DATE COMPLETED**	3/15/07
LOCATION	Lake City, Florida	**CASING TYPE/DIAMETER**	---
DRILLING METHOD	Auger	**SCREEN TYPE/SLOT**	---
SAMPLING METHOD	Auger	**GRAVEL PACK TYPE**	---
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	---
TOP OF CASING	---	**DEPTH TO WATER**	8.0
LOGGED BY	G.W.	**GROUND WATER ELEVATION**	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
						SP		Light Brown Sand	0.5
			AUGER 1			SP		Tan Fine Sand	3.5
			AUGER 2		5	SM		Light Brown and Orange Silty Sand with clay	8.5
			AUGER 3		10	SP		Light Gray and Orange Fine Sand	10.0
								Bottom of borehole at 10.0 feet.	

BORING NUMBER A-2

PROJECT NUMBER	10004	**DATE STARTED:**	3/15/07
PROJECT NAME	Addison Animal Hospital	**DATE COMPLETED**	3/15/07
LOCATION	Lake City, Florida	**CASING TYPE/DIAMETER**	----
DRILLING METHOD	Auger	**SCREEN TYPE/SLOT**	----
SAMPLING METHOD	Auger	**GRAVEL PACK TYPE**	----
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	----
TOP OF CASING	----	**DEPTH TO WATER**	8.0
LOGGED BY	G.W.	**GROUND WATER ELEVATION**	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
			AUGER 1			SP		Light Brown to Tan Fine Sand	3.0
			AUGER 2		5	SC		Light Brown and Orange Clayey Sand ▼	8.5
			AUGER 3						
			AUGER 4		10	SM		Light Brown and Orange Silty Sand	10.0
								Bottom of borehole at 10.0 feet.	

BORING NUMBER A-3

PROJECT NUMBER	10004	**DATE STARTED:**	3/16/07
PROJECT NAME	Addison Animal Hospital	**DATE COMPLETED**	3/16/07
LOCATION	Lake City, Florida	**CASING TYPE/DIAMETER**	----
DRILLING METHOD	Auger	**SCREEN TYPE/SLOT**	----
SAMPLING METHOD	Auger	**GRAVEL PACK TYPE**	----
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	----
TOP OF CASING	----	**DEPTH TO WATER**	6.0
LOGGED BY	G.W.	**GROUND WATER ELEVATION**	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
			AUGER 1			SP		Tan and Orange Fine Sand	
			AUGER 2						4.0
					5			Gray and Orange Silty Clayey Sand	
			AUGER 3			SC			
			AUGER 4		10				10.0
			AUGER 5			SP		Orange Fine Sand	
									13.5
			AUGER 6			CL		Light Gray and Green Sandy clay with lenses of clay	
					15				15.0
								Bottom of borehole at 15.0 feet.	

BORING NUMBER A-4

PROJECT NUMBER	10004	**DATE STARTED:**	3/16/07
PROJECT NAME	Addison Animal Hospital	**DATE COMPLETED**	3/16/07
LOCATION	Lake City, Florida	**CASING TYPE/DIAMETER**	—
DRILLING METHOD	Auger	**SCREEN TYPE/SLOT**	----
SAMPLING METHOD	Auger	**GRAVEL PACK TYPE**	—
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	----
TOP OF CASING	----	**DEPTH TO WATER**	4.0
LOGGED BY	G.W.	**GROUND WATER ELEVATION**	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
			AUGER 1			SM		Dark Brown Silty Sand with organics	2.5
			AUGER 2			SP-SM		Tan Poorly Graded Sand with silt	4.0
			AUGER 3		5	SC		Gray and Orange Silty Clayey Sand	9.0
			AUGER 4						
			AUGER 5		10	SP		Tan Fine Sand	12.0
			AUGER 6			SC		Gray and Orange Clayey Sand	14.0
			AUGER 7		15	CL		Green and Orange Clay with sand	15.0
								Bottom of borehole at 15.0 feet.	

BORING NUMBER A-5

PROJECT NUMBER	10004	**DATE STARTED:**	3/16/07
PROJECT NAME	Addison Animal Hospital	**DATE COMPLETED**	3/16/07
LOCATION	Lake City, Florida	**CASING TYPE/DIAMETER**	---
DRILLING METHOD	Auger	**SCREEN TYPE/SLOT**	---
SAMPLING METHOD	Auger	**GRAVEL PACK TYPE**	---
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	---
TOP OF CASING	---	**DEPTH TO WATER**	8.5
LOGGED BY	G.W.	**GROUND WATER ELEVATION**	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
			AUGER 1			SP-SM		Tan Poorly Graded Sand with silt	
			AUGER 2						4.0
					5			Gray and Orange Silty Clayey Sand	
			AUGER 3			SC			
			AUGER 4		10				
			AUGER 5						13.5
			AUGER 6			SP		Tan Fine Sand	15.0
					15			Bottom of borehole at 15.0 feet.	

5.3 Laboratory Results

SDII Global Corporation

DATE: April 2, 2007

PROJECT NUMBER: 3016970

PROJECT NAME: GSE # 1004

REPORT OF ATTERBERG LIMITS, NATURAL MOISTURE CONTENT, PERCENT RETAINED ON No. 40 SIEVE, PERCENT PASSING No. 200 SIEVE, ORGANIC CONTENT AND EXPANSION INDEX

ASTM D421, D422, D653, D698, D854,D1140, D2216, D2974, D4318, D4753, D4829

Boring Number	Depth (ft)	Lab Sample Number	Liquid Limit	Plastic Limit	Plasticity Index	Natural Moisture Content (%)	Percent Retained on #40 Sieve	Percent Passing #200 Sieve	% Organics (By Weight)	Expansion Index
B - 1	5.5-7	485	31	18	13	17.9%	0.2%	49.9%	N/T	N/T
B - 2	3-4	486	N/T	N/T	N/T	14.7%	1.3%	22.1%	N/T	N/T
A - 2	4-6	487	N/T	N/T	N/T	16.9%	1.2%	30.0%	N/T	N/T
A - 3	2-4	488	N/T	N/T	N/T	9.7%	3.0%	4.5%	N/T	N/T
A - 4	0-2.5	489	N/T	N/T	N/T	12.6%	2.0%	26.9%	5.2%	N/T
A - 4	2.5-4	490	N/T	N/T	N/T	20.3%	2.4%	7.5%	N/T	N/T
A - 5	2-4	491	N/T	N/T	N/T	6.3%	2.5%	7.3%	N/T	N/T

Notes:

N/P - Nonplastic N/T - Not Tested

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CONSTANT HEAD PERMEABILITY TEST

SDII Global Corporation

PROJECT NAME: Addison Animal Hospital
PROJECT NUMBER: 3016970 **DATE:** April 2, 2007
SAMPLE NUMBER: A-3 **SAMPLE NO.:** 488
DEPTH (FEET): 2-4 **TESTED BY:** AC
DESCRIPTION OF SOIL: Light-yellowish-brown fine to medium quartz sand (SP)

[A] Unit Weight Determination

(1) Length between manometer outlets L	7.62	cm
(2) Diameter of soil specimen D	7.6	cm
(3) Cross sectional area of soil specimen	45.60	cm^2
(4) Height, H_1	17.5	cm
(5) Height, H_2	4.5	cm
(6) Height of specimen (H_1-H_2)	13.03	cm
(7) Volume of specimen [(3)x(6)]	594.17	cm^3
(8) Mass of air-dried soil before compaction, M_1	1073.3	g
(9) Mass of unused soil after compaction, M_2	252.5	g
(10) Mass of soil specimen (air-dried) [(8)-(9)	820.8	g
(11) Unit wt. of soil (air-dried) [(10)/(7)x62.4	86.2	lb/ft^3
(12) Water content	1.41	%
(13) Dry unit weight wt of soil specimen	85.0	lb/ft^3
(14) Specific gravity of soil		
(15) Volume of solids [(13)/[(14)x62.4]]		
(16) Volume of voids [1-(15)]		
(17) Void ratio, e of soil specimen [(16)/(15)]		

Water Content

Tare no.	38
wt of soil wet + can	41.04
weight of dry soil + can	40.66
Weight of Water	0.38
Tare Weight	13.8
Weight of dry soil	26.86
Water Content	1.4

[B] Permeability Test

1) Length between manometer outlets, L **7.6 cm**
2) Cross-sectional area of soil specimen **45.60 cm^2**

Trial No. (1)	Manometer readings H_1 (cm) (2)	H_2 (cm) (3)	Head h (cm) (4)=(2)-(3)	Quantity of water discharged, Q (cm^3) (5)	Time, t (s) (6)	Temp T (°C) (7)	Permeability at T °C, K_T (cm/s) (8)=QL/Ath	Ratio of viscosity at T°C Viscosity at 20 °C (9)	Permeability at 20 °C K_{20} (cm/s) (10)
1	48.0	25.0	23.0	28	13	21	1.56E-02	0.9779	1.53E-02
2	48.0	25.0	23.0	28	13	21	1.56E-02	0.9779	1.53E-02
3	48.0	25.0	23.0	28	13	21	1.56E-02	0.9779	1.53E-02
4	48.0	25.0	23.0	28	13	21	1.56E-02	0.9779	1.53E-02

Average Permeability **1.56E-02**

Mass of pycnometer when filled with water:	
Temperature adjustment:	
Mass of pycnometer when filled with water & soil:	
Mass of pycnometer adjusted for temperature:	
Mass of evaporating container:	
Mass of container and dried soil:	
Mass of solids (soil):	
Specific Gravity:	

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CONSTANT HEAD PERMEABILITY TEST

SDII Global Corporation

PROJECT NAME: Addison Animal Hospital
PROJECT NUMBER: 3016970 **DATE:** April 2, 2007
SAMPLE NUMBER: A-4 **SAMPLE NO.:** 490
DEPTH (FEET): 2.5-4 **TESTED BY:** AC
DESCRIPTION OF SOIL: Gray fine to medium quartz sand with silt (SP-SM)

[A] Unit Weight Determination

(1) Length between manometer outlets L	7.62	cm
(2) Diameter of soil specimen D	7.6	cm
(3) Cross sectional area of soil specimen	45.60	cm^2
(4) Height, H_1	17.5	cm
(5) Height, H_2	4.1	cm
(6) Height of specimen (H_1-H_2)	13.43	cm
(7) Volume of specimen [(3)x(6)]	612.41	cm^3
(8) Mass of air-dried soil before compaction, M_1	1261.0	g
(9) Mass of unused soil after compaction, M_2	332.4	g
(10) Mass of soil specimen (air-dried) [(8)-(9)	928.6	g
(11) Unit wt. of soil (air-dried) [(10)/(7)x62.4	94.6	lb/ft^3
(12) Water content	0.44	%
(13) Dry unit weight wt of soil specimen	94.2	lb/ft^3
(14) Specific gravity of soil		
(15) Volume of solids [(13)/[(14)x62.4]]		
(16) Volume of voids [1-(15)]		
(17) Void ratio, e of soil specimen [(16)/(15)]		

Water Content

Tare no.	49
wt of soil wet + can	45.51
weight of dry soil + can	45.37
Weight of Water	0.14
Tare Weight	13.81
Weight of dry soil	31.56
Water Content	0.4

[B] Permeability Test

1) Length between manometer outlets, L 7.6 cm
2) Cross-sectional area of soil specimen 45.60 cm^2

Trial No. (1)	Manometer readings H_1 (cm) (2)	H_2 (cm) (3)	Head h (cm) (4)=(2)-(3)	Quantity of water discharged, Q (cm^3) (5)	Time, t (s) (6)	Temp T (°C) (7)	Permeability at T °C, K_T (cm/s) (8)=QL/Ath	Ratio of viscosity at T°C Viscosity at 20 °C (9)	Permeability at 20 °C K_{20} (cm/s) (10)
1	48.5	25.0	23.5	30	22	21	9.70E-03	0.9779	9.48E-03
2	48.5	25.0	23.5	30	22	21	9.70E-03	0.9779	9.48E-03
3	48.5	25.0	23.5	30	22	21	9.70E-03	0.9779	9.48E-03
4	48.5	25.0	23.5	30	22	21	9.70E-03	0.9779	9.48E-03

Average Permeability 9.70E-03

Mass of pycnometer when filled with water:	
Temperature adjustment:	
Mass of pycnometer when filled with water & soil:	
Mass of pycnometer adjusted for temperature:	
Mass of evaporating container:	
Mass of container and dried soil:	
Mass of solids (soil):	
Specific Gravity:	

Monica Fowler, P.G.
Florida Registration Number 1388

CONSTANT HEAD PERMEABILITY TEST

SDII Global Corporation

PROJECT NAME: Addsion Animal Hospital
PROJECT NUMBER: 3016970 **DATE:** April 2, 2007
SAMPLE NUMBER: A-5 **SAMPLE NO.:** 491
DEPTH (FEET): 2-4 **TESTED BY:** AC
DESCRIPTION OF SOIL: Very-pale-brown fine to medium quartz sand with silt (SP-SM)

[A] Unit Weight Determination

(1) Length between manometer outlets L	7.62	cm
(2) Diameter of soil specimen D	7.6	cm
(3) Cross sectional area of soil specimen	45.60	cm^2
(4) Height, H_1	17.5	cm
(5) Height, H_2	4.2	cm
(6) Height of specimen (H_1-H_2)	13.33	cm
(7) Volume of specimen [(3)x(6)]	607.85	cm^3
(8) Mass of air-dried soil before compaction, M_1	1212.9	g
(9) Mass of unused soil after compaction, M_2	339.6	g
(10) Mass of soil specimen (air-dried) [(8)-(9)	873.3	g
(11) Unit wt. of soil (air-dried) [(10)/(7)x62.4	89.6	lb/ft^3
(12) Water content	0.52	%
(13) Dry unit weight wt of soil specimen	89.2	lb/ft^3
(14) Specific gravity of soil		
(15) Volume of solids [(13)/[(14)x62.4]]		
(16) Volume of voids [1-(15)]		
(17) Void ratio, e of soil specimen [(16)/(15)]		

Water Content

Tare no.	116
wt of soil wet + can	54.17
weight of dry soil + can	53.96
Weight of Water	0.21
Tare Weight	13.68
Weight of dry soil	40.28
Water Content	0.5

[B] Permeability Test

1) Length between manometer outlets, L 7.6 cm
2) Cross-sectional area of soil specimen 45.60 cm^2

Trial No. (1)	Manometer readings H_1 (cm) (2)	H_2 (cm) (3)	Head h (cm) (4)=(2)-(3)	Quantity of water discharged, Q (cm^3) (5)	Time, t (s) (6)	Temp T (°C) (7)	Permeability at T °C, K_T (cm/s) (8)=QL/Ath	Ratio of viscosity at T°C Viscosity at 20 °C (9)	Permeability at 20 °C K_{20} (cm/s) (10)
1	51.5	25.0	26.5	21	17	21	7.79E-03	0.9779	7.62E-03
2	51.5	25.0	26.5	21	17	21	7.79E-03	0.9779	7.62E-03
3	51.5	25.0	26.5	21	17	21	7.79E-03	0.9779	7.62E-03
4	51.5	25.0	26.5	21	17	21	7.79E-03	0.9779	7.62E-03

Average Permeability 7.79E-03

Mass of pycnometer when filled with water:	
Temperature adjustment:	
Mass of pycnometer when filled with water & soil:	
Mass of pycnometer adjusted for temperature:	
Mass of evaporating container:	
Mass of container and dried soil:	
Mass of solids (soil):	
Specific Gravity:	

Monica Fowler, P.G.
Florida Registration Number 1388

6.0 LIMITATIONS

6.1 Warranty

This report has been prepared for our client for his exclusive use, in accordance with generally accepted soil and foundation engineering practices, and makes no other warranty either expressed or implied as to the professional advice provided in the report.

6.2 Standard Penetration Test Borings

The determination of soil type and conditions was performed from the ground surface to the maximum depth of the borings, only. Any changes in subsurface conditions that occur between or below the borings would not have been detected or reflected in this report.

Soil classifications that were made in the field are based upon identifiable textural changes, color changes, changes in composition or changes in resistance to penetration in the intervals from which the samples were collected. Abrupt changes in soil type, as reflected in boring logs and/or cross sections may not actually occur, but instead, be transitional.

Depth to the water table is based upon observations made during the performance of the SPT borings. This depth is an estimate and does not reflect the annual variations that would be expected in this area due to fluctuations in rainfall and rates of evapotranspiration.

6.3 Site Figures

The measurements used for the preparation of the figures in this report were made with a fiberglass tape and by estimating distances from existing structures and site features. Figures in this report were not prepared by a licensed land surveyor and should not be interpreted as such.

6.4 Unanticipated Soil Conditions

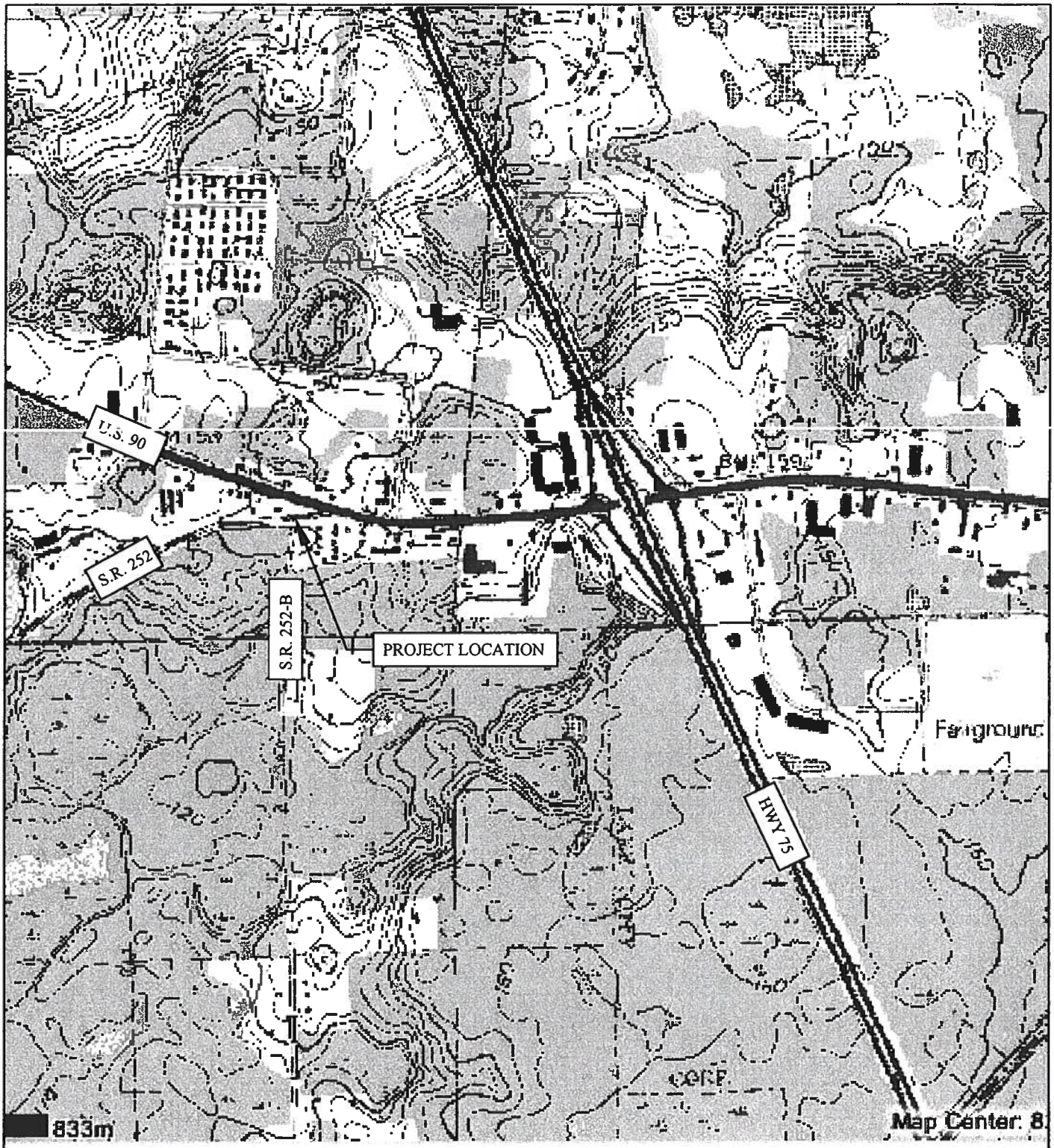
The analysis and recommendations submitted in this report are based upon the data obtained from soil borings performed at the locations indicated on the Boring Location Plan. This report does not reflect any variations that may occur between these borings.

The nature and extent of variations between borings may not become known until excavation begins. If variations appear, we may have to re-evaluate our recommendations after performing on-site observations and noting the characteristics of any variations.

6.5 Misinterpretation of Soil Engineering Report

Joakim B. Nordqvist, P.E. and Kenneth L. Hill, P.E. are responsible for the conclusions and opinions contained within this report based upon the data relating only to the specific project and location discussed herein. If others make the conclusions or recommendations based upon the data presented, those conclusions or recommendations are not the responsibility of Mr. Nordqvist or Mr. Hill.

FIGURES



NORTH

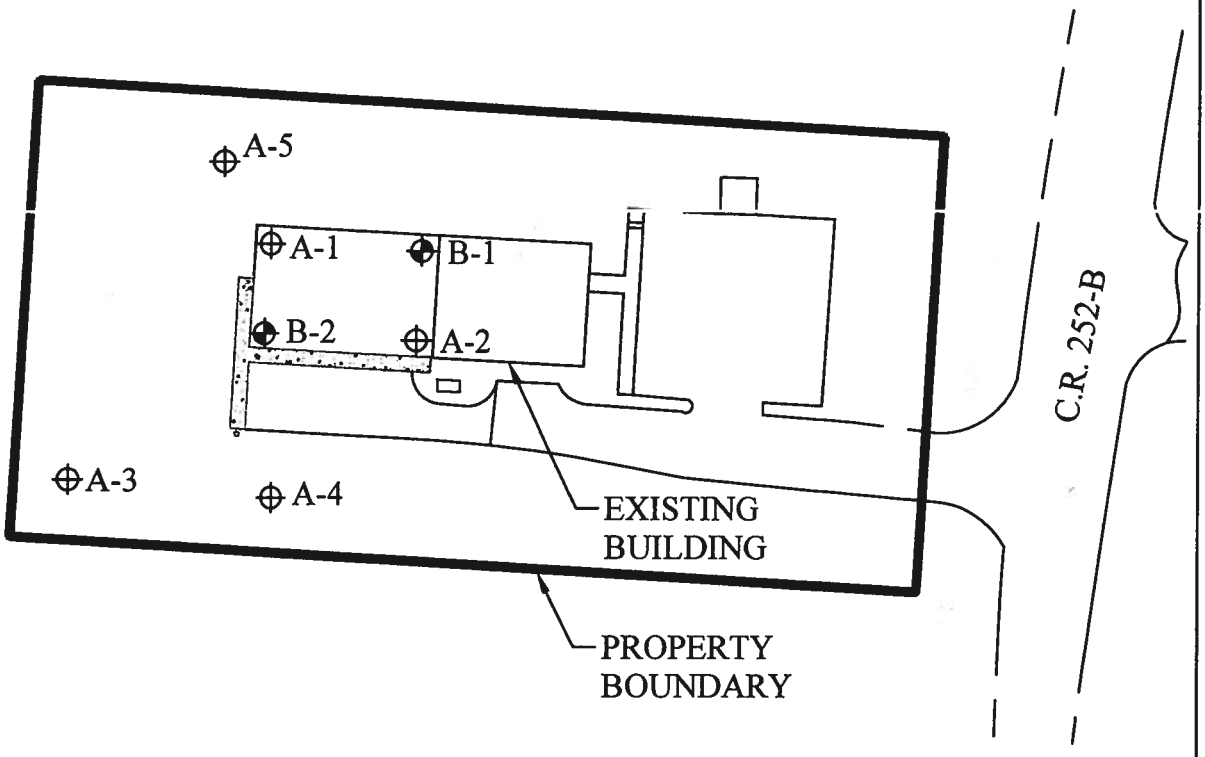
NOT TO SCALE

ADDISON ANIMAL HOSPITAL
LAKE CITY, COLUMBIA COUNTY FLORIDA
PROJECT No. 10004

PROJECT SITE LOCATION MAP

DESIGNED BY: KLH
CHECKED BY : KLH
DRAWN BY : MU

FIGURE 1



LEGEND :

SPT BORING

AUGER BORING

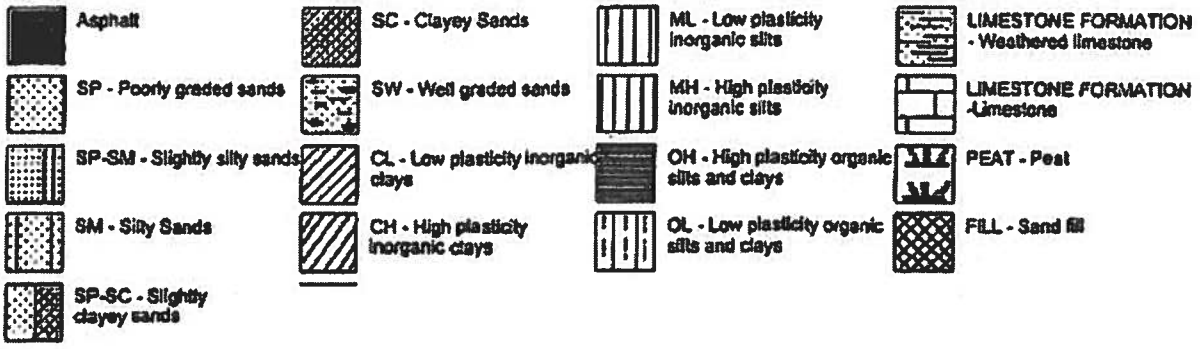
NORTH

NOT TO SCALE

ADDISON ANIMAL HOSPITAL LAKE CITY, COLUMBIA COUNTY FLORIDA PROJECT No. 10004	SITE PLAN		
	DESIGNED BY: KLH CHECKED BY : KLH DRAWN BY : MU		FIGURE 2

APPENDIX

KEY TO SOIL CLASSIFICATIONS



KEY TO DRILLING SYMBOLS

CORRELATION OF PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY

	NO. OF BLOWS, N	RELATIVE DENSITY
	0 -4	Very Loose
SANDS:	5 - 10	Loose
	11 - 30	Firm
	31 - 50	Dense
	OVER 50	Very Dense
		CONSISTENCY
	0 - 2	Very Soft
SILTS	3 - 4	Soft
&	5 - 8	Firm
CLAYS:	9 - 15	Stiff
	16 - 30	Very Stiff
	31 - 50	Hard
	over 50	Very Hard

PARTICLE SIZE IDENTIFICATION		
BOULDERS:		Greater than 300 mm
COBBLES:		75 mm to 300 mm
GRAVEL:	Coarse -	19.0 mm to 75 mm
	Fine -	4.75 mm to 19.0 mm
SANDS:	Coarse -	2.00 mm to 4.75 mm
	Medium -	0.425 mm to 2.00 mm
	Fine -	0.075 mm to 0.425 mm
SILTS & CLAYS:		Less than 0.075 mm

GENERAL NOTES:

FABRICATION SHALL BE IN ACCORDANCE WITH ASI STANDARD PRACTICES AND IN COMPLIANCE WITH THE APPLICABLE SECTIONS, RELATING TO DESIGN REQUIREMENTS AND ALLOWABLE STRESSES OF THE LATEST EDITION OF THE "AWS STRUCTURAL WELDING CODE D1.1AND D1.3"

MATERIALS	ASTM DESIGNATION	MIN YIELD STRENGTH
Hot Rolled Steel Shape	A572	Fy=50 KSI
Steel pipes	A500	Fy=42 KSI
Structural Tubing	A500	Fy=46 KSI
Structural Steel Web Plate	A572/A1011	Fy=50 KSI
Structural Steel Flange Plate	A529/A572	Fy=55 KSI
Cold Form Light Gage	A653/A1011	Fy=50/55 KSI
Roof and Wall Sheets	A792/A653	Fy=50/80 KSI
Cable Brace	A475-Type 1	Extra HighSt
Rod Brace	A36	Fy=36 KSI
Mill Section	A50	Fy=50 KSI
		Min Tensile Strength
Machine Bolt & Nuts	A327	Fu=60 KSI
High Strength Bolts(1"Dia Or Less)	A325-Type 1	Fu=120 KSI
High Strength Bolts(>1" to 1½" Dia)	A325-Type-1	Fu=105 KSI

PRIMER

Shop Primer Paint is rust inhibitive primer,which meets the end performance of Federal specification TT-P-636 and is SFR Red oxide color. This paint is not intended for long-term exposure to the elements. ASI is not responsible for any deterioration of the shop paint as a result of improper handling and/or storage. ASI shall not be responsible for any field applied paint and/or coatings.(Section 6.5 AISC Code of Standard Practice 9th Edition). Normal thickness of primer shall be 1 mil unless otherwise specified in contract documents.

