

PROJECT: THE HAGEDORN AVIATION COMPLEX

OWNER: EMBRY RIDDLE AERONAUTICAL UNIVERSITY
600 S. Clyde Morris Blvd.
Daytona Beach, Florida 32114

ARCHITECT: HAWKINS, HALL, & OGLE ARCHITECTS, INC.
208 Magnolia Avenue
Daytona Beach, Florida 32114
386-255-6163 Fax: 386-257-5650

ADDENDUM NUMBER 2 DATED 08 January 2010

This addendum is part of the Contract Documents and modifies the Project Plans and Specifications as follows:

A2.1 GENERAL CLARIFICATION

As a part of the Phase 1A work being completed by others, the building pads have been prepared to an elevation of approx. 6" below finish floor at each of the buildings.

A2.2 SPECIFICATIONS: SECTION 00410 – BID FORM

Section is being re-issued.

A2.3 SPECIFICATIONS: SECTION 00700 – AIA DOCUMENT A201

Page 29, revise the first sentence in paragraph 11.1.2 to read as follows:

The insurance required by Section 11.1.1 shall be written for not less than \$5,000,000 per occurrence for General Liability and \$1,000,000 per occurrence for Automobile Liability, or as required by law, whichever coverage is greater.

Page 29, paragraph 11.3.1, In the first sentence, strike the word "Owner" and replace with "General Contractor".

Page 30, paragraph 11.3.1.3, strike the word "Owner" and replace with "General Contractor".

A2.4 SPECIFICATIONS: SECTION 01015 – SCHEDULE OF DRAWINGS

Page 5 is being reissued with miscellaneous revisions.

A2.5 SPECIFICATIONS: SECTION 02361 – SOIL TREATMENT FOR TERMITE CONTROL

Page 2, Part 2 Products, 2.01.A Manufacturers, add Cyper TC Insecticide

A2.6 SPECIFICATIONS: SECTION 04816 – MASONRY VENEER

Page 2, Part 2 Products, 2.01.A Manufacturers, add Cherokee Brick & Tile as an acceptable manufacturer.

A2.7 SPECIFICATIONS: SECTION 05300 – ENGINEERED ROOF DECK ASSEMBLY

Page 1, Part 1 General, 1.05.B Acceptable Roof Deck Assemblies, add the following manufacturer's: Bemo USA, Morin

- A2.8 SPECIFICATIONS: SECTION 07411 – PREFORMED ROOF, FASCIA, SOFFIT AND TRIM
Page 3, Part 2 Products, 2.01.B Acceptable Roofing and Fascia Manufacturers, add the following manufacturer: Morin
- A2.9 SPECIFICATIONS: SECTION 08211 – FLUSH WOOD DOORS
Page 3, Part 2 Products, 2.02.B, sentence 4 should read “Wood veneer facing with factory finish, color as selected by architect.” Page 4, 2.07.A should read as follows:
A. Factory finish doors in accordance with specified quality standard:
1. Factory standard finish: color to be selected by architect.
2. Not used
- A2.10 SPECIFICATIONS: SECTION 09900 – PAINTING
Page 5, Part 2 Products, 2.04 Interior Paint Systems (IPS), omit item F. IPS 6: Transparent Finish: Wood Doors, Doors are to be factory finished per section 08211.
- A2.11 SPECIFICATIONS: SECTION 10440 – PLASTIC SIGNS
Section is being re-issued.
- A2.12 DRAWINGS: SHEETS C14, C15, & C16
On the landscape plans, where the designation “SOD” appears, it shall be St. Augustine sod, all areas that receive Bahia Sod are indicated as such.
- A2.13 DRAWINGS: SHEET A1.1
The double sliding chainlink gate indicated at the south end of the site near the existing plane wash shall be a 60’ wide opening. For the purposes of this bid, the quantity of chainlink fencing shall be as indicated on the site plan, with the new fence terminating at the east side of the existing plane wash.
- A2.14 DRAWINGS: SHEET A1.4
The architectural aluminum security fencing shall terminate at the northwestern corner of the AMS Lab Building, with the walk gate that is indicated being a 4’ wide aluminum gate with a hasp and padlock.
- A2.15 DRAWINGS: SHEETS A2.7 and A2.8
The thickness of the lightweight concrete at the perimeter of the roof shall be as drawn on details 3 & 4 on sheet A2.12.1. The thickness is approx. 12”+/-
- A2.16 DRAWINGS: SHEETS A2.19 and A2.20
The thickness of the lightweight concrete at the perimeter of the roof where the paver system is being installed shall be 6” as indicated on detail 1/A2.12.2, in lieu of the 8” thickness indicated on the roof plans.
- A2.17 MISCELLANEOUS STRUCTURAL CLARIFICATIONS
Regarding trusses A & B at the Flight Maintenance Hangar:

