ADDENDUM NO. 2

to the

PROJECT DOCUMENTS AND SPECIFICATIONS

for

DFS TERMINAL, HANGAR, AND APRON DEVELOPMENT

Prepared for:

CITY OF DEFUNIAK SPRINGS, FLORIDA

Prepared By:

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Niceville, Florida 32578-2425

AVCON Project No. 2019.0028.01

Addendum Date: February 25, 2022

Note: The bidder shall acknowledge receipt of this addendum on the Bid Form, Page B1-3 in the space provided.

ADDENDUM NO. 2
DFS TERMINAL, HANGAR, AND APRON DEVELOPMENT

Date of Issue: February 25, 2022

Bid Submittal Deadline: Thursday, March ~~3~~ ***10***, 2022 @ 2:00 a.m. (local time) ***(CHANGED)***

Notice to all Plan Holders: Please insert this addendum (4 pages including cover, excluding attachments) into your copy of the Project Bid Documents.

The following changes to the Project Documents and Specifications are issued by the Engineer and shall have the same force and effect as though part of the original issue:

A. Changes to the Bid Manual:

1. Table of Contents — **REPLACE** Table of Contents, Page i to vi in its entirety with Table of Contents, Page i to vi attached as **Attachment A** (6 pages) hereto.

2. Bid Form — **ADD** the following notes to the Bid Form:

   "The Building Permit will not be issued at the time the Bids are due. In accordance with the Walton County Building Department process, the contractor will be required to complete the Building Permit application and submit for the Building Permit. The contractor shall allow up to 120 days for the Walton County Building Department to issue the Building Permit. The contractor may proceed with the civil improvements prior to receiving the Building Permit."

   "The pricing for any additive alternates not awarded with the initial construction contract shall be in effect for 120 days following the Bid Date."

3. Special Provisions — **REPLACE** Special Provision No. 5 in its entirety with Special Provision No. 5 attached as **Attachment B** (28 pages) hereto.

4. Technical Specifications — **REVISE** Technical Specification 061800 *Glued-Laminated Construction* to remove Paragraph 1.6.A in its entirety.

5. Technical Specifications — **ADD** Technical Specifications 05410, 07811, 08450, and 08830 contained in **Attachment C** (33 Pages) hereto, in their entirety.

6. Technical Specifications — **REVISE** Technical Specification 013341 *Metal Building Systems* to remove the requirement for the mental building manufacturer to be AISC certified.

7. Technical Specifications — **ADD** Technical Specification 283111 *Digital, Addressable Fire-Alarm System*, contained in **Attachment D** (14 Pages) hereto, in its entirety.

B. Changes to the Bid Drawings:

1. Bid Drawings - Civil — **REPLACE** the following civil design drawings in their entirety with the revised sheets identified below and included in **Attachment E** (2 pages) hereto.

   Sheets G-6, C-12

2. Bid Drawings - Civil — **ADD** the following note to the "RPZ Assembly Backflow Preventer 3" and Up" detail on Sheet C-14:

   "3. The RPZ shall be equipped with a Full Forward Flow Test Header in accordance with NFPA 13 (16) 8.17.4.5.1"

3. Bid Drawings - Civil — **ADD** the following General Note to Sheet C-3:

   "17. All demolition, grading, and paving work associated with the taxiway connector (Additive Alternate No. 7) shall be performed with the adjacent section of Taxiway A is closed. This taxiway closure and taxiway connector work shall be performed within 21 consecutive calendar days. The contractor shall place low-boy style construction barricades, as detailed on Sheet G-6, on Taxiway A clearly indicating this airfield pavement is temporarily closed."

4. Bid Drawings - Civil — **REVISE** the "Concrete Ribbon Curb" detail on Sheet C-18 to reduce the width from 2'-0" to 0'-12".

5. Bid Drawings – Arch. — **REPLACE** the following architectural design drawings in their entirety with the revised sheets identified below and included in **Attachment F** (28 pages) hereto.

   Sheets G0.04, A-002, A-102, A-103, A-111, A-140, A-142, A-204, A-301, A-302, A-303, A-304, A-313, A-314, A-401, A-402, A-403, A-501, A-506, A-507, A-611, A-612, A-700, A-704, A-800

   A summary of the architectural updates is provided before Sheet G0.04

6. Bid Drawings – Elec. — **REPLACE** the following electrical design drawing in its entirety with the revised sheet identified below and included in **Attachment G** (1 page) hereto.

   Sheet E-100

7. Bid Drawings – Elec. — **REVISE** Electrical Key Note No. 7 on Sheet E-203 as follows:

   "…Larson Electronics #EPLRT-50-HR. ***A comparable 50' cord reel that is not explosion proof would be acceptable."***

8. Bid Drawings – Mech. — **REPLACE** the following mechanical design drawings in their entirety with the revised sheets identified below and included in **Attachment H** (4 pages) hereto.

   Sheets M-103, M-502, M-601, M-701

9. Bid Drawings – Fire **REPLACE** the following fire alarm design drawing in its entirety with the revised sheet identified below and included in **Attachment I** (1 page) hereto.

Sheet FA-401

C. Additional Information:

1. Pre-Bid Conference Minutes — Please find attached the Pre-Bid Conference minutes attached as **Attachment J** (4 pages) hereto.

2. Response to Questions — Please find attached the formal responses to plan-holder questions attached as **Attachment K** (7 pages) hereto.

END OF ADDENDUM NO. 2

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SPECIAL PROVISION NO. 5

FEDERAL LABOR AND EEO PROVISIONS

1 LABOR PROVISIONS FOR CONTRACTS

1.1 Minimum Wages:

1.1.1. All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics, are considered wages paid to such laborers and mechanics, subject to the provisions of Paragraph A.(4) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in Paragraph 1.1.4 of this Special Provision. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: PROVIDED, that the Contractor's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under Paragraph 1.1.2 of this Special Provision) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its Subcontractors at the site of the Work in a prominent and accessible place where it can be easily seen by the workers. (29CFR5.5(a)(1)(i))

1.1.2. The contracting officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the Contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(a) The Work to be performed by the classification requested is not performed by a classification in the wage determination; and

(b) The classification is utilized in the area by the construction industry; and

(c) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

1.1.3. If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 30320. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

1.1.4. In the event the Contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

The wage rate (including fringe benefits where appropriate) determined pursuant to Paragraphs 1.1.3 and 1.1.4 of this Special Provision, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification. (29CFR5.5(a)(1)(ii))

1.1.5. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof. (29CFR5.5(a)(1)(iii))

1.1.6. If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, PROVIDED, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (29CFR5.5(a)(1)(iv))

1.2 Withholding:

1.2.1. The Federal Aviation Administration (FAA) shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contractor subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any Subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentices, trainees and helpers, employed by the Contractor or any Subcontractor the full amount of wages required by the Contract, or in the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or

helper employed or working on the site of the Work (or under the United States Housing Act of 1937 or under the Housing Act of 1949) on the construction or development of the Project), all or part of the wages required by the Contract, the FAA may, after written notice to the Contractor, sponsor, applicant or Owner, take such action as may be necessary to cause the suspension of any further payment, advance or guarantee of funds until such violations have ceased. (29CFR5.5(a)(2))

1.3 Payroll and Basic Records:

1.3.1. Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (29CFR5.5(a)(3)(i))

1.3.2. The Contractor shall submit weekly for each week in which any Contract Work is performed a copy of all payrolls to the FAA if the FAA is a party to the Contract. The Contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the FAA. The payrolls submitted shall set out accurately and completely all of the information required to be contract, but if the agency is not such a party, then maintained under Paragraph 5.5(a)(3)(i) of Regulations 29 CFR Part 5. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or its agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(a) That the payroll for the payroll period contains the information required to be maintained under Paragraph 5.5(a)(3)(i) of the Regulations, 29 CFR Part 5 and that such information is correct and complete.