A325 BOLT TIGHTENING REQUIREMENTS:

All High strength bolts are A325-N Unless noted otherwise.

Structural bolts shall be tightened by the turn-of-the-nut method in accordance with the 9th Edition AISC "Specification for Structural Joints" using ASTM A325 or A490 Bolts. When Specifically required. A325-N bolts are Supplied without washer unless noted on the drawings as provided by ADEL STEEL,INC.
All bolted connections unless noted are designed as bearing type connections with threads not excluded from the shear plane.

ERECTION NOTE:

All bracing,straping shown and provided by ADEL STEEL,INC for this building is required and shall be installed by the erector as a permanent part of the structure. If additional bracing required for stability during erection of building, it shall be the Erectors responsibility to determine the amount of such bracing and to produce and install as needed.
ADEL STEEL,INC Is not responsible for Unloading and Erection of Building.

SHORTAGES:

Any Claims or shortages by buyer must be reported to Customer Service Department within 48 Hours of Delivery or such claims shall be waived by the customer and disallowed.

CORRECTION OF ERRORS AND REPAIR 6.10):

Claims for correction of alleged misfit will be disallowed unless ASI shall have received prior notice thereof and allowed reasonable inspection of such misfits. The correction of minor misfits by the use of drift pins to draw the components into line amounts of reaming,chipping and cutting and the replacement of minor shortages of material area normal part of erection and are not subject to claim. No part of the building may be returned for alleged misfit without the prior approval of Adel steel,inc.

WARNING:

In no case should Galvalume steel panels be used in conjuction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume alloy coating when they are in contact with Galvalume steel panels.
Even run-off from copper flashing,wiring to tubing onto Galvalume should be avoided. This also includes any metal shavings on Roof Panels must be swept clean to avoid corrosion

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PHONE:(229)896-2263 ----- FAX:(229)896-4658

PURCHASER: Russell North Construction

PROJECT: Addison Animal Clinic

JOB NUMBER: 7122

BUILDING LOADS/DESCRIPTION

WIDTH: 40 LENGTH: 60 HEIGHT: 12 / 12
(BUILDING DIMENSIONS ARE NOMINAL REFER TO PLAN)
BUILDING CODE: FBC 04

ROOF DEAD LOAD:	2 PSF
ROOF LIVE LOAD:	20 PSF
COLLETERAL LOAD:	3 PSF
ROOF SNOW LOAD:	0 PSF
WIND SPEED:	110 MPH
WIND EXPOSURE:	B
WIND IMP FACT:	1.00
SEISMIC COEFF:	0.200
SIESMIC IMP FACT.:	1.00
OTHER LOADS:	.....

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMNTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF/WALL PANEL DETAIL

	ROOF	WALL
PANEL TYPE:	U4	PBR
GAGE:	26	26
COLOR:	Galvalume	Polar White
INSULATION:	6	6
TYPE:	VR	VR

TRIM COLORS:

BASE TRIM	:	Burnished Slate
CORNER TRIM	:	Polar White
RAKE TRIM	:	Polar White
EAVE/GUTTER	:	Polar White
DOWNSPOUTS	:	Polar White
FRAMED OPEN	:	Polar White

GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

9-25-07

BUILDER/CONTRACTOR RESPONSIBILITY

It is the Responsibility of the Builder/Contractor to insure that all project plans,specifications and loads comply with the applicable requirements of any governing building authorities. The supplying sealed Engineering data & drawings for Metal building system does not imply or constitute an agreement that the ADEL Steel or its Design engineer is acting as the Engineer of Record or design professional for a construction project.
The contractor must secure all required approvals and permit from the appropriate agency as required.
Approval of the ADEL STEEL,INC drawings and calculations indicate that the ADEL STEEL,INC. correctly interpreted and applied the requirements of the contract drawings and specifications.(Sect.4.2.1 AISC code of standard practices,9th Edition).
Where discrepancies exist between, the Manufacturer's structural steel plans and the plans for other trades, the structural steel plan shall govern.(Sect.3.3 AISC Code of standard practice 9th Edition.)
Design Considerations of any materials in the structure which are not furnished by the Building manufacturer are the responsibility of the contractors engineers other than the building manufacturer's engineers unless specifically indicated.
Contractor is responsible for all erection of steel and associated work in compliance with the building manufacturer's "FOR CONSTRUCTION" Drawings.
Design of gutter and downspouts(if any) is a function of the rainfall intensity and area to be drained parameters utilized in accordance with the 1986 Low rise building system manual and/or the 9th Edition of the Architectural graphic standards, as applicable. Proper owner maintenance dictates that the drainage system be kept free and clear of debris and/or ice at all times to ensure proper function of the drainage and downspout. in those cases where the owner /tenant of a property is unwilling or unable to provide proper maintenance, elimination of gutter should be considered as an alternative.

SAFETY COMMITMENT:

The building manufacturer has a commitment to manufacture quality building components that can be safely erected. However,the safety commitment and job practices of the erector are beyond the control of the building manufacturer.
It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site.
Local,state and federal safety and health standards should always be followed to help insure worker safety.
Make certain all employees know the safest and most productive way of erecting a building.Emergency procedures should be known to all employees.
Daily meetings highlighting safety procedures are also recommended. The use of hard hats,rubber sole shoes for roof work,proper equipemt for handling material, and safety nets where applicable, are recommended.

SPECIAL NOTE:

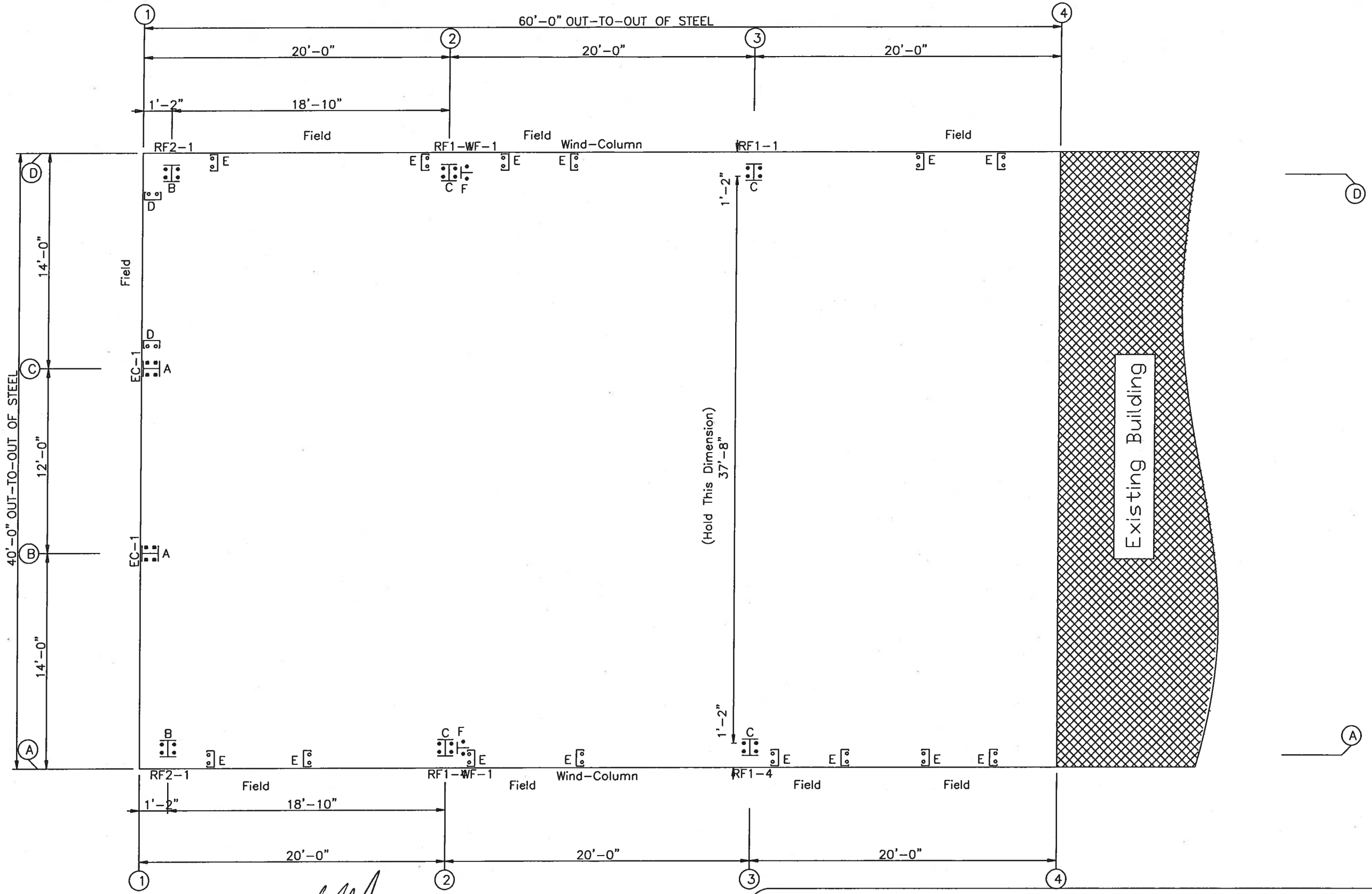
(1) ADEL STEEL RESERVES THE RIGHT TO SPLICE OR MODIFY PARTS FOR BEST UTILIZATION OF MATERIALS.
(2) FOUNDATION DESIGN AND CONSTRUCTION ARE NOT THE RESPONSIBILITY OF ADEL STEEL,INC.
(3) ADEL STEEL,INC DOES NOT PROVIDE ANCHOR BOLT LENGTH, CONSULT YOUR FOUNDATION ENGINEER FOR ANCHOR BOLT LENGTH.
(4) ANCHOR BOLTS SHALL BE ACCURATELY SET TO A TOLERENCE OF +/-1/8" IN BOTH ELEVATION AND LOCATION.

Florida Product Approval Codes

1) Doors: DBCI FL2457 Series 5100 Roll Doors
ASTA FL3727 Series 203 Roll Doors
Janus Roll Doors FL 2274 Series 3100
Premier walk doors FL6378, Ext. Walk Door
Dominion walk doors FL-FL2502 Ext. Walk Door
2) Panels: MBCI FL5687/5690 PBR et al panels-roof/wall panels
AIM panels, FL2425/4140 etal for PBR/R roof/wall panels
McElroy panels, FL 1747/1535 et al for PBR/R wall/roof panel (Multirib)
Connell Sheet Metal FL6700/6696 for PBR roof/wall panel
Whirlwind FL6488.1/6488.2 SuperSpan/SuperSpan X for PBR/R roof/wall panel
Skylite panels: Glassteel, Acrylit FL 5222R
3) Ridge Vents, Metallic, FL7254

DRAWING NOTE

Accessories:
(1) 3070 w/ Dead bolt & F/O (field located)
(1) 3070 w/ Lever Lock & Dead bolt & F/O (field located)
(1) Below Eave Canopy @ FSW to tie into existing building w/ PBU 26ga Polar White soffit & Trim (soffit follows slope)
(1) Below Eave Canopy @ LEW w/ PBU 26ga Polar White soffit & Trim (soffit follows slope)
(2) 1/4" - 4" Pipe Jacks



ANCHOR BOLT PLAN

NOTE: All Base Plates @ 100'-0" (U.N.)

9-25-07

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DESIGN CRITERIA	
FBC 04	BUILDING CODE
12 / PSF2	LIVE LOAD TO FRAMES
20 PSF	LIVE LOAD TO PURLINS
110 MPH	WIND LOAD
0 PSF	SNOW LOAD
3 PSF	COLLATERAL LOAD
1.00	IMPORTANCE USE FACTOR
B	EXPOSURE
2.0	SOIL COEFFICIENT
0.200	A_v
0.00	A_a

Anchor Bolt Layout

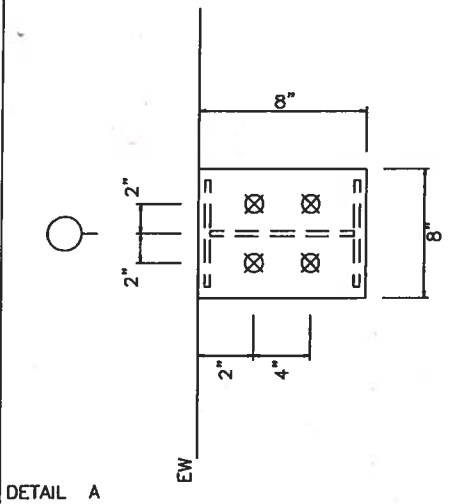
Russell North Construction

Lake City, Fl

386.752.6806

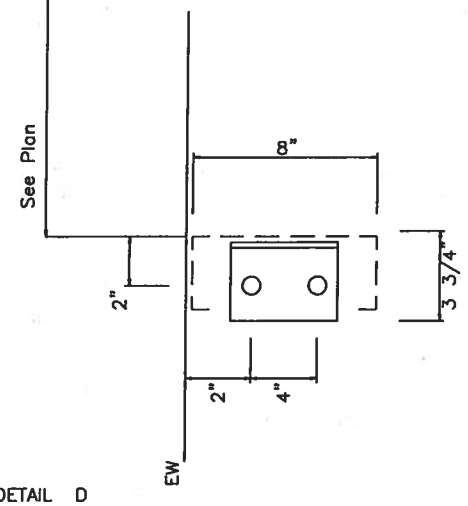
Project 7122	Date 8/29/07
Scale N.T.S.	Contract
Drawing Number 7122 AB1	

Thk= 3/8" Dia= 5/8"



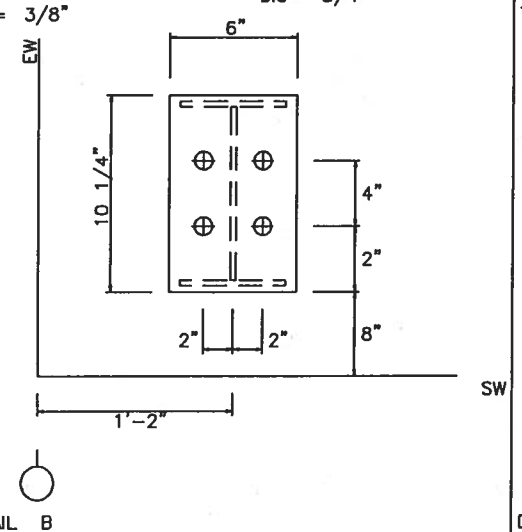
DETAIL A

Thk= 1/4" Dia= 1/2"



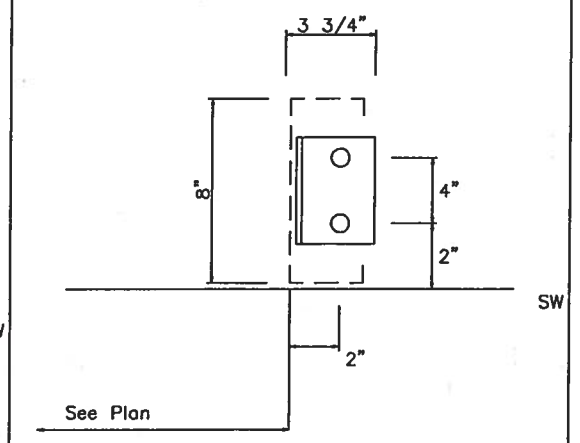
DETAIL D

Thk= 3/8" Dia= 3/4"



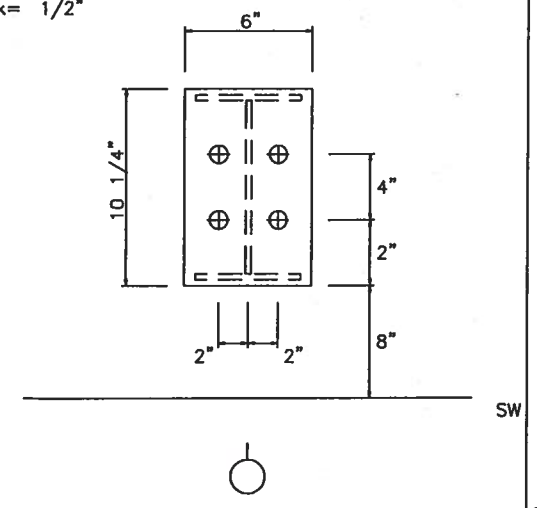
DETAIL B

Thk= 1/4" Dia= 1/2"



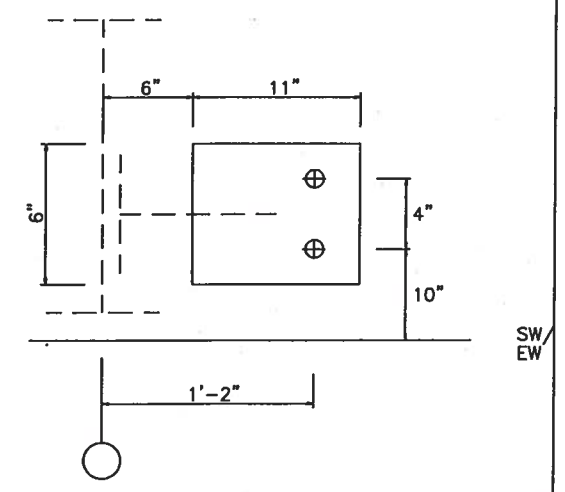
DETAIL E

Thk= 1/2" Dia= 3/4"



DETAIL C

Dia= 3/4"



DETAIL F

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DESIGN CRITERIA		
FBC 04		BUILDING CODE
12 / PSF	12	LIVE LOAD TO FRAMES
20	PSF	LIVE LOAD TO PURLINS
110	MPH	WIND LOAD
0	PSF	SNOW LOAD
3	PSF	COLLATERAL LOAD
1.00		IMPORTANCE USE FACTOR
B		EXPOSURE
2.0		SOIL COEFFICIENT
0.200		A_v
0.00		A_a

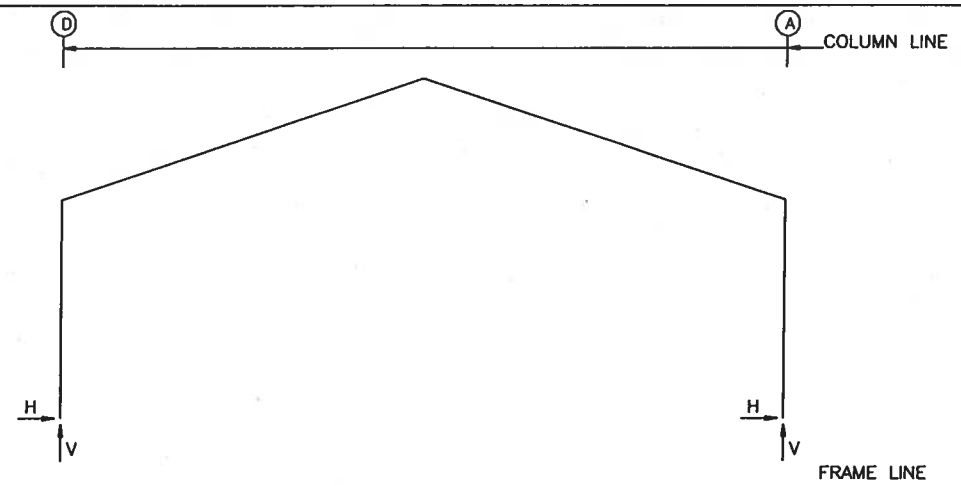
Anchor Bolt Layout

Russell North Construction

Lake City, Fl
386.752.6806

Project	Date
7122	8/29/07
Scale	Contact
N.T.S.	
Drawing Number	

7122 AB2



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Anc. No	Bolt D(in)	Base Wid	Plate (in) Len	Thk	Grout (in)
		Column Reactions (k)											
1	D	1	1.9	4.9	2	−2.0	−3.1	4	0.750	6.000	10.25	0.375	0.0
1	A	3	2.0	−3.1	1	−1.9	4.9	4	0.750	6.000	10.25	0.375	0.0
		1	−1.9	4.9	3	2.0	−3.1						

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Anc. No	Bolt D(in)	Base Wid	Plate (in) Len	Thk	Grout (in)
		Column Reactions (k)											
2 *	D	1	2.7	7.2	2	−3.5	−5.7	4	0.750	6.000	10.25	0.500	0.0
		7	−0.1	18.5	4	0.9	−27.1						
2 *	A	3	3.3	−8.6	1	−2.7	8.5	4	0.750	6.000	10.25	0.500	0.0
		5	0.1	18.6	6	−0.9	−26.9						

2 * Frame lines: 2 3

NOTES FOR REACTIONS

1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data:

Width (ft)	=	40.0
Length (ft)	=	60.0
Eave Height (ft)	=	12.0/ 12.0
Roof Slope (rise/12)	=	4.0/ 4.0
Dead Load (psf)	=	2.0
Collateral Load (psf)	=	3.0
Roof Live Load (psf)	=	20.0
Frame Live Load (psf)	=	12.0
Wind Speed (mph)	=	110.0
Wind Code	=	FBC 04
Exposure	=	B
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	D
Seismic Coeff (Fa*Ss)	=	0.20

5. Loading conditions are:
   1 DL+CL+LL
   2 DL+CL+1.30WL1
   3 DL+CL+1.30WR1
   4 DL+CL+1.30LnWnd1
   5 DL+CL−1.30LnWnd1
   6 DL+CL+1.30LnWnd2
   7 DL+CL−1.30LnWnd2
   8 DL+CL+1.30WR1+1.30WS
   9 DL+CL+1.30WP+1.30LnWnd1

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_L1 Horiz	Wind_L1 Vert	Wind_R1 Horiz	Wind_R1 Vert
2 *	D	0.43	1.24	0.51	1.26	1.80	4.70	−0.12	−0.10	−3.43	−6.31	0.34	−4.50
2 *	A	−0.43	1.36	−0.51	1.26	−1.80	5.90	0.12	1.10	−0.51	−6.84	3.26	−8.64
1	D	0.29	0.87	0.28	0.70	1.34	3.34	0.00	0.00	−1.99	−3.56	0.09	−2.56
1	A	−0.29	0.87	−0.28	0.70	−1.34	3.34	0.00	0.00	−0.09	−2.56	1.99	−3.56

Frame Line	Column Line	Wind_L2 Horiz	Wind_L2 Vert	Wind_R2 Horiz	Wind_R2 Vert	LnWind_1 Horiz	LnWind_1 Vert	LnWind_2 Horiz	LnWind_2 Vert	Seismic_L Horiz	Seismic_L Vert	Seismic_R Horiz	Seismic_R Vert
2 *	D	−3.36	−3.65	0.38	−1.86	0.01	−22.75	−0.78	−22.14	−0.15	−0.09	0.15	0.09
2 *	A	−0.55	−4.19	3.19	−5.98	0.78	−22.14	−0.01	−22.75	−0.15	0.09	0.15	−0.09
1	D	−1.95	−2.09	0.10	−1.11	0.01	−3.05	−0.43	−2.71	−0.09	−0.05	0.09	0.05
1	A	−0.10	−1.11	1.95	−2.09	0.43	−2.71	−0.01	−3.05	−0.09	0.05	0.09	−0.05

Frame Line	Column Line	LnSeis Horiz	LnSeis Vert
2 *	D	0.00	−4.01
2 *	A	0.00	−4.10
1	D	0.00	0.00
1	A	0.00	0.00

2 * Frame lines: 2 3

ENDWALL COLUMN: REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Dead Vert	Coll Vert	Live Vert	Wind−Left Horiz	Wind−Left Vert	Wind−Right Horiz	Wind−Right Vert	Out−Of−Plane Wd P Horiz	Out−Of−Plane Wd S Horiz	Anc. No	Bolt D(in)	Base Wid	Plate (in) Len	Thk	Grout (in)
		Column_Reactions (k)														
1	C	0.2	0.0	0.6	0.0	0.0	0.0	0.0	−1.7	2.1	4	0.625	8.000	8.000	0.375	0.0
1	B	0.2	0.0	0.6	0.0	0.0	0.0	0.0	−1.7	2.1	4	0.625	8.000	8.000	0.375	0.0

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Anc. No	Bolt D(in)	Base Wid	Plate (in) Len	Thk	Grout (in)
		Column Reactions (k)											
1	C	8	2.7	−1.0	9	−2.3	0.2	4	0.625	8.000	8.000	0.375	0.0
		1	−0.1	0.8	8	2.7	−1.0						
1	B	8	2.7	−1.0	9	−2.3	0.2	4	0.625	8.000	8.000	0.375	0.0
		1	−0.1	0.8	8	2.7	−1.0						

BRACING REACTIONS, PANEL SHEAR

Loc	Wall Line	Col Line	± Reactions (k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft)
L_EW	1	Rigid Frame At Endwall					
F_SW	A	Wind Column In Wall					
R_EW	4	Bracing Not Used					0
B_SW	D	Wind Column In Wall					

ANCHOR BOLT SUMMARY

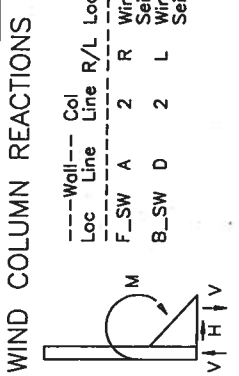
Qnt	Loc	Dia (in)	Total Len (in)	Proj (in)
O 32	DJ	1/2"	5.00	0.50
⊠ 8	EW	5/8"		1.50
⊕ 24	RF	3/4"		2.50
⊕ 4	WF	3/4"		2.50

GENERAL NOTES

1. FOUNDATION DESIGN AND CONSTRUCTION ARE NOT THE RESPONSIBILITY OF ADEL STEEL,INC.
2. ADEL STEEL DOES NOT PROVIDE LENGTH OF ANCHOR BOLTS, CONSULT YOUR FOUNDATION ENGINEER FOR ANCHOR BOLT LENGTH.
3. THE BUILDING REACTION DATA REPORTS THE LOADS WHICH THIS BUILDING PLACES ON THE FOUNDATION.
4. ANCHOR BOLTS SHALL BE ACCURATELY SET TO A TOLLERANCE OF +/− 1/8" IN BOTH ELEVATION AND LOCATION.
5. COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED A BEARING PRESSURE OF 1125 POUNDS PER SQUARE INCH.