1. Question: What is the required drag load?

The MC8x18.7 has been designed as the drag strut to transfer the diaphragm loads to the adjacent Tilt-up panels. Steel Truss "B" does not need to be designed to carry this load.

2. Question: Are the deflection limitations less than L/360 due to the hanger door and panel installation?

The steel trusses shall be cambered to offset the dead load deflection and shall be limited to a live load deflection of L/360. The differential live load deflection between truss A and B shall be not more than 1".

Regarding Tilt Panels:

1. Question: Can the #4 wall ties be drilled in and epoxied using the Hilti RE-500? If this is acceptable what would be the required embedment?

No, hooked dowels shall be provided as detailed.

A2.18 DRAWINGS: SHEET S2.1.3

The rolled MC10 x 22 shown at the far right side of the plan shall have a radius to the outside face of 323'-2 1/2".

A2.19 DRAWINGS: SHEET S2.1.6

Detail 7/S7.0.2 cut along gridline 2 on sheet S2.1.6 is labeled incorrectly. This section cut should reference Detail 2/S7.0.2.

A2.20 DRAWINGS: SHEET S2.2.5

The C6 x 8.2 shown on sheet S2.2.5 is a rolled horizontal channel welded to the bottoms of the perpendicular steel beams. The rolled channel is shown on 2/S6.2.8 where it supports the top of the vertical steel channel wall framing.

A2.21 DRAWINGS: SHEETS S61.4 and S7.1.7

Stainless steel plate assemblies called for in aluminum sunshade details shall be Grade 316 stainless steel.

A2.22 DRAWINGS: SHEET S6.2.4

Beam shown on Details 2 & 3/S6.2.4 is a W10 x 22. Beam shall be provided between all radial columns to support light gauge at transition in framing.

ELECTRICAL ITEMS

Fire Alarm System

1. The new Notifier Fire Alarm Panel will be tied into the existing ONYX Network System (via fiber)
2. Provide all programming required for the existing Graphics to display each building
3. Software of the existing system is by WSA Systems, Inc.
4. Fire alarm system to be non-voice
5. Add four horn-strobes, first floor Flight Ops Center, in corridors outside briefing/debriefing rooms (locations to be shown on conformed drawings)

