



Heard Construction, Inc.

95 E. Hall Road (32953)
P.O. Box 540218
Merritt Island, FL 32954
Phone: (321) 452-5494 Fax: (321) 452-6946

May 26, 2017

School Board of Brevard County
2700 Judge Fran Jamieson Way
Viera, FL 32940-6699

HCI Project 1704601003

PO#

SBBC DB Eau Gallie Aircraft Maintenance
Classroom Concept 3

Attn: Dane Theodore

Subject: Pre-Construction Design/Build Services Proposal for Eau Gallie HS Aviation Lab

At your request we are providing our proposal for subject services which will develop the architectural & engineering drawings required to develop a project scope of work and GMP for your Eau Gallie High School Aviation Lab Addition. The design and construction of a new 7500 sf, single story, free standing, pre-engineered metal building in the area currently used for parking. This concept will include a new aviation classroom, office and restrooms within the new enclosed space. The finishes will include a continuous standing seam metal roof with Kynar color finish and steel insulated wall panels. All work will be subject to terms and conditions as stipulated in the Continuing Contract for Design Build Services between Heard Construction Inc. and the School Board of Brevard County.

HCI/TSARK Architecture proposes to provide Pre-construction Design/Build Services in the amount of \$79,252.64. We have enclosed our Project Estimate of Pre-Construction Design/Build costs and TSARK's Proposal dated 5/3/17.

This work will begin on receipt of your "Notice to Proceed" and will be completed per the following schedule:

BPS Board Approval of Pre-construction D/B Services 6/13/17
Receipt of Notice To Proceed (NTP) 6/14/17
30% Construction Drawings 7/7/28/17
60% Construction Drawings 7/21/17
90% Construction Drawings 8/11/17
Final Construction Documents 8/18/17
Bidding Phase 8/10/17 thru 8/31/17
Final GMP submitted for BPS Board Approval 9/8/17
BPS Board Approval 10/10/17
Receipt of Notice To Proceed (NTP) with Construction 10/11/17
Permitting 10/11/17 thru 11/10/17
Start of Construction 11/13/17
Substantial Completion 7/31/18

EXCLUSIONS AND CLARIFICATIONS

1. A&E construction administration fees are excluded and will be included in the GMP.

We thank you for this opportunity and look forward to working with you on the project.

Sincerely,

Sam Heard
Heard Construction, Inc.



Project No 1704601010

SBBC DB Eau Gallie Aircraft Maintenance Classroom

Estimate Type: Budget

Estimate Status: Submitted

Item Description	Qty	Unit	Unit Price	Extended Amount
<u>CSI Division 0 - General Conditions</u>				
Principal	20	hrs	93.42	1,868.40
Pre-construction Project Manager	60	hrs	91.91	5,514.60
Estimator	80	hrs	41.85	3,348.00
Administrator Assistant	8	hrs	43.55	348.40
Architectural Design Services	1	ls	53,010.00	53,010.00
Utility Locates	1	allowance	1,600.00	1,600.00
Surveyor	1	allowance	2,500.00	2,500.00
Reproduction and printing	1	allowance	1,000.00	1,000.00
Geotech Allowance	1	allowance	2,500.00	2,500.00
CSI Division 0 - General Conditions Total				71,689.40
Subtotal				71,689.40

Notes

Estimated Cost Subtotal	71,689.40
General Liability @ 0.30%	215.07
Professional Liability @ 0.20%	<u>143.38</u>
Subtotal	72,047.85
Overhead @ 0.00%	<u>0.00</u>
Subtotal	72,047.85
Fee @ 10.00%	<u>7,204.79</u>
Subtotal	79,252.64
Contingency	0.00
Pre-construction/Design	<u>0.00</u>
Subtotal	79,252.64
Bond @ 0.00%	<u>0.00</u>
Total	79,252.64



TSARK
ARCHITECTURE

May 3, 2017

Mr. Harry Earl
Heard Construction, Inc.
P.O. Box 540218
Merritt Island, FL 32954

Re: CTE Lab/Aircraft Maintenance Building

Dear Harry,

Thank you for considering TSARK ARCHITECTURE for the design of a new Career Technical Education Classroom and Laboratory for an Aircraft Maintenance Program at Eau Gallie High School. We understand the program consists of approximately 7,500 sq. ft. of enclosed new space in a single story pre-engineered metal building. Our proposed scope includes full architecture and engineering services from programming through construction administration.

The consultants comprising the Design Team will be as follows:

- Architecture: Tsark Architecture, LLC
- Civil Engineering: Construction Engineering Group
- Structural Engineering: Construction Engineering Group
- MEP and Fire Protection: Construction Engineering Group

We understand this will be a Design-Build project delivery and that your firm will be the General Contractor.

Scope of Services:

TSARK ARCHITECTURE will conduct the following services, consulting with the Owner and General Contractor, researching applicable design criteria, attending Project meetings, communicating with members of the Project team and reporting progress to the Owner and Construction Manager.

Schematic Design Phase Services

- Review laws, codes, and regulations applicable to the project.
- Conduct a site investigation and collect as-built information.

- Further develop the preliminary design (attached) for approval, illustrating the scale and relationship of the project components.
- Consider the benefits of various building systems and equipment in developing a design that is consistent with the established program, schedule, and budget.

Design Development Phase Services

- Prepare Design Development documents for approval, consisting of drawings and other documents including plans, sections, elevations, typical construction details, and diagrammatic layouts of building systems to fix and describe the size and character of the project. These documents will identify major materials and systems and establish in general their quality levels.

Construction Document Phase Services

- Prepare Construction Documents based on the approval of the Design Development documents and any needed adjustments in project requirements. These documents will consist of drawings and specifications detailing the quality levels of materials and systems and other requirements for construction.
- Incorporate into the Construction Documents the design requirements and permitting comments of governing authorities.

Construction Phase Services

- Conduct inspections at appropriate intervals to review conformance of the work with the Contract Documents.
- Reject non-conforming work.
- Review and take appropriate action on contractor submittals.
- Determine the date of Substantial Completion and issue a Certificate of Substantial Completion.
- Following project occupancy, conduct a meeting with the Owner to review the facility operations and performance.

Compensation:

Schematic Design:	\$ 8,835.00
Design Development:	\$ 20,615.00
Construction Documents:	\$ 23,560.00
Construction Administration:	\$ 5,890.00
Total:	\$ 58,900.00

The following services are not included in the above scope:

- *Cost estimating*
- *LEED certification*
- *Surveying or Geotechnical investigation*

Billing for this project will occur upon the completion of each phase listed above.

Schedule:

This work will begin on receipt of your "Notice to Proceed" and will be completed per the following schedule time frames:

BPS Board Approval of Pre-construction D/B Services:	5/23/17
Receipt of Notice To Proceed (NTP):	5/24/17
30% Construction Drawings (Schematic Design):	6/7/17
60% Construction Drawings (Design Development):	6/21/17
90% Construction Drawings:	7/11/17
Final Construction Documents:	7/18/17
Bidding Phase:	3 weeks
Final GMP submitted for BPS Board Approval:	8/9/17
BPS Board Approval:	TBD
Receipt of Notice To Proceed (NTP):	TBD
P.O. Issued:	TBD
Start of Construction:	10 weeks to substantial completion
Substantial Completion:	TBD
Final Completion:	90 days from substantial

Thank you again, for your consideration, and I look forward to working with you.

Sincerely,



Gregory I. Tsark, AIA, LEED-AP

Please sign and date below for acceptance of this proposal and letter agreement. Please also review our attached Terms and Conditions sheet.

Mr. Harry Earl, Vice President
Heard Construction, Inc.

Date

Terms and Conditions of the Professional Services Agreement Between Tsark Architecture, LLC and the Owner/Client

ARTICLE 1 ARCHITECT'S RESPONSIBILITIES

The Architect's responsibilities are as described in the attached proposal.

ARTICLE 2 OWNER'S RESPONSIBILITIES

The Owner shall provide full information about the objectives, schedule, constraints and existing conditions of the project, and shall establish a budget with reasonable contingencies that meets the project requirements. The Owner shall furnish surveying, geotechnical engineering and environmental testing services upon request by the Architect. The Owner shall employ a contractor to perform the construction Work and to provide cost estimating services. The Owner shall furnish for the benefit of the project all legal, accounting and insurance counseling services.

ARTICLE 3 USE OF ARCHITECT'S DOCUMENTS

Documents prepared by the Architect are instruments of service for use solely with respect to this project. The Architect shall retain all common law, statutory and other reserved rights, including the copyright. The Owner shall not reuse or permit the reuse of the Architect's documents except by mutual agreement in writing.

ARTICLE 4 TERMINATION, SUSPENSION OR ABANDONMENT

In the event of termination, suspension or abandonment of the project, the Architect shall be equitably compensated for services performed. Failure of the Owner to make payments to the Architect in accordance with this Agreement shall be considered substantial nonperformance and is sufficient cause for the Architect to either suspend or terminate services. Either the Architect or the Owner may terminate the Agreement after giving no less than seven days' written notice in the other party substantially fails to perform in accordance with the terms of this Agreement.

ARTICLE 5 MISCELLANEOUS PROVISIONS

- 5.1 This Agreement shall be governed by the law of the location of the project.
- 5.2 Terms in this Agreement shall have the same meaning as those in AIA Document A205, General Conditions of the Contract for Construction of a Small Project, current as of the date of this Agreement.
- 5.3 The Owner and Architect, respectively, bind themselves, their partners, successors, assigns and legal representatives to this Agreement. Neither party to this Agreement shall assign the contract as a whole without written consent of the other.
- 5.4 The Architect and Architect's consultants shall have no responsibility for the identification, discovery, presence, handling, removal or disposal of, or exposure of persons to, hazardous materials in any form at the project site.

ARTICLE 6 PAYMENTS AND COMPENSATION TO THE ARCHITECT

The Owner shall compensate the Architect as follows.

- 6.1 The Architect's Compensation shall be as described in the attached proposal
- 6.2 The Architect shall be reimbursed for expenses incurred in the interest of the project, plus an administrative fee of Ten percent (10%).
- 6.3 If through no fault of the Architect the services covered by this Agreement have not been completed within Eighteen (18) months of the date hereof, compensation for the Architect's services beyond that time shall be appropriately adjusted.
- 6.4 Payments are due and payable upon receipt of the Architect's invoice. Amounts unpaid Thirty days after invoice date shall bear interest from the date payment is due at the rate of 1.5% monthly, at the sole election of the Architect.
- 6.5 Architectural Services not covered by this Agreement include, among others, revisions due to changes in the scope, quality or budget. The Architect shall be paid additional fees for these services based on the Architect's hourly rates when the services are performed.
- 6.6 This Agreement entered into as of the day and year signed in the attached proposal.