(b) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR Part 3.

(c) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph C.(2)(b) of this section.

The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code. (29CFR5.5(a)(3)(ii))

1.3.3. The contractor or subcontractor shall make the records required under Paragraph 1.3.1 of this section available for inspection, copying, or transcription by authorized representatives of the FAA or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12. (29CFR5.5(a)(3)(iii))

1.4 Apprentices and Trainees:

1.4.1. **Apprentices.** Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified

in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate acceptable program is approved. (29CFR5.5(a)(4)(i))

1.4.2. **Trainees.** Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U. S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid in full benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved. (29CFR5.5(a)(4)(ii))

1.4.3. **Equal Employment Opportunity.** The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30. (29CFR5.5(a)(4)(iii))

1.5 **Compliance with Copeland Act Requirements:** The contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract. (29CFR5.5(a)(5))

1.6 **Subcontractors:** The contractor or subcontractor shall insert in any subcontracts the clauses contained in Paragraphs 1.1 through 1.10 of this Special Provision [29CFR5.5(a)(1) through (10)] and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier

subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5. (29CFR5.5(a)(6))

1.7 Contract Termination: Debarment: A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12. (29CFR5.5(a)(7))

1.8 Compliance with Davis-Bacon and Related Act Requirements: All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1,3 and 5 are herein incorporated by reference in this contract. (29CFR5.5(a)(8))

1.9 **Disputes Concerning Labor Standards:** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6 and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U. S. Department of Labor, or the employees or their representatives. (29CFR5.5(a)(9))

1.10 Certification of Eligibility:

1.10.1. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

1.10.2. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act CFR 5.12(a)(1).

1.10.3. The penalty for making false statements is prescribed in the U. S. Criminal Code, 18 U.S.C. 1001. (29CFR5.5(a)(10))

1.11 **Contract Work Hours and Safety Standards Act:** (29CFR5.5(b))

1.11.1. **Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

1.11.2. **Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in Paragraph 1.11.1 of this Special Provision, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in Paragraph 1.11.1 of this Special Provision.

1.11.3. **Withholding for unpaid wages and liquidated damages.** The Federal Aviation Administration shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clauses set forth in Paragraph 1.11.2 of this Special Provision.

1.11.4. **Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in Paragraphs 1.11.1 through 1.11.4 of this Special Provision and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in Paragraphs 1.11.1 through 1.11.4 of this Special Provision.

2 VETERANS PREFERENCE

2.1 In the employment of labor (except in executive, administrative and supervisory positions), the Contractor shall give preference to veterans of the Vietnam era and disabled veterans as defined in Section 515(c)(1) and (2) of the Airport and Airway Improvement Act of 1982.

3 GENERAL WAGE DECISION

3.1 A copy of the current Davis-Bacon Wage Determination applicable to the Project is provided as follows:

Davis-Bacon Wage Rates
(General Decision County Index Date)

"General Decision Number: FL20210102 01/01/2021

Superseded General Decision Number: FL20200102

State: Florida

Construction Type: Heavy

Counties: Franklin, Gulf, Liberty and Walton Counties in
Florida.

HEAVY CONSTRUCTION PROJECTS (Including Sewer and Water Lines)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015.

If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date
0 01/01/2021

* PAIN0164-005 08/01/2020

	Rates	Fringes
PAINTER: Brush and Spray	$ 20.21	11.83

SUFL2009-141 06/24/2009

	Rates	Fringes
LABORER: Common or General	$ 8.46	0.00
LABORER: Pipelayer	$ 12.63	1.49
OPERATOR: Backhoe/Excavator	$ 10.50	1.33
OPERATOR: Bulldozer	$ 13.30	1.92
OPERATOR: Loader	$ 11.00	0.00
TRUCK DRIVER, Includes 4 Axle, Distributor, Dump, Lowboy and Tandem Trucks	$ 9.89	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide

employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

"General Decision Number: FL20210151 01/01/2021

Superseded General Decision Number: FL20200151

State: Florida

Construction Type: Highway

County: Walton County in Florida.

HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021

* ELEC0349-002 09/01/2020

	Rates	Fringes
ELECTRICIAN	$ 36.36	11.82

SUFL2013-012 08/19/2013

	Rates	Fringes
CARPENTER, Includes Form Work	$ 12.77	0.00
CEMENT MASON/CONCRETE FINISHER	$ 12.40	0.00
HIGHWAY/PARKING LOT STRIPING: Operator (Striping Machine)	$ 12.89	0.00
IRONWORKER, REINFORCING	$ 13.86	0.00
LABORER (Traffic Control Specialist)	$ 11.40	0.00
LABORER: Asphalt, Includes Raker, Shoveler, Spreader and Distributor	$ 10.79	0.00
LABORER: Common or General	$ 9.75	0.00
LABORER: Flagger	$ 9.91	0.00
LABORER: Grade Checker	$ 11.16	0.00
LABORER: Landscape & Irrigation	$ 9.13	0.00
LABORER: Pipelayer	$ 11.66	0.00
OPERATOR: Backhoe/Excavator/Trackhoe	$ 12.34	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader	$ 11.60	0.00
OPERATOR: Broom/Sweeper	$ 10.90	0.00
OPERATOR: Bulldozer	$ 12.92	0.00
OPERATOR: Crane	$ 17.83	0.00

OPERATOR: Distributor.....$ 12.71 0.00

OPERATOR: Forklift.....$ 11.14 0.00

OPERATOR: Grader/Blade.....$ 13.88 0.00

OPERATOR: Loader.....$ 11.66 0.00

OPERATOR: Mechanic.....$ 12.37 0.00

OPERATOR: Milling Machine.....$ 13.10 0.00

OPERATOR: Oiler.....$ 11.38 0.00

OPERATOR: Paver (Asphalt,
Aggregate, and Concrete).....$ 13.96 0.00

OPERATOR: Post Driver
(Guardrail/Fences).....$ 16.00 0.00

OPERATOR: Roller.....$ 10.44 0.00

OPERATOR: Screed.....$ 13.49 0.00

OPERATOR: Tractor.....$ 11.00 0.00

OPERATOR: Trencher.....$ 16.00 0.00

TRUCK DRIVER: Dump Truck.....$ 10.97 0.00

TRUCK DRIVER: Lowboy Truck.....$ 14.13 0.00

TRUCK DRIVER: Water Truck.....$ 12.04 0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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General Decision Number: FL20220231 02/18/2022

Superseded General Decision Number: FL20210231

State: Florida

Construction Type: Building

County: Walton County in Florida.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022, Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022, Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/07/2022
1	02/18/2022

* ELEV0124-002 01/01/2022

	Rates	Fringes
ELEVATOR MECHANIC.....	$ 45.86	36.885+a+b

FOOTNOTE:
A. Employer contributions 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; Employer contributions 6% of regular hourly rate to vacation pay credit for employee who has worked in business less than 5 years.

Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; The Friday after Thanksgiving Day; and Christmas Day.

ENGI0487-021 07/01/2016

	Rates	Fringes
OPERATOR: Crane		
All Cranes 160 Ton Capacity and Over	$ 33.05	9.20
All Cranes Over 15 Ton Capacity	$ 32.05	9.20
OPERATOR: Forklift	$ 23.25	9.20
OPERATOR: Mechanic	$ 32.05	9.20
OPERATOR: Oiler	$ 23.50	9.20

IRON0402-001 10/01/2021

	Rates	Fringes
IRONWORKER, ORNAMENTAL	$ 25.50	14.66

PLUM0234-012 09/01/2021

	Rates	Fringes
PIPEFITTER (Includes HVAC Unit Installation)	$ 31.84	15.95

SUFL2014-040 08/16/2016

	Rates	Fringes
CARPENTER, Includes Form Work	$ 16.38	0.00
CEMENT MASON/CONCRETE FINISHER	$ 14.61	0.00
ELECTRICIAN	$ 17.39	2.57
INSULATOR: Mechanical (Duct, Pipe and Mechanical System Insulation)	$ 20.78	10.89
IRONWORKER, REINFORCING	$ 22.81	11.58
IRONWORKER, STRUCTURAL	$ 23.79	8.74
LABORER: Common or General, Including Cement Mason Tending	$ 11.38	0.62

LABORER: Pipelayer.....$ 13.56 1.34

OPERATOR:
Backhoe/Excavator/Trackhoe.....$ 22.07 8.80

OPERATOR: Bulldozer.....$ 15.40 1.90

OPERATOR: Grader/Blade.....$ 18.97 0.00

OPERATOR: Loader.....$ 14.83 1.84

OPERATOR: Roller.....$ 14.43 4.78

PAINTER: Brush, Roller and
Spray.....$ 14.54 2.01

PLUMBER.....$ 19.40 0.36

ROOFER.....$ 16.99 0.00

SHEET METAL WORKER, Includes
HVAC Duct Installation.....$ 20.05 0.00

TILE SETTER.....$ 18.01 0.00

TRUCK DRIVER: Dump Truck.....$ 13.22 2.12

TRUCK DRIVER: Lowboy Truck.....$ 14.24 0.00

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

4 EQUAL EMPLOYMENT REQUIREMENTS

4.1 Requirement for Certification of Nonsegregated Facilities:

4.1.1. Notice to Prospective Construction Contractors:

(a) The Certification of Non-segregated Facilities contained in the Bid Documents must be submitted with the Bid for a construction contract exceeding Ten Thousand Dollars ($10,000.00) which is not exempt from the provisions of the Equal Opportunity Clause.

(b) Contractors receiving contract awards exceeding Ten Thousand Dollars ($10,000.00) which are not exempt from the provisions of the forwarding of this notice to prospective subcontractors for supplies and construction contracts where the subcontracts exceed Ten Thousand Dollars ($10,000.00) and are not exempt from the provisions of the Equal Opportunity Clause.

4.1.2. Notice to Prospective Subcontractors of Requirement for Certification of Non-segregated Facilities:

(a) A Certification of Non-segregated Facilities must be submitted prior to the award of a subcontract exceeding Ten Thousand Dollars ($10,000.00) which is not exempt from the provisions of the Equal Opportunity Clause.

(b) The Certification of Non-segregated Facilities Form is located in the Bid Package of the Contract Documents.

4.2 Standard Federal Equal Employment Construction Contract Specifications (Executive Order 11246, as amended):

4.2.1. As used in these specifications:

(a) "Covered area" means the geographical area described in the solicitation from which this contract resulted;

(b) "Director" means Director, Office of Federal Contract Compliance Programs (OFCCP), U.S. Department of Labor, or any person to whom the Director delegates authority;

(c) "Employer identification number" means the federal social security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941;

(d) "Minorities" includes:

(1) Black (all persons having origins in any of the black African racial groups not of Hispanic origin);

(2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin regardless of race);

(3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and

(4) American Indian or Alaskan native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

4.2.2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of Ten Thousand Dollars ($10,000.00) the provisions of these specifications and the notice which contains the applicable goals for minority and women participation and which is set forth in the solicitations from which this contract resulted.

4.2.3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the plan area (including goals and timetables) shall be in accordance with that plan for those trades which have unions participating in the plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each contractor or subcontractor participating in an approved plan is individually required to comply with its obligations under the EEO clause and to make a good faith effort to achieve each goal under the plan in each trade which it has employees. The overall good faith performance by other contractors or subcontractors toward a goal in an approved plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the plan goals and timetables.

4.2.4. The Contractor shall implement the specific affirmative action standards provided in Paragraphs 4.2.7.1 through 4.2.7.16 of this Special Provision. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and women utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a federal or federally assisted construction contract shall apply the minority and women goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Federal Contract Compliance Programs office or from Federal Procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

4.2.5. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the Contractor has a collective bargaining agreement to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, as amended, or the regulations promulgated pursuant thereto.

4.2.6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability

of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

4.2.7. The Contractor shall take specific affirmative actions to ensure EEO. The evaluation of the Contractor's compliance with these specifications shall be based upon its efforts to achieve maximum results from its actions. The Contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:

1. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minorities or women individuals working at such sites or in such facilities.

2. Establish and maintain a current list of minority and women recruitment sources, provide written notification to minority and women recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organization's responses.

3. Maintain a current file of the names, addresses and telephone numbers of each minority and women off-the-street applicant and minority or women referral from a union, a recruitment source, a community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore along with whatever additional actions the Contractor may have taken.

4. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

5. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly includes minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under Paragraph 4.2.7.2 of this Special Provision.

6. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all

minority and women employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

7. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as superintendents, general foremen, etc., prior to the initiation of construction work at any jobsite. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

8. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and women news media, and providing written notification to and discussing the Contractor's EEO policy with other contractors and subcontractors with whom the Contractor does or anticipates doing business.

9. Direct its recruitment efforts, both oral and written, to minority, women and community organizations, to schools with minority and women students; and to minority and women recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one (1) month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations, such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

10. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and women youth, both on the site and in other areas of a contractor's work force.

11. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

12. Conduct, at least annually, an inventory and evaluation, at least of all minority and women personnel, for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

13. Ensure that seniority practices, job classifications, work assignments, and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

14. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

15. Document and maintain a record of all solicitations of offers for subcontractors from minority and women construction contractors and suppliers, including circulation of solicitations to minority and women contractor associations and other business associations.

16. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

4.2.8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (Paragraphs 4.2.7 through 4.2.7.16 of this Special Provision). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar groups of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under Paragraphs 4.2.7 through 4.2.7.16 of this Special Provision of these specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's--failure of such a group to fulfill an obligation shall not be a defense for the Contractor's non-compliance.

4.2.9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide EEO and to make affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goal for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is under-utilized).

4.2.10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex or national origin.

4.2.11. The Contractor shall not enter into any subcontract with any person or firm debarred from government contracts pursuant to Executive Order 11246, as amended.