WIND COLUMN REACTIONS

Wall Loc	Wall Line	Col Line	R/L	Load_Id	± Reactions Horz (k)	± Reactions Vert (k)	Moment (ft−k)	Anc_Bolt No	Anc_Bolt Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick
F_SW	A	2	R	Wind	2.29	17.21	22.94	2	0.750	6.00	11.00	0.50
				Seismic	0.46	3.46	4.62					
B_SW	D	2	L	Wind	2.29	17.21	22.94	2	0.750	6.00	11.00	0.50
				Seismic	0.45	3.38	4.51					



GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

9-25-07

DESIGN CRITERIA
FBC 04 BUILDING CODE
12 / PSF LIVE LOAD TO FRAMES
20 PSF LIVE LOAD TO PURLINS
110 MPH WIND LOAD
0 PSF SNOW LOAD
3 PSF COLLATERAL LOAD
1.00 IMPORTANCE USE FACTOR
EXPOSURE B
SOIL COEFFICIENT 2.0
Av 0.200
As 0.00

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Reactions

Russell North Construction
Lake City, Fl
386.752.6806

Project 7122
Date 8/29/07
Scale N.T.S.
Checked
Drawing Number R1

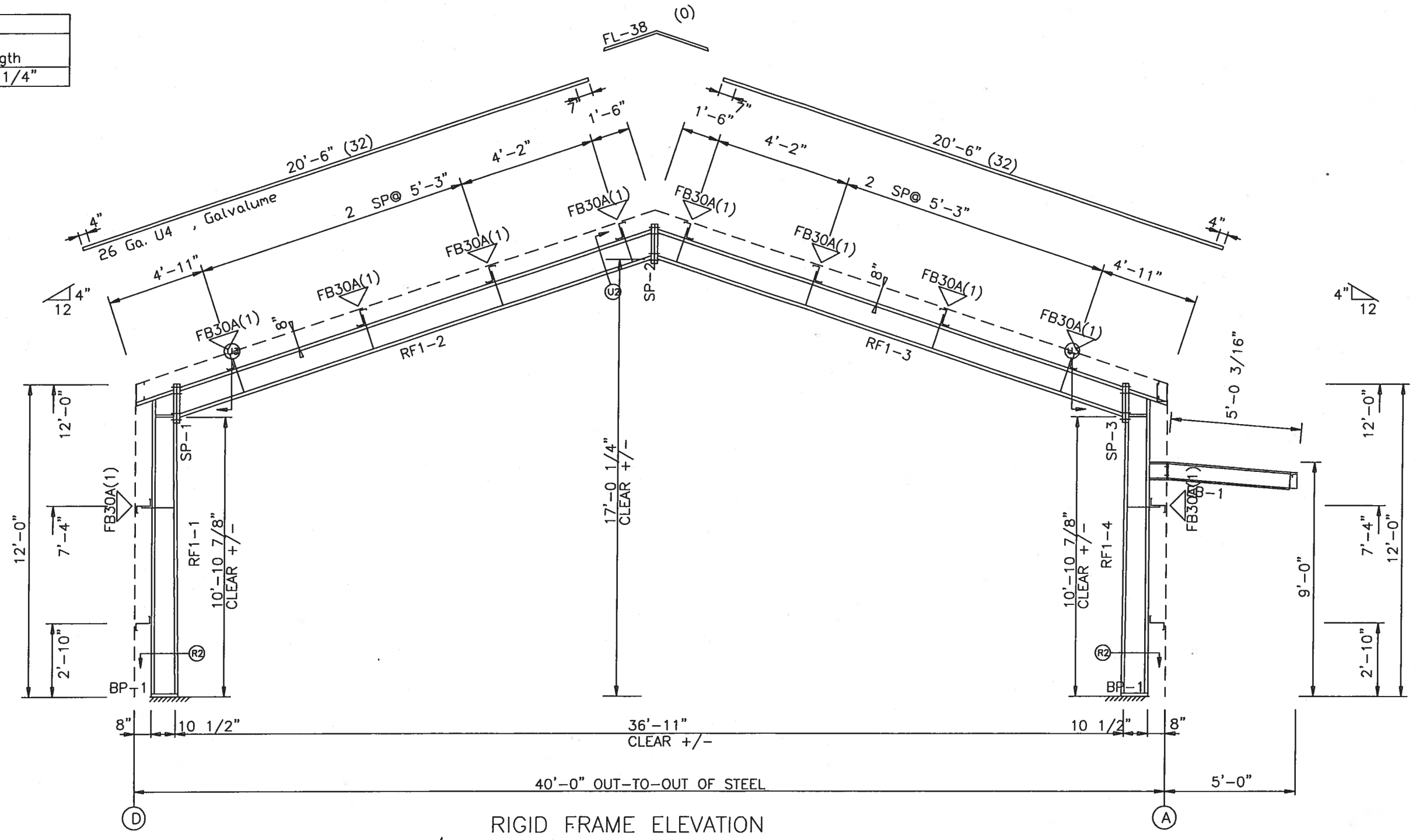
7122

SPLICE BOLTS						
Splice Mark	Quan Top/Bot/Int			Bolt Type	Dia	Len
SP- 1	4	4	0	A325	3/4"	2"
SP- 2	4	4	0	A325	3/4"	2"
SP- 3	4	4	0	A325	3/4"	2"

▽FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A - L2X2X1/8

BASE PLATES			
Col Id	Plate Size Wid	Thick	Length
BP- 1	6"	1/2"	10 1/4"

MEMBER SIZE TABLE (in)						
PIECE	WEIGHT	WEB DEPTH START/END	WEB PLATE THICK	WEB PLATE LENGTH	OUTSIDE FLANGE W x T x LEN	INSIDE FLANGE W x T x LEN
RF1-1	184	9.7/10.0	0.134	126.7	5x1/4" x137.4	5x1/4" x126.7
		10.0/10.0	0.188	14.2	5x1/4" x 19.2	
RF1-2	291	10.0/10.0	0.134	235.5	5x1/4" x232.1	5x1/4" x232.1
RF1-3	291	10.0/10.0	0.134	235.5	5x1/4" x232.1	5x1/4" x232.1
RF1-4	195	10.0/10.0	0.250	14.1	5x5/16"x 19.1	5x1/4" x126.7
		10.0/ 9.7	0.134	126.7	5x1/4" x137.4	



RIGID FRAME ELEVATION

FOR FRAME LINE 2 3

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ADEL, GA 31620
P E # 54419

9-25-07

GENERAL NOTES:
RIGID FRAME DRAWING NOTES TEST
1
1
2
2
3
3

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DESIGN CRITERIA		
FBC 04		BUILDING CODE
12 / PSF	PSF	LIVE LOAD TO FRAMES
20	PSF	LIVE LOAD TO PURLINS
110	MPH	WIND LOAD
0	PSF	SNOW LOAD
3	PSF	COLLATERAL LOAD
1.00		IMPORTANCE USE FACTOR
B		EXPOSURE
2.0		SOIL COEFFICIENT
0.200		A_v
0.00		A_s

Frame Cross Section

Russell North Construction

Lake City, Fl
386.752.6806

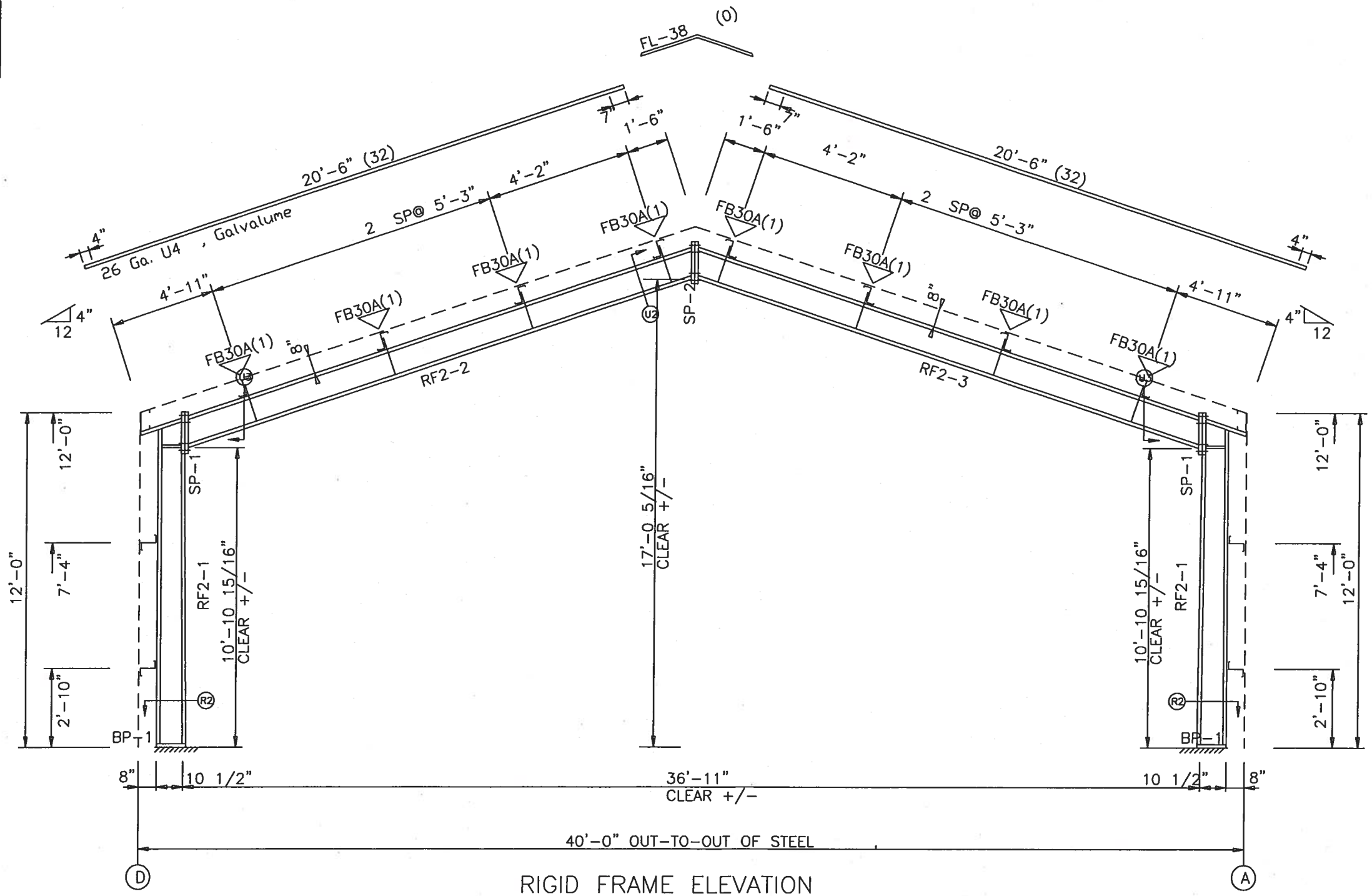
Project	Date
7122	8/29/07
Scale	Contact
N.T.S.	
Drawing Number	
7122 XS1	

SPLICE BOLTS						
Splice Mark	Quan Top	Bot	Int	Bolt Type	Dia	Len
SP- 1	4	4	0	A325	3/4"	2"
SP- 2	4	4	0	A325	3/4"	2"

▽FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A - L2X2X1/8

BASE PLATES			
Col Id	Plate Size Wid	Thick	Length
BP- 1	6"	3/8"	10 1/4"

MEMBER SIZE TABLE (in)						
PIECE	WEIGHT	WEB DEPTH START/END	WEB PLATE THICK	LENGTH	OUTSIDE FLANGE W x T x LEN	INSIDE FLANGE W x T x LEN
RF2-1	180	9.7/10.0	0.134	141.0	5x1/4" x137.6 5x1/4" x 19.2	5x1/4" x126.9
RF2-2	295	10.0/10.0	0.134	235.5	5x1/4" x232.1	5x1/4" x232.1
RF2-3	295	10.0/10.0	0.134	235.5	5x1/4" x232.1	5x1/4" x232.1



RIGID FRAME ELEVATION

FOR FRAME LINE 1

GENERAL NOTES:
RIGID FRAME DRAWING NOTES TEST
1
1
2
2
3
3

9-25-07

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DESIGN CRITERIA		
FBC 04		BUILDING CODE
12 / FB52		LIVE LOAD TO FRAMES
20	PSF	LIVE LOAD TO PURLINS
110	MPH	WIND LOAD
0	PSF	SNOW LOAD
3	PSF	COLLATERAL LOAD
1.00		IMPORTANCE USE FACTOR
B		EXPOSURE
2.0		SOIL COEFFICIENT
0.200		A_V
0.00		A_S

Frame Cross Section

Russell North Construction

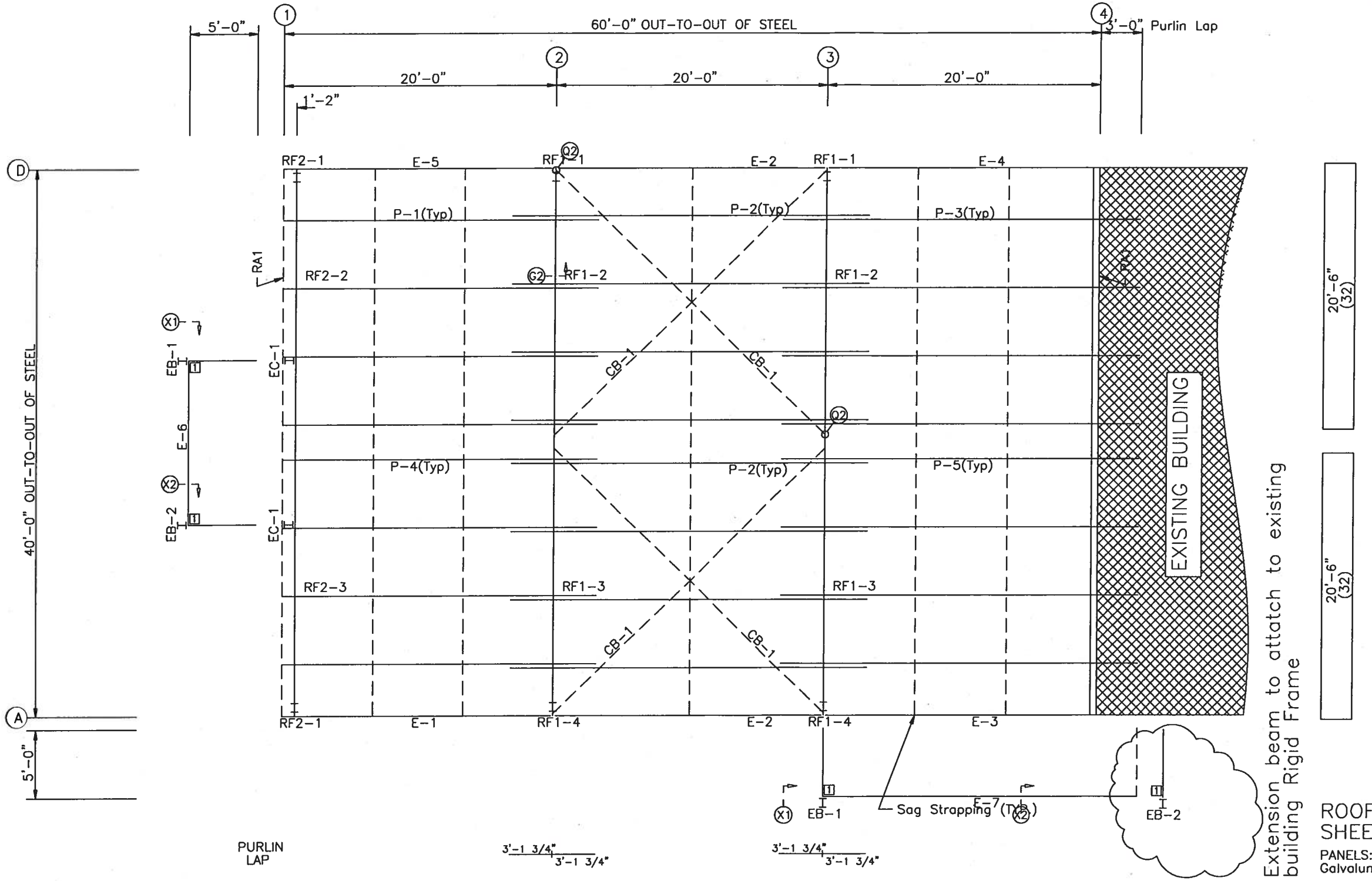
Lake City, Fl
386.752.6806

Project	Date
7122	8/29/07
Scale	Contact
N.T.S.	
Drawing Number	
7122 XS2	

EXTENSION/CANOPY BOLTS ROOF PLAN				
MARK	QUAN	TYPE	DIA	LENGTH
EB-1	4	A325	3/4"	2"
EB-2	4	A325	3/4"	2"

MEMBER TABLE ROOF PLAN			
QUAN	MARK	PART	LENGTH
2	EB-1	W8541	5'-0 3/16"
2	EB-2	W8541	5'-0 3/16"
4	P-1	8X25z16	23'-1 1/2"
8	P-2	8X25z16	26'-3 1/2"
4	P-3	8X25z16	26'-1 1/2"
4	P-4	8X25z16	23'-1 1/2"
4	P-5	8X25z16	26'-1 1/2"
1	E-1	8E14	19'-11 1/2"
2	E-2	8E14	19'-11 1/2"
1	E-3	8E14	22'-11 1/2"
1	E-4	8E14	22'-11 1/2"
1	E-5	8E14	19'-11 1/2"
1	E-6	8X35c14	11'-4 1/2"
1	E-7	8X35c14	22'-8"
4	CB-1	1/4__CBL	28'-4"

CONNECTION PLATES ROOF PLAN	
☐ ID	MARK/PART
1	d1



ROOF SHEETING

PANELS: 26 Ga. U4 – Galvalume

ROOF FRAMING PLAN

GENERAL NOTES:

ROOF DRAWING TEST NOTES

A

B

B

C

C

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P E # 54419

9-25-07

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DESIGN CRITERIA		
FBC 04		BUILDING CODE
12 / PSF	12	LIVE LOAD TO FRAMES
20	PSF	LIVE LOAD TO PURLINS
110	MPH	WIND LOAD
0	PSF	SNOW LOAD
3	PSF	COLLATERAL LOAD
1.00		IMPORTANCE USE FACTOR
B		EXPOSURE
2.0		SOIL COEFFICIENT
0.200		A_v
0.00		A_s

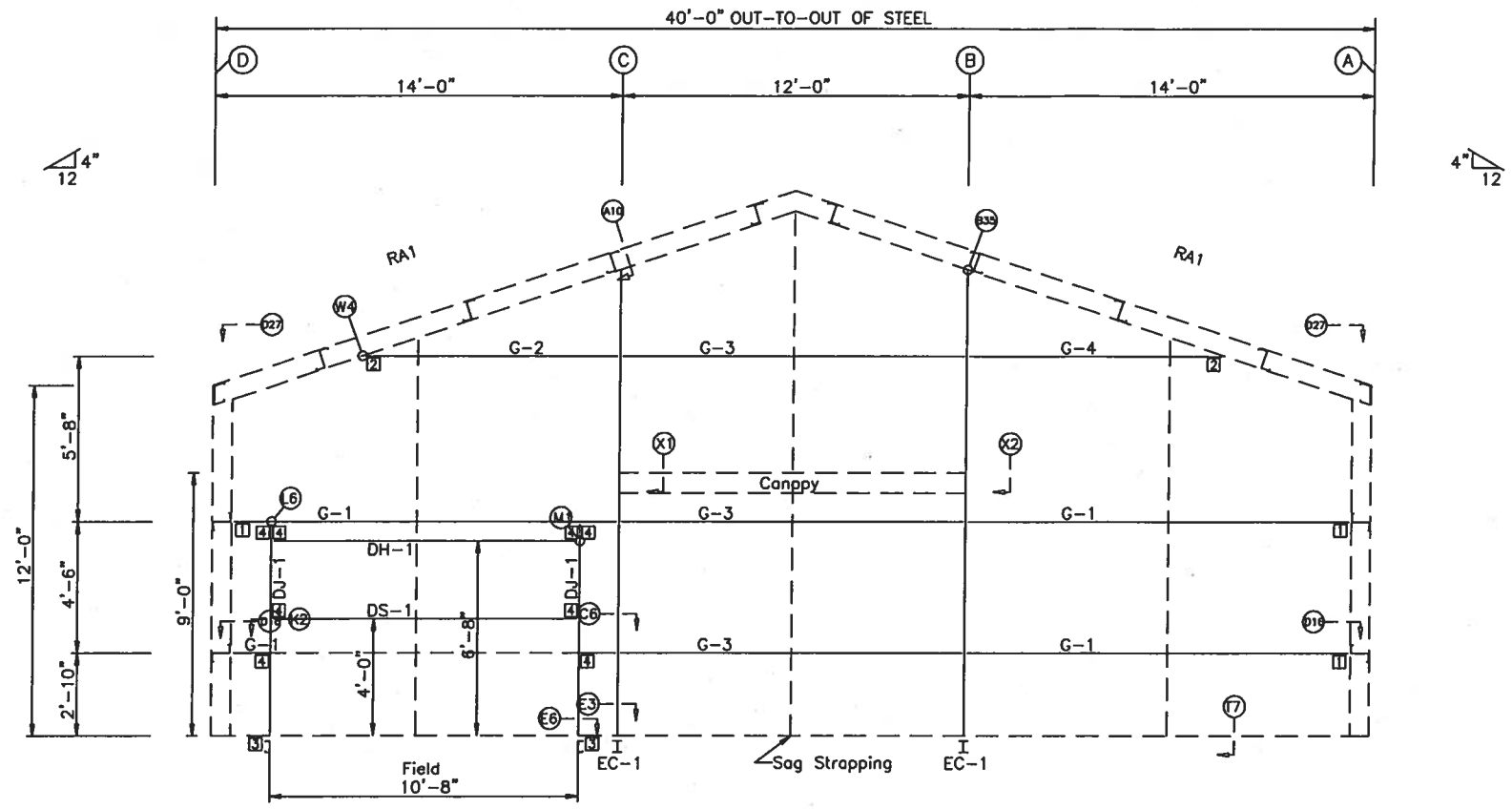
Rigid Framing

Russell North Construction

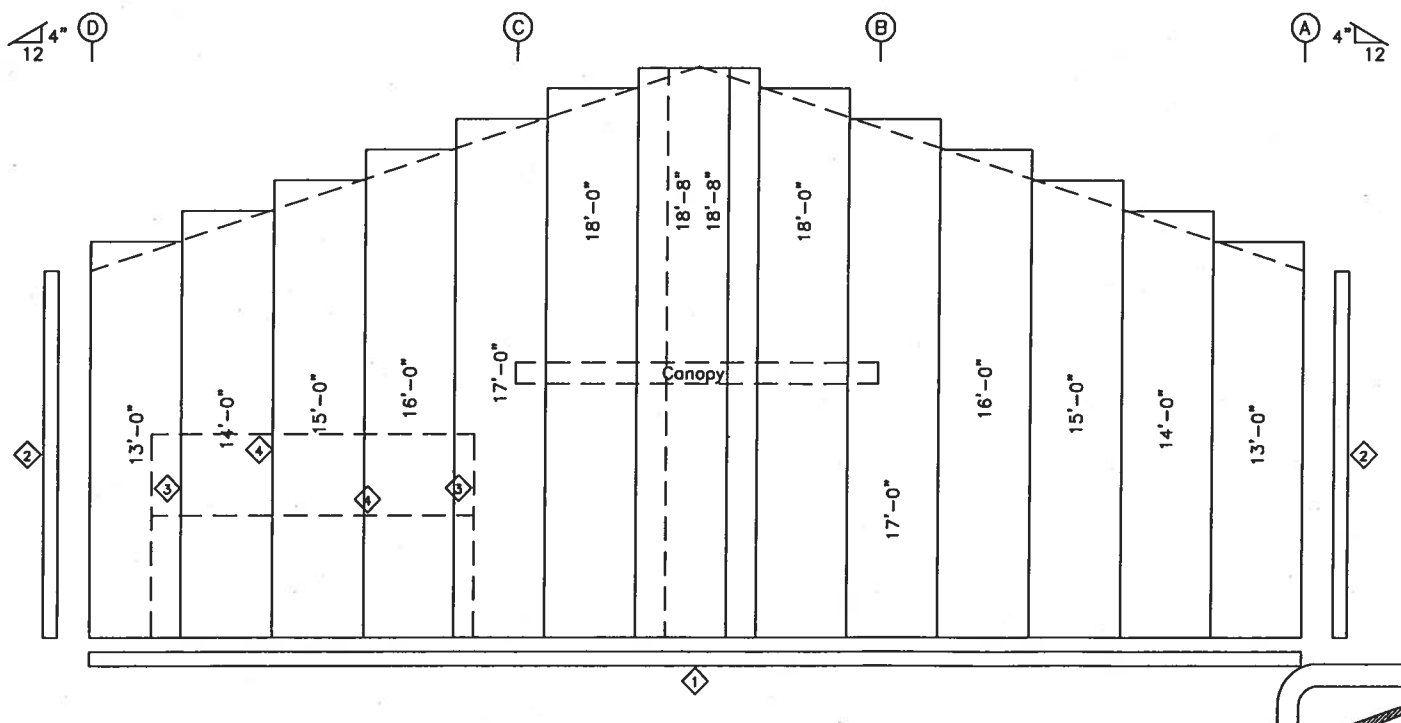
Lake City, Fl

386.752.6806

Project	Date
7122	8/29/07
Scale	Content
N.T.S.	
Drawing Number	
7122 FR1	



LEFT ENDWALL FRAMING: FRAME LINE 1



LEFT ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBR – Polar White

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns	2	A325	1/2"	1 1/4"

MEMBER TABLE FRAME LINE 1			
QUAN	MARK	PART	LENGTH
2	EC-1	W8541	15'-3 1/8"
2	DJ-1	8X25C16	7'-0 1/4"
1	DH-1	8X25C16	10'-7 1/2"
1	DS-1	8X25C16	10'-7 1/2"
4	G-1	8X25Z16	13'-0"
1	G-2	8X25Z16	8'-6 15/16"
3	G-3	8X25Z16	11'-4 1/2"
1	G-4	8X25Z16	8'-6 15/16"

TRIM TABLE FRAME LINE 1		
◇ID	MARK	LENGTH
1	FL-73	20'-0"
2	FL-831	12'-0"
3	FL-22	7'-3"
4	FL-26B	12'-4"

CONNECTION PLATES FRAME LINE 1	
□ ID	MARK/PART
1	CEWC80
2	b1
3	C-4
4	C-5

9-25-07

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DESIGN CRITERIA	
FBC 04	BUILDING CODE
12 / PSF	LIVE LOAD TO FRAMES
20 PSF	LIVE LOAD TO PURLINS
110 MPH	WIND LOAD
0 PSF	SNOW LOAD
3 PSF	COLLATERAL LOAD
1.00	IMPORTANCE USE FACTOR
B	EXPOSURE
2.0	SOIL COEFFICIENT
0.200	A_v
0.00	A_a