Tsark Architecture, LLC Additional Services Rates
Revised September 9, 2016

ADDITIONAL SERVICES

Architectural Services not covered by this Agreement include, among others, revisions due to changes in the scope, quality or budget. The Architect shall be paid additional fees for these services based on the Architect's hourly rates when the services are performed, including:

1. Construction site visits or attendance at design review meetings as requested by the Owner in excess of site visits per discipline as defined in the Agreement.
2. Value Engineering meetings and subsequent architecture and engineering or design revisions to incorporate extensive accepted value engineering items.
3. Significant revisions to the program after Schematic Design approval, and significant changes to the systems after Design Development approval.
4. Document reproduction beyond those required for coordination and submittals as outlined in the Agreement
5. Detailed cost estimating services.

HOURLY RATES

<i>POSITION</i>	<i>HOURLY RATE</i>
Principal	\$140.00
Architect	\$125.00
Project Manager	\$105.00
Designer	\$85.00
Admin/Word Processing	\$45.00

REIMBURSIBLE EXPENSES

Printing

- 24 x 36 or larger, bond: \$1.00/sheet
- Photo/Glossy printing: \$10.00/sq. ft., 3 ft. minimum
- Presentation board and mounting: \$20.00/board

/end



HEARD CONSTRUCTION, INC.

P.O. Box 540218 ♦ Merritt Island, Florida 32954-0218

(321) 452-5494 ♦ FAX: (321) 452-6946

www.heardconstruction.com

May 3, 2017

School Board of Brevard County
2700 Judge Fran Jamieson Way
Viera, FL 32940-6699

Attn: Dane Theodore

Subject: Concept Development, Estimated Costs and Recommendations for Eau Gallie HS Aviation Lab

We have completed the Concepts Development for a new Eau Gallie High School Aviation Lab Addition. In addition, we have developed preliminary pricing based on the four (4) Concept Designs provided by Tsark Architecture. A brief description and pricing summary for each Concept is as follows:

CONCEPT 1

Construction of a new 4,000 sf enclosed addition to a single story educational building (Building 46) in the open maintenance area to create a new aviation lab. Renovation and remodeling of the existing weight room in building 46 into a new aviation classroom. This Concept requires a 2 hour fire rated wall to separate the new lab area from the existing facility.

Preliminary pricing for Concept #1 is approximately \$720,000.00. A detailed Cost Summary is attached for your review.

CONCEPT 2

This Concept is identical to Concept #1 except a pre-engineered aluminum canopy is being substituted for a steel pre-engineered metal building canopy. This Concept also requires a 2 hour fire rated separation.

Preliminary pricing for Concept #2 is approximately \$741,000.00. A detailed Cost Summary is attached for your review.

CONCEPT 3

Construction of a new 7500 sf, single story, free standing, pre-engineered metal building in the area currently used for parking. This Concept includes the new aviation classroom, office and restroom within the new enclosed space. The finishes include a continuous standing seam metal roof with Kynar color finish and steel insulated wall panels.

Preliminary pricing for Concept #3 is approximately \$814,800.00. A detailed Cost Summary is attached for your review.

CONCEPT 4

Construction of a new 7500 sf, single story, free standing, open pavilion, pre-engineered metal building in the area currently used for parking. This Concept also requires the renovation of the existing weight room in Building 46 into a new aviation classroom. The finishes include a continuous standing seam metal roof with Kynar color finish with wall panels along the upper portion of the structure. This Concept is open and utilizes chain link fencing and gates to secure the perimeter of the structure.

Preliminary pricing for Concept #4 is approximately \$639,400.00

Please note the following:

1. The Concept that can be completed with minimal disruption to school operations is Concept #3. This Concept also has the shortest construction completion schedule, ten (10) weeks and can be completed with school in session.
2. All Concepts require a 12 to 14 week delivery time for the pre-engineered metal (aluminum or steel) building components.
3. Concepts 1 and 2 will require additional overtime/premium costs in the range of \$60,000.00 to \$70,000.00 to complete the work without interruption to school activities. The completion time schedule for these Concepts is double Concept #3 since much of the work will be performed during off hours and there will be additional General Conditions cost due to the extended time frame. Concept 4 will also require some additional overtime/premium costs though not as much as Concepts 1 and 2 since it is not as disruptive.
4. Concept 3 incorporates the entire Aviation Education program within one new facility with little or no disruption to other school programs.

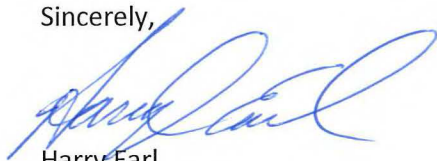
Conclusions

1. Concepts 1 and 2 will require 2 to 3 months longer to complete. These Concepts will also be more disruptive to campus operations. These Concepts will require fire rating of existing walls. These Concepts have narrow chain link entry gates in lieu of hangar doors (due to space limitations) requiring removal of the wings of the airplanes to move them in and out. These Concepts will repurpose existing space that is currently being utilized by the sports program. The Concepts are also more subject to existing conditions creating additional construction costs. When the additional costs associated with potential existing condition issues and performing work outside normal hours is taken into consideration, these Concepts could be as or more expensive than Concept 3. We consider these Concepts to be the least attractive.

2. Concept 3 will be completed with minimal disruption to campus activities and can be complete by January 2018 with a late May (Pre-Construction Design-Build Services) Notice to Proceed. This concept provides the best learning environment since the aviation lab and classroom (including teacher office and restrooms) are all under one roof. In addition, this Concept does expose the lab to the elements; instruction can take place during inclement weather since this Concept is completely enclosed with insulated wall panels. This Concept is the most desirable if funding is available.
3. Concept 4 will also repurpose existing space that is currently being utilized by the sports program. The biggest drawback to this Concept is it is exposed to blowing rain and wind, exposing tools and equipment to the elements. While it is secured with a chain link fence, theft is more likely due to ease of access and visibility of the tools and equipment. This Concept is the second best option if funds are not available for Concept #3. In addition, this Concept is the least expensive.

We thank you for this opportunity and look forward to working with you on the project.

Sincerely,



Harry Earl
Heard Construction, Inc.



Project No 1704601001

SBBC DB Eau Gallie Aircraft Maintenance Classroom Concept 1

Estimate Type: Budget

Estimate Status: Preliminary

Item Description	Qty	Unit	Unit Price	Extended Amount
<u>CSI Division 0 - General Conditions</u>				
Project Manager (PM)	174	hrs	63.19	10,995.06
PM Vehicle	1	months	800.00	800.00
PM Phone	1	months	70.00	70.00
Superintendent	400	hrs	53.19	21,276.00
Superintendent Vehicle	2.5	months	800.00	2,000.00
Superintendent Phone	2.5	months	70.00	175.00
Reproduction and printing	1	allowance	1,000.00	1,000.00
Dumpster	4	each	450.00	1,800.00
Daily and final cleanup	1	allowance	3,500.00	3,500.00
Protection of surrounding facilities	1	allowance	2,500.00	2,500.00
Temporary fencing	1	allowance	1,800.00	1,800.00
CSI Division 0 - General Conditions Total				45,916.06
<u>CSI Division 1 - General Requirements</u>				
Engineering & testing	1	allowance	2,500.00	2,500.00
Utility Locaates	1	allowance	1,600.00	1,600.00
CSI Division 1 - General Requirements Total				4,100.00
<u>CSI Division 2 - Existing Conditions</u>				
Demolition Subcontractor Remove existing chain link fencing	1	allowance	1,600.00	1,600.00
Demolition Subcontractor Remove existing CMU walls	1	allowance	6,500.00	6,500.00
Demolition Subcontractor Clearing & removal of asphalt paving	1	allowance	10,000.00	10,000.00
Demolition Subcontractor Remove wall beneath new roof area	1	allowance	1,800.00	1,800.00
CSI Division 2 - Existing Conditions Total				19,900.00
<u>CSI Division 3 - Concrete</u>				
Cast-in-Place Concrete Subcontractor 6" S.O.G. 3'x3' thickened edge	1	allowance	36,000.00	36,000.00

Item Description	Qty	Unit	Unit Price	Extended Amount
CSI Division 3 - Concrete Total				36,000.00
<u>CSI Division 4 - Masonry</u>				
Unit Masonry Subcontractor Knee wall @ aviation lab	200	lf	60.00	12,000.00
Unit Masonry Subcontractor 200 lf knee wall	1	allowance	12,000.00	12,000.00
CSI Division 4 - Masonry Total				24,000.00
<u>CSI Division 5 - Metals</u>				
Pre-engineered metal building 4000 sf	1	allowance	85,000.00	85,000.00
Metal building erection Erection between existing buildings	4000	sf	9.00	36,000.00
Metal framing and roofing New roof area shown on concept #1	840	sf	38.00	31,920.00
CSI Division 5 - Metals Total				152,920.00
<u>CSI Division 8 - Openings</u>				
Doors, Frames and Hardware Subcontractor New pair 3'0x7'0 doors to aviation lab	1	allowance	4,800.00	4,800.00
Doors, Frames and Hardware Subcontractor New 3'0"x7'0" doors at aviation lab	2	each	1,600.00	3,200.00
Doors, Frames and Hardware Subcontractor				
CSI Division 8 - Openings Total				8,000.00
<u>CSI Division 9 - Finishes</u>				
Plaster and Gypsum Board Subcontractor 2 hr rated walls allowance	136	lf	175.00	23,800.00
Flooring Subcontractor New VCT flooring	2380	sf	3.00	7,140.00
Flooring Subcontractor	250	lf	2.75	687.50
Ceilings Subcontractor	2380	sf	2.50	5,950.00
Floor Coatings Sealed concrete aviation lab floor	4000	sf	0.60	2,400.00
Painting and Coatings Subcontractor New paint Classroom , Office & rated walls	4000	sf	1.50	6,000.00
CSI Division 9 - Finishes Total				45,977.50
<u>CSI Division 11 - Equipment</u>				
Equipment High volume ceiling fan for Aviation Lab (included in electrical)	1	0	0.00	0.00
CSI Division 11 - Equipment Total				0.00