4.2.12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination, and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the OFCCP. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

4.2.13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in Paragraph 4.2.7 of this Special Provision, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the

requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

4.2.14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the government, and to keep records. Records shall at least include for each employee, the name, address, telephone number, construction trade, union affiliation, if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

4.2.15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Grant Program).

4.3 Contractor Contractual Requirements:

During the performance of this contract, the Contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

4.3.1. Compliance with Regulations: The Contractor shall comply with the Regulations relative to non-discrimination in federally assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time-to-time (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this Contract.

4.3.2. Non-discrimination: The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

4.3.3. Solicitations for Subcontracts, including Procurement of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligation under this Contract and the Regulations relative to non-discrimination on the grounds of race, color or national origin.

4.3.4. Information and Reports: The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration (FAA) to be pertinent to ascertain compliance with such regulations, orders and instructions. Where any

information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to the sponsor or the FAA, as appropriate, and shall set forth what efforts it has made to obtain the information.

4.3.5. Sanctions for Non-compliance: In the event of the Contractor's non-compliance with the non-discrimination provisions of this contract, the sponsor shall impose such contract sanctions as it or the FAA may determine to be appropriate, including but not limited to:

1. Withholding of payments to the Contractor under the Contract until the Contractor complies, and/or

2. Cancellation, termination or suspension of the Contract, in whole or in part.

4.3.6. Incorporation of Provisions: The Contractor shall include the provisions of Paragraphs 4.2 through 4.7 of this Special Provision in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the sponsor or the FAA may direct as a means of enforcing such provisions including, sanctions for non-compliance. Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a Subcontractor or supplier as a result of such direction, the Contractor may request the sponsor to enter into such litigation to protect the interests of the sponsor and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

4.4 Equal Employment Opportunity Clause:

During the performance of this Contract the Contractor agrees as follows:

4.4.1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The Contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places available to employees and applicants for employment, notices (see Paragraph 15.4) setting forth the provisions of this nondiscrimination clause.

4.4.2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

4.4.3. The contractor will send, to each labor union or representative of workers with which he had a collective bargaining agreement or other contract or understanding, a notice (see Section 4.5) advising that said labor union or workers' representatives of the contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4.4.4. The contractor will comply with all provisions of Executive Order 11246, as amended, of September 24, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor.

4.4.5. The contractor will furnish all information and reports required by Executive Order 11246, as amended, of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the FAA and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.

4.4.6. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract of with any of the said rules, regulations, or orders, this contract may be canceled; terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246, as amended, of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246, as amended, of September 24,.1965, or by rule, regulation, or order of the Secretary of State, or as otherwise provided by law.

4.4.7. The contractor will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraphs 1 through 7 in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246, as amended, of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontractor of purchase order as the FAA may direct as a means of enforcing such provisions, including sanctions for noncompliance: provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the FAA, the contractor may request the United States to enter into such litigation to protect the interests 'of the United States.

4.5 Notices to be Posted:

The "Equal Employment Opportunity is the Law" poster is to be posted by the Contractor in a conspicuous place available to employees and applicants for employment as required by Paragraphs 4.2 and 4.4 of this Special Provision of the EEO Clause. Copies of this poster will be furnished to contractors at the pre-construction conference.

4.6 Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246), as Amended:

4.6.1. The Contractor's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.

4.6.2. The goals and timetables for minority and women participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area are as follows:

Timetables:

These goals are applicable to all the Contractor's construction work (whether or not it is federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and women employment and training must be substantially uniform throughout the length of the Contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor-to-contractor or from project-to-project, for the sole purpose of meeting the Contractor's goals, shall be a violation of the Contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

4.6.3. The Contractor shall provide written notification to the Director, OFCCP, within ten (10) working days of award of any construction subcontract in excess of Ten Thousand Dollars ($10,000.00) at any tier of construction work under the Contract resulting from this solicitation. The notification shall list the name, address, telephone number of the Subcontractor; employer identification number of the Subcontractor; estimated dollar amount of the subcontracts; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

4.7 Required Reports:

4.7.1. **Annual EEO-1 Report:** Contractors/Subcontractors working on federally assisted airport construction projects are required to file annually, on or before March 31st, complete and accurate reports on Standard Form 100 (Employee Information Report, EEO-1). The first such report is required within thirty (30) days after award unless the Contractor/Subcontractor has submitted such a report within twelve (12) months preceding the date of award (the FAA or Department of Labor OFCCP can designate other intervals). This form is normally furnished based on a mailing list, but can be obtained from the Joint Reporting Committee, 1800 G Street, N.W., Washington, D.C. 20506. This report is required if a contractor or subcontractor meets all of the following conditions:

1. Non-exempt: Contractors/subcontractors are not exempt based on 41 CFR 60-1.5, and

2. Number of Employees: Has fifty (50) or more employees, and

3. Contractor/Subcontractor: Is a prime contractor or first tier subcontractor, and

4. Dollar Level: There is a contract, subcontract or purchase order amounting to Fifty Thousand Dollars ($50,000.00) or more, or serves as a depository of government funds in any amount, or is a financial institution which is an issuing and paying agent for U.S. savings bonds and savings notes. Some subcontractors below the first tier who work at the site are required to file if they meet the requirements of 41 CFR 60-1.7.

4.7.2. **Records:** The FAA or Department of Labor OFCCP may require a contractor to keep employment or other records and to furnish, in the form requested within reasonable limits, such information as necessary.

4.8 MBE Required Statements

4.8.1. **Policy.** It is the policy of the Department of Transportation that minority business enterprises as defined in 49 CFR Part 26 shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal funds under this agreement. Consequently, the MBE requirements of 49 CFR Part 26 apply to this agreement.

4.8.2. **MBE Obligation.** The recipient or its contractor agrees to ensure that minority business enterprises as defined in 49 CFR Part 26 have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal funds provided under this agreement. In this regard all recipients or contractors shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 to ensure that minority business enterprises have the maximum opportunity to compete for and perform contracts. Recipients and their contractors shall not discriminate on the basis of race, color, national origin, or sex In the award and performance of DOT-assisted contracts.

5 Contract Assurance Required by 49 CFR Part 26

The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the owner deems appropriate.

END OF SPECIAL PROVISION NO. 5

SECTION 05410 – STRUCTURAL METAL STUDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Load-bearing wall framing.

B. Related Requirements:

1. Section 05500 "Metal Fabrications" for miscellaneous steel shapes, masonry shelf angles, and connections used with cold-formed metal framing.
2. Section 09260 "Gypsum Board Assemblies" for interior non-load-bearing, metal-stud-framed, with height limitations.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings:

1. Include layout, spacings, sizes, thicknesses, and types of cold-formed steel framing; fabrication; and fastening and anchorage details, including mechanical fasteners.
2. Indicate reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.

C. Delegated-Design Submittal: For cold-formed steel framing.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For testing agency.

B. Welding certificates.

C. Product Certificates: For each type of code-compliance certification for studs and tracks.

D. Product Test Reports: For each listed product, for tests performed by manufacturer and witnessed by a qualified testing agency or performed by a qualified testing agency.

1. Steel sheet.
2. Expansion anchors.
3. Power-actuated anchors.
4. Mechanical fasteners.
5. Vertical deflection clips.
6. Horizontal drift deflection clips
7. Miscellaneous structural clips and accessories.