Clarifications

1. Either EMT raceway or type MC cable may be used for this project, except where specifically stated otherwise
2. Type X2 fixtures are similar to type X1, but two-sided. Fixture will be added to Fixture Schedule on conformed drawings.
3. On sheet E11, the ceiling fixtures in rooms 207C and 207D are type B.
4. On sheet E16, flight supervisor room, the four recessed fixtures are to be type M, and the linear fixture is type AA16.
5. On sheet E40, type R and R1 fixtures will be changed to type CC and CC1, which will be added to the Fixture Schedule. The two type CC night lights will require battery ballasts. See fixture clarifications below.
6. Sheet E3, instructor station detail, the 1" spare conduit is to go to the section noted as "J". The C2 section is to receive the two CAT 6 wires. Model number to be provided by Hubbell sales rep.
7. Sheet E18, APS devices are supplied with disconnects. Contractor to observe NEC guidelines on overcurrent protection where multiple APS devices are on a single 3-phase circuit.
8. Sheet E24, workbench outlet circuits require GFCI breakers in panels, other laboratory workbench outlets do not. (GFCI outlets required near wet locations).
9. Plugmold specified on sheet E25 to be Wiremold model G3000.
10. Air Compressor locations to be shown on conformed drawings, Room 114, 2-25HP compressors.. In the interim, refer to mechanical drawings.
11. Spec section 16165, 2.01 and 16180, 1.03 list Square D and GE as acceptable manufacturers. Siemens and Eaton/Cutler Hammer are also acceptable.
12. Owner specifications are included within the project specifications
13. Sheet E38 – feeds to panels 4D11 and 4D12 to be 250 amps circuits (3-250KCM; #4/0 N; #3 G in 2&1/2" conduit); feed to transformer X1 to be 400 amp circuit (3-500KCM; #3 G; in 3" conduit);
14. Assume #10 wire size for three-phase power to hangar door motors; however, confirm motor nameplate amperage before circuiting.
15. B/A fan in hangar is relocated existing fan.
16. Fixture clarifications:
 - o AA- Finelite S15-8-2T8-SC-277-FA-04-.88-DIM
 - o BB- BEGA 3039P LAMP TO BE 1-18 WATT CFQ
 - o CC/CC1- DAYBRITE HBO-8-26/32/42-C-U-AR25/25DL-(EB) WHERE SPEC'D.
 - o OE- BK DSMR-17-BLW-13-A-360SL
 - o TYPE OC TO BE SAME AS OC1 OTHER THAN MOUNTING HEIGHT.
17. Generator to be Natural Gas type, per plans. GC to coordinate piping and metering. Delete specification reference to diesel and fueling.
18. Underfloor duct to include 2 types, standard for power, Super for low voltage, without inserts. All fittings to be afterset insert type. Provide all supports, couplings, fittings, and boxes for a complete installation.
19. Classroom lighting to be inboard/outboard but NOT dimmed. Revise switching requirements accordingly. Verify voltage of light and associated dimmer over instructors' stations.

END OF ADDENDUM NO. 2

0802

THE HAGEDORN AVIATION COMPLEX

Addendum 2 – Page 4

BID FORM

EMBRY RIDDLE AERONAUTICAL UNIVERSITY

To: Embry Riddle Aeronautical University
600 S. Clyde Morris Blvd.
Daytona Beach, Florida 32114

The Undersigned, having become familiarized with the local conditions affecting the cost of the work and with the Drawings and Specifications as prepared by Hawkins, Hall & Ogle Architects, Inc. hereby submits the following proposal:

PROJECT: The Hagedorn Aviation Complex

I (We) propose to furnish all labor, materials, equipment and services necessary for the completion of the above project, all in accordance with the Drawings and Specifications hereof, including any addenda issued, as indicated below.

BASE BID:

As shown on the drawings and specifications, the sum of _____ Dollars, (\$_____).

ALTERNATE NO. 1: *(Indicate the amount by which to adjust the Base Bid to provide a cellular lightweight insulating concrete system for all lightweight concrete roof areas, in lieu of the specified vermiculite based system specified in 03520).*

If the owner elects to proceed with Alternate No. 1, as described in the Contract Documents, add deduct the sum of _____ Dollars, (\$_____).

ALTERNATE NO. 2: *(Indicate the amount by which to adjust the Base Bid to utilize resilient flooring as specified in 09650 in lieu of the epoxy terrazzo as specified in 09440 where indicated on the contract documents).*

If the owner elects to proceed with Alternate No. 2, as described in the Contract Documents, add deduct the sum of _____ Dollars, (\$_____).

ALTERNATE NO. 3: *(Indicate the amount by which to adjust the Base Bid to utilize paper faced mold/mildew resistant gypsum wallboard at the interior face of all exterior walls in lieu of the glass mat faced product as specified in 09260).*

If the owner elects to proceed with Alternate No. 3, as described in the Contract Documents, add deduct the sum of _____ Dollars, (\$_____).