Item Description	Qty	Unit	Unit Price	Extended Amount
<u>CSI Division 22 - Plumbing</u>				
Plumbing Subcontractor	1	allowance	2,500.00	2,500.00
New eye wash and emergency shower				
Plumbing Subcontractor	1	allowance	2,000.00	2,000.00
New utility sink				
Plumbing Subcontractor	1	allowance	5,000.00	5,000.00
Parts washing with contaminated waste				
CSI Division 22 - Plumbing Total				9,500.00
<u>CSI Division 23 - HVAC</u>				
HVAC Subcontractor	1	allowance	2,500.00	2,500.00
Exhaust fan in welding area				
HVAC Subcontractor	1	allowance	5,500.00	5,500.00
HVAC Classroom and ductwork mods				
CSI Division 23 - HVAC Total				8,000.00
<u>CSI Division 26 - Electrical</u>				
Electrical Subcontractor	1	allowance	180,000.00	180,000.00
600A Service and All power, Fire Alarm, Lighting, Data, Intercom and B/A fan				
Electrical Subcontractor	1	0		0.00
4 Floor boxes @ Aviation Lab (included in above)				
Electrical Subcontractor	1	0		0.00
Power outlets for specialized equipment listing (included in above)				
CSI Division 26 - Electrical Total				180,000.00
<u>CSI Division 32 - Exterior Improvements</u>				
Fences and Gates	1	allowance	8,000.00	8,000.00
Swing gates at hangar entry				
CSI Division 32 - Exterior Improvements Total				8,000.00
<u>CSI Division 33 - Utilities</u>				
Utilities Subcontractor	1	allowance	15,000.00	15,000.00
Site drainage mods				
Utilities Subcontractor	1	allowance	10,000.00	10,000.00
Site utilities allowance				
CSI Division 33 - Utilities Total				25,000.00

Subtotal	567,313.56
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Notes

Estimated Cost Subtotal	567,313.56
General Liability @ 0.30%	1,701.94
Professional Liability @ 0.20%	<u>1,134.63</u>
Subtotal	570,150.13
Overhead @ 0.00%	<u>0.00</u>
Subtotal	570,150.13
Fee @ 10.00%	<u>57,015.01</u>

Item Description	Qty	Unit	Unit Price	Extended Amount
			Subtotal	627,165.14
			Contingency	50,000.00
			Pre-construction/Design	<u>43,000.00</u>
			Subtotal	720,165.14
			Bond @ 0.00%	<u>0.00</u>
			Total	720,165.14



Project No 1704601002

SBBC DB Eau Gallie Aircraft Maintenance Classroom Concept 2

Estimate Type: Budget

Estimate Status: Preliminary

Item Description	Qty	Unit	Unit Price	Extended Amount
<u>CSI Division 0 - General Conditions</u>				
Project Manager (PM)	174	hrs	63.19	10,995.06
PM Vehicle	1	months	800.00	800.00
PM Phone	1	months	70.00	70.00
Superintendent	400	hrs	53.19	21,276.00
Superintendent Vehicle	2.5	months	800.00	2,000.00
Superintendent Phone	2.5	months	70.00	175.00
Reproduction and Printing	1	allowance	1,000.00	1,000.00
Dumpster	4	each	450.00	1,800.00
Daily and final clean up	1	allowance	3,500.00	3,500.00
Protection of surrounding facilities	1	allowance	2,500.00	2,500.00
Temporary fencing	1	allowance	1,800.00	1,800.00
CSI Division 0 - General Conditions Total				45,916.06
<u>CSI Division 1 - General Requirements</u>				
Engineering & Testing	1	allowance	2,500.00	2,500.00
Utility Locates	1	allowance	1,600.00	1,600.00
CSI Division 1 - General Requirements Total				4,100.00
<u>CSI Division 2 - Existing Conditions</u>				
Demolition Subcontractor Remove existing chain link fencing	1	allowance	1,800.00	1,800.00
Demolition Subcontractor Remove existing CMU walls	1	allowance	6,500.00	6,500.00
Demolition Subcontractor Clearing and removal of existing asphalt paving	1	allowance	10,000.00	10,000.00
Demolition Subcontractor Remove wall Room 104	1	allowance	1,800.00	1,800.00
CSI Division 2 - Existing Conditions Total				20,100.00
<u>CSI Division 3 - Concrete</u>				
Cast-in-Place Concrete Subcontractor 6" S.O.G. 3'x3' thickened edge	1	allowance	36,000.00	36,000.00

Item Description	Qty	Unit	Unit Price	Extended Amount
CSI Division 3 - Concrete Total				36,000.00
<u>CSI Division 5 - Metals</u>				
Aluminum canopy and structure Subcontractor Erected	4784	sf	42.00	200,928.00
CSI Division 5 - Metals Total				200,928.00
<u>CSI Division 8 - Openings</u>				
Doors, Frames and Hardware Subcontractor New 3'0"x7'0" doors @ Aviation Lab	1	allowance	4,800.00	4,800.00
Doors, Frames and Hardware Subcontractor	3	each	1,600.00	4,800.00
CSI Division 8 - Openings Total				9,600.00
<u>CSI Division 9 - Finishes</u>				
Plaster and Gypsum Board Subcontractor 2 hr rated wall allowance	136	lf	175.00	23,800.00
Flooring Subcontractor New VCT Classroom & Office areas	2380	sf	3.00	7,140.00
Flooring Subcontractor New vinyl base - Classroom and Office areas	250	lf	2.75	687.50
Ceilings Subcontractor Classroom and Office area	2380	sf	2.50	5,950.00
Painting and Coatings Subcontractor New paint Classroom, Office and rated walls	4000	sf	1.50	6,000.00
Floor Coatings Sealed concrete Aviation Lab floor	4000	sf	0.60	2,400.00
CSI Division 9 - Finishes Total				45,977.50
<u>CSI Division 11 - Equipment</u>				
Equipment High volume ceiling fan for Aviation Lab	1	each	6,000.00	6,000.00
CSI Division 11 - Equipment Total				6,000.00
<u>CSI Division 22 - Plumbing</u>				
Plumbing Subcontractor New eye wash & emergency shower	1	allowance	2,500.00	2,500.00
Plumbing Subcontractor New utility sink	1	allowance	2,000.00	2,000.00
Plumbing Subcontractor Parts washing with contaminated wash	1	allowance	5,000.00	5,000.00
CSI Division 22 - Plumbing Total				9,500.00
<u>CSI Division 23 - HVAC</u>				
HVAC Subcontractor Exhaust fan in welding area	1	allowance	2,500.00	2,500.00

Item Description	Qty	Unit	Unit Price	Extended Amount
HVAC Subcontractor	1	allowance	5,500.00	5,500.00
HVAC Classroom ductwork mods				
		CSI Division 23 - HVAC Total		8,000.00
<u>CSI Division 26 - Electrical</u>				
Electrical Subcontractor	1	allowance	180,000.00	180,000.00
Includes 600A service, all power, Fire Alarm, lighting, Data, Intercom and B/A fan.				
		CSI Division 26 - Electrical Total		180,000.00
<u>CSI Division 32 - Exterior Improvements</u>				
Fences and Gates	1	allowance	8,000.00	8,000.00
New chain link swing gates to Aviation Lab				
Fences and Gates	1	allowance	2,500.00	2,500.00
Other fences and gates allowance				
		CSI Division 32 - Exterior Improvements Total		10,500.00
			Subtotal	576,621.56

Notes

Estimated Cost Subtotal	576,621.56
General Liability @ 0.30%	1,729.86
Professional Liability @ 0.20%	<u>1,153.24</u>
Subtotal	579,504.66
Overhead @ 0.00%	<u>0.00</u>
Subtotal	579,504.66
Fee @ 10.00%	<u>57,950.47</u>
Subtotal	637,455.13
Contingency	50,000.00
Pre-construction/Design	<u>45,500.00</u>
Subtotal	732,955.13
Bond @ 1.10%	<u>8,062.51</u>
Total	741,017.64



Project No 1704601003
SBBC DB Eau Gallie Aircraft Maintenance Classroom Concept 3

Estimate Type: Estimate Status: Preliminary

Item Description	Qty	Unit	Unit Price	Extended Amount
<u>CSI Division -</u>				
CSI Division - Total				
<u>CSI Division 0 - General Conditions</u>				
Project Manager (PM)	174	hrs	63.19	10,995.06
PM Vehicle	1	months	800.00	800.00
PM Phone	1	months	70.00	70.00
Superintendent	400	hrs	53.93	21,572.00
Superintendent Vehicle	2.5	months	800.00	2,000.00
Superintendent Phone	2.5	months	70.00	175.00
Reproduction and printing	1	allowance	1,000.00	1,000.00
Dumpster	4	each	450.00	1,800.00
Daily and final cleanup	1	allowance	3,500.00	3,500.00
Protection of surrounding facilities	1	allowance	2,500.00	2,500.00
Temporary fencing	1	allowance	1,800.00	1,800.00
CSI Division 0 - General Conditions Total				46,212.06
<u>CSI Division 1 - General Requirements</u>				
Engineering and testing	1	allowance	2,500.00	2,500.00
Utility locates	1	allowance	1,600.00	1,600.00
CSI Division 1 - General Requirements Total				4,100.00
<u>CSI Division 2 - Existing Conditions</u>				
Demolition Subcontractor	1	allowance	15,000.00	15,000.00
Clearing and removal of asphalt paving				
CSI Division 2 - Existing Conditions Total				15,000.00
<u>CSI Division 3 - Concrete</u>				
Cast-in-Place Concrete Subcontractor	1	allowance	62,500.00	62,500.00
6" S. O. G. with 3'x3' thickened edge				
CSI Division 3 - Concrete Total				62,500.00