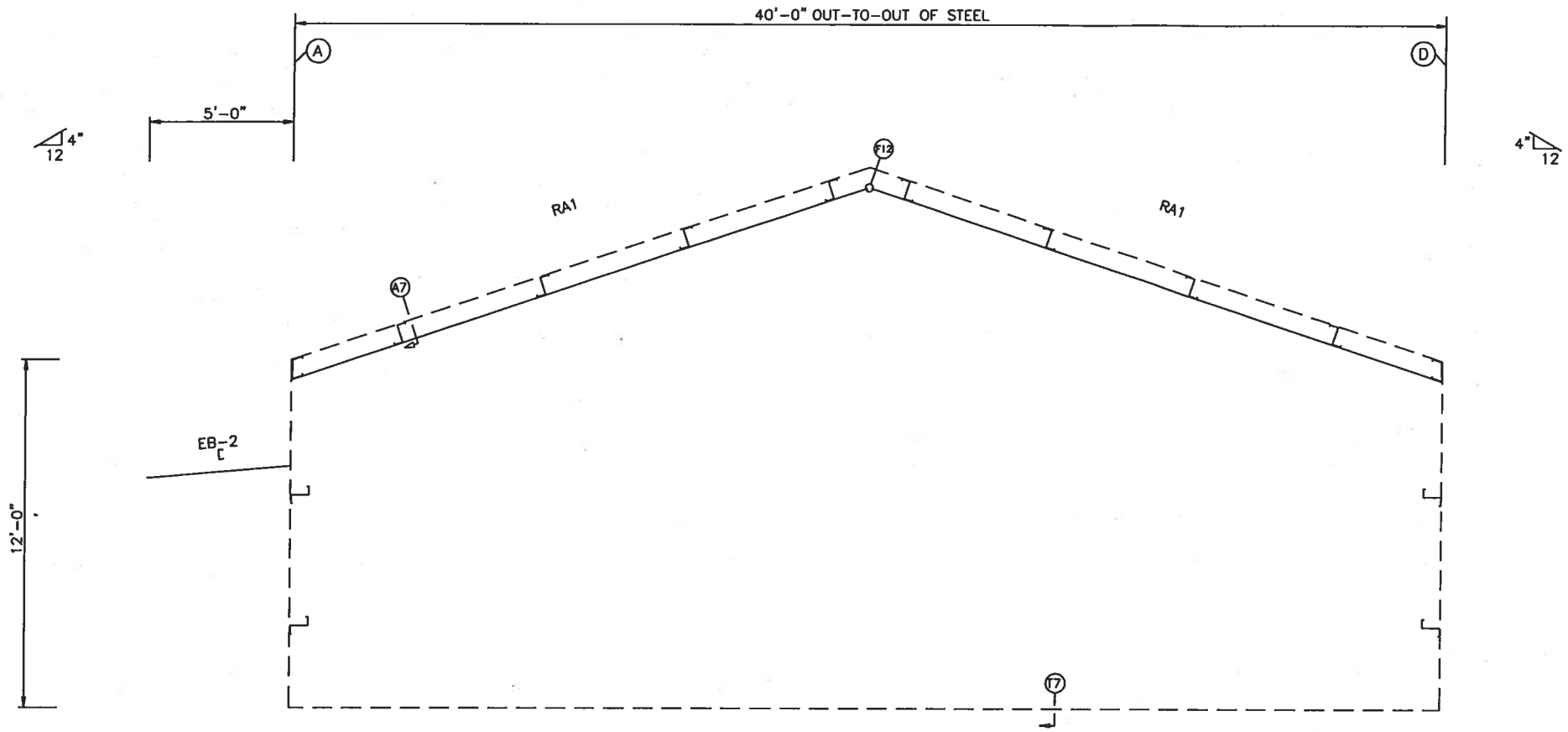
Endwall Framing

Russell North Construction

Lake City, Fl
386.752.6806

Project	Date
7122	8/29/07
Scale	Contact
N.T.S.	
Drawing Number	

7122 FR2

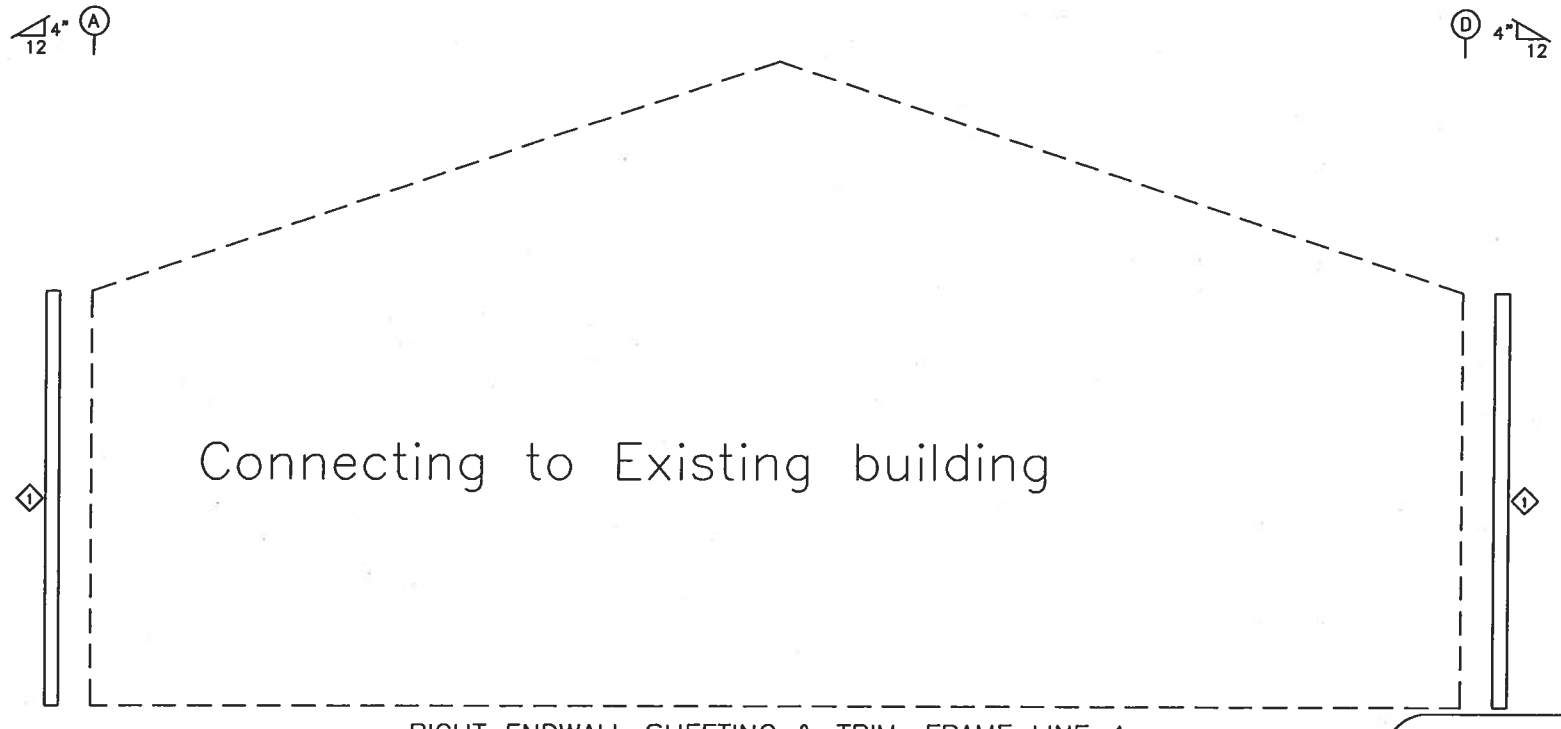


RIGHT ENDWALL FRAMING: FRAME LINE 4

BOLT TABLE FRAME LINE 4				
LOCATION	QUAN	TYPE	DIA	LENGTH
------/------	8	A325	3/4"	2 1/2"

MEMBER TABLE FRAME LINE 4			
QUAN	MARK	PART	LENGTH
1	EB-2	W8541	5'-0 3/16"

TRIM TABLE FRAME LINE 4		
◇ID	MARK	LENGTH
1	FL-831	12'-0"



RIGHT ENDWALL SHEETING & TRIM: FRAME LINE 4

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DESIGN CRITERIA		
FBC 04		BUILDING CODE
12 / PSF	2	LIVE LOAD TO FRAMES
20	PSF	LIVE LOAD TO PURLINS
110	MPH	WIND LOAD
0	PSF	SNOW LOAD
3	PSF	COLLATERAL LOAD
1.00		IMPORTANCE USE FACTOR
B		EXPOSURE
2.0		SOIL COEFFICIENT
0.200		A_v
0.00		A_s

Endwall Framing

Russell North Construction

Lake City, Fl
386.752.6806

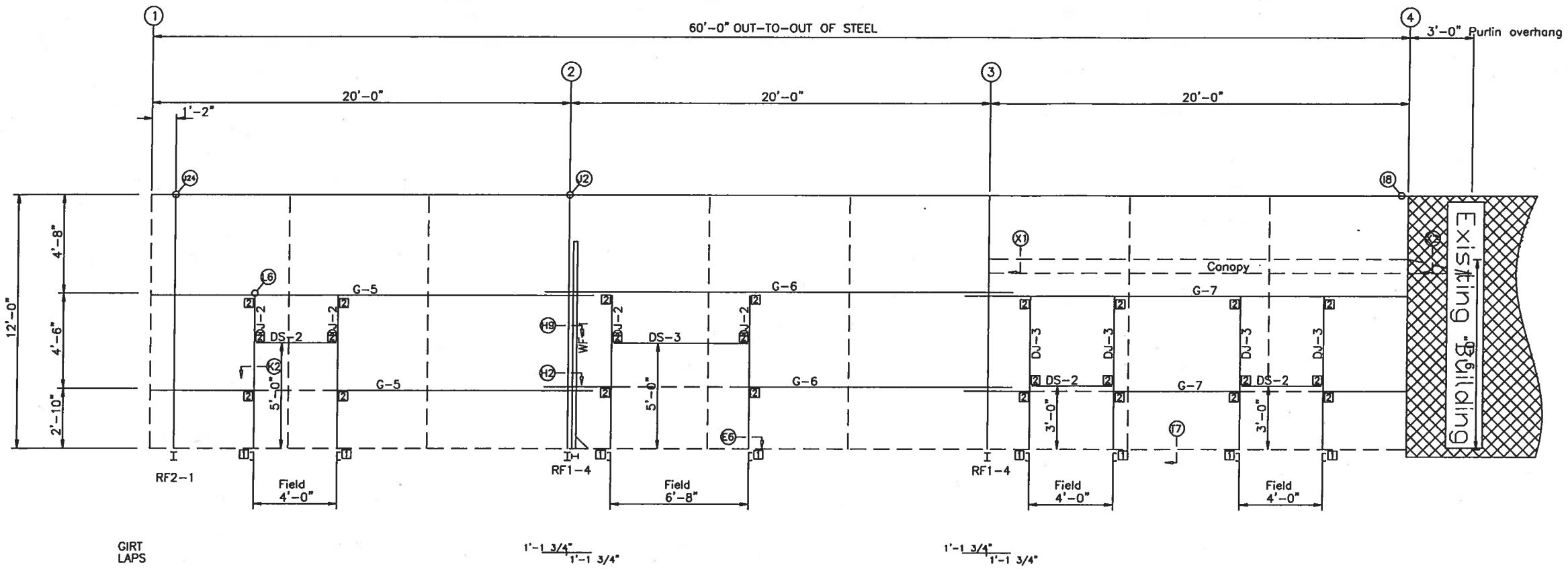
Project	Date
7122	8/29/07
Scale	Contact
N.T.S.	
Drawing Number	
7122 FR3	

BOLT TABLE FRAME LINE A				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 – RF1-4	6	A325	3/4"	2 1/2"

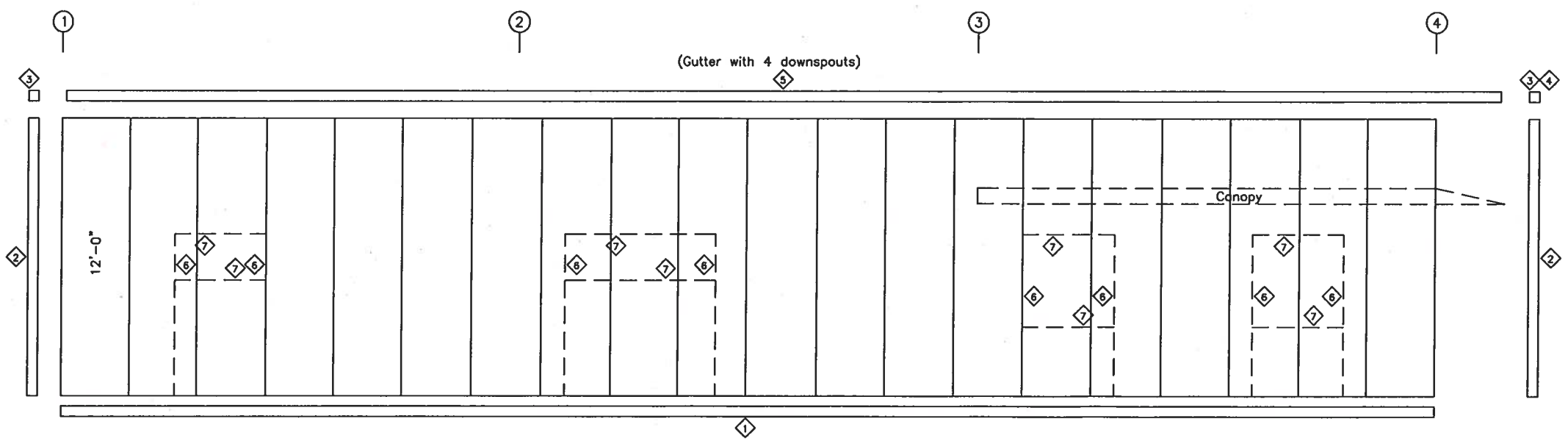
MEMBER TABLE FRAME LINE A			
QUAN	MARK	PART	LENGTH
1	WF-1	W8642	10'-0"
4	DJ-2	8X25C16	7'-0 1/4"
4	DJ-3	8X25C16	7'-0 1/4"
3	DS-2	8X25C16	3'-11 1/2"
1	DS-3	8X25C16	6'-7 1/2"
2	G-5	8X25Z16	21'-1 1/2"
2	G-6	8X25Z16	22'-3 1/2"
2	G-7	8X25Z16	21'-1 1/2"

TRIM TABLE FRAME LINE A		
◇ID	MARK	LENGTH
1	FL-73	20'-0"
2	FL-831	12'-0"
3	FL-245	9"
4	FL-19A	3'-0"
5	FL-241	15'-8"
6	FL-22	7'-3"
7	FL-25	7'-1"

CONNECTION PLATES FRAME LINE A	
□ID	MARK/PART
1	C-4
2	C-5



FRONT SIDEWALL FRAMING: FRAME LINE A



FRONT SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBR – Polar White

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ADEL, GA 31620
P E # 54419

9-25-07

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DESIGN CRITERIA		
FBC 04		BUILDING CODE
12 / PSF		LIVE LOAD TO FRAMES
20	PSF	LIVE LOAD TO PURLINS
110	MPH	WIND LOAD
0	PSF	SNOW LOAD
3	PSF	COLLATERAL LOAD
1.00		IMPORTANCE USE FACTOR
B		EXPOSURE
2.0		SOIL COEFFICIENT
0.200		A_v
0.00		A_a

Sidewall Framing

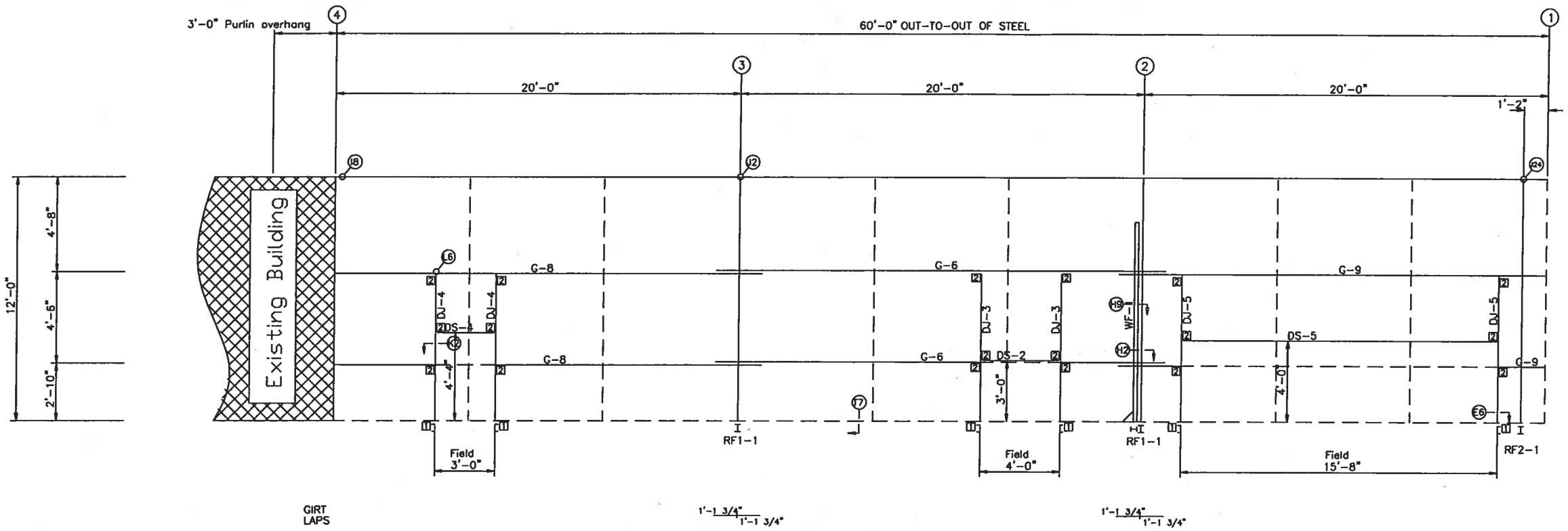
Russell North Construction

Lake City, Fl

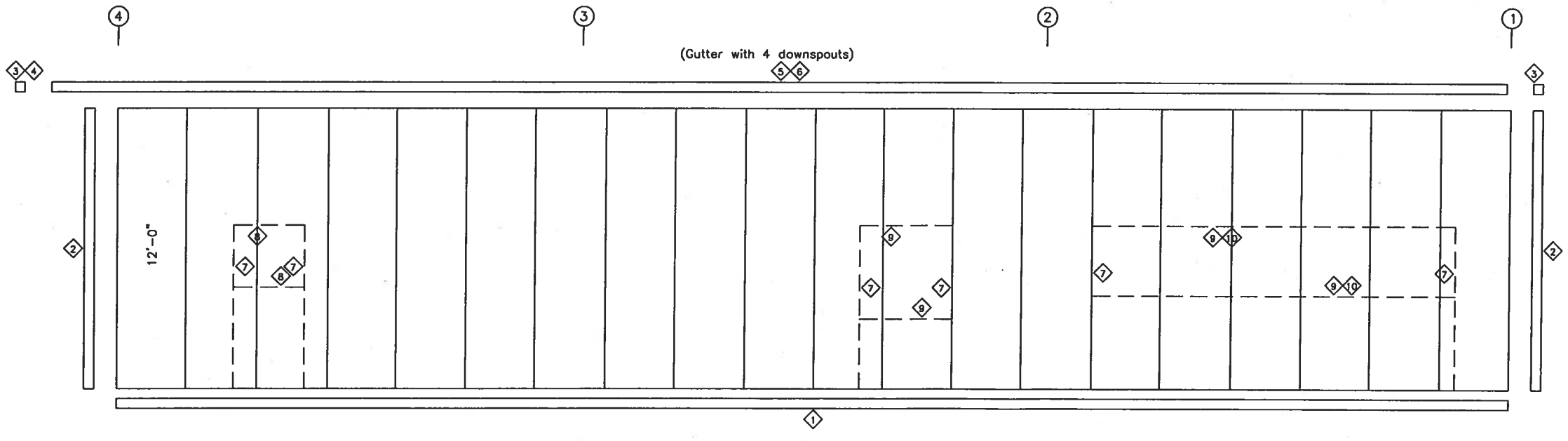
386.752.6806

Project	Date
7122	8/29/07
Scale	Contact
N.T.S.	

Drawing Number 7122 FR4



BACK SIDEWALL FRAMING: FRAME LINE D



BACK SIDEWALL SHEETING & TRIM: FRAME LINE D

PANELS: 26 Ga. PBR – Polar White

BOLT TABLE
FRAME LINE D

LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 – RF1-1	6	A325	3/4"	2 1/2"

MEMBER TABLE
FRAME LINE D

QUAN	MARK	PART	LENGTH
1	WF-1	W8642	10'-0"
2	DJ-3	8X25C16	7'-0 1/4"
2	DJ-4	8X25C16	7'-0 1/4"
2	DJ-5	8X25C16	7'-0 1/4"
1	DS-2	8X25C16	3'-11 1/2"
1	DS-4	8X25C16	2'-11 1/2"
1	DS-5	8X25C16	15'-7 1/2"
2	G-6	8X25Z16	22'-3 1/2"
2	G-8	8X25Z16	21'-1 1/2"
2	G-9	8X25Z16	21'-1 1/2"

TRIM TABLE
FRAME LINE D

◇ID	MARK	LENGTH
1	FL-73	20'-0"
2	FL-831	12'-0"
3	FL-245	9"
4	FL-19A	3'-0"
5	FL-241	15'-8"
6	FL-241	5'-0"
7	FL-22	7'-3"
8	FL-25	SCRAP
9	FL-25	7'-1"
10	FL-26	10'-4"

CONNECTION PLATES
FRAME LINE D

□ID	MARK/PART
1	C-4
2	C-5

GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

9-25-07

LEDA
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ADEL STEEL, INC.
601 S. ELM STREET ADEL, GEORGIA 31620
PHONE 229-896-2263 FAX 229-896-4658
HTTP://WWW.ADELSTEEL.COM/
E-MAIL: STEEL@ADELSTEEL.COM

DESIGN CRITERIA

FBC 04	BUILDING CODE
12 / PSF	LIVE LOAD TO FRAMES
20 PSF	LIVE LOAD TO PURLINS
110 MPH	WIND LOAD
0 PSF	SNOW LOAD
3 PSF	COLLATERAL LOAD
1.00	IMPORTANCE USE FACTOR
B	EXPOSURE
2.0	SOIL COEFFICIENT
0.200	A_v
0.00	A_a

Sidewall Framing

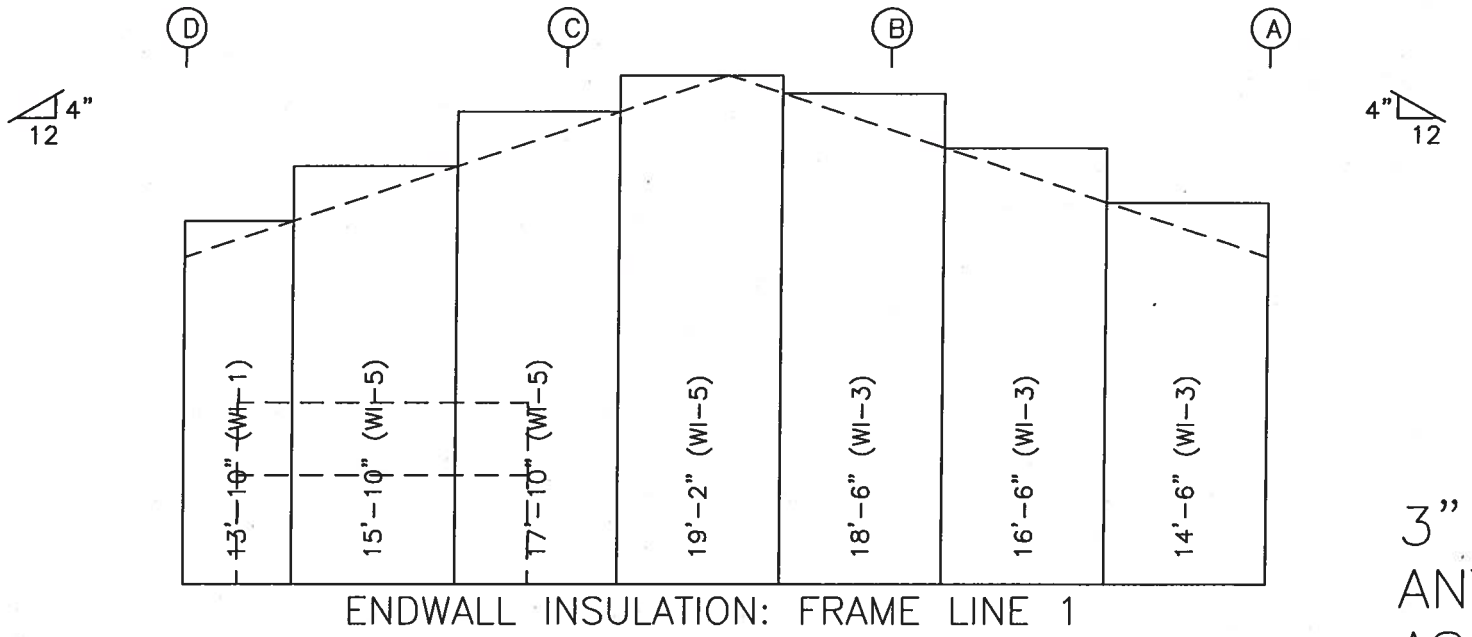
Russell North Construction

Lake City, Fl

386.752.6806

Project	Date
7122	8/29/07
Scale	Contact
N.T.S.	
Drawing Number	

7122 FR5

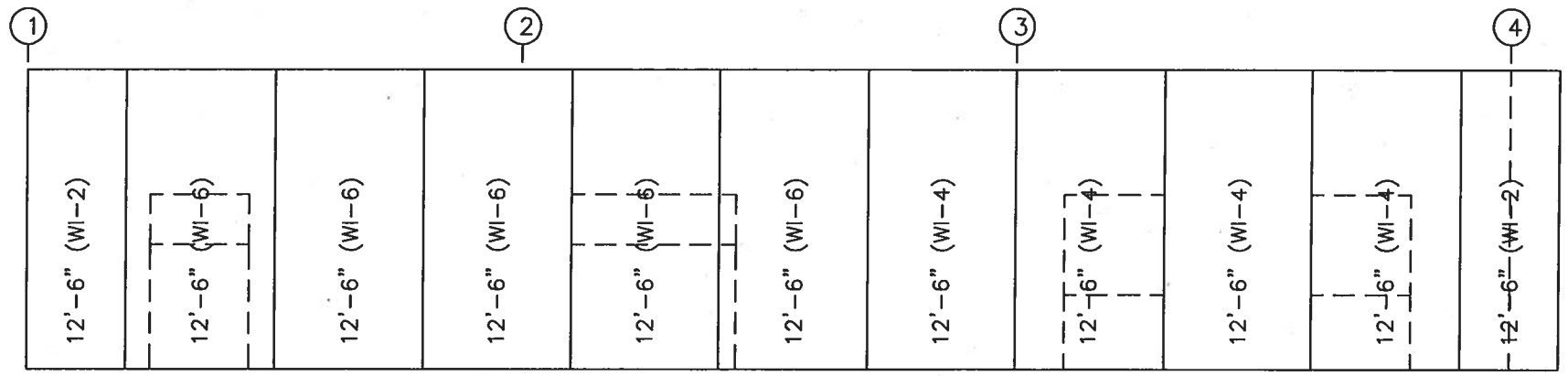


ENDWALL INSULATION: FRAME LINE 1

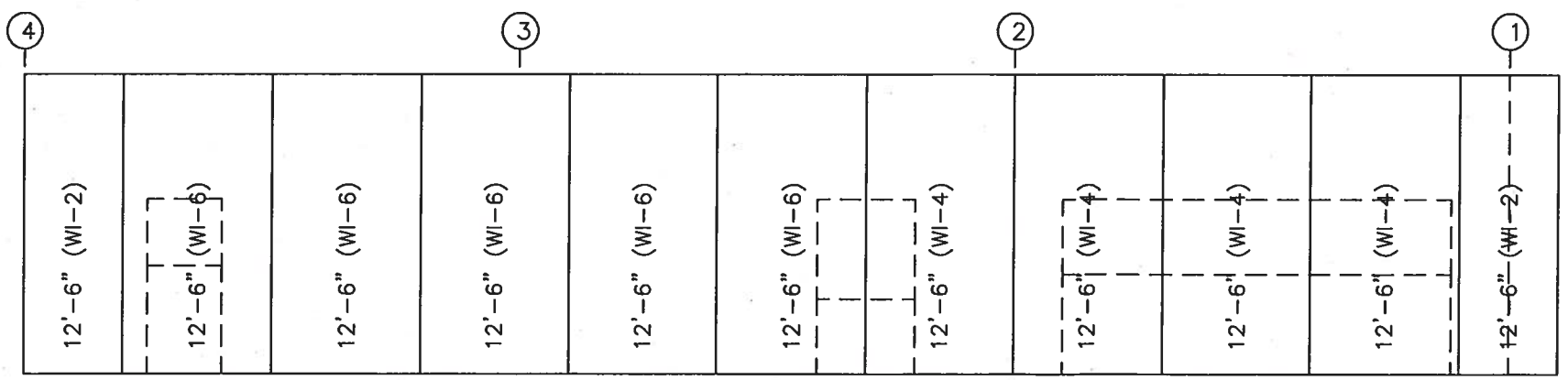
WALL INSULATION TABLE FRAME LINE 1 A D		
MARK	WIDTH	LENGTH
WI-1	4'-0"	14'-0"
WI-2	4'-0"	25'-0"
WI-3	6'-0"	49'-6"
WI-4	6'-0"	50'-0"
WI-5	6'-0"	53'-0"
WI-6	6'-0"	62'-6"

ROOF INSULATION TABLE FRAME LINE 1 A D		
MARK	WIDTH	LENGTH
RI-1	4'-0"	44'-6"
RI-2	6'-0"	44'-6"

3" VR TYP.
ANY VARIATION FROM CUTTING INSULATION AS SHOWN MAY CAUSE SHORTAGE



SIDEWALL INSULATION: FRAME LINE A

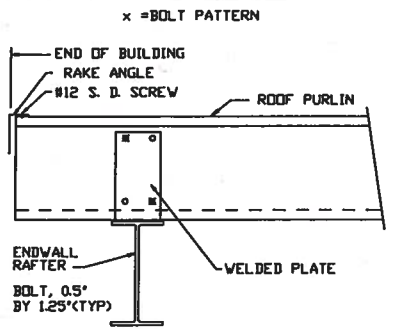


SIDEWALL INSULATION: FRAME LINE D

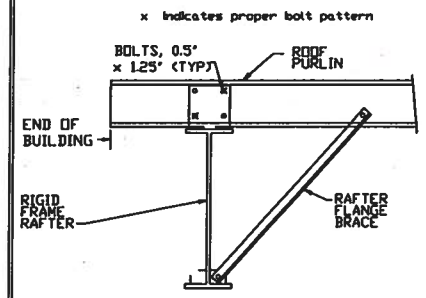
GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

9-25-07

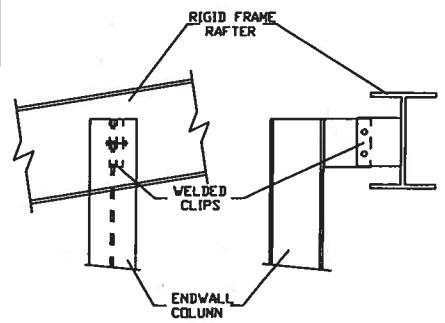
Adel Steel Inc.		Russell North Constru	
PROJECT	Addison Animal Clinic	WALL INSULATION	
ID	7122	DESIGN:	DRAFT: CHECK:
PROJECT		DATE: 8/29/07	SHEET 1 OF 1



