

November 4, 2005

Ken Godfrey
KAG
1588 Ridge Top Way
Clearwater, Florida 33765



Clemons, Rutherford
& Associates, Inc.

RE: CRA Project #05049.11

Dear Mr. Godfrey:

Pursuant to the requirements of the Florida Department of Community Affairs, the above-referenced documents have been reviewed for compliance with the 2004 Florida Building Code, State Requirements for Educational Facilities, 2004 FMC, 2004 FPC, 2002 NEC and the 2004 Florida Fire Prevention Code.

The following report cites deficiencies found in the documents relative to the above-referenced codes. All MANDATORY COMMENTS must be satisfied and incorporated into your documents in order to receive approval. Please **REVISE AND RESUBMIT**. Changes to your original documents must be clouded and have a revision number for identification. Provide a written narrative of what was done to correct the mandatory comments.

These documents were reviewed for only what is to be constructed in the factory. Any site work or additional construction that is to be done on the site must be reviewed and permitted by the local Building Official.

Architectural Mandatories:

No Deviations Noted

Mechanical:

1. **Location:** Sheet 5
Deficiency: Mechanical Engineering documents applicable to HVAC systems shall include the following:
 - Equipment selection schedule for each piece of mechanical equipment. (Exhaust Fan)
- Reference:** Chapter 61G15-34.003 Responsibility Rules of Professional Engineers.

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2. **Location:** Sheet 4
Deficiency: Mechanical Engineering documents applicable to Plumbing Systems shall include the following:
• Equipment schedules for all plumbing fixtures.
Reference: Chapter 61.G15-34.007 Responsibility Rules of Professional Engineers.
3. **Location:** Sheet 5
Deficiency: Mechanical equipment, appliances and supports that are exposed to wind shall be designed and installed to resist the wind pressures determined in accordance with the Florida Building Code, Building.
Provide sufficient design detail of supports and anchoring to verify the AC unit is properly secured.
Reference: Florida Building Code, Mechanical 301.13.
4. **Location:** Sheet 4
Deficiency: Where water pressure within a building exceeds 80 psi, an approved water pressure-reducing valve conforming to ASSE 1003 with strainer shall be installed.
Reference: Florida Building Code, Plumbing 604.8.
5. **Location:** Sheet 4
Deficiency: Shutoff valves shall be installed in the following locations:
1) On the fixture supply to each plumbing fixture.
Reference: Florida Building Code, Plumbing 606.2.
6. **Location:** Sheet 5
Deficiency: Outside air intakes shall be located to avoid drawing in combustible material or flammable vapor and to minimize the hazard from fires in other structures.
Reference: NFPA 90 A, 2-2.1.1.

Electrical:

1. **Location:** Sheet 5
Deficiency: Electrical Engineering documents applicable to Power systems shall include the following:
• Conductor Ampacities (sizes) and insulation type.
Reference: Chapter 61.G15-33.003, Responsibility Rules of Professional Engineers.

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2. **Location:** Sheet 5
Deficiency: Electrical Engineering documents applicable to Communications systems shall include the following:
- System Riser Diagram.
 - Equipment legend.
 - Conductor type and installation requirements.
 - Device type and locations.
 - Backup power sources where applicable.
- Reference:** Chapter 61G15-33.005, Responsibility Rules of Professional Engineers.
3. **Location:** Sheet 5
Deficiency: Electrical Engineering documents applicable to Alarm systems shall include the following:
- System Riser Diagram.
 - Type of conductors and installation requirements including rating identification and listing requirements.
 - Notification requirements.
 - Backup power requirements.
- Reference:** Chapter 61G15-33.006, Responsibility Rules of Professional Engineers.
4. **Location:** Sheet 5
Deficiency: Provide surge protection on data, intercom and fire alarm circuits.
Reference: Chapter 61G15-30, Responsibility Rules Common to all Engineers.
5. **Location:** Sheet 5
Deficiency: Buildings within 60 feet of each other shall have a common fire alarm system.
Reference: Florida Building Code 423.7.4.
6. **Location:** Sheet 5
Deficiency: All facilities in high lightning risk areas shall be evaluated using the Risk Assessment Guide in NFPA 780 and other standards which address lightning protection and shall be protected accordingly.
Reference: Florida Building Code 423.17.7.
7. **Location:** Sheet 5
Deficiency: Relocatables shall contain wiring and computer technology suitable for the program to be housed.
Reference: Florida Building Code 423.27.