Item Description	Qty	Unit	Unit Price	Extended Amount
<u>CSI Division 4 - Masonry</u>				
Unit Masonry Subcontractor 125' each side Stem wall per concept #3	1	allowance	15,000.00	15,000.00
CSI Division 4 - Masonry Total				15,000.00
<u>CSI Division 5 - Metals</u>				
Pre-engineered metal building Includes insulated wall panels and header and jambs for bi-fold door	7500	sf	16.50	123,750.00
Metal building erection	7500	sf	7.50	56,250.00
CSI Division 5 - Metals Total				180,000.00
<u>CSI Division 8 - Openings</u>				
Specialty Doors and Frames Subcontractor 40' Bi-fold lift hanger entry door	1	each	13,500.00	13,500.00
Doors, Frames and Hardware Subcontractor Exterior entry/exit single leaf doors with panic hardware	4	each	2,500.00	10,000.00
Doors, Frames and Hardware Subcontractor Interior classroom doors/frames/hardware installed	5	each	1,500.00	7,500.00
CSI Division 8 - Openings Total				31,000.00
<u>CSI Division 9 - Finishes</u>				
Plaster and Gypsum Board Subcontractor Partition walls for Classroom, office and toilet rooms	240	lf	100.00	24,000.00
Ceilings Subcontractor Acoustical ceiling for classroom, office and toilet rooms	1800	sf	2.50	4,500.00
Flooring Subcontractor VCT in Office and Classroom	1650	sf	3.00	4,950.00
Flooring Subcontractor VCT Base in Office and Classroom	205	lf	2.75	563.75
Flooring Subcontractor Ceramic tile for toilet room floors and wainscot	360	sf	10.00	3,600.00
Painting and Coatings Subcontractor Sealer for concrete floor in the Aviation Lab	5700	sf	0.60	3,420.00
Painting and Coatings Subcontractor Painting walls in Classroom, office and above wainscot in Toilet rooms	2750	sf	1.50	4,125.00
CSI Division 9 - Finishes Total				45,158.75
<u>CSI Division 10 - Specialties</u>				
Toilet, Bath, and Laundry Accessories	1	allowance	1,000.00	1,000.00
CSI Division 10 - Specialties Total				1,000.00
<u>CSI Division 11 - Equipment</u>				
High volume ceiling fan for aviation lab Included in Electrical	1	0	0.00	0.00

Item Description	Qty	Unit	Unit Price	Extended Amount
CSI Division 11 - Equipment Total				0.00
<u>CSI Division 22 - Plumbing</u>				
Plumbing Subcontractor	1	allowance	5,000.00	5,000.00
Parts washing with containerized waste				
Plumbing Subcontractor	1	each	2,500.00	2,500.00
Eye wash and emergency shower				
Plumbing Subcontractor	1	allowance	23,500.00	23,500.00
Utility sink, drinking fountains, floor drains and plumbing fixtures for toilet rooms & compressed air outlet.				
CSI Division 22 - Plumbing Total				31,000.00
<u>CSI Division 23 - HVAC</u>				
HVAC Subcontractor	1	allowance	26,000.00	26,000.00
6 ton DX A/C system to serve classroom, office and toilet rooms				
HVAC Subcontractor	1	allowance	3,500.00	3,500.00
Exhaust fans for toilet rooms and ventilation @ welding station				
CSI Division 23 - HVAC Total				29,500.00
<u>CSI Division 26 - Electrical</u>				
Electrical Subcontractor	1	allowance	130,000.00	130,000.00
600A service, 4 floor boxes, power outlets and lighting allowance				
CSI Division 26 - Electrical Total				130,000.00
<u>CSI Division 28 - Electronic Safety and Security</u>				
Fire Detection and Alarm Subcontractor	1	0	0.00	0.00
(included in electrical)				
CSI Division 28 - Electronic Safety and Security Total				0.00
<u>CSI Division 33 - Utilities</u>				
Stormwater Utilities	1	allowance	15,000.00	15,000.00
Site drainage mods and tie down spouts into site drainage system				
Utilities Subcontractor	1	allowance	25,000.00	25,000.00
Water & sewer to site of the work				
CSI Division 33 - Utilities Total				40,000.00
			Subtotal	630,470.81

Notes

Estimated Cost Subtotal	630,470.81
General Liability @ 0.30%	1,891.41
Professional Liability @ 0.20%	<u>1,260.94</u>
Subtotal	633,623.16
Overhead @ 0.00%	<u>0.00</u>
Subtotal	633,623.16
Fee @ 10.00%	<u>63,362.32</u>
Subtotal	696,985.48
Contingency	50,000.00
Pre-construction/Design	<u>58,900.00</u>

Item Description	Qty	Unit	Unit Price	Extended Amount
			Subtotal	805,885.48
			Bond @ 1.10%	<u>8,864.74</u>
			Total	814,750.22



Project No 1704601004

SBBC DB Eau Gallie Aircraft Maintenance Classroom Concept 4

Estimate Type: Estimate Status: Preliminary

Item Description	Qty	Unit	Unit Price	Extended Amount
<u>CSI Division 0 - General Conditions</u>				
Project Manager (PM)	174	hrs	63.19	10,995.06
PM Vehicle	1	months	800.00	800.00
PM Phone	1	months	70.00	70.00
Superintendent	2.5	months	53.19	132.98
Superintendent Vehicle	2.5	months	800.00	2,000.00
Superintendent Phone	2.5	months	70.00	175.00
Reproduction and Printing	1	allowance	1,000.00	1,000.00
Dumpster	4	each	450.00	1,800.00
Daily and final cleaning	1	allowance	3,500.00	3,500.00
Protection of surrounding facilities	1	allowance	2,500.00	2,500.00
Temporary fencing	1	allowance	1,800.00	1,800.00
CSI Division 0 - General Conditions Total				24,773.04
<u>CSI Division 1 - General Requirements</u>				
Engineering and Testing	1	allowance	2,500.00	2,500.00
Utility Locates	1	allowance	1,600.00	1,600.00
CSI Division 1 - General Requirements Total				4,100.00
<u>CSI Division 2 - Existing Conditions</u>				
Demolition Subcontractor	1	allowance	15,000.00	15,000.00
Clearing and removal of asphalt paving				
Demolition Subcontractor	2380	sf	0.55	1,309.00
Remove existing flooring				
Demolition Subcontractor	2380	sf	0.35	833.00
Remove existing ceiling				
CSI Division 2 - Existing Conditions Total				17,142.00
<u>CSI Division 3 - Concrete</u>				
Cast-in-Place Concrete Subcontractor	1	allowance	62,500.00	62,500.00
6" S.O.G. with 3'x3' thickened edge				
CSI Division 3 - Concrete Total				62,500.00

Item Description	Qty	Unit	Unit Price	Extended Amount
<u>CSI Division 5 - Metals</u>				
Pre-engineered metal building	7500	sf	11.00	82,500.00
Metal building erection	7500	sf	6.00	45,000.00
		CSI Division 5 - Metals Total		127,500.00
<u>CSI Division 9 - Finishes</u>				
Flooring Subcontractor New VCT flooring	2380	sf	3.00	7,140.00
Flooring Subcontractor New Vinyl base	250	lf	2.75	687.50
Ceilings Subcontractor	2380	sf	2.50	5,950.00
Plaster and Gypsum Board Subcontractor	1	allowance	9,800.00	9,800.00
Painting and Coatings Subcontractor New paint classroom and office walls	1	allowance	3,900.00	3,900.00
Floor Coatings Sealed concrete Aviation Lab floor	7500	sf	0.60	4,500.00
		CSI Division 9 - Finishes Total		31,977.50
<u>CSI Division 11 - Equipment</u>				
Equipment High volume ceiling fan for Aviation Lab	1	allowance	6,000.00	6,000.00
		CSI Division 11 - Equipment Total		6,000.00
<u>CSI Division 22 - Plumbing</u>				
Plumbing Subcontractor New eye wash and emergency shower	1	each	2,500.00	2,500.00
Plumbing Subcontractor New utility sink	1	each	2,000.00	2,000.00
Plumbing Subcontractor Parts washing with contaminated waste	1	each	5,000.00	5,000.00
		CSI Division 22 - Plumbing Total		9,500.00
<u>CSI Division 23 - HVAC</u>				
HVAC Subcontractor HVAC allowance for classroom and office duct mods	1	allowance	3,500.00	3,500.00
		CSI Division 23 - HVAC Total		3,500.00
<u>CSI Division 26 - Electrical</u>				
Electrical Subcontractor 600A service, 4 floor boxes, power outlets, lighting, Data and Intercom allowance	1	allowance	130,000.00	130,000.00
		CSI Division 26 - Electrical Total		130,000.00

Item Description	Qty	Unit	Unit Price	Extended Amount
<u>CSI Division 28 - Electronic Safety and Security</u>				
Fire Detection and Alarm Subcontractor In Electrical	1	0	0.00	0.00

CSI Division 28 - Electronic Safety and Security Total 0.00

CSI Division 32 - Exterior Improvements

Fences and Gates Large swing gates and 3 personal access gates	1	allowance	11,500.00	11,500.00
Fences and Gates 4' chain link perimeter fencing	310	lf	12.00	3,720.00

CSI Division 32 - Exterior Improvements Total 15,220.00

CSI Division 33 - Utilities

Stormwater Utilities Site drainage mods and tie down spouts into site drainage system	1	allowance	15,000.00	15,000.00
Utilities Subcontractor Water and sewer to site of the work	1	allowance	25,000.00	25,000.00