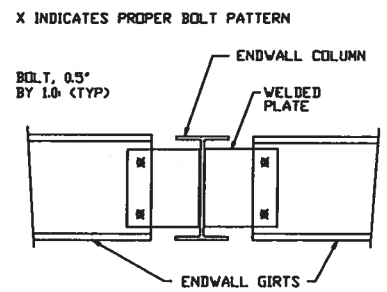
A7 SECTION THRU ENDWALL RAFTER



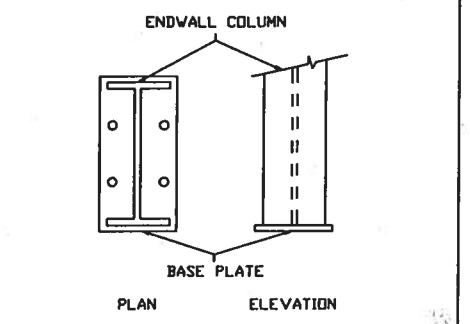
A10 ROOF PURLIN TO EXPANDABLE ENDWALL RIGID FRAME



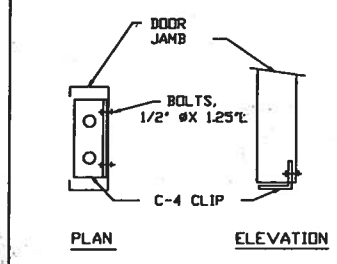
B35 ENDWALL RAFTER TO COLUMN



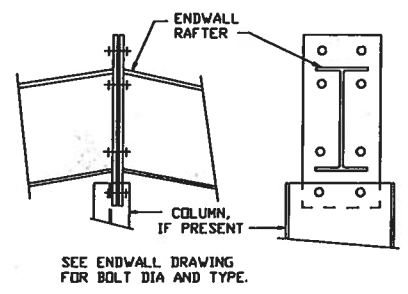
C6 ENDWALL COLUMN TO WALL GIRT



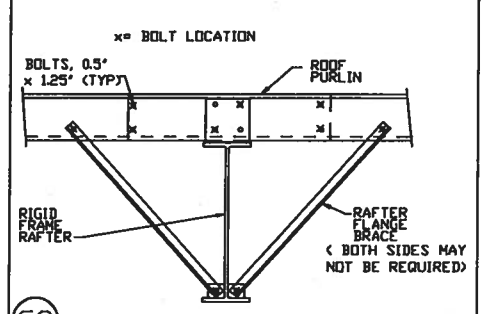
E3 BASE PLATE FOR ENDWALL COLUMN



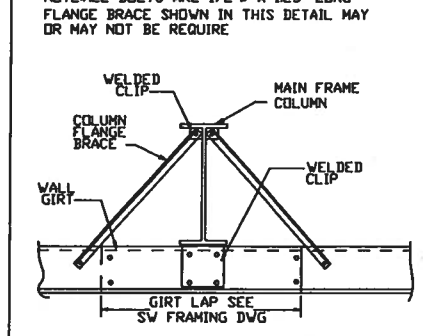
E6 BASE DETAIL FOR DOOR JAMB



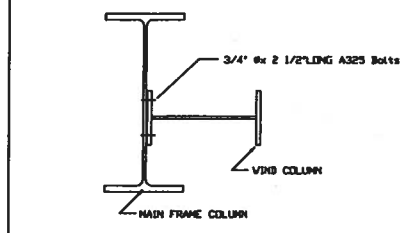
F12 RAFTER SPLICE AT SURFACE CHANGE



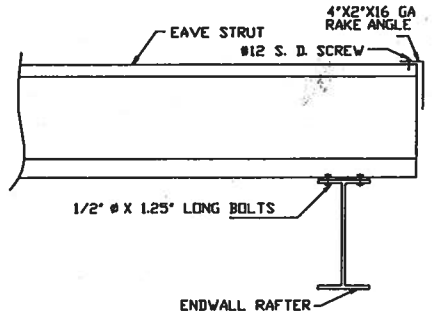
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



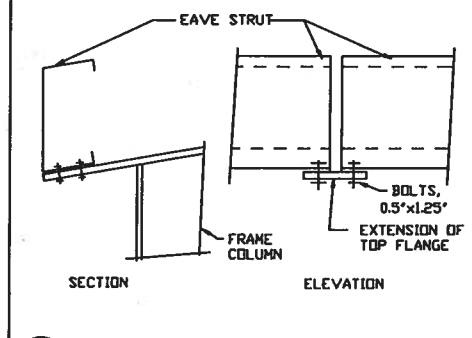
H2 BYPASS SIDEWALL GIRT TO RIGID FRAME COLUMN



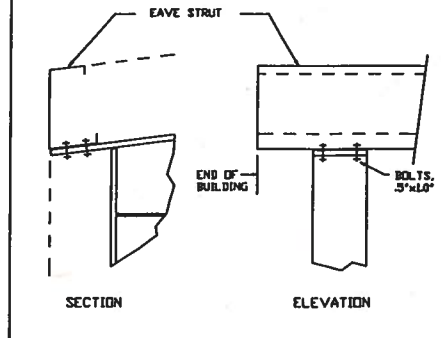
H9 WIND COLUMN TO BUILDING COLUMN



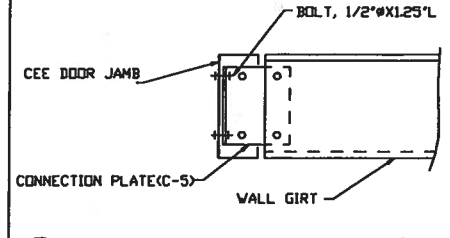
I8 EAVE STRUT TO HOT ROLLD OR WELDED ENDWALL RAFTER



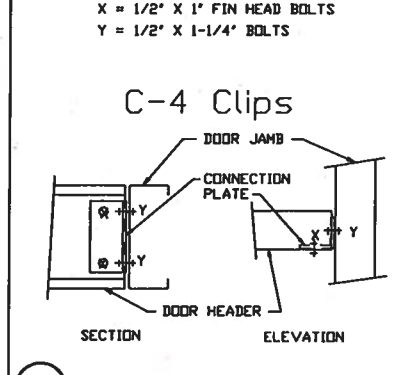
J2 EAVE STRUT TO RIGID FRAME



J24 EAVE STRUT TO RIGID FRAME



K2 WALL GIRT TO DOOR JAMB



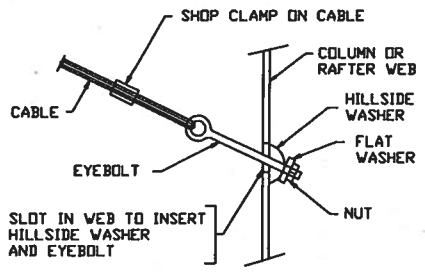
M1 DOOR HEADER TO DOOR JAMB

9-25-07

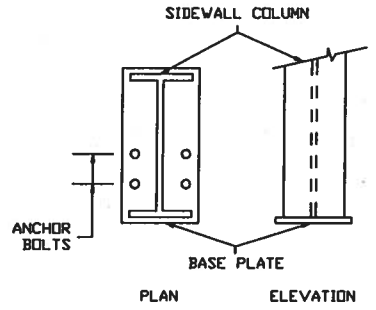
GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

Adel Steel Inc.		Russell North Constructio		
PROJECT	Addison Animal Clinic	STRUCTURAL DETAILS		
ID	7122	DESIGN:	DRAFT:	CHECK:
PROJECT		DATE: 8/29/07	SHEET	OF

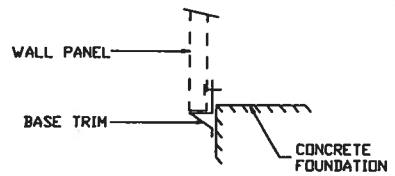
NOTE: SLOT PADS FOR WEBS LESS THAN 1/4"



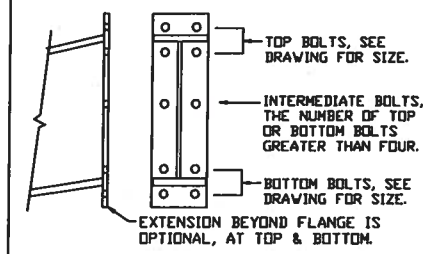
(Q2) DIAGONAL CABLE, EYEBOLT END



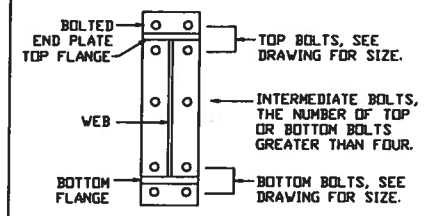
(R2) ANCHOR BOLTS AT SIDEWALL COLUMN



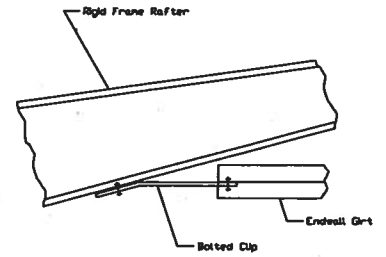
(T7) SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



(U2) BOLTED END PLATE CONNECTION AT BUILDING PEAK



(U3) BOLTS FOR RAFTER TO COLUMN CONNECTION



(W4) SECTION OF ENDWALL GIRT TO RAFTER

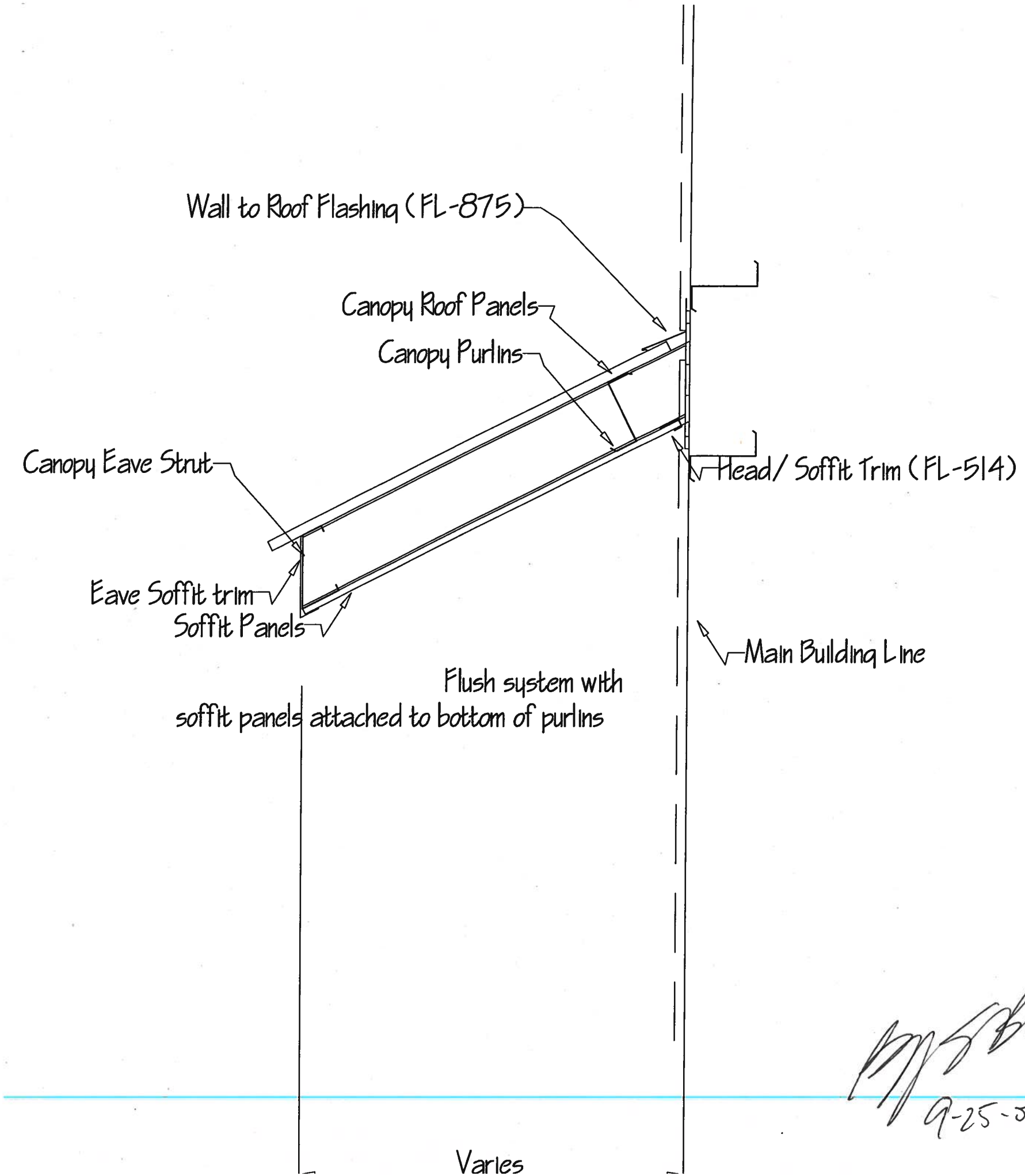
(X1)

(X2)

GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

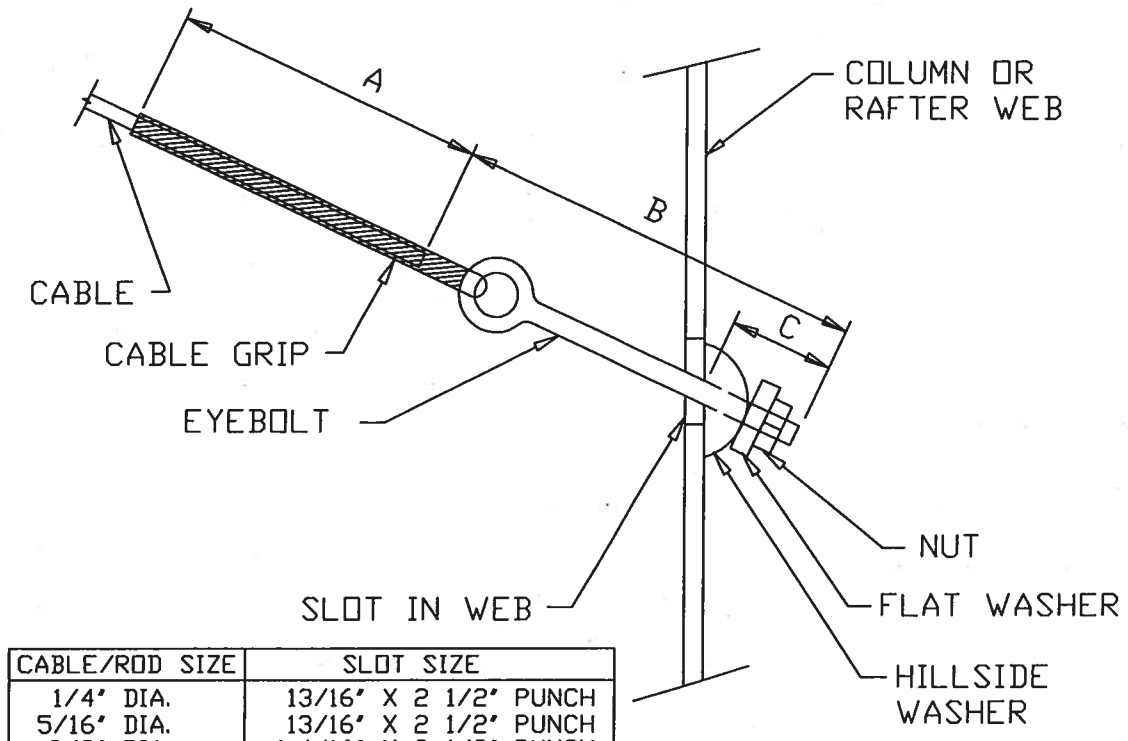
9-25-07

Adel Steel Inc.		Russell North Constructio		
PROJECT	Addison Animal Clinic	STRUCTURAL DETAILS		
ID	7122	DESIGN:	DRAFT:	CHECK:
PROJECT		DATE: 8/29/07	SHEET	OF



GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P.E # 54419

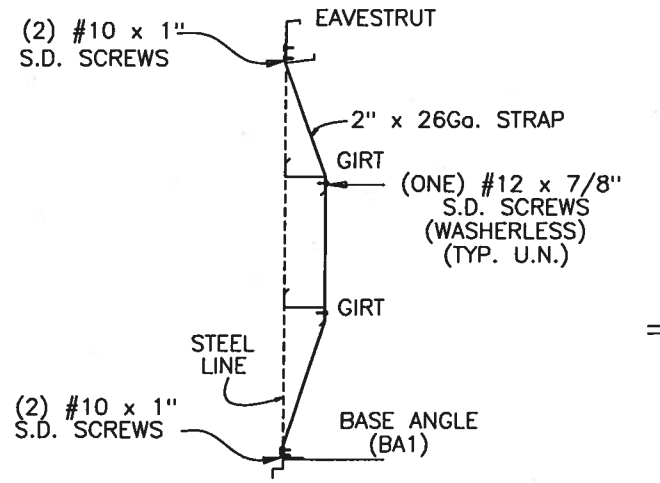
9-25-07



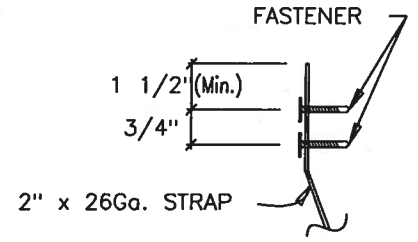
CABLE/ROD SIZE	SLOT SIZE
1/4" DIA.	13/16" X 2 1/2" PUNCH
5/16" DIA.	13/16" X 2 1/2" PUNCH
3/8" DIA.	1 1/16" X 2 1/8" PUNCH
1/2" DIA.	1 1/16" X 2 13/16" PUNCH
3/4" DIA. ROD	1 1/16" X 2 1/2" PUNCH
7/8" DIA. ROD	1 1/16" X 2 1/2" PUNCH
1" DIA. ROD	1 3/16" X 3" BURNED
1 1/4" DIA. ROD	1 7/16" X 3 1/2" BURNED

NOTE: CABLE MANUFACTURED LENGTH
IS TOTAL LENGTH MINUS B X 2.

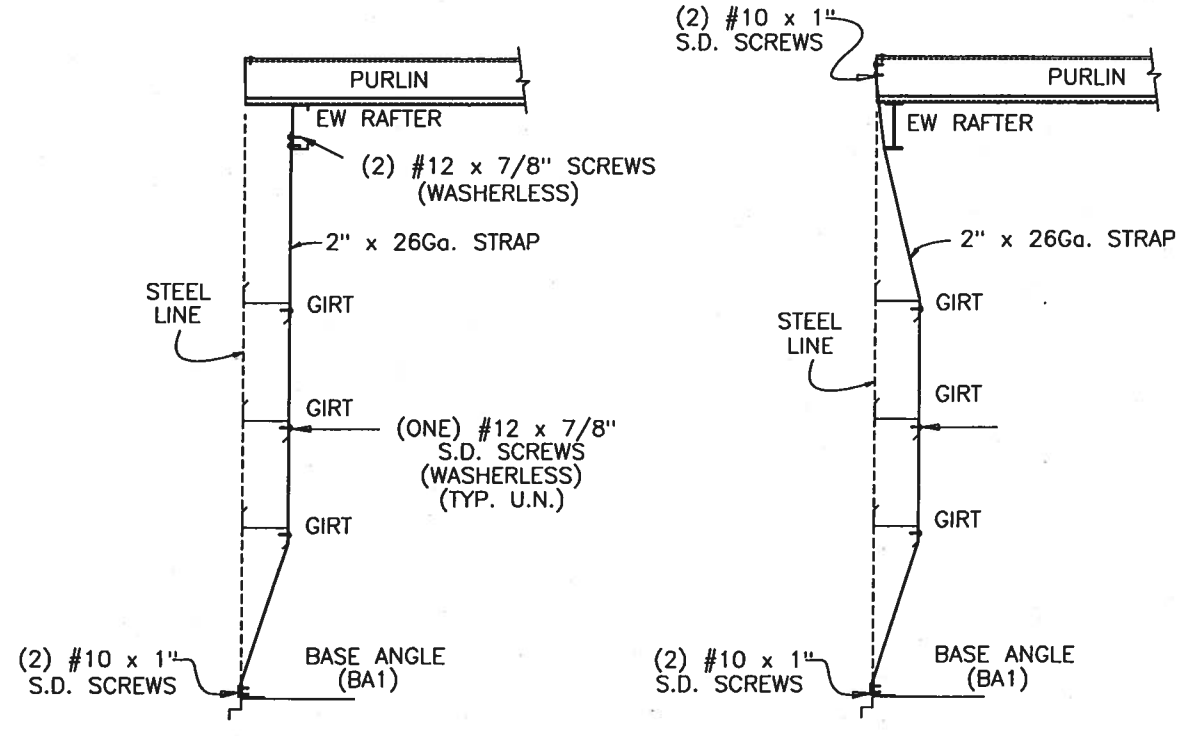
CABLE/ROD SIZE	A	B	C	DEDUCT
1/4" DIA.	19 1/2"	12"	3"	1'-6"
5/16" DIA.	21"	13"	3"	1'-8"
3/8" DIA.	29 1/2"	13"	3"	1'-8"
1/2" DIA.	38"	16 1/2"	4"	2'-1"
3/4" DIA. ROD	-	-	4"	2'-1"
7/8" DIA. ROD	-	-	4"	2'-1"
1" DIA. ROD	-	-	6"	1'-9"
1 1/4" DIA. ROD	-	-	6"	1'-9"



TYPICAL GIRT STRAPPING DETAIL
(@ SIDEWALL)
(SEE WALL ELEVATIONS)



FASTENER LOCATIONS



TYPICAL GIRT STRAPPING DETAIL
(@ ENDWALLS)
(SEE WALL ELEVATIONS)

TYPICAL GIRT STRAPPING DETAIL
(@ ENDWALLS)
(SEE WALL ELEVATIONS)

STRAPPING @ WALL GIRT DETAIL

See Erection Drawing for whether strapping is applicable

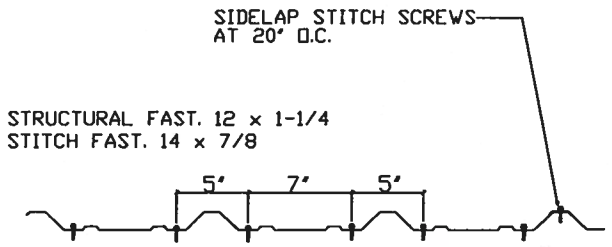
ADEL STEEL INC.
STEEL BUILDINGS
800-354-7605
ADEL, GEORGIA

TITLE
CABLE AND ROD BRACING
@ WEB SLOT

DRAWN BY	DATE
JIMMY RICHARDSON	3-27-03
	DRAWING

GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

9-25-07

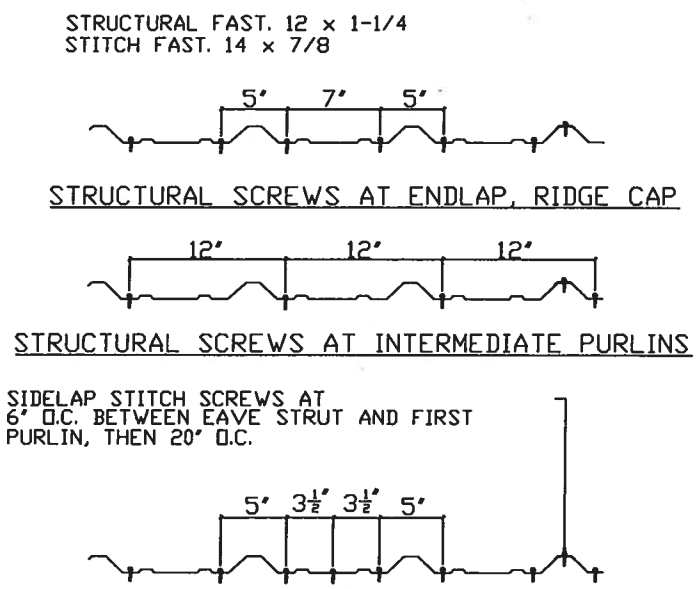


STRUCTURAL SCREWS AT ENDLAP, RIDGE CAP AND EAVE STRUT

STRUCTURAL SCREWS AT INTERMEDIATE PURLINS

PANEL ATTACHMENT DETAIL

"R" PANEL ROOF



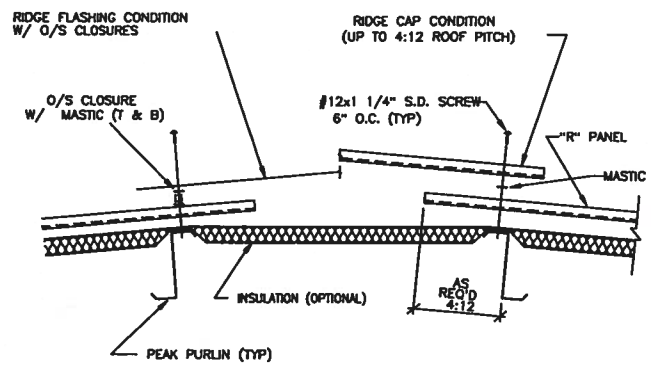
STRUCTURAL SCREWS AT ENDLAP, RIDGE CAP

STRUCTURAL SCREWS AT INTERMEDIATE PURLINS

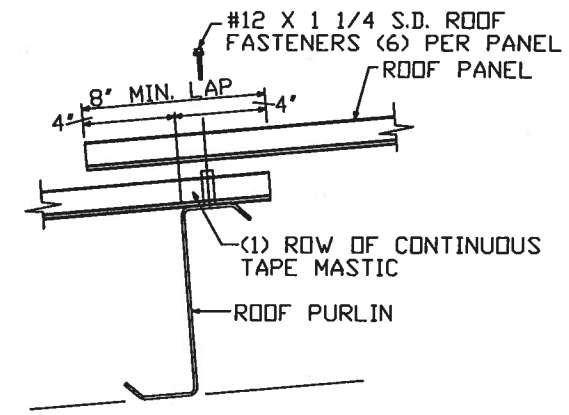
STRUCTURAL FASTENERS AT EAVESTRUT

ROOF PANEL ATTACHMENT DETAIL

"R" PANEL ROOF W/ ICE DAMMING

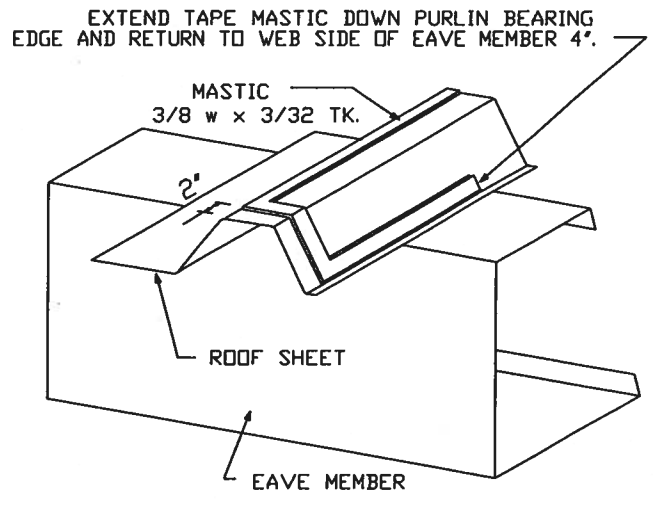


SECTION THRU RIDGE



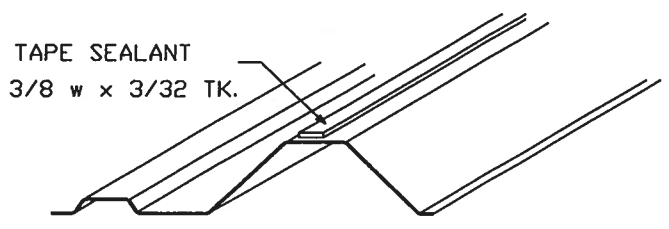
PANEL ENDLAP DETAIL

"R" PANEL ROOF



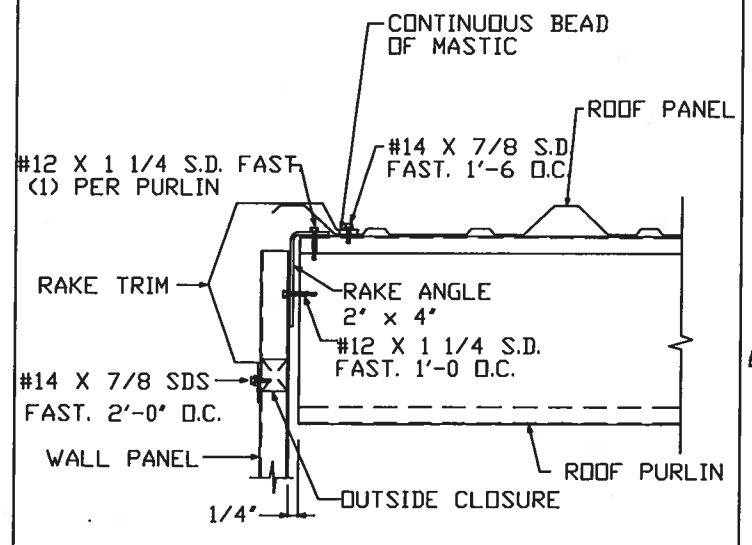
EAVE SEALANT DETAIL

"R" PANEL ROOF



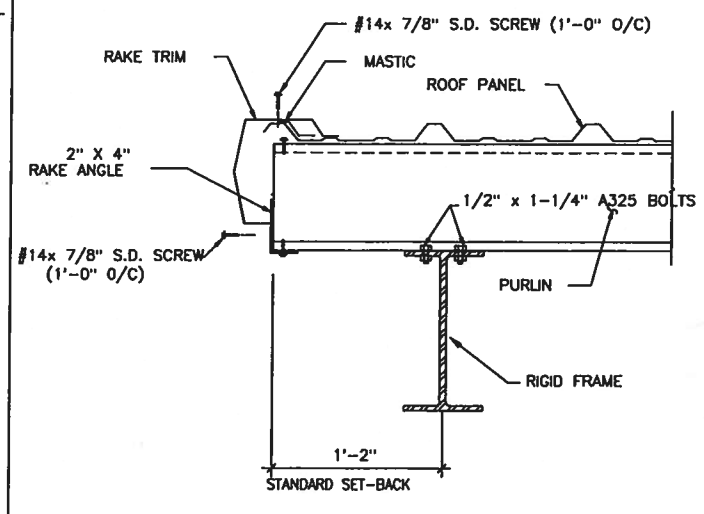
SIDE LAP SEALING

"R" PANEL ROOF



RAKE DETAIL PANELED ENDWALL

"R" PANEL ROOF, "R" & "A" PANEL WALLS



DETAIL @ OPEN R/F ENDWALL RAKE

"R" PANEL ROOF

NOTE:

1. Panel & Trim Cross Section and configuration are for illustrative purpose only.
2. Metal Bldg. Manufacturer(MBM) reserves the right to substitute panels and/or trim that are similar in cross section and may vary slightly.
3. Metal Bldg. Manufacturer reserves the right to substitute parts, etc., based on contract documents. MBM Standard is box trim and flat ridge cap.
4. Details are TYPICAL and All shown MAY NOT apply to this job.