E. Evaluation Reports: For nonstandard cold-formed steel framing post-installed anchors and power-actuated fasteners, from ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction.

1.6 QUALITY ASSURANCE

A. Testing Agency Qualifications: Qualified according to ASTM E 329 for testing indicated.

B. Product Tests: Mill certificates or data from a qualified independent testing agency, or in-house testing with calibrated test equipment, indicating steel sheet complies with requirements, including base-metal thickness, yield strength, tensile strength, total elongation, chemical requirements, and metallic-coating thickness.

C. Code-Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified according to the product-certification program of the Certified Steel Stud Association, the Steel Framing Industry Association or the Steel Stud Manufacturers Association.

D. Welding Qualifications: Qualify procedures and personnel according to the following:

1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
2. AWS D1.3/D1.3M, "Structural Welding Code - Sheet Steel."

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

1. ClarkDietrich.

2. Nuconsteel, A Nucor Company.

2.2 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 01400 "Quality Requirements," to design cold-formed steel framing.

B. Structural Performance: Provide cold-formed steel framing capable of withstanding design loads within limits and under conditions indicated.

1. Design Loads: As indicated on Drawings.
2. Deflection Limits: Design framing systems to withstand design loads without deflections greater than the following:

    a. Exterior Load-Bearing Wall Framing: Horizontal deflection of 1/240 of the wall height.
    b. Interior Load-Bearing Wall Framing: Horizontal deflection of 1/240 of the wall height under a horizontal load of 5 lbf/sq. ft..

3. Design framing systems to provide for movement of framing members located outside the insulated building envelope without damage or overstressing, sheathing failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to a maximum ambient temperature change of 120 deg F.
4. Design framing system to maintain clearances at openings, to allow for construction tolerances, and to accommodate live load deflection of primary building structure as follows:

    a. Upward and downward movement of L/360.

C. Cold-Formed Steel Framing Standards: Unless more stringent requirements are indicated, framing shall comply with AISI S100, AISI S200, and the following:
1. Wall Studs: AISI S211.
2. Headers: AISI S212.
3. Lateral Design: AISI S213.

D. Fire-Resistance Ratings: Comply with ASTM E 119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Indicate design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency acceptable to authorities having jurisdiction.

2.3 COLD-FORMED STEEL FRAMING MATERIALS

A. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of grade and coating designation as follows:

1. Grade: As required by structural performance.
2. Coating: G60, A60, AZ50, or GF30.

B. Steel Sheet for Vertical Deflection and/or Drift Clips: ASTM A 653/A 653M, structural steel, zinc coated, of grade and coating as follows:

1. Grade: As required by structural performance.
2. Coating: G60.

2.4 LOAD-BEARING WALL FRAMING

A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:

1. Minimum Base-Metal Thickness: 0.0329 inch.
2. Flange Width: 1-3/8 inches, minimum.
3. Section Properties: As required by design.

B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with straight flanges, and as follows:

1. Minimum Base-Metal Thickness: Matching steel studs.
2. Flange Width: 1-1/4 inches.

C. Steel Box or Back-to-Back Headers: Manufacturer's standard C-shapes used to form header beams, of web depths indicated, unpunched, with stiffened flanges, and as follows:

1. Minimum Base-Metal Thickness: 0.0329 inch.
2. Flange Width: 1-3/8 inches, minimum.
3. Section Properties: As required by design.

D. Steel Single- or Double-L Headers: Manufacturer's standard L-shapes used to form header beams, of web depths indicated, and as follows:

1. Minimum Base-Metal Thickness: 0.0329 inch.
2. Top Flange Width: 1-1/2 inches, minimum.
3. Section Properties: As required by design.

2.5 FRAMING ACCESSORIES

A. Fabricate steel-framing accessories from ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated steel sheet, of same grade and coating designation used for framing members.

B. Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated, as follows:

1. Supplementary framing.
2. Bracing, bridging, and solid blocking.
3. Web stiffeners.
4. Anchor clips.
5. End clips.
6. Foundation clips.
7. Gusset plates.
8. Stud kickers and knee braces.
9. Joist hangers and end closures.
10. Hole-reinforcing plates.
11. Backer plates.

2.6 ANCHORS, CLIPS, AND FASTENERS

A. Steel Shapes and Clips: ASTM A 36/A 36M, zinc coated by hot-dip process according to ASTM A 123/A 123M.

B. Anchor Bolts: ASTM F 1554, Grade 36, threaded carbon-steel hex-headed bolts, carbon-steel nuts, and flat, hardened-steel washers; zinc coated by hot-dip process according to ASTM A 153/A 153M, Class C.

C. Post-Installed Anchors: Fastener systems with bolts of same basic metal as fastened metal, if visible, unless otherwise indicated; with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC01, ICC-ES AC193, ICC-ES AC58 or ICC-ES AC308 as appropriate for the substrate.

1. Uses: Securing cold-formed steel framing to structure.
2. Type: Torque-controlled expansion anchor, Torque-controlled adhesive anchor or adhesive anchor.
3. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, unless otherwise indicated.
4. Material for Exterior or Interior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless-steel bolts, ASTM F 593, and nuts, ASTM F 594.

D. Power-Actuated Anchors: Fastener systems with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

E. Mechanical Fasteners: ASTM C 1513, corrosion-resistant-coated, self-drilling, self-tapping, steel drill screws.

1. Head Type: Low-profile head beneath sheathing; manufacturer's standard elsewhere.

F. Welding Electrodes: Comply with AWS standards.

2.7 MISCELLANEOUS MATERIALS

A. Galvanizing Repair Paint: ASTM A 780/A 780M.

B. Nonmetallic, Nonshrink Grout: Factory-packaged, nonmetallic, noncorrosive, nonstaining grout, complying with ASTM C 1107/C 1107M, and with a fluid consistency and 30-minute working time.

C. Shims: Load-bearing, high-density, multimonomer, nonleaching plastic; or cold-formed steel of same grade and metallic coating as framing members supported by shims.

D. Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch thick, selected from manufacturer's standard widths to match width of bottom track or rim track members as required.

2.8 FABRICATION

A. Fabricate cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened, according to referenced AISI's specifications and standards, manufacturer's written instructions, and requirements in this Section.

1. Fabricate framing assemblies using jigs or templates.
2. Cut framing members by sawing or shearing; do not torch cut.
3. Fasten cold-formed steel framing members by welding, screw fastening, clinch fastening, pneumatic pin fastening, or riveting as standard with fabricator. Wire tying of framing members is not permitted.

    a. Comply with AWS D1.3/D1.3M requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.
    b. Locate mechanical fasteners and install according to Shop Drawings, with screws penetrating joined members by no fewer than three exposed screw threads.

4. Fasten other materials to cold-formed steel framing by welding, bolting, pneumatic pin fastening, or screw fastening, according to Shop Drawings.

B. Reinforce, stiffen, and brace framing assemblies to withstand handling, delivery, and erection stresses. Lift fabricated assemblies by means that prevent damage or permanent distortion.