CSI Division 33 - Utilities Total 40,000.00

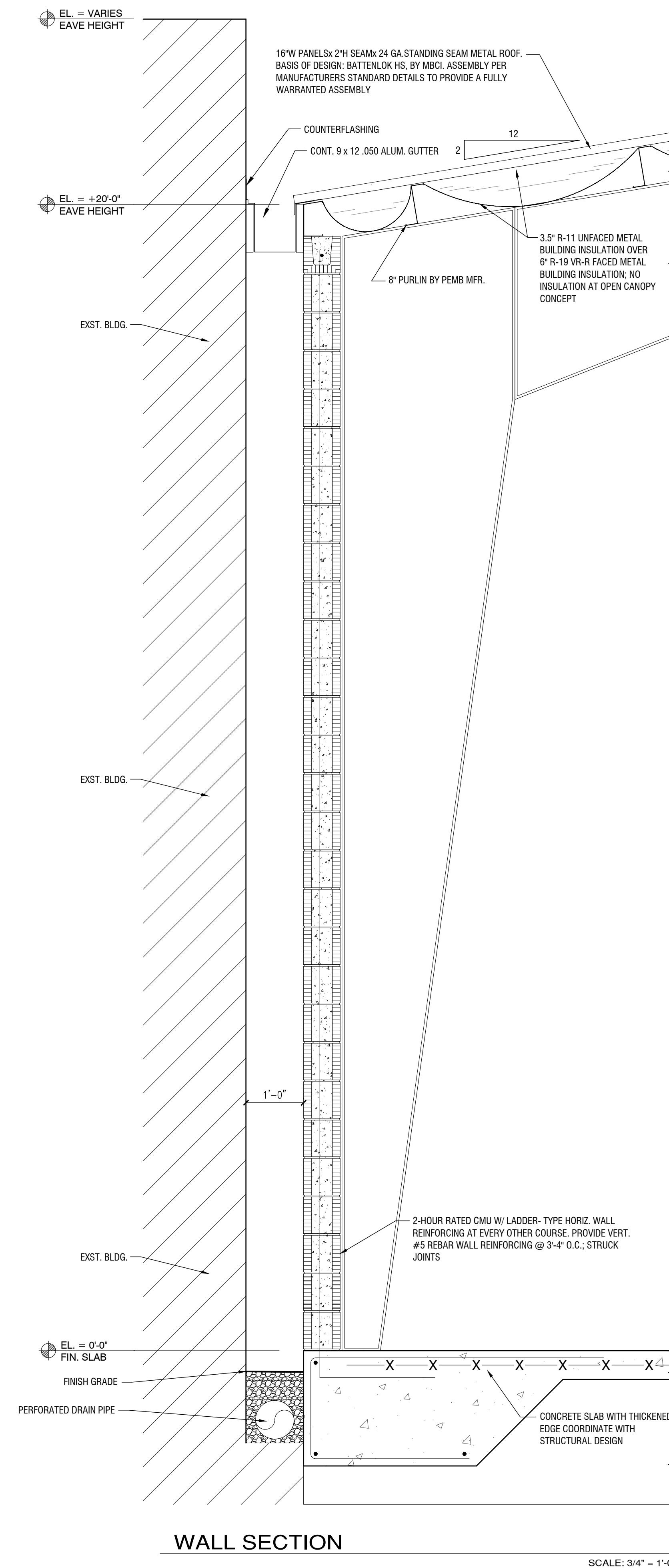
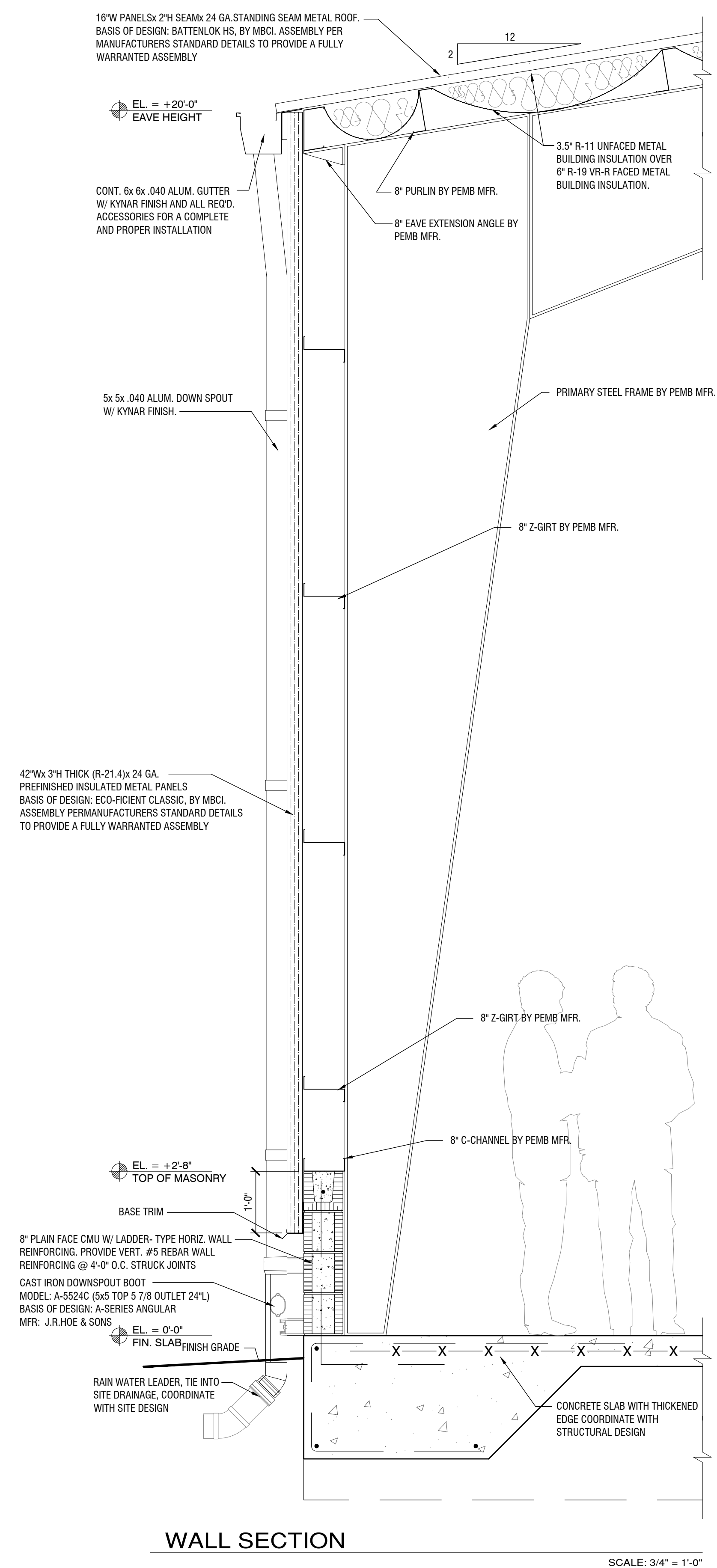
Subtotal 472,212.54

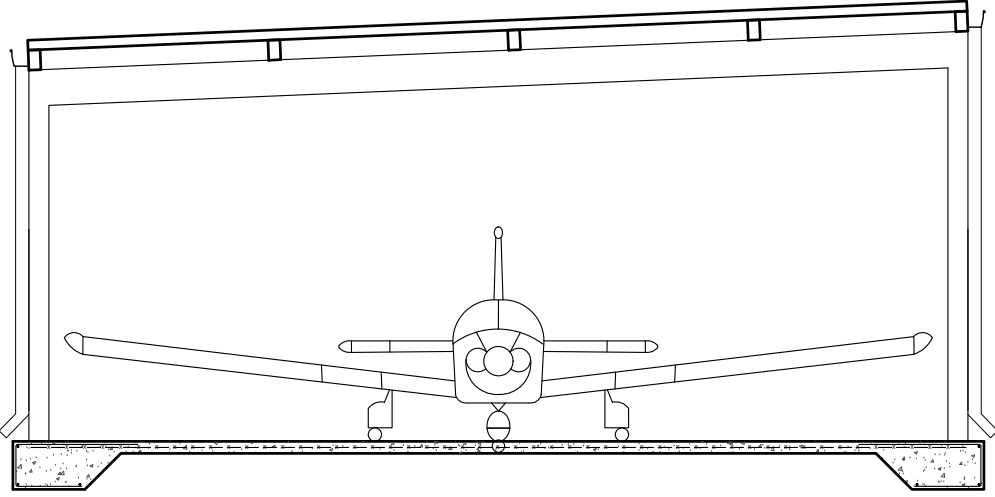
Notes

Estimated Cost Subtotal	472,212.54
General Liability @ 0.30%	1,416.64
Professional Liability @ 0.20%	<u>944.43</u>
Subtotal	474,573.61
Overhead @ 0.00%	<u>0.00</u>
Subtotal	474,573.61
Fee @ 10.00%	<u>47,457.36</u>
Subtotal	522,030.97
Contingency	50,000.00
Pre-construction/Design	<u>60,400.00</u>
Subtotal	632,430.97
Bond @ 1.10%	<u>6,956.74</u>
Total	639,387.71

TSARK
ARCHITECTURE

CONCEPT #1





FEATURES:

- SLAB ON GRADE WITH MONOLITHIC COLUMN FOOTINGS
PRE-ENGINEERED ALUMINUM CANOPLY AND STRUCTURE
ROOFING BY CANOPY VENDOR
ALUMINUM BUTTERS AND DOWNSPOUTS BY CANOPY VENDOR
CONCRETE BLOCK WALLS AT FIRE SEPARATION
- FINISHES:
- AVIATION LABORATORY:
- FLOORING - STRAUK CONCRETE, PAINT
 - WALLS - SEALED AND PAINTED CMU, WHERE APPLICABLE
 - CEILINGS - NONE/CANOPLY FINISH
 - DOORS - HOLLOW METAL, INSULATED CORE
- CLASSROOM, OFFICE:
- FLOORING - V.C.T., VINYL ASHE
 - WALLS - LEVEL 3 G.W.B. FINISH W/ LIGHT TEXTURE
 - CEILINGS - ACOUSTICAL CEILING TILE
 - DOORS - EXISTING TO REMAIN
- MECHANICAL:
- EXISTING A/C IN CLASSROOM TO REMAIN
 - SMALL EXHAUST VENTILATION AS REQUIRED IN WELDING AREA
- PUMBING:
- PARTS WASHING WITH CONTAINERIZED WASTE
 - EYE WASH AND EMERGENCY SHOWER, FLOOR DRAIN
 - UTILITY SINK
- ELECTRICAL:
- EXISTING BUILDING SERVICE TO BE CHECKED FOR SUFFICIENT POWER.
 - FLOOR BOXES (4) FOR POWER ONLY, IN AVIATION LABORATORY
 - POWER OUTLETS (4) FOR EACH SPECIALIZED PIECE OF EQUIPMENT AS LISTED IN KEYNOTES, BELOW

CONCEPT #2

PROJECT ADDRESS

1400 COMMODORE BLVD.
MELBOURNE, FL 32935

OWNER

SCHOOL BOARD OF BREVARD COUNTY
2700 JUDGE FRAN JAMIESON WAY
VIERA, FLORIDA 32940

ARCHITECT

GREGORY TSARK, AIA
TSARK ARCHITECTURE, LLC
3700 N. HARBOR CITY BLVD.
MELBOURNE, FL 32935

BUILDER

HEARD CONSTRUCTION INC
95 E HALL RD.
MERRITT ISLAND, FL 32953

CONCEPT INFORMATION

PROJECT SCOPE:

CONSTRUCTION OF A PRE-ENGINEERED ALUMINUM CANOPY ADDITION TO A SINGLE-STORY EDUCATIONAL BUILDING (BUILDING 46) IN AN OPEN MAINTENANCE AREA. NO NEW IMPERVIOUS AREA. RENOVATION AND REMODELING OF THE EXISTING RESEARCH ROOM IN BUILDING 46 INTO A NEW AVIATION LABORATORY. THIS CONCEPT REQUIRES A 2-HOUR FIRE SEPARATION.

CONSTRUCTION CLASSIFICATION:
TYPE 2-B, NON-SPRINKLERED

BUILDING AREA (IN SQ. FT.)