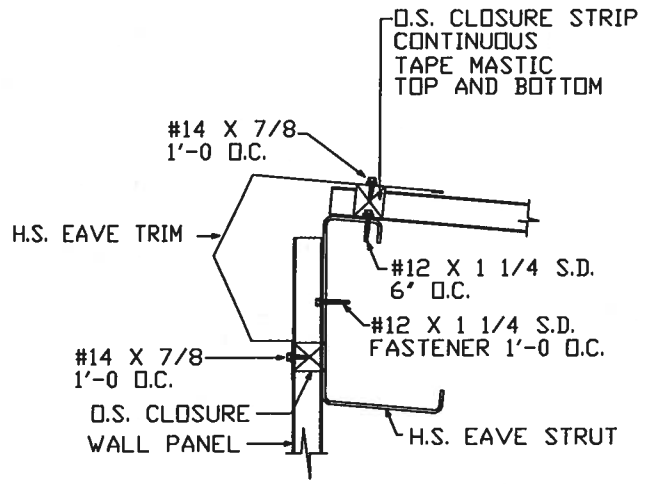
GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

9-25-07

TITLE

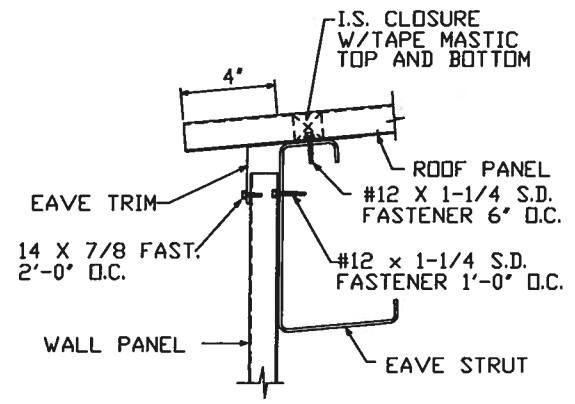
"R" ROOF DETAILS

DRAWN BY	DRAWING



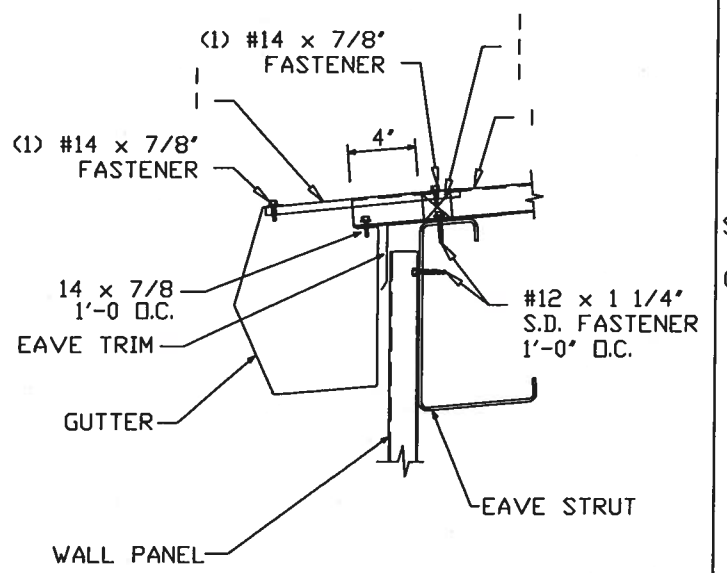
HIGHSIDE EAVE DETAIL

"R" PANEL ROOF, "R" PANEL WALL



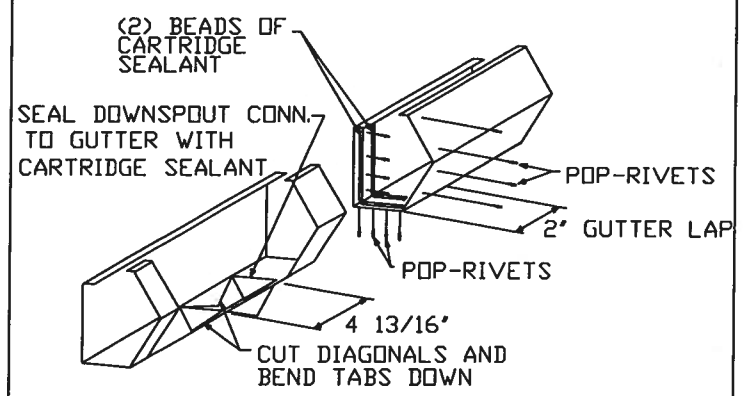
EAVE DETAIL W/O GUTTER

"R" PANEL WALL



EAVE GUTTER DETAIL

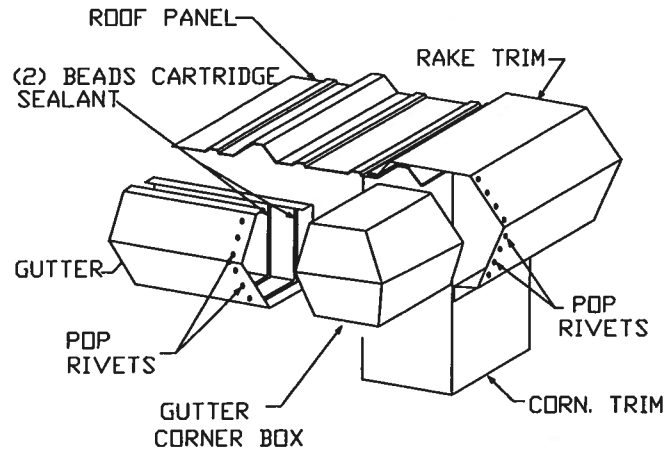
"R" PANEL ROOF "R" PANEL WALL



DOWNSPOUT CUTOUT DETAIL

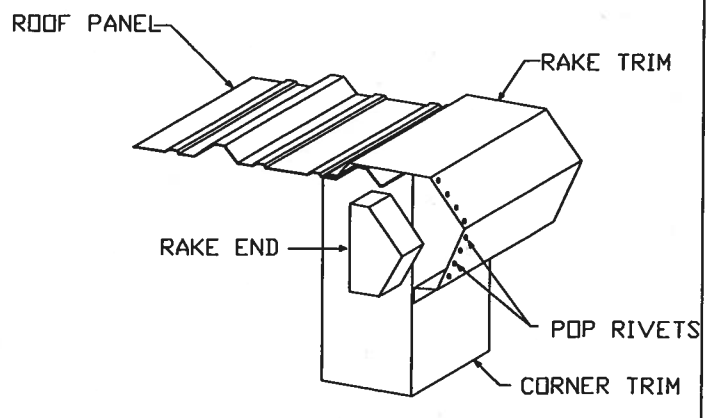
EAVE GUTTER LAP DETAIL

"R" PANEL ROOF



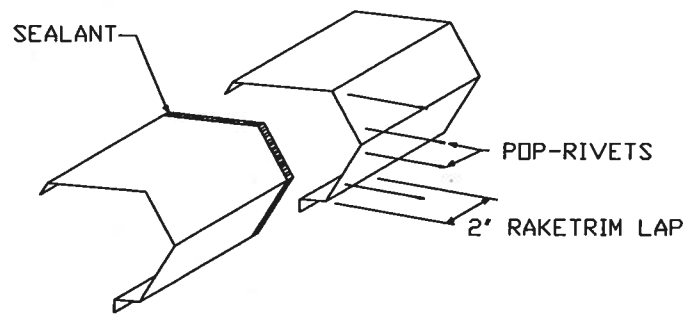
GUTTER - RAKE TRANSITION DETAIL

"R" PANEL ROOF



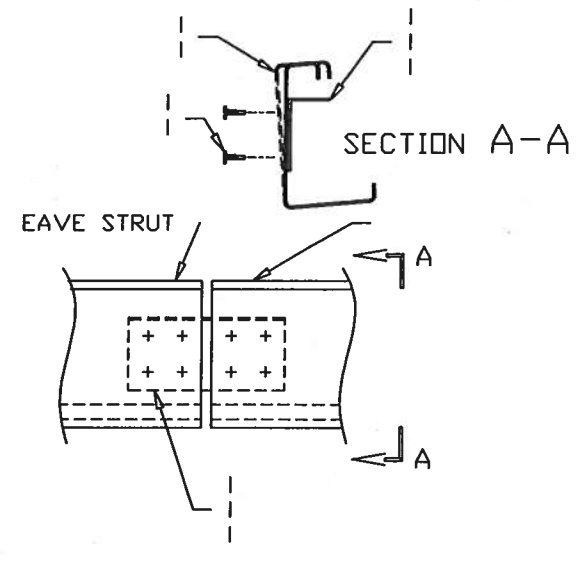
RAKE CORNER W/O GUTTER

"R" PANEL ROOF



RAKE TRIM LAP DETAIL

"R" PANEL ROOF



MISALIGNED EAVE STRUT DETAIL

IN THE EVENT THAT EAVE STRUTS DO NOT PROPERLY ALIGN PLEASE REFER TO THE ABOVE DETAILS FOR CORRECTIVE MEASURES.

GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

9-25-07

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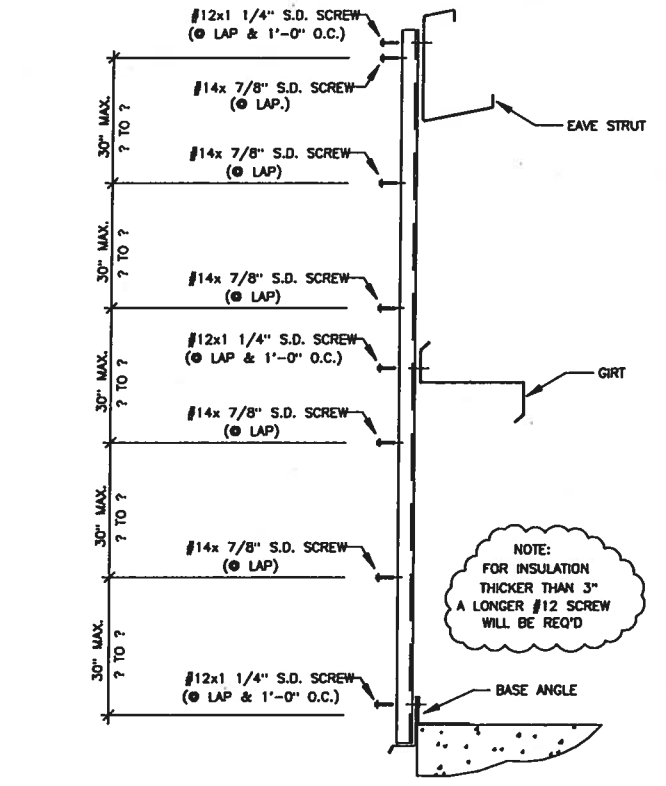
4. Details are TYPICAL and All shown MAY NOT apply to this job.

TITLE
"R" ROOF DETAILS

DRAWN BY

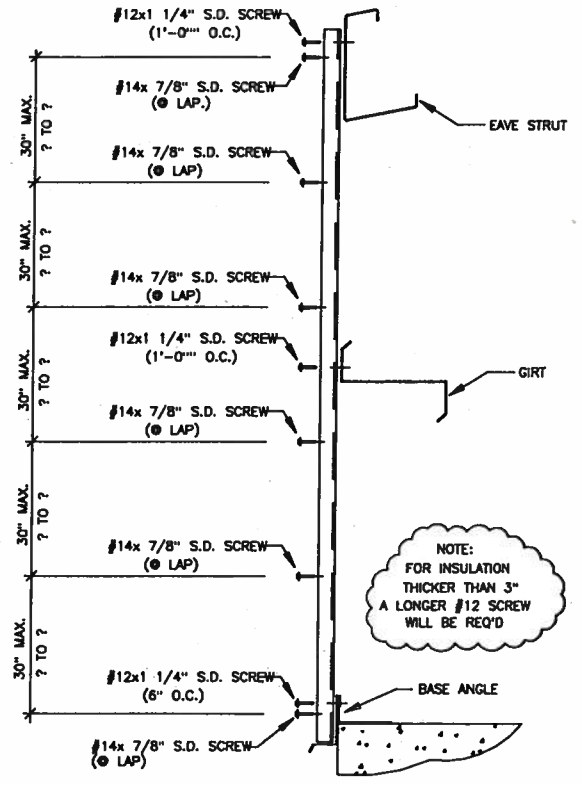
DRAWING



USE A #12 x 1 1/4" S.D. 1'-0" O.C. AT EACH SUPPORT (INCLUDING BASE)

USE A #14 x 7/8" S.D. 30" O.C. MAX AT PANEL SIDELAPS BETWEEN SUPPORTS

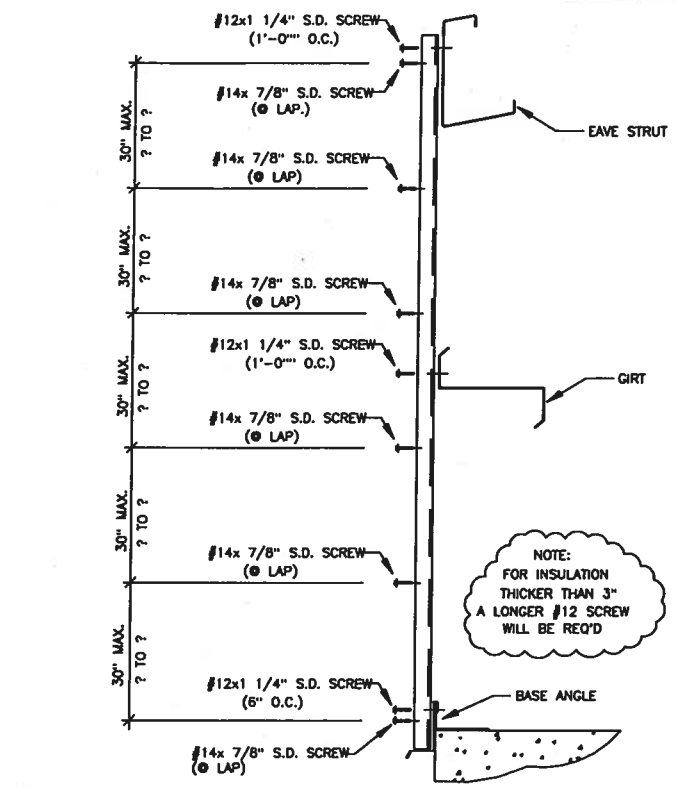
FASTENER LAYOUT AT "A" WALL PANEL LAP



USE A #12 x 1 1/4" S.D. 1'-0" O.C. AT EACH SUPPORT (UNLESS NOTED)

USE A #14 x 7/8" S.D. 30" O.C. MAX AT PANEL SIDELAPS

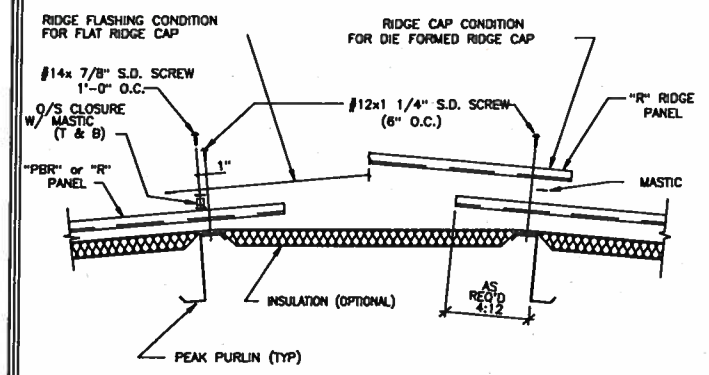
FASTENER LAYOUT AT "U" WALL PANEL LAP



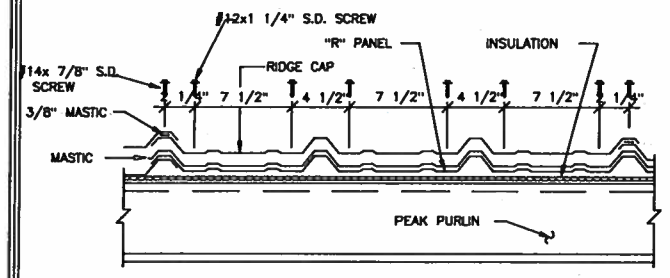
USE A #12 x 1 1/4" S.D. 1'-0" O.C. AT EACH SUPPORT (UNLESS NOTED)

USE A #14 x 7/8" S.D. 30" O.C. MAX AT PANEL SIDELAPS

FASTENER LAYOUT AT "R" WALL PANEL LAP

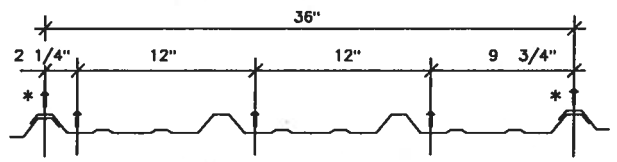


SECTION THRU RIDGE



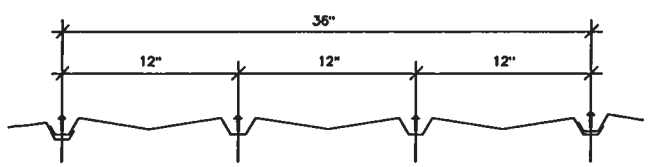
SECTION THRU RIDGE PANEL

WALL PANEL FASTENER LAYOUT AT EAVE STRUT AND INTERMEDIATE GIRTS



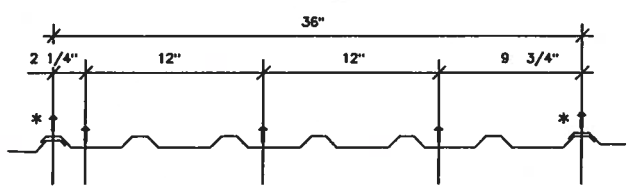
*#14 x 7/8" S.D. SCREWS (30" O.C.)

R-PANEL



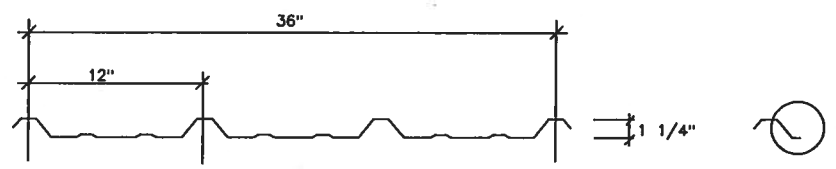
(SEE EM-6.0.2 FOR FASTENER LAYOUT AT "A" PANEL LAP)

A-PANEL



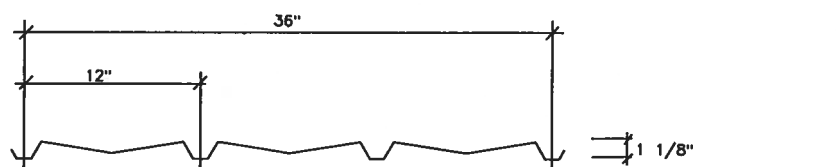
*#14 x 7/8" S.D. SCREWS (30" O.C.)

U-PANEL

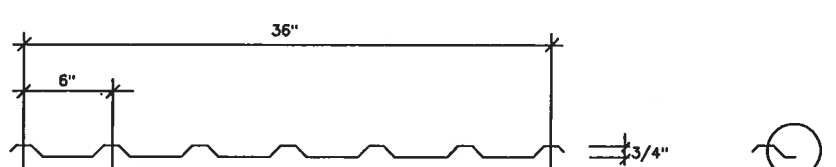


R-PANEL

"PBR"

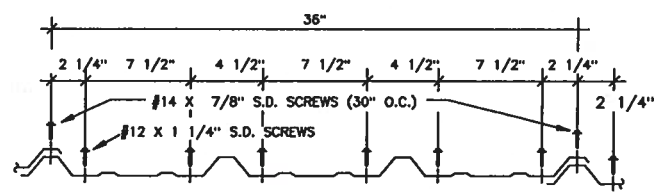


A-PANEL

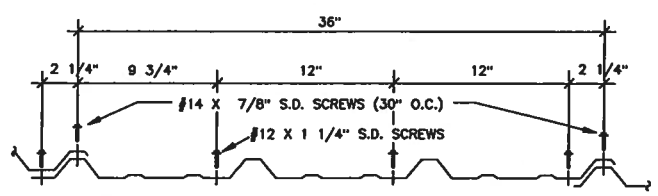


U-PANEL

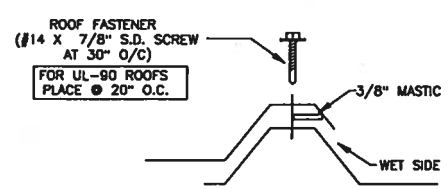
"PBM"



ROOF PANEL FASTENER LAYOUT AT EAVE STRUT, INTERMEDIATE PANEL LAP AND PEAK PURLIN



ROOF PANEL FASTENER LAYOUT AT INTERMEDIATE PURLIN



DETAIL AT PANEL SIDE LAP

NOTE:

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4. Details are TYPICAL and all WILL NOT apply to this job.

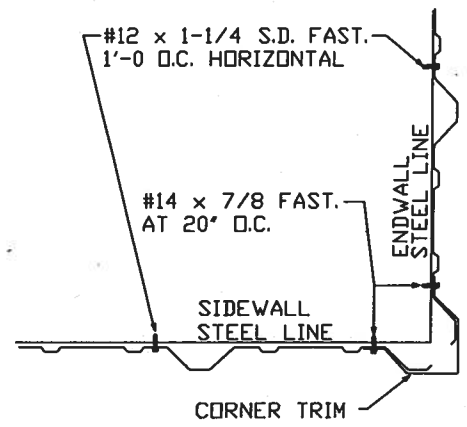
GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

9-25-07

TITLE
PANEL WALL FASTENER DETAILS

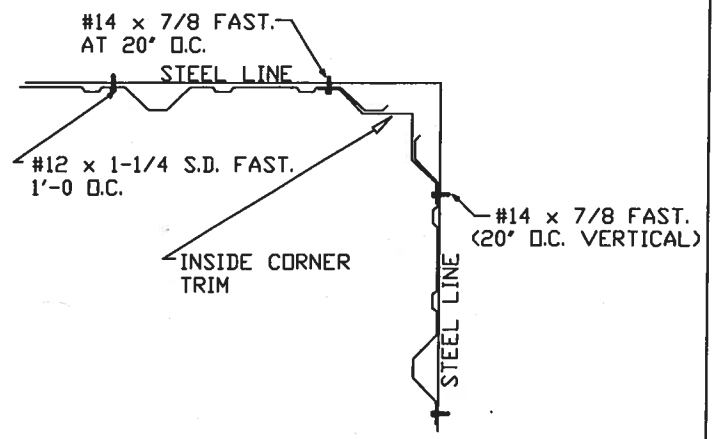
DRAWN BY | DRAWING

DATE:	REVISIONS	BY
06-18-01	ADDED DETAIL	JDJ
6-20-05	ADDED DETAIL	JG

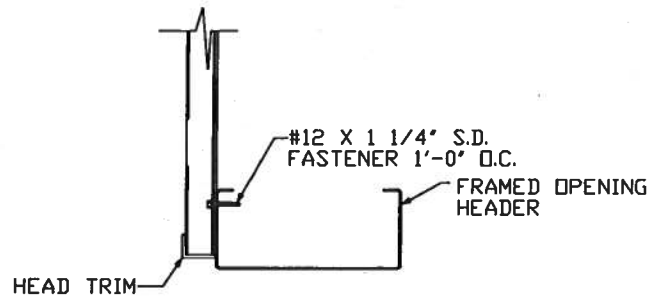


OUTSIDE CORNER TRIM SHEETED WALLS

"R" PANEL WALL

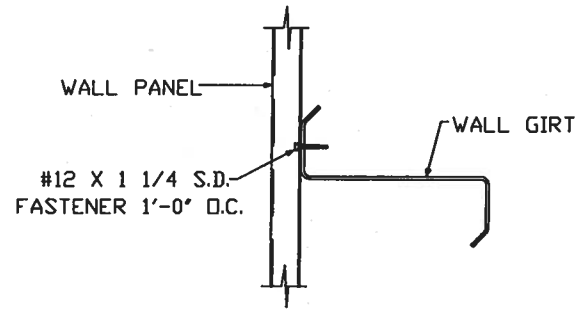


INSIDE CORNER TRIM SHEETED WALLS



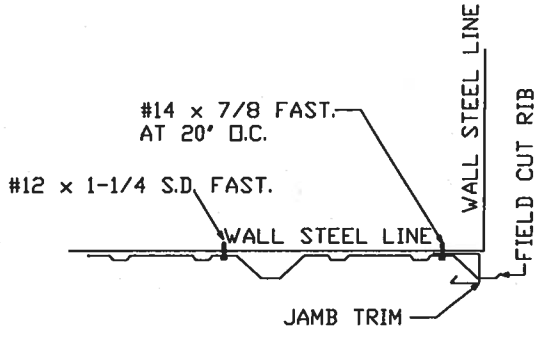
FRAMED OPENING HEADER

"R" PANEL WALL



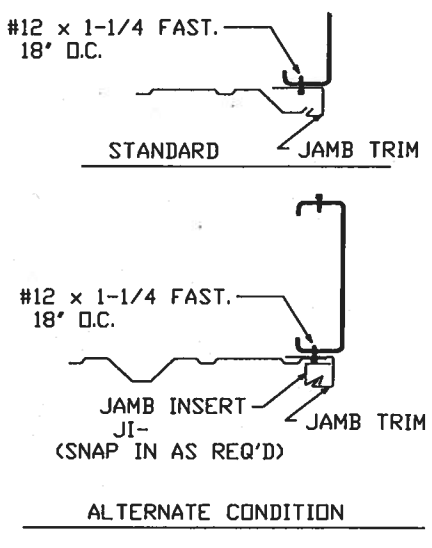
INTERMEDIATE GIRT DETAIL

"R" PANEL WALL



OUTSIDE CORNER TRIM WITH OPEN WALL

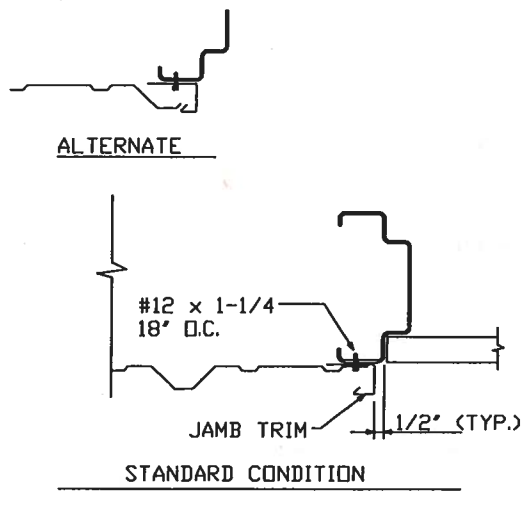
"R" PANEL WALL



ALTERNATE CONDITION

JAMB TRIM

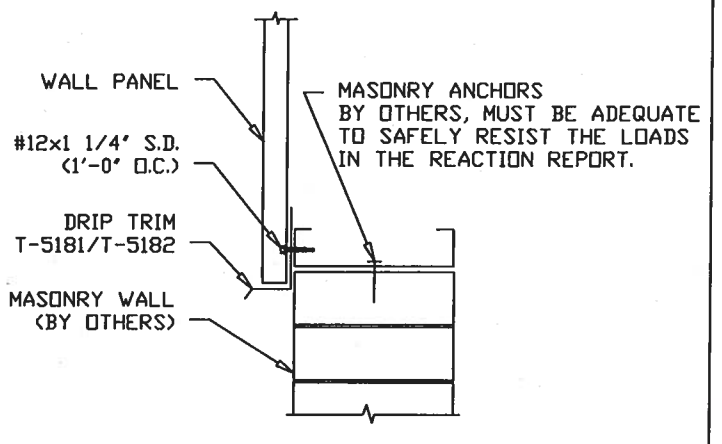
"R" PANEL WALL



STANDARD CONDITION

JAMB TRIM

"R" PANEL WALL



BASE DETAIL W/MASONRY

"R" & "A" PANEL WALL

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GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