Bid security in an amount equal to 5% of the total bid proposal is enclosed with the understanding that this proposal shall remain in full effect for a period of 60 days starting at the bid opening date and time.

The undersigned agrees to commence work under this Contract on or before a date to be specified by written Notice to Proceed, and to substantially complete the project within the following time frames (all days shown are from written Notice to Proceed):

Hangar Building – 200 consecutive calendar days

Flight Operations Building / AMS Laboratory Building – 450 consecutive calendar days

Phase 2 Sitework – 540 consecutive calendar days

Further, the undersigned agrees to allow 30 consecutive calendar days after completion of the Flight Operations Building and AMS Laboratory Building for ERAU to vacate the existing buildings before demolition commences. These days are to be included in the overall project duration of 540 consecutive calendar days.

Bidder acknowledges receipt of the following addenda:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

In submitting this proposal, it is understood that the Owner reserves the right to accept or reject any or all proposals and is not obligated to accept the lowest responsive bid.

OFFICIAL ADDRESS:

_____	By: _____

_____	_____
_____	(Name, Title)

S6.2.1	2 nd FLOOR FRAM. DETAILS AND SECTIONS – AMS LAB BUILDING
S6.2.2	2 nd FLOOR FRAM. DETAILS AND SECTIONS – AMS LAB BUILDING
S6.2.3	2 nd FLOOR FRAM. DETAILS AND SECTIONS – AMS LAB BUILDING
S6.2.4	2 nd FLOOR FRAM. DETAILS AND SECTIONS – AMS LAB BUILDING
S6.2.5	2 nd FLOOR FRAM. DETAILS AND SECTIONS – AMS LAB BUILDING
S6.2.6	3RD FLOOR FRAM. DETAILS AND SECTIONS – AMS LAB BUILDING
S6.2.7	3RD FLOOR FRAM. DETAILS AND SECTIONS – AMS LAB BUILDING
S6.2.8	3RD FLOOR FRAM. DETAILS AND SECTIONS – AMS LAB BUILDING
S6.2.9	3RD FLOOR FRAM. DETAILS AND SECTIONS – AMS LAB BUILDING
S6.2.10	PRECAST STAIR PLANS – AMS LABORATORY BUILDING
S6.2.11	PRECAST STAIR DETAILS – AMS LABORATORY BUILDING
S7.0.1	ROOF FRAMING DETAILS AND SECTIONS - COMMON
S7.0.2	ROOF FRAMING DETAILS AND SECTIONS - COMMON
S7.1.1	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT OPS CENTER
S7.1.2	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT OPS CENTER
S7.1.3	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT OPS CENTER
S7.1.4	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT OPS CENTER
S7.1.5	PENTHOUSE ROOF FRAMING DETAILS AND SECTIONS – FLIGHT OPS CENTER
S7.1.6	PENTHOUSE ROOF FRAMING DETAILS AND SECTIONS – FLIGHT OPS CENTER
S7.1.7	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT CONTROL TOWER
S7.1.8	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT CONTROL TOWER
S7.1.9	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT CONTROL TOWER
S7.2.1	ROOF FRAMING DETAILS AND SECTIONS – AMS LAB BUILDING
S7.2.2	ROOF FRAMING DETAILS AND SECTIONS – AMS LAB BUILDING
S7.2.3	ROOF FRAMING DETAILS AND SECTIONS – AMS LAB BUILDING
S7.3.1	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT MAINT. HANGAR
S7.3.2	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT MAINT. HANGAR
S7.3.3	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT MAINT. HANGAR
S7.3.4	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT MAINT. HANGAR
S7.3.5	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT MAINT. HANGAR
S7.3.6	ROOF FRAMING DETAILS AND SECTIONS – FLIGHT MAINT. HANGAR
S7.3.7	TRUSS DIAGRAMS – FLIGHT MAINTENANCE HANGAR
S8.3.1	TILT-UP PANEL ELEVATIONS – FLIGHT MAINTENANCE HANGAR
S8.3.2	TILT-UP PANEL ELEVATIONS – FLIGHT MAINTENANCE HANGAR
S8.3.3	TILT-UP PANEL ELEVATIONS – FLIGHT MAINTENANCE HANGAR
S8.3.4	TILT-UP PANEL ELEVATIONS – FLIGHT MAINTENANCE HANGAR
S8.3.5	TILT-UP PANEL DETAILS – FLIGHT MAINTENANCE HANGAR
S9.3.1	TILT-UP PANEL REINFORCEMENT – FLIGHT MAINTENANCE HANGAR
S9.3.2	TILT-UP PANEL REINFORCEMENT – FLIGHT MAINTENANCE HANGAR
S9.3.3	TILT-UP PANEL REINFORCEMENT – FLIGHT MAINTENANCE HANGAR
S9.3.4	TILT-UP PANEL REINFORCEMENT – FLIGHT MAINTENANCE HANGAR
S9.3.5	TILT-UP PANEL REINFORCEMENT – FLIGHT MAINTENANCE HANGAR