BUILDING AREA (NEW, FT.)	4000
BUILDING AREA (EXISTING)	26800
TOTAL PROPOSED BUILDING AREA:	30800
PROJECT AREA (EXISTING)	3213
ALLOWABLE BUILDING AREA (TABLE 503):	14500
ALLOWABLE WITH FRONTAGE INCREASE:	19865

NOTE: THE PROPOSED PROJECT EXCEEDS THE ALLOWABLE TABULAR AND CALCULATED BUILDING AREA LIMITATION. A 4-HOUR FIRE SEPARATION OR AN AUTOMATIC SPRINKLER SYSTEM WILL BE REQUIRED FOR FBC COMPLIANCE.

OCCUPANCY CLASSIFICATION:
SEPARATED OCCUPANCY (TABLE 508.4): 2-HOURS
GROUP F-1: MODERATE HAZARD FACTORY INDUSTRIAL
GROUP E: EDUCATIONAL

NOTE: IF AIRCRAFT PAINTING ACTIVITIES ARE ANTICIPATED, THE OCCUPANCY CLASSIFICATION WILL CHANGE FROM F-1 TO H-2, AND A NON-SEPARATED OCCUPANCY IS NOT ALLOWED, REQUIRING EITHER A 4-HOUR SEPARATION BETWEEN THE GROUP 'E' SPACE AND THE GROUP 'H' SPACE, OR A 3-HOUR SEPARATION AND AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING.

OCCUPANT LOAD (PERSONS)

INDUSTRIAL AREA:	80 (50 SF/PERSON, SHOP AREAS)
CLASSROOM AREA:	148 (20 SF/PERSON, CLASSROOMS)

CODE REQUIRED PLUMBING FACILITIES

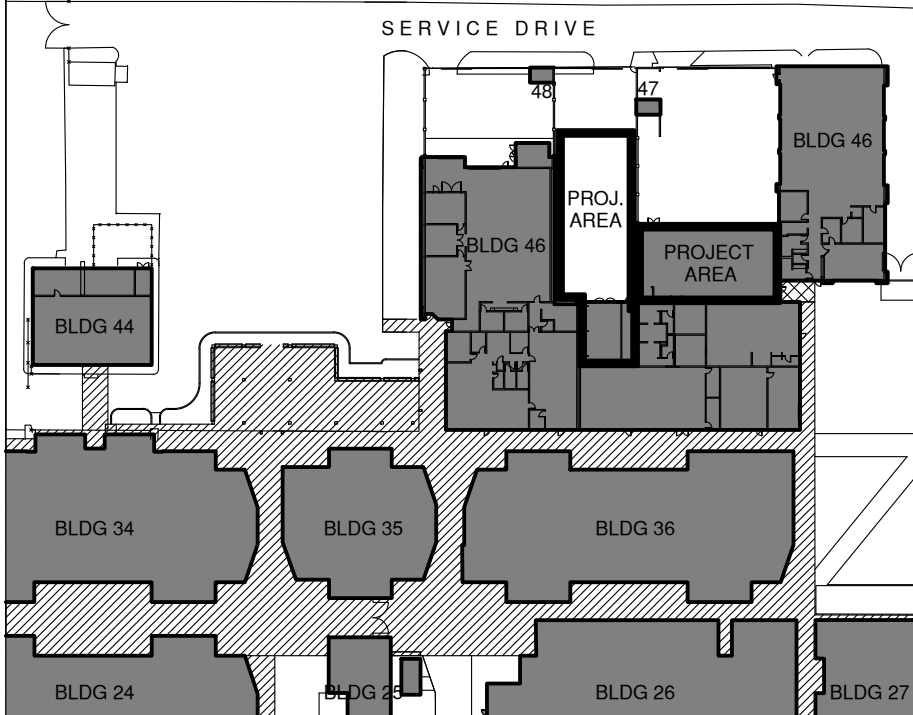
NOTE: AS THIS NEW EDUCATIONAL FACILITY WILL BE USED AS PART OF A CAMPUS THAT CURRENTLY MEETS FIXTURE COUNTS ON A BASIS OF STUDENT POPULATION, NO NEW RESTROOM FACILITIES WILL BE PROVIDED. THE PROJECT SCOPE WILL REQUIRE AN ACCESSIBLE PATH TO/FROM THE PROPOSED NEW OCCUPIED SPACE.

THIS PROJECT WILL BE DESIGNED IN ACCORDANCE WITH:
FLORIDA BUILDING CODE - 2014 EDITION
FLORIDA FIRE PREVENTION CODE - 5TH EDITION
NFPA 1 FIRE CODE - 2012 EDITION
NFPA 101 LIFE SAFETY CODE - 2012 EDITION

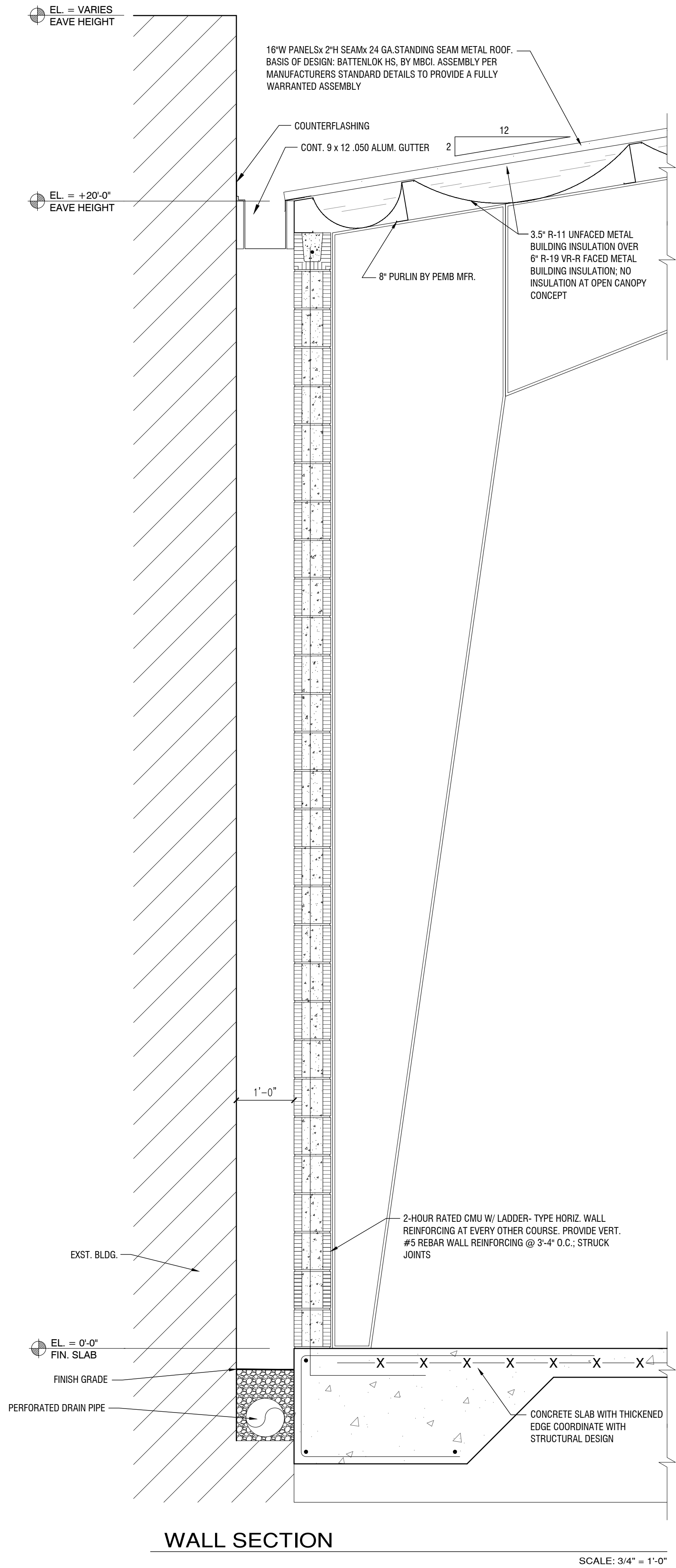
KEYNOTES

- 1 CHAINLINK SWING GATE
- 2 EYE WASH AND EMERGENCY SHOWER
- 3 UTILITY SINK
- 4 <NOT USED>
- 5 WORK TABLES
- 6 FLAMMABLE STORAGE
- 7 <PAINT BOOTH> (NOT RECOMMENDED FOR CODE REQ'S)
- 8 WELDING EQUIPMENT
- 9 SAND BLASTER CABINET
- 10 BRAKE (SHEET METAL)
- 11 BANDSAW
- 12 HORIZONTAL BANDSAW
- 13 DRILL PRESS
- 14 CORNER SHEER
- 15 SLIP ROLLER
- 16 FLIGHT SIMULATOR
- 17 AIR COMPRESSOR (EXISTING)
- 18 COMPUTER TABLE
- 19 MARKER BOARD
- 20 PARTS CLEANING TANK
- 21 TOOL STORAGE CABINET
- 22 PROJECT STORAGE
- 23 AIRCRAFT PARTS STORAGE
- 24 TOOL CRIB
- 25 AMATROL MODULE
- 26 MAIN ELECTRICAL SERVICE
- 27 COMPRESSED AIR OUTLET
- 28 HIGH VOLUME CEILING FAN

KEY PLAN

$$1'' = 100$$


Gregory F. Tsark, Architect
AR 93569



SHEET TITLE:	
DATE:	4/23/2017
DRAWN BY:	GIT
REVISION:	



Eau Gallie High School CTE Lab
Brevard Public Schools
1400 Commodore Blvd., Melbourne, Florida 32935
Project No.: 17083

DATE: 4/23/201
DRAWN BY: GIT
REVISION:

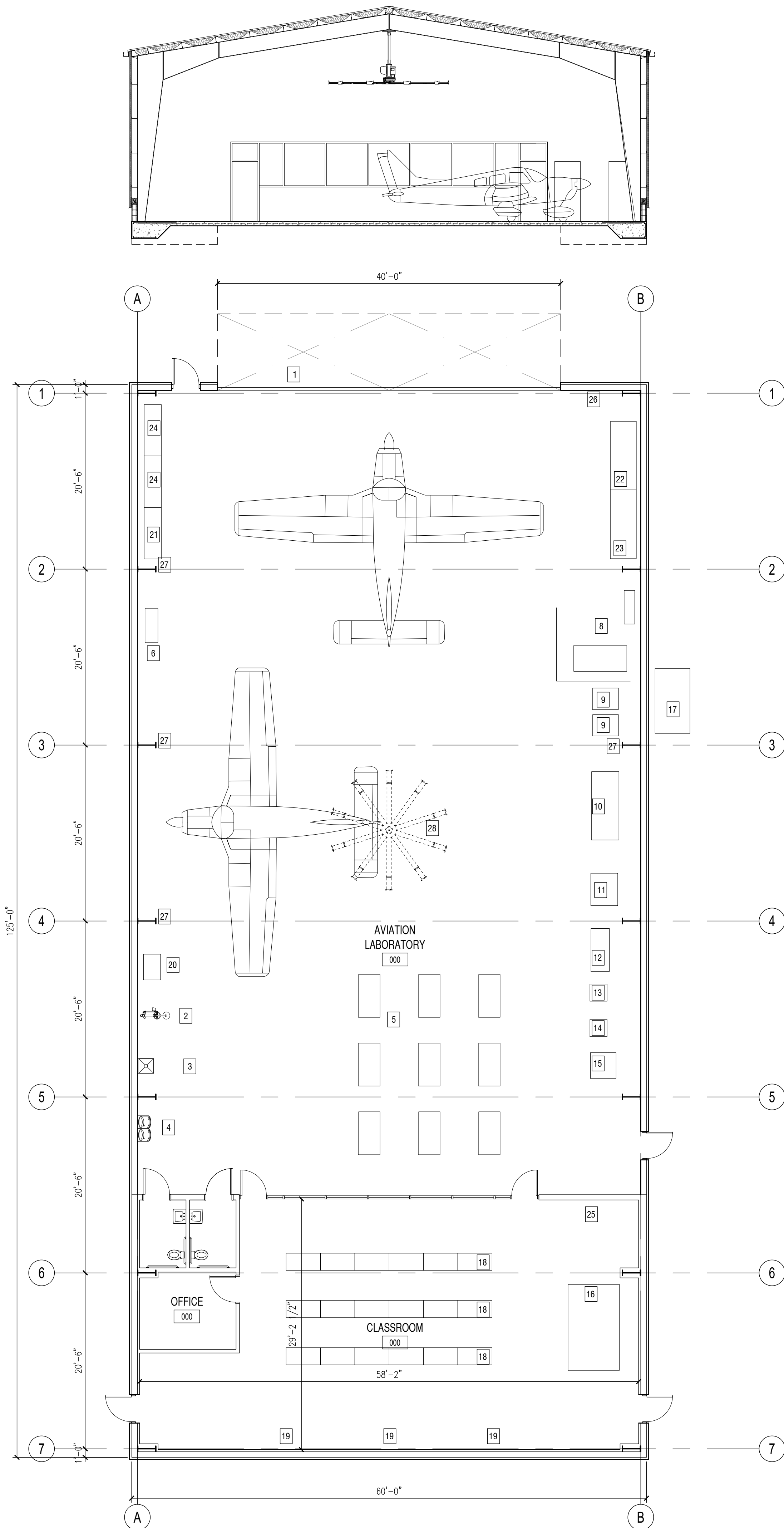
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REVIEW SET
NOT FOR
CONSTRUCTION
PURPOSES

Gregory T. Teagler, Architect
AT# 93669

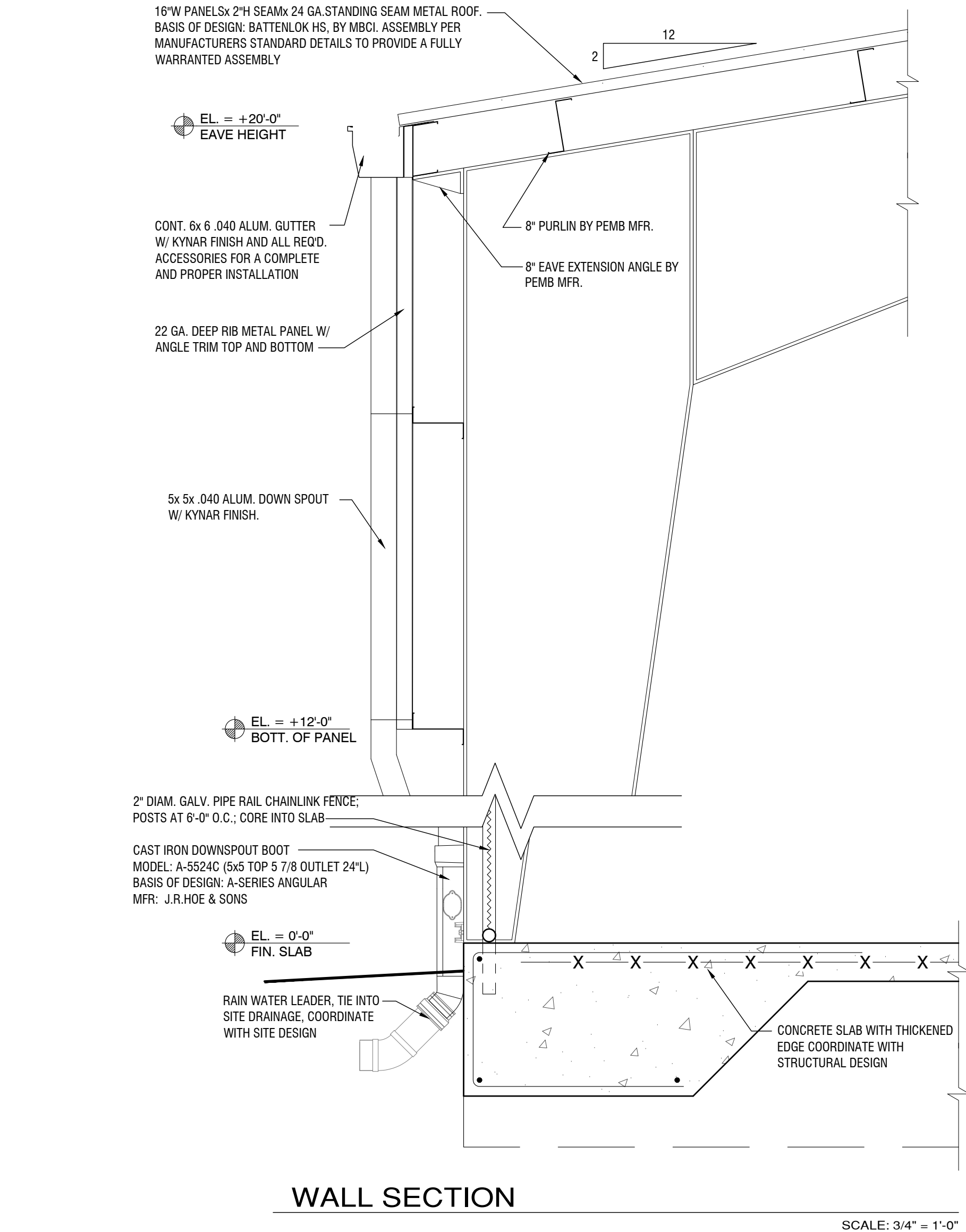
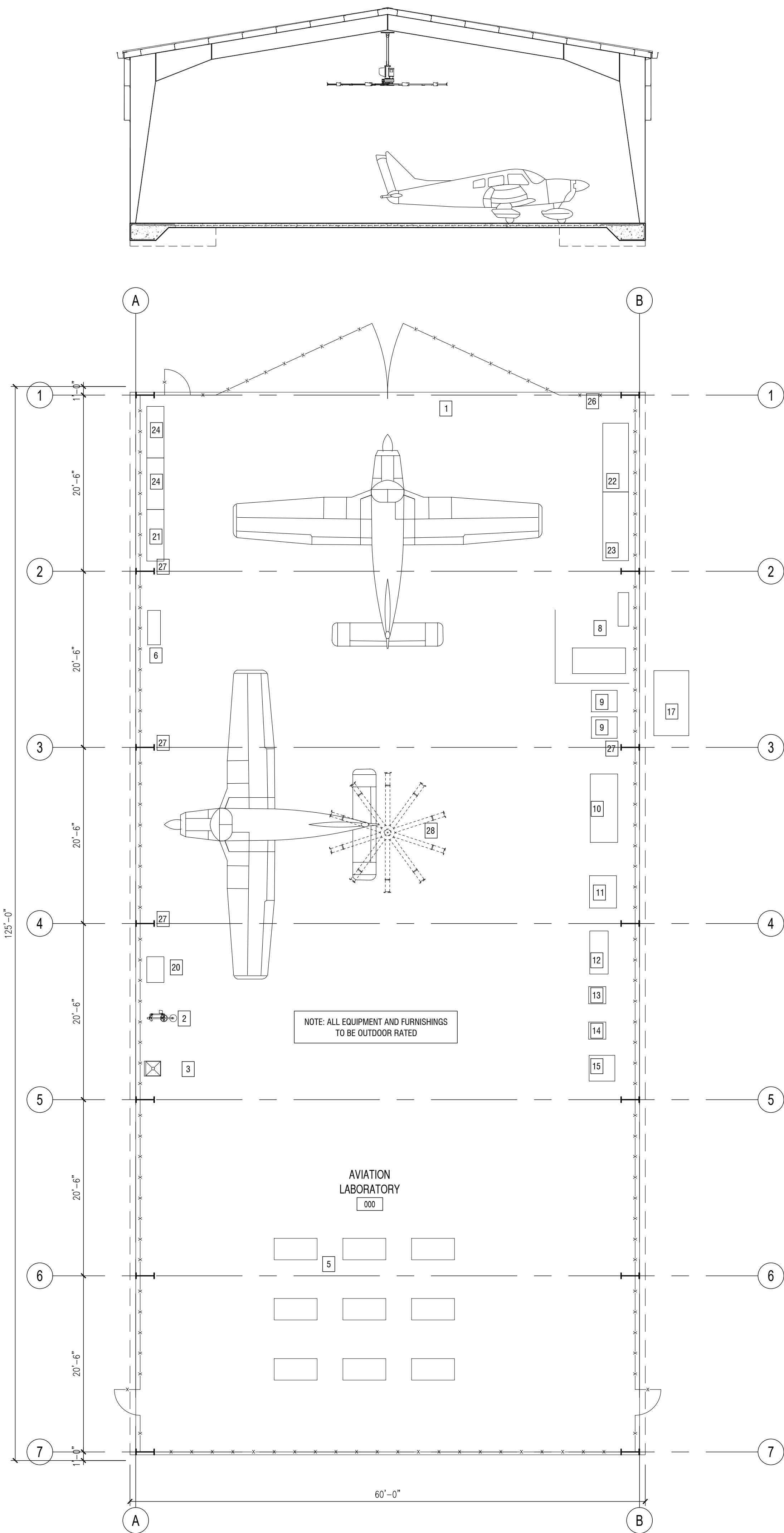
1" = 100'