C. Tolerances: Fabricate assemblies level, plumb, and true to line to a maximum allowable variation of 1/8 inch in 10 feet and as follows:

1. Spacing: Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.
2. Squareness: Fabricate each cold-formed steel framing assembly to a maximum out-of-square tolerance of 1/8 inch.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, conditions, and abutting structural framing for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Before sprayed fire-resistive materials are applied, attach continuous angles, supplementary framing, or tracks to structural members indicated to receive sprayed fire-resistive materials.

B. After applying sprayed fire-resistive materials, remove only as much of these materials as needed to complete installation of cold-formed framing without reducing thickness of fire-resistive materials below that required to obtain fire-resistance ratings indicated. Protect remaining fire-resistive materials from damage.

C. Install load-bearing shims or grout between the underside of load-bearing wall bottom track and the top of foundation wall or slab at locations with a gap larger than 1/4 inch to ensure a uniform bearing surface on supporting concrete or masonry construction.

D. Install sealer gaskets at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.

3.3 INSTALLATION, GENERAL

A. Cold-formed steel framing may be shop or field fabricated for installation, or it may be field assembled.

B. Install cold-formed steel framing according to AISI S200, AISI S202, and manufacturer's written instructions unless more stringent requirements are indicated.

C. Install shop- or field-fabricated, cold-formed framing and securely anchor to supporting structure.

1. Screw, bolt, or weld wall panels at horizontal and vertical junctures to produce flush, even, true-to-line joints with maximum variation in plane and true position between fabricated panels not exceeding 1/16 inch.

D. Install cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.

1. Cut framing members by sawing or shearing; do not torch cut.

2. Fasten cold-formed steel framing members by welding, screw fastening, clinch fastening, or riveting. Wire tying of framing members is not permitted.

    a. Comply with AWS D1.3/D1.3M requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.
    b. Locate mechanical fasteners, install according to Shop Drawings, and comply with requirements for spacing, edge distances, and screw penetration.

E. Install framing members in one-piece lengths unless splice connections are indicated for track or tension members.

F. Install temporary bracing and supports to secure framing and support loads equal to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.

G. Do not bridge building expansion joints with cold-formed steel framing. Independently frame both sides of joints.

H. Install insulation, specified in Section 07210 "Building Insulation," in framing-assembly members, such as headers, sills, boxed joists, and multiple studs at openings, that are inaccessible on completion of framing work.

I. Fasten hole-reinforcing plate over web penetrations that exceed size of manufacturer's approved or standard punched openings.

3.4 LOAD-BEARING WALL INSTALLATION

A. Install continuous top and bottom tracks sized to match studs. Align tracks accurately and securely anchor at corners and ends, and at spacings as follows:

1. Anchor Spacing: As shown on Shop Drawings.

B. Squarely seat studs against top and bottom tracks, with gap not exceeding 1/8 inch between the end of wall-framing member and the web of track. Fasten both flanges of studs to top and bottom tracks. Space studs as follows:

1. Stud Spacing: As indicated on Drawings.

C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar configurations.

D. Align studs vertically where floor framing interrupts wall-framing continuity. Where studs cannot be aligned, continuously reinforce track to transfer loads.

E. Align floor and roof framing over studs according to AISI S200, Section C1. Where framing cannot be aligned, continuously reinforce track to transfer loads.

F. Anchor studs abutting structural columns or walls, including masonry walls, to supporting structure.

G. Install headers over wall openings wider than stud spacing. Locate headers above openings. Fabricate headers of compound shapes indicated or required to transfer load to supporting studs, complete with clip-angle connectors, web stiffeners, or gusset plates.

1. Frame wall openings with not less than a double stud at each jamb of frame. Fasten jamb members together to uniformly distribute loads.
2. Install tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with clip angles or by welding, and space jack studs same as full-height wall studs.

H. Install supplementary framing, blocking, and bracing in stud framing indicated to support fixtures, equipment, services, casework, heavy trim, furnishings, and similar work requiring attachment to framing.

1. If type of supplementary support is not indicated, comply with stud manufacturer's written recommendations and industry standards in each case, considering weight or load resulting from item supported.

I. Install horizontal bridging in stud system, spaced vertically as indicated on Shop Drawings. Fasten at each stud intersection.

1. Channel Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs with a minimum of two screws into each flange of the clip angle for framing members up to 6 inches deep.
2. Strap Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges, and secure solid blocking to stud webs or flanges.
3. Bar Bridging: Proprietary bridging bars installed according to manufacturer's written instructions.

J. Install steel sheet diagonal bracing straps to both stud flanges; terminate at and fasten to reinforced top and bottom tracks. Fasten clip-angle connectors to multiple studs at ends of bracing and anchor to structure.

K. Install miscellaneous framing and connections, including supplementary framing, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

3.5 ERECTION TOLERANCES

A. Install cold-formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet and as follows:

1. Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

3.6 FIELD QUALITY CONTROL

A. Testing: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.

B. Field and shop welds will be subject to testing and inspecting.

C. Testing agency will report test results promptly and in writing to Contractor and Architect.

D. Cold-formed steel framing will be considered defective if it does not pass tests and inspections.

E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.7 REPAIRS AND PROTECTION

A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed steel framing with galvanized repair paint according to ASTM A 780/A 780M and manufacturer's written instructions.

B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that cold-formed steel framing is without damage or deterioration at time of Substantial Completion.

END OF SECTION 05410

SECTION 07811 - SPRAYED FIRE-RESISTIVE MATERIALS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Concealed SFRM.

B. Related Sections include the following:

1. Division 5 Section "Structural Steel" for surface conditions required for structural steel receiving SFRM.
2. Division 7 Section "Building Insulation" for fire-safing insulation.
3. Division 7 Section "Through-Penetration Firestop Systems" for fire-resistance-rated firestopping systems.
4. Division 7 Section "Fire-Resistive Joint Systems" for fire-resistance-rated joint systems.

1.3 DEFINITIONS

A. SFRM: Sprayed fire-resistive material.

B. Concealed: Fire-resistive materials applied to surfaces that are concealed from view behind other construction when the Work is completed and have not been defined as exposed.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated, including insulation (R-value) of products.

B. Shop Drawings: Structural framing plans indicating the following:

1. Locations and types of surface preparations required before applying SFRM.
2. Extent of SFRM for each construction and fire-resistance rating, including the following:

a. Applicable fire-resistance design designations of a qualified testing and inspecting agency acceptable to authorities having jurisdiction.

1) For steel joist assemblies, include applicable fire-resistance design designations, with each steel joist tested with the same maximum tensile stress as each steel joist indicated on Drawings. Design designations with steel joists tested at lower maximum tensile stress than those indicated are not permitted.

b. Minimum thicknesses needed to achieve required fire-resistance ratings of structural components and assemblies.

3. Treatment of SFRM after application.

C. Product Certificates: For each type of SFRM, signed by product manufacturer.

D. Qualification Data: For Installer, manufacturer, professional engineer, and testing agency.

E. Manufacturer Letter: Verifying that the UL designs used for the project are not load restricted.

F. Compatibility and Adhesion Test Reports: From SFRM manufacturer indicating the following:

1. Materials have been tested for bond with substrates.
2. Materials have been verified by SFRM manufacturer to be compatible with substrate primers and coatings.
3. Interpretation of test results and written recommendations for primers and substrate preparation needed for adhesion.

G. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for proposed SFRM.