FIRE PROTECTION

FP1.0	FIRE PROTECTION SITE PLAN
FP2.0	FIRE PROTECTION PLAN – FLIGHT OPERATIONS CENTER
FP2.1	FIRE PROTECTION PLAN – AMS LABORATORY BUILDING
FP2.2	FIRE PROTECTION PLAN – FLIGHT MAINTENANCE HANGAR

PLUMBING

P2.0	1ST FL. PLUMBING PLAN – FLIGHT OPERATIONS CENTER
P2.1	1ST FL. PLUMBING PLAN – FLIGHT OPERATIONS CENTER
P2.2	2ND FL. PLUMBING PLAN – FLIGHT OPERATIONS CENTER

SECTION 10440 - PLASTIC SIGNS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to the work of this section.

1.02 DESCRIPTION OF WORK:

- A. Forms of specialty signs required include the following:
 - 1. Panel Signs (Plastic Room Identification Signs). Signs to be installed under this contract are those required by building code for certificate of occupancy only. All other signage will be furnished and installed by the owner.
 - 2. Metal letters and numbers.

1.03 QUALITY ASSURANCE:

- A. Uniformity of Manufacturer: For each sign form and graphic image process indicated furnish products of a single manufacturer.

1.04 SUBMITTALS:

- A. Shop Drawings: Submit shop drawings for fabrication and erection of specialty signs. Include plans, elevations, and large scale details of sign wording and lettering layout. Show anchorages and accessory items. Furnish location template drawings for items supported or anchored to permanent construction.
- B. Furnish full-size spacing templates for individual building-mounted letters and numbers.
- C. Product Data: Submit manufacturer's technical data and installation instructions for each type of sign required.
- D. Samples: Submit samples of each sign form and material showing finishes, colors, surface textures and qualities of manufacturer and design of each sign component including graphics.

PART 2 - PRODUCTS

2.01 MANUFACTURERS:

- A. Acceptable Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated into the Work include, but are not necessarily limited to, the following:
 - 1. Manufacturers of Metal Letters and Numbers:
 - a. Andco Industries Corp.
 - b. Mills Manufacturing Co.
 - c. Nelson-Harkins Industries
 - d. Multi-graphics / Metal Arts
 - 2. Manufacturers of Panel Signs (Plastic Room Identification Signs):
 - a. Andco Industries Corp.
 - b. Best Manufacturing Co.
 - c. U.S. Identity Group, LLC
 - d. Multi-graphics
 - e. Inner-Graphic Systems