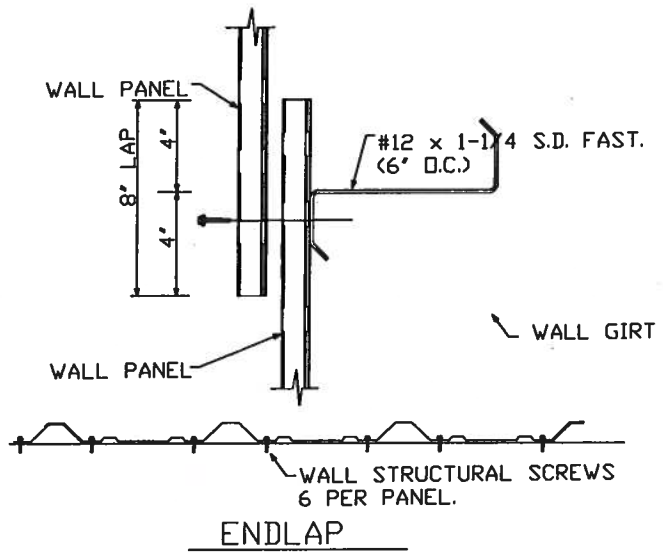
9-25-07

TITLE
"R" PANEL WALL DETAILS

DRAWN BY

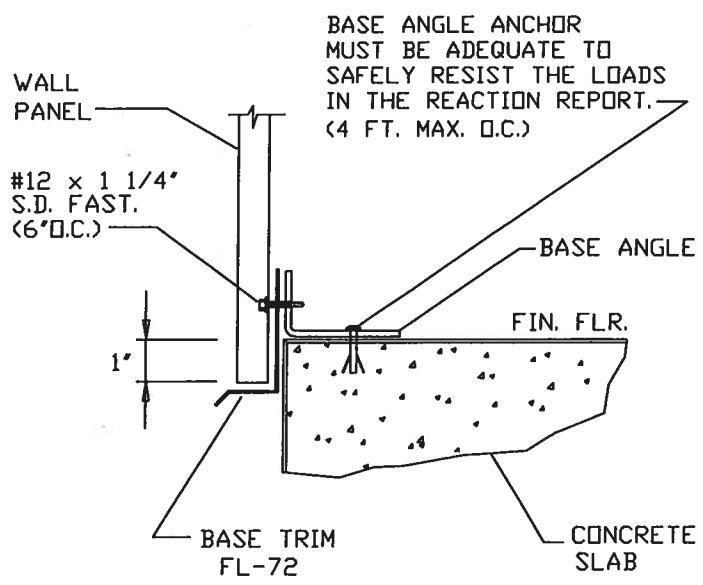
DRAWING

NOTE: BASE TRIM IS NOT DESIGNED TO SUPPORT WALL PANELS!!!



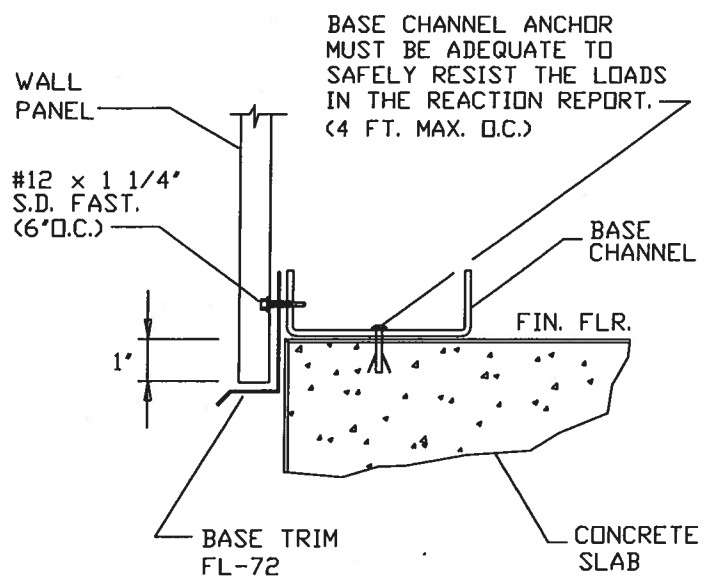
PANEL SPLICE

"R" PANEL WALL



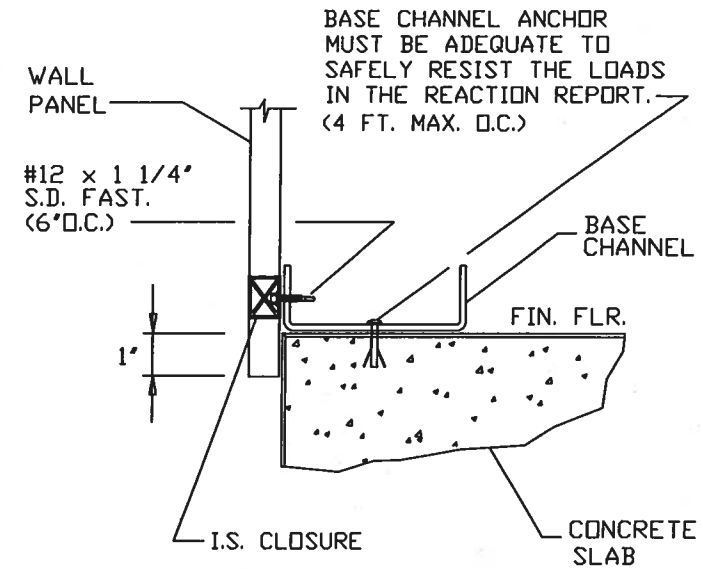
STANDARD BASE DETAIL WITH TRIM

"R" PANEL WALL



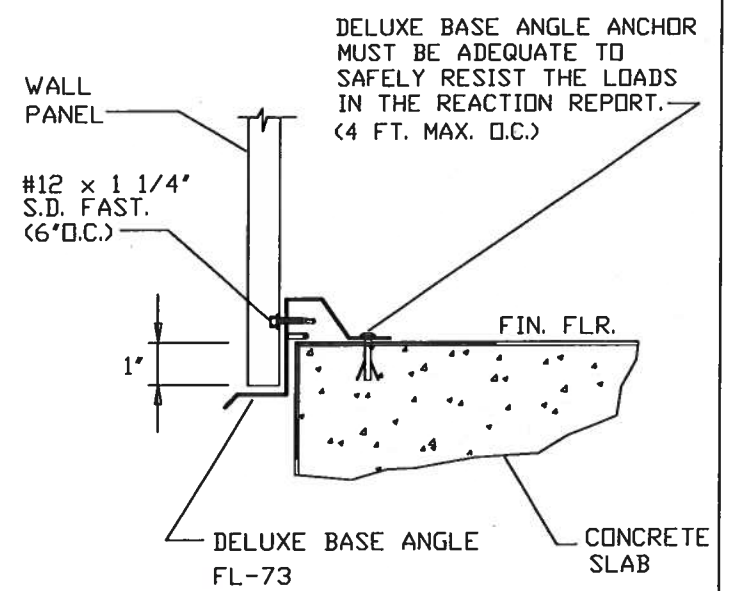
BASE CHANNEL DETAIL WITH TRIM

"R" PANEL WALL



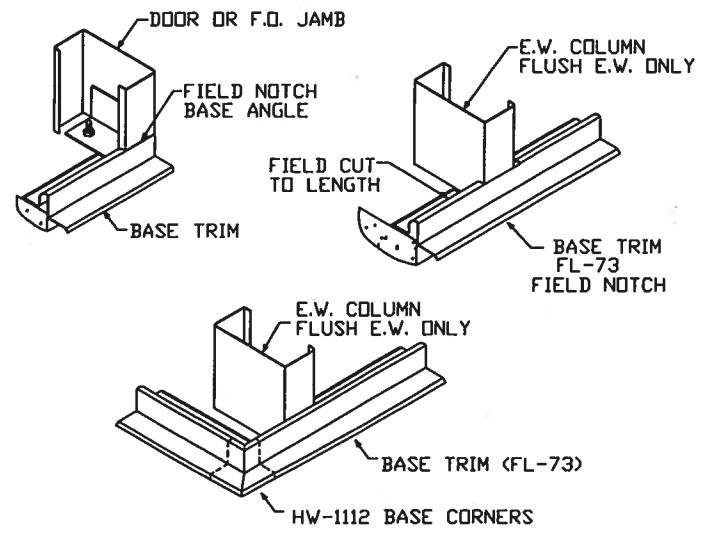
BASE CHANNEL DETAIL W/O TRIM

"R" PANEL WALL



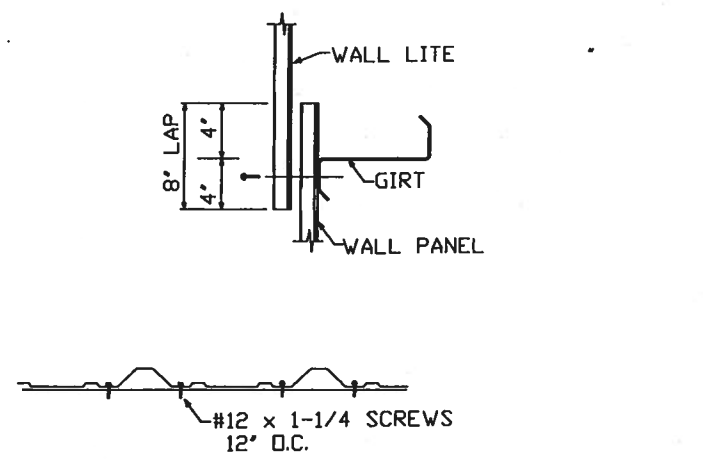
DELUXE BASE DETAIL

"R" PANEL WALL



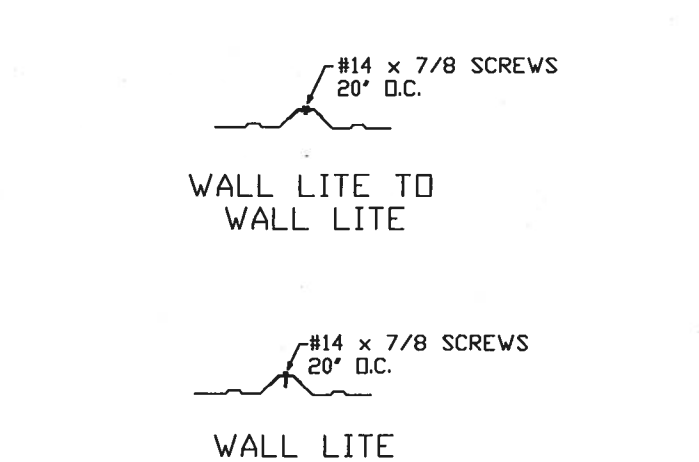
DELUXE BASE ANGLE DETAILS

"R" PANEL WALL



WALL LITE ENDLAP

"R" PANEL WALL



WALL LITE SIDELAP

"R" PANEL WALL

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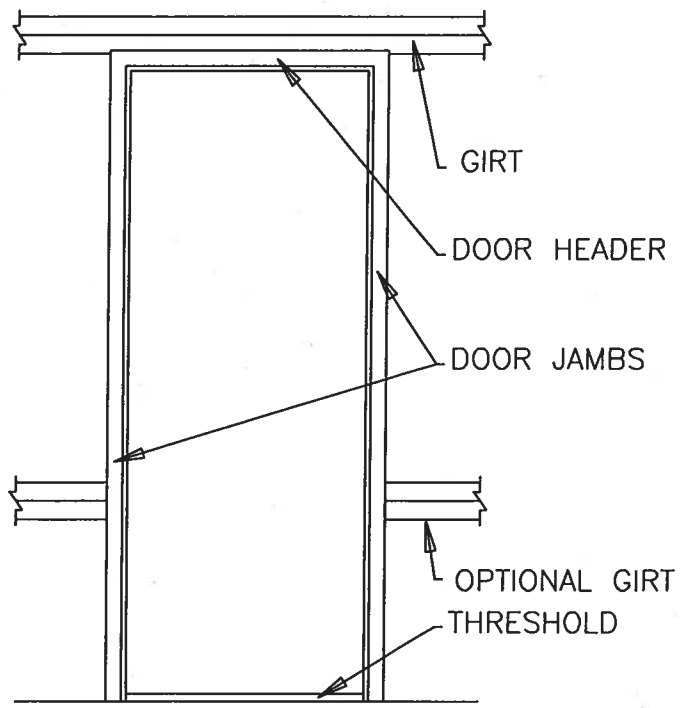
GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

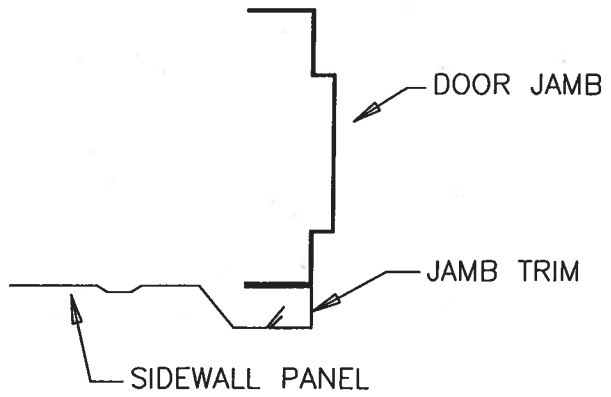
9-25-07

TITLE
"R" PANEL WALL
DETAILS

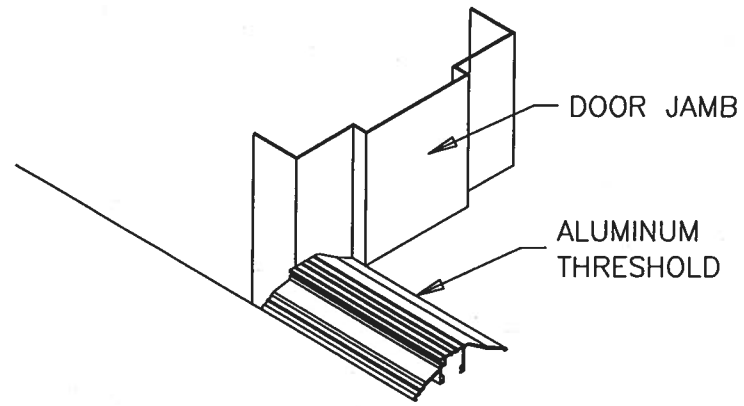
DRAWN BY J. JENKINS | DRAWING



FRAMING ELEVATION

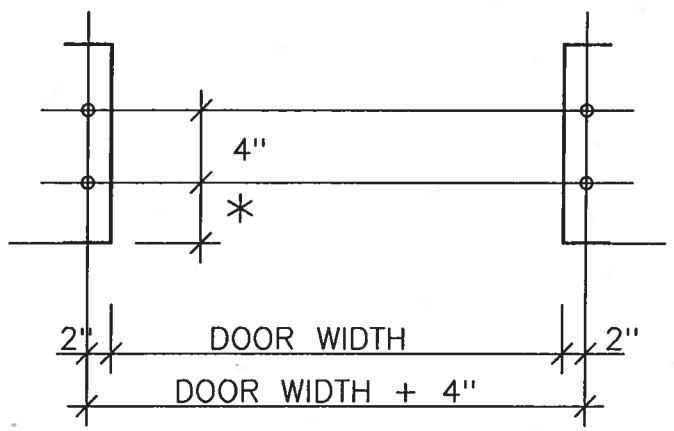


DETAIL @ DOOR JAMB

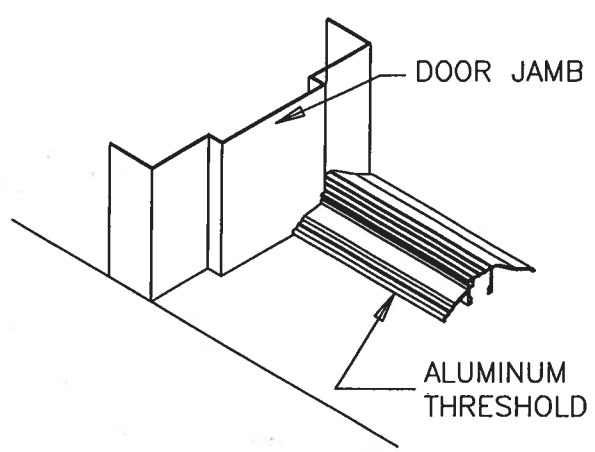


SILL DETAIL
SWING–OUT DOOR

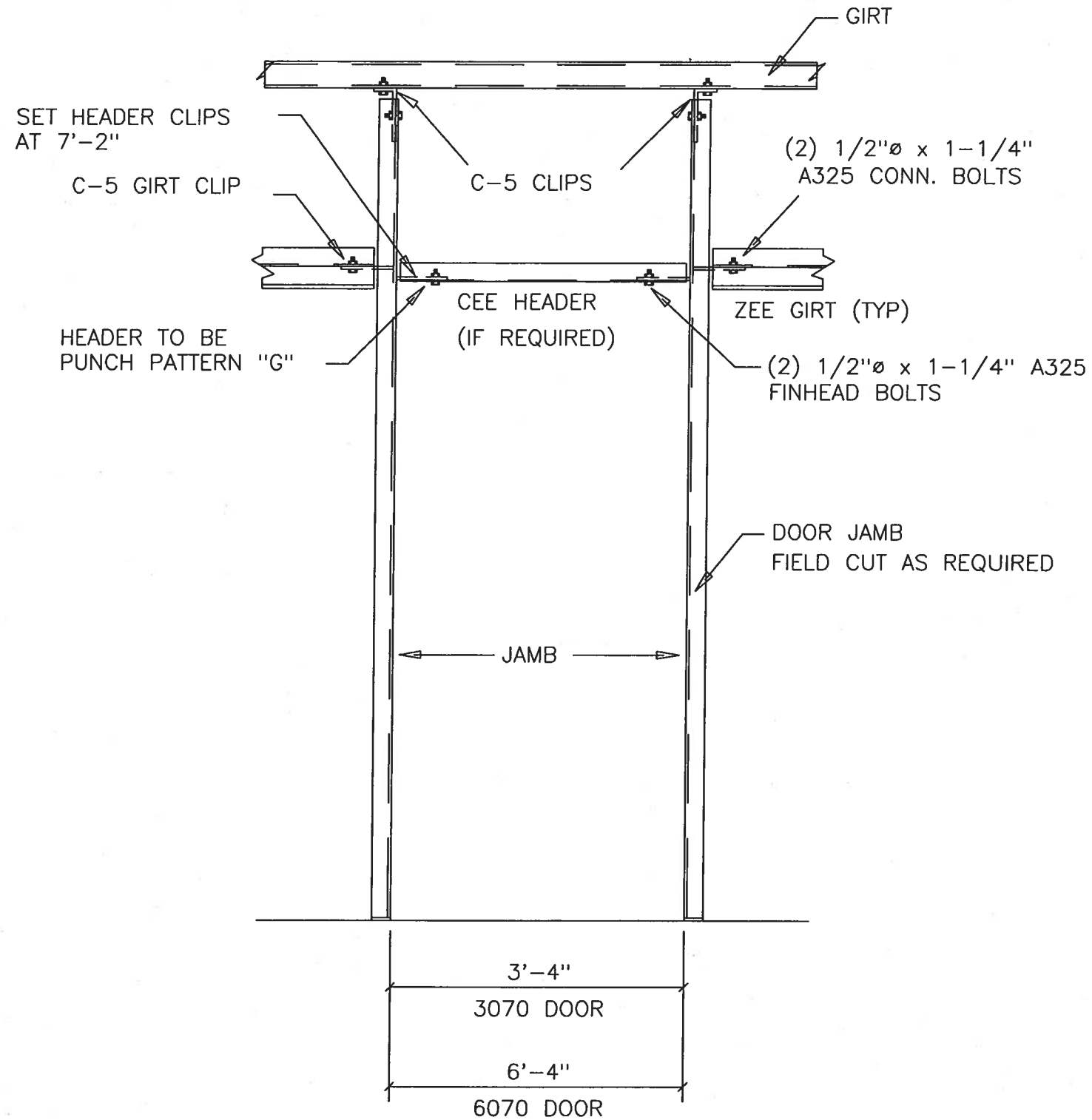
* = 2" @ 8" JAMBS
3" @ 10" JAMBS
4" @ 12" JAMBS



DETAIL OF BOLT LAYOUT



SILL DETAIL
SWING–IN DOOR

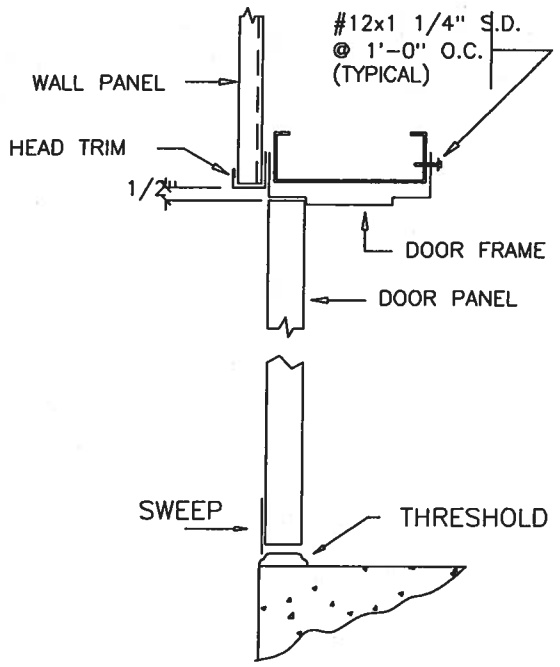


FRAMED OPENING FOR WALKDOOR

GREGORY S. BARFIELD, P.E
2149 NELL PURVIS ROAD
ADEL, GA 31620
P E # 54419

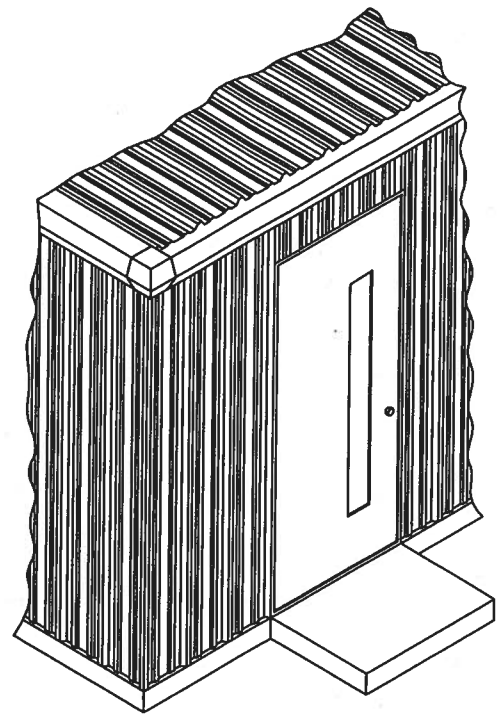
9-25-07

Adel Steel, Inc.				
PROJECT		STRUCTURAL DETAILS		
ID		DESIGN:	DRAFT:	CHECK:
PROJECT		DATE:	SHEET	OF



DOOR SECTION

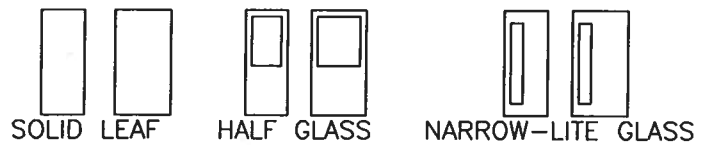
DOOR LOCATION
SPECIFIED BY THE OWNER
OR ARCHITECT.
FIELD LOCATE SO THAT
THE FRAME OCCURS
ON A PANEL HIGH RIB.
CUTOUT PANEL & GIRT
3'-1" x 7'-0"



INSTALLED DOOR

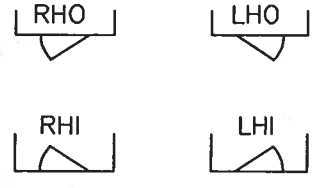
BOLT DOOR HEADER TO JAMB WITH
1/2" BOLTS PROVIDED

#12 SCREW THRU DOOR HEADER INTO GIRT

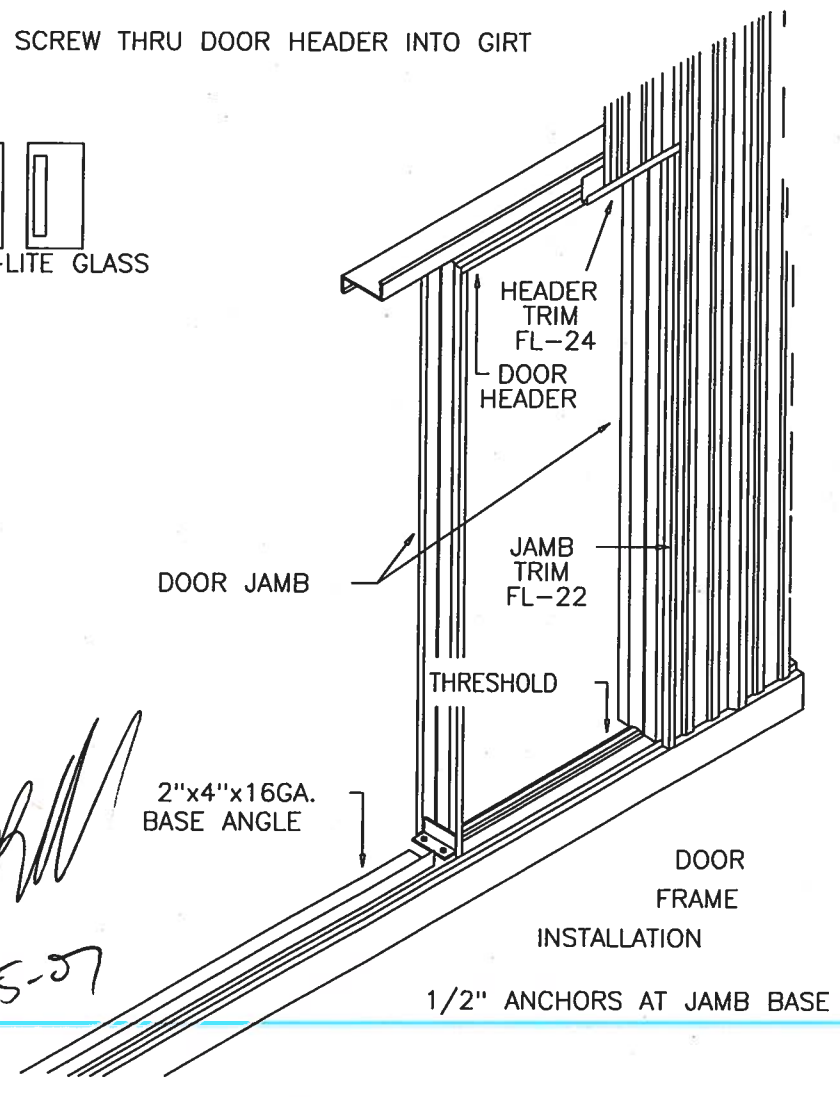


DOOR TYPES

UNIVERSAL DOORS ARE APPLICABLE
FOR: RIGHT HAND OUT,
LEFT HAND OUT,
RIGHT HAND IN &
LEFT HAND IN.
SPECIFY SWING
FOR HALF GLASS
DOORS