H. Field quality-control test reports.

I. Warranties: Special warranties specified in this Section.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: A firm or individual certified, licensed, or otherwise qualified by SFRM manufacturer as experienced and with sufficient trained staff to install manufacturer's products according to specified requirements. A manufacturer's willingness to sell its SFRM to Contractor or to an installer engaged by Contractor does not in itself confer qualification on the buyer.

B. Source Limitations: Obtain SFRM through one source from a single manufacturer.

C. SFRM Testing: By a qualified testing and inspecting agency engaged by Contractor or manufacturer to test for compliance with specified requirements for performance and test methods.

1. SFRMs are randomly selected for testing from bags bearing the applicable classification marking of UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
2. Testing is performed on specimens of SFRMs that comply with laboratory testing requirements specified in Part 2 and are otherwise identical to installed fire-resistive materials, including application of accelerant, sealers, topcoats, tamping, troweling, rolling, and water overspray, if any of these are used in final application.
3. Testing is performed on specimens whose application the independent testing and inspecting agency witnessed during preparation and conditioning. Include in test reports a full description of preparation and conditioning of laboratory test specimens.

D. Compatibility and Adhesion Testing: Engage a qualified testing and inspecting agency to test for compliance with requirements for specified performance and test methods.

1. Test for bond per ASTM E 736 and requirements in UL's "Fire Resistance Directory" for coating materials. Provide bond strength indicated in referenced fire-resistance design, but not less than minimum specified in Part 2.
2. Verify that manufacturer, through its own laboratory testing or field experience, has not found primers or coatings to be incompatible with SFRM.

E. Fire-Test-Response Characteristics: Provide SFRM with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify bags containing SFRM with appropriate markings of applicable testing and inspecting agency.

1. Fire-Resistance Ratings: Indicated by design designations from UL's "Fire Resistance Directory" acceptable to authorities having jurisdiction, for SFRM serving as direct-applied protection tested per ASTM E 119.

2. UL design listings must state that the loading was determined by Allowable Stress Design Method or Load and Resistance Factor Design Method. UL design listings requiring a load restriction factor are not allowed.

3. Surface-Burning Characteristics: ASTM E 84.

F. Provide products containing no detectable asbestos as determined according to the method specified in 40 CFR 763, Subpart E, Appendix E, Section 1, "Polarized Light Microscopy."

G. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to SFRM including, but not limited to, the following:

1. Review products, exposure conditions, design ratings, restrained and unrestrained conditions, calculations, densities, thicknesses, bond strengths, and other performance requirements.
2. Review and finalize construction schedule and verify sequencing and coordination requirements.
3. Review weather predictions, ambient conditions, and proposed temporary protections for SFRM during and after installation.
4. Review surface conditions and preparations.
5. Review field quality-control testing procedures.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to Project site in original, unopened packages with intact and legible manufacturers' labels identifying product and manufacturer, date of manufacture, shelf life if applicable, and fire-resistance ratings applicable to Project.

B. Use materials with limited shelf life within period indicated. Remove from Project site and discard materials whose shelf life has expired.

C. Store materials inside, under cover, and aboveground; keep dry until ready for use. Remove from Project site and discard wet or deteriorated materials.

1.7 PROJECT CONDITIONS

A. Environmental Limitations: Do not apply SFRM when ambient or substrate temperature is 40 deg F or lower unless temporary protection and heat are provided to maintain temperature at or above this level for 24 hours before, during, and for 24 hours after product application.

B. Ventilation: Ventilate building spaces during and after application of SFRM. Use natural means or, if they are inadequate, forced-air circulation until fire-resistive material dries thoroughly.

1.8 COORDINATION

A. Sequence and coordinate application of SFRM with other related work specified in other Sections to comply with the following requirements:

1. Provide temporary enclosure as required to confine spraying operations and protect the environment.
2. Provide temporary enclosures for applications to prevent deterioration of fire-resistive material due to exposure to weather and to unfavorable ambient conditions for humidity, temperature, and ventilation.
3. Avoid unnecessary exposure of fire-resistive material to abrasion and other damage likely to occur during construction operations subsequent to its application.
4. Do not apply fire-resistive material to metal roof deck substrates until concrete topping, if any, has been completed. For metal roof decks without concrete

topping, do not apply fire-resistive material to metal roof deck substrates until roofing has been completed; prohibit roof traffic during application and drying of fire-resistive material.

5. Do not apply fire-resistive material to metal floor deck substrates until concrete topping has been completed.
6. Do not begin applying fire-resistive material until clips, hangers, supports, sleeves, and other items penetrating fire protection are in place.
7. Defer installing ducts, piping, and other items that would interfere with applying fire-resistive material until application of fire protection is completed.
8. Do not install enclosing or concealing construction until after fire-resistive material has been applied, inspected, and tested and corrections have been made to defective applications.

1.9 WARRANTY

A. Special Warranty: Manufacturer's standard form, signed by Contractor and by Installer, in which manufacturer agrees to repair or replace SFRMs that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Cracking, flaking, spalling, or eroding in excess of specified requirements; peeling; or delaminating of SFRM from substrates.
b. Not covered under the warranty are failures due to damage by occupants and Owner's maintenance personnel, exposure to environmental conditions other than those investigated and approved during fire-response testing, and other causes not reasonably foreseeable under conditions of normal use.

2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CONCEALED SFRM

A. Basis-of-Design Product: Subject to compliance with requirements, provide Isolatek International Corp.; Cafco 300 or a comparable product by one of the following:

1. W.R. Grace Construction Products**.**

B. Material Composition: Manufacturer's standard product, as follows:

1. Concealed Sprayed-Cementitious Fire-Resistive Material: Factory-mixed, dry formulation complying with indicated fire-resistance design, and mixed with water at Project site to form a slurry or mortar before conveyance and application.

C. Physical Properties: Minimum values, unless otherwise indicated, or higher values required to attain designated fire-resistance ratings, measured per standard test methods referenced with each property as follows:

1. Thickness: Minimum average thickness required for fire-resistance design indicated according to the following criteria, but not less than 0.375 inch, per ASTM E 605:

   a. Where the referenced fire-resistance design lists a thickness of 1 inch or more, the minimum allowable individual thickness of SFRM is the design thickness minus 0.25 inch.
   b. Where the referenced fire-resistance design lists a thickness of less than 1 inch but more than 0.375 inch, the minimum allowable individual thickness of SFRM is the greater of 0.375 inch or 75 percent of the design thickness.
   c. No reduction in average thickness is permitted for those fire-resistance designs whose fire-resistance ratings were established at densities of less than 15 lb/cu. ft..

2. Bond Strength: 150 lbf/sq. ft. minimum per ASTM E 736 based on laboratory testing of 0.75-inch minimum thickness of SFRM.
3. Compressive Strength: 5.21 lbf/sq. in. minimum per ASTM E 761. Minimum thickness of SFRM tested shall be 0.75 inch and minimum dry density shall be as specified but not less than 15 lb/cu. ft..
4. Corrosion Resistance: No evidence of corrosion per ASTM E 937.
5. Deflection: No cracking, spalling, or delamination per ASTM E 759.
6. Effect of Impact on Bonding: No cracking, spalling, or delamination per ASTM E 760.
7. Air Erosion: Maximum weight loss of 0.025 g/sq. ft. in 24 hours per ASTM E 859. For laboratory tests, minimum thickness of SFRM is 0.75 inch, maximum dry density is 15 lb/cu. ft., test specimens are not prepurged by mechanically induced air velocities, and tests are terminated after 24 hours.
8. Fire-Test-Response Characteristics: Provide SFRM with the following surface-burning characteristics as determined by testing identical products per ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:

   a. Flame-Spread Index: 10 or less.
   b. Smoke-Developed Index: 0.