2.02 METAL LETTERS AND NUMBERS:

- A. Aluminum Castings: Provide aluminum castings of alloy and temper recommended by the aluminum producer or finisher for the casting process used and for the use and finish indicated.
- B. Fasteners: Unless otherwise indicated, use concealed fasteners fabricated from metals that are non-corrosive to either the sign materials or the mounting surface.
- C. Anchors and Inserts: Use non-ferrous metal or hot-dipped galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.
- D. Fabrication: Provide metal letters and numbers to comply with the requirements indicated for the manufacturing process, materials, finish, style, size and message content.
- E. Cast Letters and Numbers: Form letters and numbers by casting. Produce characters with smooth, flat faces, sharp corners, precisely-formed lines and profiles, free from pits, scale, sand holes or other defects. Cast lugs into the backs of the characters and tap to receive threaded mounting studs.
 - 1. Metal: Aluminum.
 - 2. Colors and Surface Textures: For exposed sign material that requires selection of materials with integral or applied colors, surface textures or other characteristics related to appearance, provide color matches indicated, or if not indicated, as selected by the Architect from the manufacturer's standard.
 - 3. Metal Finishes: Comply with NAAMM "Metal Finishes Manual" for finish designations and applications recommendations.
 - 4. Aluminum Finishes:
 - a. Baked Enamel Finish: Provide finish AA-M4xC12C42R1x (manufacturer's standard non-directional mechanical finish including sanding and filing, cleaning with inhibited chemicals, conversion coated with an acid-chromate-fluoride-phosphate treatment and painted with organic coating specified below).
 - 1) Organic Coating: Provide manufacturer's standard thermosetting enamel system consisting of prime coat and finish coat. Provide five year guarantee against peeling, cracking, crazing or blistering.
 - (a) Color: Custom color to be selected by the Architect.
 - (b) See drawings for quantity and locations of cast aluminum letters. Each building will also have a two digit number at a location to be determined by the owner.

2.03 PANEL SIGNS (PLASTIC ROOM IDENTIFICATION SIGNS):

- A. Plastic Room Identification Signs shall be 8" x 8" or as otherwise indicated, with minimum 3/4" high letters and numbers (see details of specific sign types at end of this section)., with 1/32" thick raised letters, and Braille tag each (Grade 2). Sign thickness shall be 3/16". Mounting shall be SAM (Silastic Adhesive Mount). Colors to be selected. Where signs are scheduled to be mounted on glass panels, provide adhesive film on inside of glass surface of same size of sign, to cover mounting. Color same as sign.

- B. Handicapped Access Signage shall be square corner, level edge, full center format featuring International Symbol for handicapped access.
- C. Directional Signage (provided and installed by owner)
 - 1. Provide directional signage at corridor intersections, lobbies, balconies, etc. indicating direction of travel to designated rooms for emergency responders. Coordinate with architect for exact wording and locations.

PART 3 - EXECUTION

3.01 INSTALLATION:

- A. General: Locate sign units and accessories where shown or scheduled, using mounting methods of the type described and in compliance with the manufacturer's instructions.
- B. Install sign units level, plumb and at the height indicated, with sign surfaces free from distortion or other defects in appearance.
- C. Metal Letters and Numbers: Mount letters and numbers using standard fastening methods recommended by the manufacturer for the letter form, type of mounting, wall construction and condition of exposure indicated. Provide heavy paper template to establish letter spacing and to locate holes for fasteners.
- D. Projected Mounting: Mount letters at 1/2" from the wall surface indicated.
- E. Panel Signs (Plastic Room Identification Signs):
 - 1. Attach plastic panel signs to wall, door and door frame surfaces using Mohawk SAM mounting system or equal. Use double-sided vinyl tape to hold sign in place until adhesive has been fully cured.

3.02 CLEANING AND PROTECTION:

- A. At completion of the installation, clean soiled sign surfaces in accordance with the manufacturer's instructions. Protect units from damage until acceptance by the Owner.

3.03 NOTES:

- A. Install the following sign on outside face of all Mechanical and Electrical Room doors, using 3/4" high letters (all caps):
- B. STORAGE NOT PERMITTED

END OF SECTION