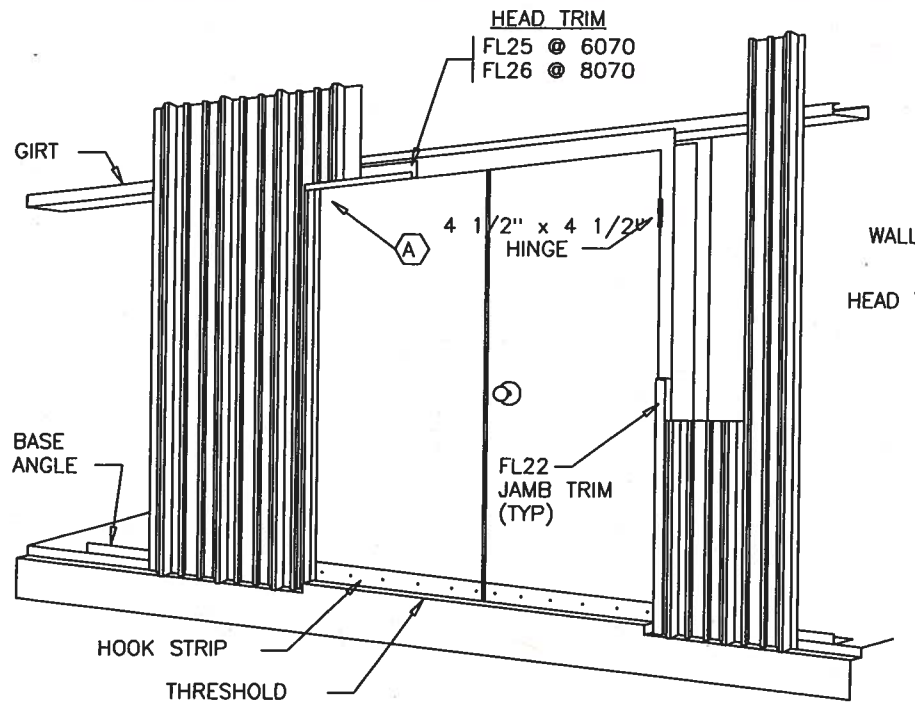


DOOR SWING TYPES

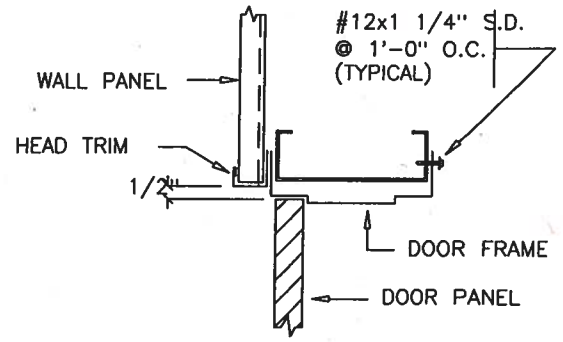


DOOR
FRAME
INSTALLATION

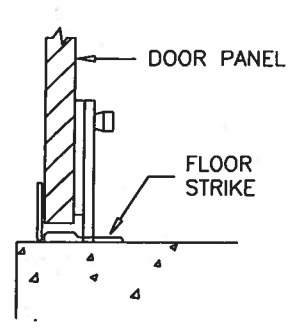
1/2" ANCHORS AT JAMB BASE



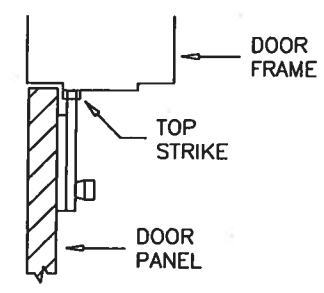
6070 & 8070 DOOR



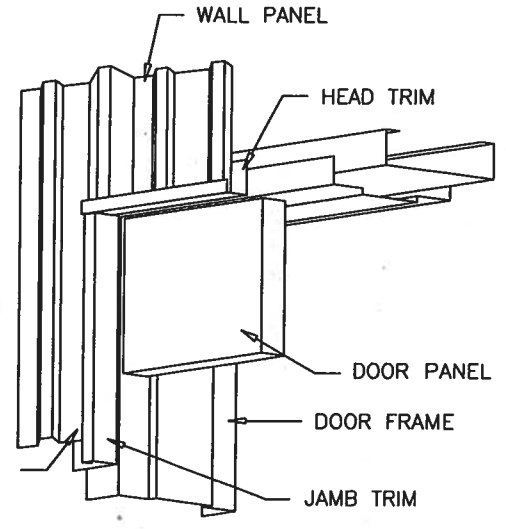
SECTION THRU DOOR HEADER



BOTTOM BOLT



TOP BOLT



A TRIM DETAIL

ERECTION PROCEDURE

1) Set door frame in position over pre-set anchor bolts. Bolt loosely to foundation.
2) Level header & attach to girt from inside of building only W/ #12x1 1/4" s.d. screws @ 1'-0" o.c.
3) Plumb hinge jamb and tighten anchor bolts.
4) Fasten hinges to jamb W/ screws provided in package, then screw door to hinges.
5) Using door as spacer, plumb striker jamb & tighten anchor bolts.
6) Field cut base girts adjacent to door frame (if bldg. has base girt) bolt girts at main building column and slide girt inside door jamb. Attach jamb to girt at inside of building only.
7) Drill ?"ø holes in foundation to attach threshold. Use threshold as templet to locate holes.
8) Attach hook strip at outside bottom of door to close the crack between the bottom of the door and the threshold when door is closed. Use screws provided in hook strip/threshold package.
9) Install panels around door. Short panel above door opening to be cut from full length panel. Panels at jambs to be notched to fit opening.
10) Slide long lip of header trim under panels at door header. Flashing should be raised 1/2" above header. Attach W/ #12x1 1/4" self-driller screws @ 1'-0" O.C. so that screws pass through panels, trim, door header and into girt.
11) Slide long lip of head trim under panels at door jamb. Flashing should be set back ?" from jambs for clearance. Attach W/ #12x1 1/4" self-driller screws @ 12" O.C. . Screw jamb to short girt from outside. (if bldg. has base girt).
12) Install lockset in door leaf according to instructions packaged with lockset.

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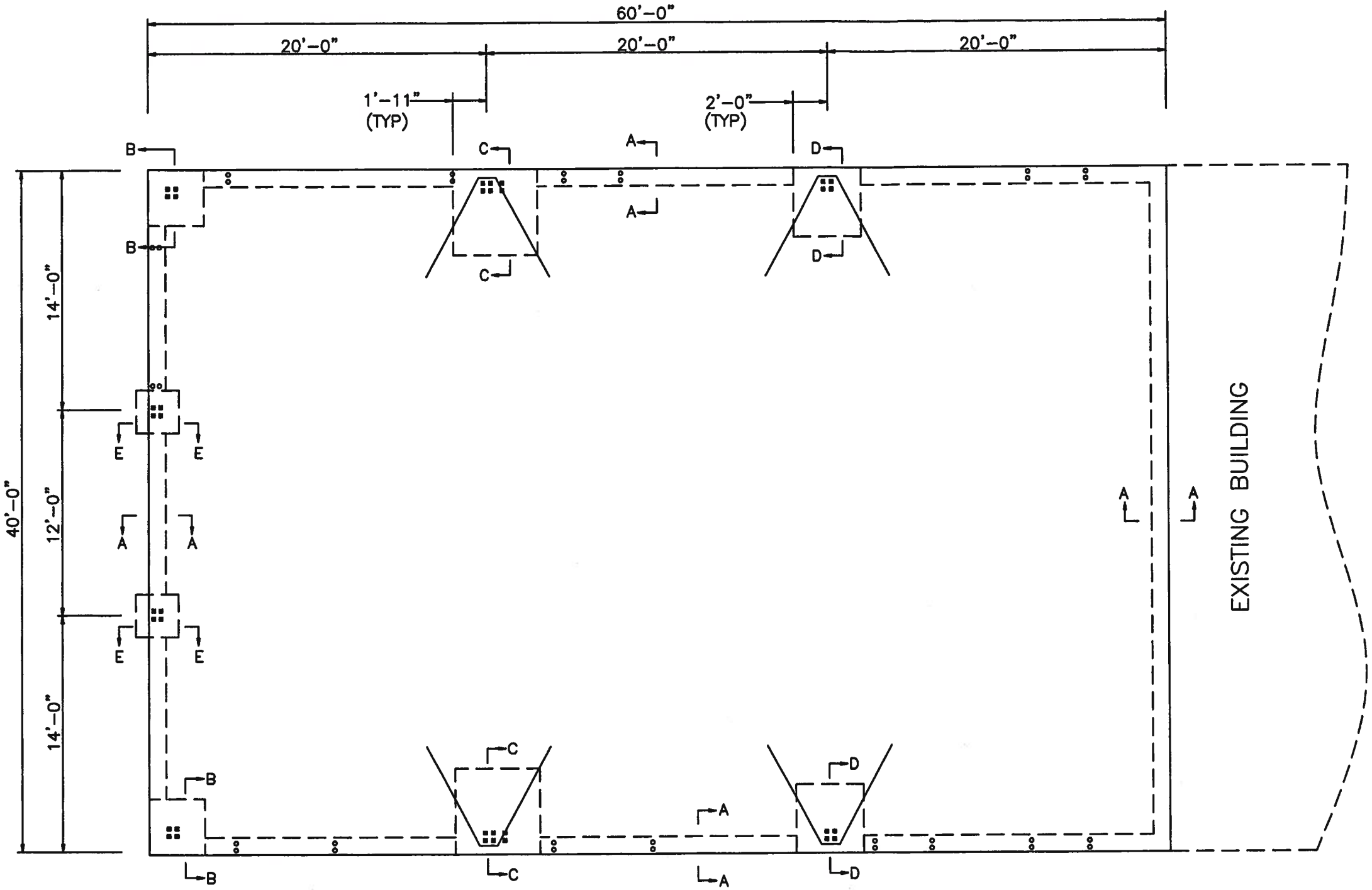
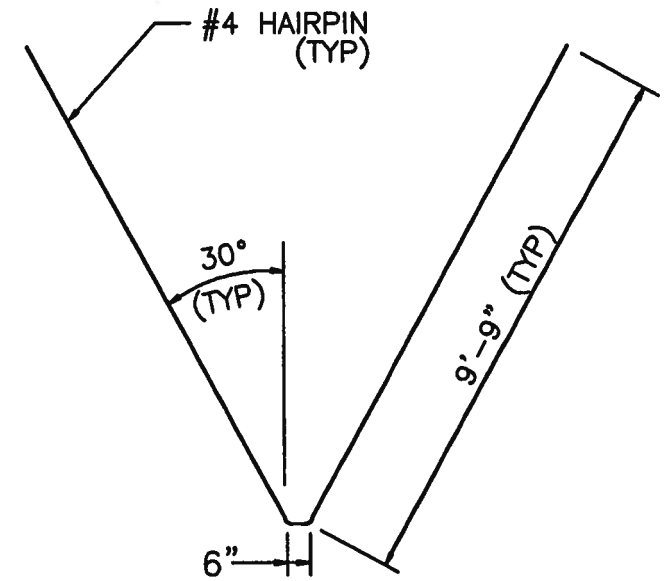
ADEL, GA 31620
P.E # 54419





HAIRPIN DETAIL

(INSTALL AT MID-DEPTH OF SLAB)

NOTE: ANCHOR BOLTS SHALL BE PLACED AS PER BUILDING MANUFACTURER'S PLANS.

* NOTE: SLOPE DOWN AREA IN FRONT OF ROLLUP DOOR 1" TO ALLOW WATER TO DRAIN FROM BASE OF DOOR.

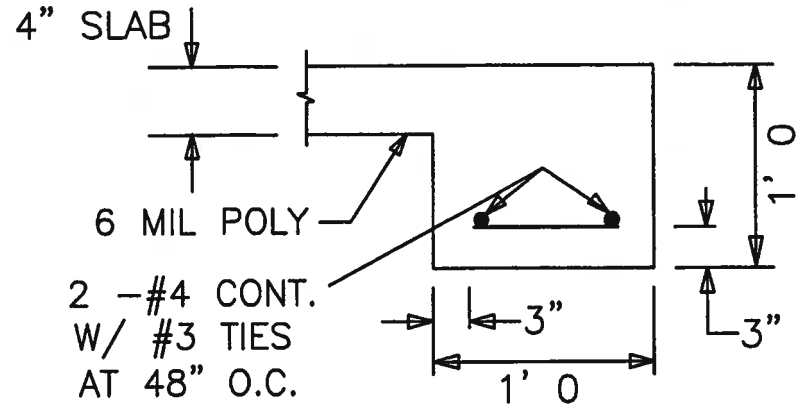
9-21-07

FOUNDATION PLANS

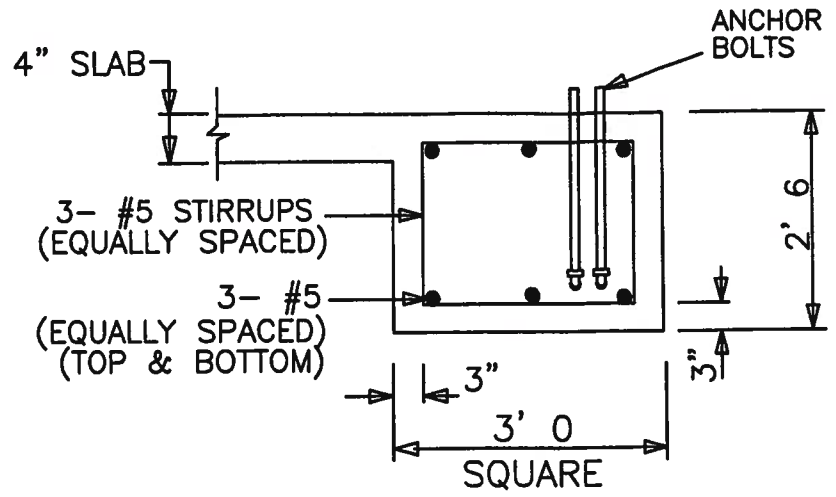
GREGORY S. BARFIELD, PE
2149 NELL PURVIS ROAD
ADEL, GEORGIA 31620
P.E. # 54419

FOR:
RUSSELL NORTH CONSTRUCTION
LOCATION: LAKE CITY, FLORIDA

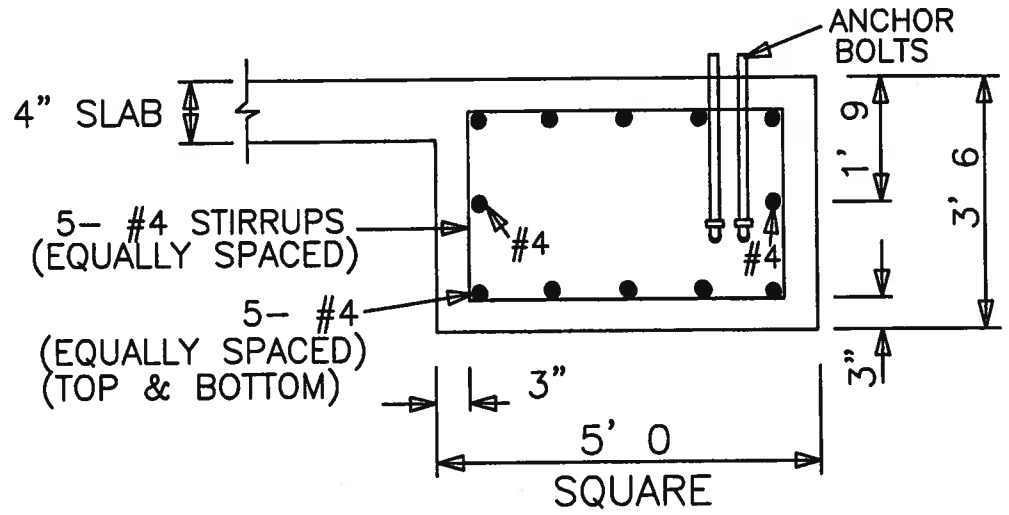
REVISIONS	
[1]	
DATE:	9/19/2007
JOB NUMBER:	288-07
DRAWN BY:	C.F.R.
SCALE:	NONE
NUMBER:	1 OF 3



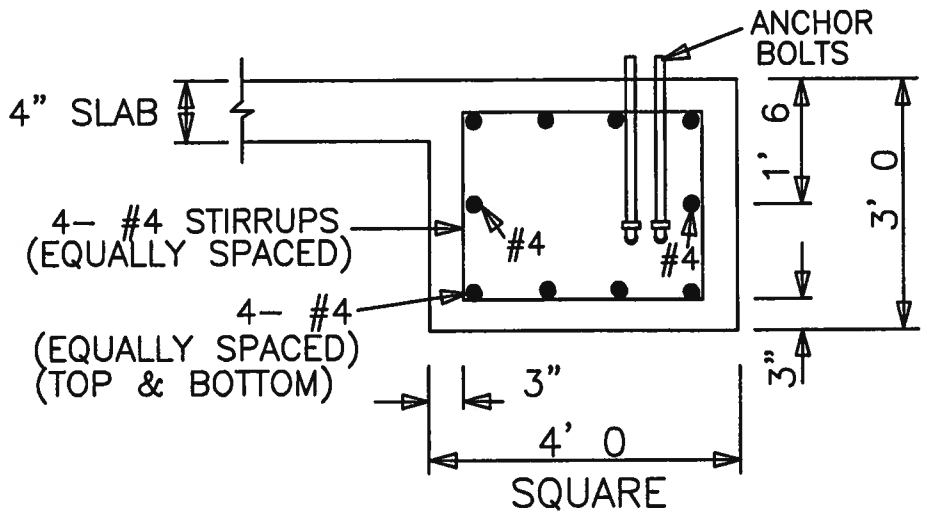
SECTION A–A
(SLAB TURN DOWN)



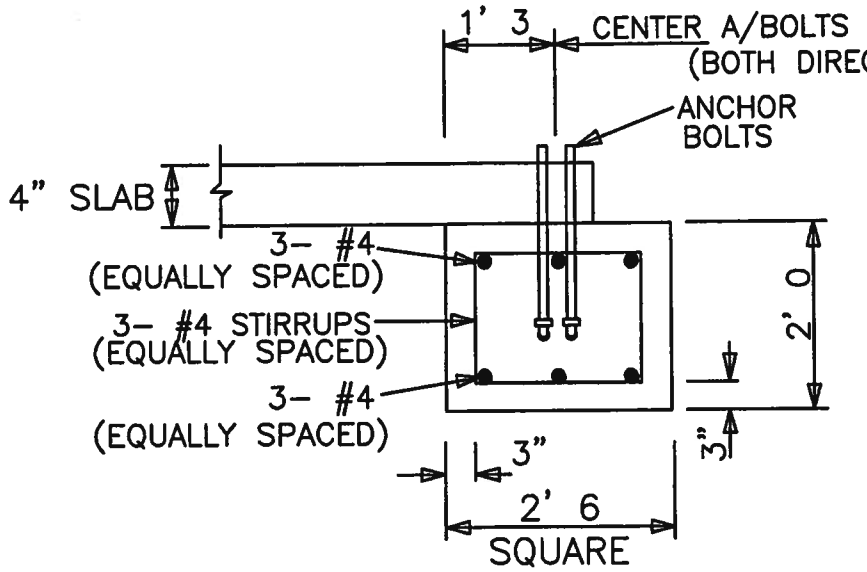
SECTION B–B
(FOOTING)



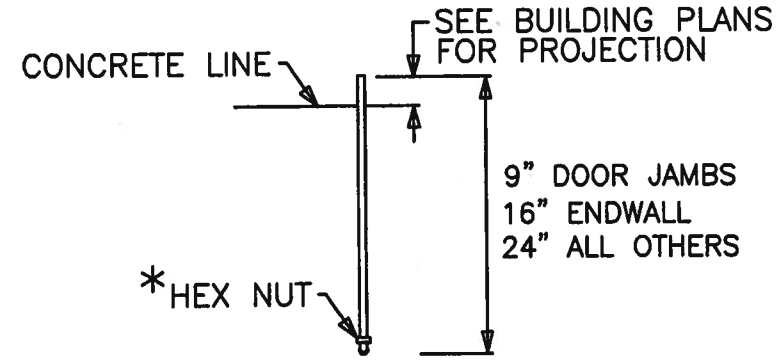
SECTION C–C
(FOOTING)



SECTION D–D
(FOOTING)



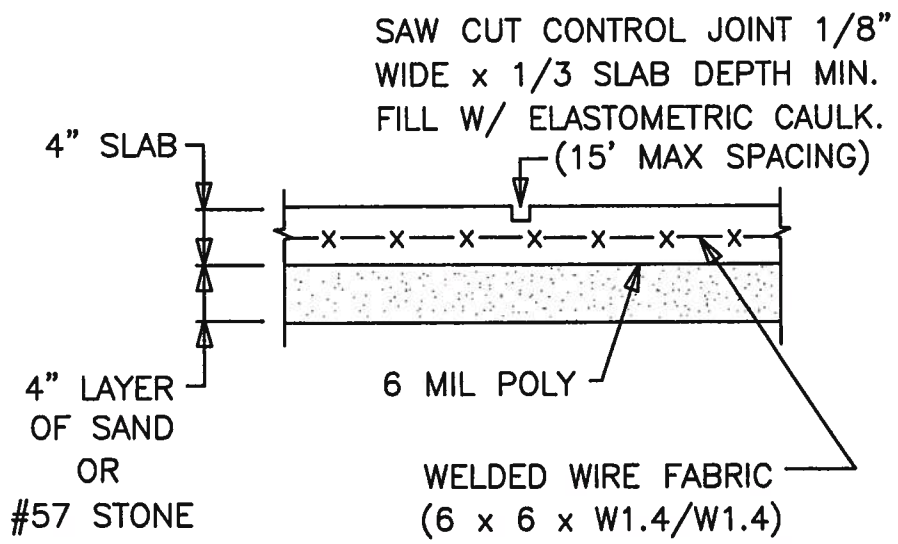
SECTION E–E
(FOOTING)



*TACK WELD NUT TO ANCHOR BOLT

ANCHOR BOLTS SHALL BE ASTM A307 GR36

ANCHOR BOLTS



SLAB DETAIL

9-21-07

FOUNDATION PLANS

GREGORY S. BARFIELD, PE
2149 NELL PURVIS ROAD
ADEL,GEORGIA 31620
P.E. # 54419

FOR :
RUSSELL NORTH CONSTRUCTION
LOCATION: LAKE CITY, FLORIDA

REVISIONS
[1]
DATE : 9/18/2007
JOB NUMBER: 288–07
DRAWN BY: C.F.R.
SCALE: NONE
NUMBER :

GENERAL NOTES:

1. All foundation work and materials shall be in accordance with the latest edition of the FBC (Florida Building Code) and ACI 318.

2. Prior to construction all vegetation, stumps, roots, foreign material, and surficial topsoil shall be removed from the area under the foundation and to a minimum distance of 5 feet beyond the limits of the proposed building. After this striping and clearing has been completed the exposed natural soils shall be compacted to 95% of Modified Proctor in accordance with ASTM D 1557. At a distance of 50 feet or more from an existing structure this compaction shall be achieved by use of a vibratory drum roller in which the drum weighs a minimum of 5 tons with a minimum drum diameter of 3 feet. At a distance of within 50 feet from an existing structure this compaction shall be achieved by use of a light weight vibratory drum or sled compactor having a maximum weight of 1000 pounds.

3. Groundwater levels shall be controlled to a minimum of 2 feet below the construction level. Groundwater elevations may fluctuate during construction therefore temporary dewatering may be necessary to control the groundwater levels.

4. All fill material shall be placed in lifts not to exceed 8 inches and shall be compacted to 95% of Modified Proctor in accordance with ASTM D 1557.

5. If 'pumping' of the near surface soils or fill material occurs during construction which results in strength loss of the subsequent soil, work shall be terminated in these areas and the disturbed soils removed. After removal of these soils, fill material which has a water content of not more than 10% shall be replaced and compacted. In lieu of removing the disturbed soils the excess moisture may be allowed to dissipate and the soil re-compacted.

6. When the fill material has been placed and properly compacted a 'smoothed' bucket backhoe may be used to excavate to the planned foundation levels. After this excavation all soils at the bearing level shall be compacted to 95% of Modified Proctor in accordance with ASTM D 1557 to a depth of at least 1 foot. If backfilling is required in the footing excavations the fill shall be placed in lifts not to exceed 6 inches.

7. All fill material shall consist of soil with no more than 10% of the particles passing a #200 sieve and shall be free of vegetation, organic material, construction debris, large rocks, and all foreign material.

8. All footings have been designed for the following assumed soil properties:

   Bearing Capacity = 2,500 psf
   Angle of Internal Friction (phi angle) = 28 degrees
   Coefficient of Friction = 0.45
   Soil Weight = 110 lbs per cubic ft.

   If it is determined after the soils survey that the actual soil properties are different than these assumed values, the contractor shall follow the recommendations of the geotechnical engineer.

9. The outlying perimeter areas of the proposed building shall be graded in such a way as to provide positive drainage away from the proposed building.

10. A vapor retarder shall be installed underneath the slab consisting of 6 mil minimum polyethylene with joints lapped not less than 6 inches and sealed.

11. All concrete shall have a minimum compressive strength of 3,000 psi at 28 days.

12. All concrete shall contain 2.5 % to 6% entrained air to enhance frost resistance.

13. The maximum water-cement ration of the concrete shall be 0.45.

14. The slump limits of all concrete shall be 2 - 4 inches.

15. All concrete shall be mixed until there is a uniform distribution of materials in accordance with ACI 318.

16. All reinforcing bars that do not require welding shall conform to ASTM-615, Grade 60. All reinforcing bars that are to be welded shall conform to ASTM A706, Grade 60. Welded wire fabric shall conform to ASTM A-185.

17. The #4 rebar in the slab turn down shall be continuous for the entire perimeter of the foundation and shall be lap spliced a minimum of 2 feet at terminal points in order to maintain continuity.

18. The slab reinforcing including the welded wire fabric and hairpins shall not be cut during or anytime after construction since this reinforcement provides structural stability for the building.

19. Since the passive resistence of the soil is an integral part of the ability of the foundation to resist the horizontal forces that will be present when the design loads are applied to the building system, it is expressly forbidden for any future excavation to take place within 50 feet of the building without the consent of the Engineer of Record.

20. Control joints shall be installed in the foundation at intervals not to exceed 15 feet.

21. Maintain 3 inches minimum clearance for all rebar and anchor bolts, unless otherwise noted.

22. The finished grade elevation of the floor slab shall be determined by the owner.

Gregory S. Barfield
9-21-07

FOUNDATION PLANS

GREGORY S. BARFIELD, PE
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ADEL,GEORGIA 31620
P.E. # 54419

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DATE : 9/18/2007
JOB NUMBER: 288-07
DRAWN BY: C.F.R.
SCALE: NONE
NUMBER : 3 OF 3

FOR :
RUSSELL NORTH CONSTRUCTION
LOCATION: LAKE CITY, FLORIDA