- 1 BI-FOLD LIFT DOOR
- 2 EYE WASH AND EMERGENCY SHOWER
- 3 UTILITY SINK
- 4 DRINKING FOUNTAIN
- 5 WORK TABLES
- 6 FLAMMABLE STORAGE
- 7 PAINT BOOTH (NOT RECOMMENDED FOR CODE REQ'S)
- 8 WELDING EQUIPMENT
- 9 SAND BLASTER CABINET
- 10 BRAKE (SHEET METAL)
- 11 BANDSAW
- 12 HORIZONTAL BANDSAW
- 13 DRILL PRESS
- 14 CORNER SHEER
- 15 SLIP ROLLER
- 16 FLIGHT SIMULATOR
- 17 AIR COMPRESSOR
- 18 COMPUTER TABLE
- 19 MARKER BOARD
- 20 PARTS CLEANING TANK
- 21 TOOL STORAGE CABINET
- 22 PROJECT STORAGE
- 23 AIRCRAFT PARTS STORAGE
- 24 TOOL CRIB
- 25 AMATROL MODULE
- 26 MAIN ELECTRICAL SERVICE
- 27 COMPRESSED AIR OUTLET
- 28 HIGH VOLUME CEILING FAN



RAIN WATER LEADER, TIE
SITE DRAINAGE, COORDIN
WITH SITE DESIGN

SCALE: 3/4" = 1'-0"



FEATURES:

- SLAB ON GRADE WITH MONOLITHIC COLUMN FOOTINGS
- PRE-ENGINEERED METAL BUILDING SUPER-STRUCTURE
- CONTINUOUS LENGTH STANDING SEAM METAL ROOF WITH KYNAR COLOR FINISH
- ALUMINUM GUTTERS AND DOWNSPOUTS (.040) "KYNAR" COLOR
- PAINTED PRIMARY BUILDING FRAME
- GALVANIZED SECONDARY STRUCTURAL MEMBERS
- WALL PANELS ALONG UPPER PORTION OF PRIMARY FRAME
- FINISHES:
 - AVIATION LABORATORY:
 - FLOORING - SEALED CONCRETE, PAINT
 - WALLS - GALV. CHAIN-LINK FENCING
 - CEILINGS - P.E.M.B. FINISH
 - CLASSROOM, OFFICE:
 - FLOORING - V.C.T., VINYL BASE
 - WALLS - LEVEL 3 G.W.B. FINISH W/ LIGHT TEXTURE
 - CEILINGS - ACOUSTICAL CEILING TILE
 - DOORS - EXISTING TO REMAIN
- MECHANICAL:
 - EXISTING IN CLASSROOM TO REMAIN
 - HIGH VOLUME CEILING FAN (1) IN LAB
- PLUMBING:
 - PARTS WASHING WITH CONTAINERIZED WASTE
 - EYE WASH AND EMERGENCY SHOWER, FLOOR DRAIN
 - UTILITY SINK
- ELECTRICAL:
 - 600A SERVICE, OUTDOOR RATED ENCLOSURE
 - FLOOR BOXES (4) FOR POWER ONLY, IN AVIATION LABORATORY
 - POWER OUTLETS FOR EACH SPECIALIZED PIECE OF EQUIPMENT AS LISTED IN KEYNOTES, BELOW

KEYNOTES

- 1 CHAINLINK SWING GATE
- 2 EYE WASH AND EMERGENCY SHOWER
- 3 UTILITY SINK
- 4 <NOT USED>
- 5 WORK TABLES
- 6 FLAMMABLE STORAGE
- 7 <PAINT BOOTH> (NOT RECOMMENDED FOR CODE REQ'S)
- 8 WELDING EQUIPMENT
- 9 SAND BLASTER CABINET
- 10 BRAKE (SHEET METAL)
- 11 BANDSAW
- 12 HORIZONTAL BANDSAW
- 13 DRILL PRESS
- 14 CORNER SHEER
- 15 SLIP ROLLER
- 16 FLIGHT SIMULATOR
- 17 AIR COMPRESSOR
- 18 COMPUTER TABLE
- 19 MARKER BOARD
- 20 PARTS CLEANING TANK
- 21 TOOL STORAGE CABINET
- 22 PROJECT STORAGE
- 23 AIRCRAFT PARTS STORAGE
- 24 TOOL CRIB
- 25 AMATROL MODULE
- 26 MAIN ELECTRICAL SERVICE
- 27 COMPRESSED AIR OUTLET
- 28 HIGH VOLUME CEILING FAN

CONCEPT #4

PROJECT ADDRESS

1400 COMMODORE BLVD.
MELBOURNE, FL 32935

OWNER

SCHOOL BOARD OF BREVARD COUNTY
2700 JUDGE FRAN JAMIESON WAY
VIERA, FLORIDA 32940

ARCHITECT

GREGORY TSARK, AIA
TSARK ARCHITECTURE, LLC
3700 N. HARBOR CITY BLVD.
MELBOURNE, FL 32935

BUILDER

HEARD CONSTRUCTION INC.
95 E HALL RD.
MERRITT ISLAND, FL 32953

CONCEPT INFORMATION

PROJECT SCOPE:
CONSTRUCTION OF A NEW SINGLE-STORY FREESTANDING OPEN PAVILION IN AN AREA CURRENTLY USED FOR PARKING. NO NEW IMPERVIOUS AREA; UNDERGROUND STORM DRAIN MODIFICATION.
RENOVATION AND REMODELING OF THE EXISTING WEIGHT ROOM IN "BUILDING 46" INTO A NEW AVIATION LABORATORY.

CONSTRUCTION CLASSIFICATION:
TYPE 2-B, NON-SPRINKLERED

NEW BUILDING AREA (IN SQ. FT.)
BUILDING AREA: 7500
CALCULATED ALLOWABLE (TABLE 503): 14500

EXISTING BUILDING AREA (IN SQ. FT.)
BUILDING AREA: 26800
PROJECT RENOVATION AREA: 3213

NEW BUILDING OCCUPANCY CLASSIFICATION:
GROUP F-1: MODERATE HAZARD FACTORY INDUSTRIAL

NOTE: IF AIRCRAFT PAINTING ACTIVITIES ARE ANTICIPATED, THE OCCUPANCY CLASSIFICATION WILL CHANGE FROM F-1 TO H-2

EXISTING BUILDING OCCUPANCY CLASSIFICATION:
GROUP E: EDUCATIONAL

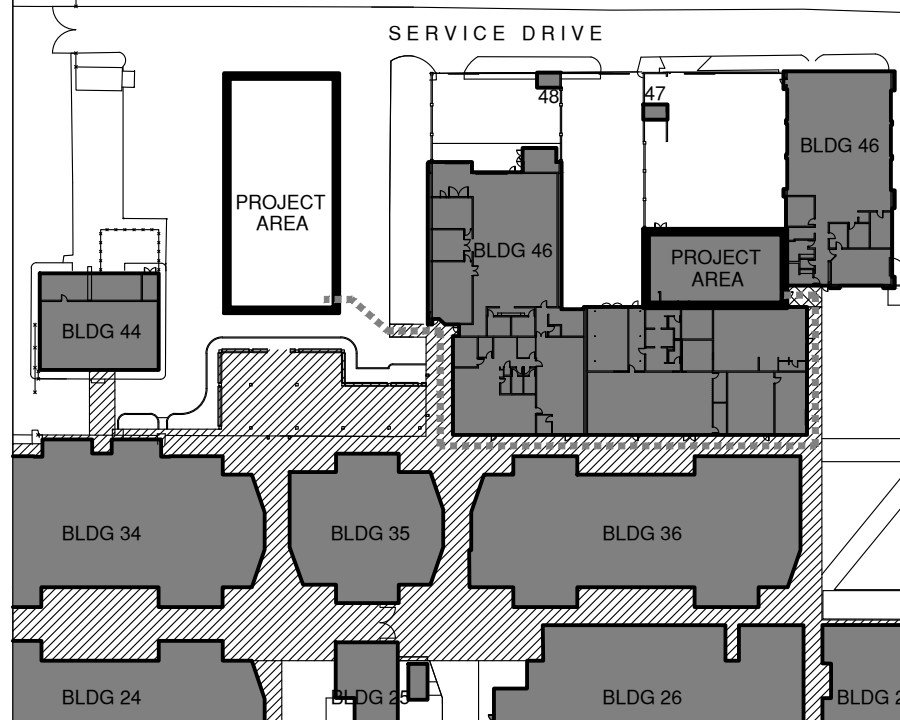
OCCUPANT LOAD (PERSONS)
INDUSTRIAL AREA: 150 (50 SF/PERSON, SHOP AREAS)
CLASSROOM AREA: 148 (20 SF/PERSON, CLASSROOMS)

CODE REQUIRED PLUMBING FACILITIES

NOTE: AS THIS NEW EDUCATIONAL FACILITY WILL BE USED AS PART OF A CAMPUS THAT CURRENTLY MEETS FIXTURE COUNTS ON A BASIS OF STUDENT POPULATION, NO NEW RESTROOM FACILITIES WILL BE PROVIDED. THE PROJECT SCOPE WILL REQUIRE AN ACCESSIBLE PATH TO/FROM THE PROPOSED NEW STRUCTURE.

THIS PROJECT WILL BE DESIGNED IN ACCORDANCE WITH:
FLORIDA BUILDING CODE - 2014 EDITION
FLORIDA FIRE PREVENTION CODE - 5TH EDITION
NFPA 1 FIRE CODE - 2012 EDITION
NFPA 101 LIFE SAFETY CODE - 2012 EDITION

NOTE: SEE KEY PLAN BELOW. WALKING DISTANCE BETWEEN TWO SITES IS APPROXIMATELY 420 FT. EQUATING TO +/- 90 SECONDS TRAVEL TIME FOR AN INDIVIDUAL; CLASS TRAVEL TIME LIKELY GREATER.



KEY PLAN

1" = 100'



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SHEET TITLE:

DATE: 4/23/2017

DRAWN BY: GIT

REVISION:

4

REVIEW SET
NOT FOR
CONSTRUCTION
PURPOSES