9. Fungal Resistance: No observed growth on specimens per ASTM G 21.

2.2 AUXILIARY FIRE-RESISTIVE MATERIALS

A. General: Provide auxiliary fire-resistive materials that are compatible with SFRM and substrates and are approved by UL or another testing and inspecting agency acceptable to authorities having jurisdiction for use in fire-resistance designs indicated.

B. Substrate Primers: For use on each substrate and with each sprayed fire-resistive product, provide primer that complies with one or more of the following requirements:

1. Primer's bond strength complies with requirements specified in UL's "Fire Resistance Directory" for coating materials based on a series of bond tests per ASTM E 736.
2. Primer is identical to those used in assemblies tested for fire-test-response characteristics of SFRM per ASTM E 119 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

C. Adhesive for Bonding Fire-Resistive Material: Product approved by manufacturer of SFRM.

D. Reinforcing Fabric: Glass- or carbon-fiber fabric of type, weight, and form required to comply with fire-resistance designs indicated; approved and provided by manufacturer of SFRM.

E. Reinforcing Mesh: Metallic mesh reinforcement of type, weight, and form required to comply with fire-resistance designs indicated; approved and provided by manufacturer of intumescent mastic coating fire-resistive material. Include pins and attachment.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrates and other conditions affecting performance of work. A substrate is in satisfactory condition if it complies with the following:

1. Substrates comply with requirements in the Section where the substrate and related materials and construction are specified.
2. Substrates are free of dirt, oil, grease, release agents, rolling compounds, mill scale, loose scale, incompatible primers, incompatible paints, incompatible encapsulants, or other foreign substances capable of impairing bond of fire-resistive materials with substrates under conditions of normal use or fire exposure.
3. Objects penetrating fire-resistive material, including clips, hangers, support sleeves, and similar items, are securely attached to substrates.
4. Substrates are not obstructed by ducts, piping, equipment, and other suspended construction that will interfere with applying fire-resistive material.

B. Verify that concrete work on steel deck has been completed.

C. Verify that roof construction, installation of roof-top HVAC equipment, and other related work are completed.

D. Conduct tests according to fire-resistive material manufacturer's written recommendations to verify that substrates are free of substances capable of interfering with bond.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Cover other work subject to damage from fallout or overspray of fire-resistive materials during application.

B. Clean substrates of substances that could impair bond of fire-resistive material, including dirt, oil, grease, release agents, rolling compounds, mill scale, loose scale, and incompatible primers, paints, and encapsulants.

C. Prime substrates where recommended in writing by SFRM manufacturer unless compatible shop primer has been applied and is in satisfactory condition to receive SFRM.

3.3 APPLICATION, GENERAL

A. Comply with fire-resistive material manufacturer's written instructions for mixing materials, application procedures, and types of equipment used to mix, convey, and spray on fire-resistive material, as applicable to particular conditions of installation and as required to achieve fire-resistance ratings indicated.

B. Apply SFRM that is identical to products tested as specified in Part 1 "Quality Assurance" Article and substantiated by test reports, with respect to rate of application, accelerator use, sealers, topcoats, tamping, troweling, water overspray, or other materials and procedures affecting test results.

C. Install reinforcing fabric, as required, to comply with fire-resistance ratings and fire-resistive material manufacturer's written recommendations for conditions of exposure and intended use. Securely attach fabric to substrate in position required for support and reinforcement of fire-resistive material. Use anchorage devices of type recommended in writing by SFRM manufacturer. Attach accessories where indicated or required for secure attachment of fabric to substrate.

D. Coat substrates with bonding adhesive before applying fire-resistive material where required to achieve fire-resistance rating or as recommended in writing by SFRM manufacturer for material and application indicated.

E. Extend fire-resistive material in full thickness over entire area of each substrate to be protected. Unless otherwise recommended in writing by SFRM manufacturer, install body of fire-resistive covering in a single course.

F. Spray apply fire-resistive materials to maximum extent possible. Following the spraying operation in each area, complete the coverage by trowel application or other placement method recommended in writing by SFRM manufacturer.

G. For applications over encapsulant materials, including lockdown (post-removal) encapsulants, apply SFRM that differs in color from that of encapsulant over which it is applied.

H. Where sealers are used, apply products that are tinted to differentiate them from SFRM over which they are applied.

I. Provide temporary weather protection of applications at exterior columns and decking, as required by the fireproofing manufacturer.

3.4 APPLICATION, CONCEALED SFRM

A. Apply concealed SFRM in thicknesses and densities not less than those required to achieve fire-resistance ratings designated for each condition, but apply in greater thicknesses and densities if specified in Part 2 "Concealed SFRM" Article.

B. Cure concealed SFRM according to product manufacturer's written recommendations.

C. Apply and conceal SFRM to all structural steel framing, metal decking and steel columns.

3.5 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a qualified special inspector to perform the following special inspection and prepare reports:

1. SFRM.

B. Testing Agency: Engage a qualified testing agency to perform tests and inspections and prepare test reports.

1. Testing and inspecting agency will interpret tests and state in each report whether tested work complies with or deviates from requirements.

C. Tests and Inspections: Testing and inspecting of completed applications of SFRM shall take place in successive stages, in areas of extent and using methods as follows. Do not proceed with application of SFRM for the next area until test results for previously completed applications of SFRM show compliance with requirements. Tested values must equal or exceed values indicated and required for approved fire-resistance design.

1. Thickness for Floor, Roof, and Wall Assemblies: For each 1000-sq. ft. area, or partial area, on each floor, from the average of 4 measurements from a 144-sq. in. sample area, with sample width of not less than 6 inches per ASTM E 605.
2. Thickness for Structural Frame Members: From a sample of 25 percent of structural members per floor, taking 9 measurements at a single cross section for structural frame beams or girders, 7 measurements of a single cross section for joists and trusses, and 12 measurements of a single cross section for columns per ASTM E 605.
3. Density for Floors, Roofs, Walls, and Structural Frame Members: At frequency and from sample size indicated for determining thickness of each type of construction and structural framing member, per ASTM E 605 or AWCI Technical Manual 12-A, Section 5.4.5, "Displacement Method."
4. Bond Strength for Floors, Roofs, Walls, and Structural Framing Members: For each 2,000-sq. ft. area, or partial area, on each floor, cohesion and adhesion

from one sample of size indicated for determining thickness of each type of construction and structural framing member, per ASTM E 736.

a. Field test SFRM that is applied to flanges of wide-flange, structural-steel members on surfaces matching those that will exist for remainder of steel receiving fire-resistive material.
b. If surfaces of structural steel receiving SFRM are primed or otherwise painted for coating materials, perform series of bond tests specified in UL's "Fire Resistance Directory." Provide bond strength indicated in referenced UL fire-resistance criteria, but not less than 150 lb/sq. ft. minimum per ASTM E 736.

5. If testing finds applications of SFRM are not in compliance with requirements, testing and inspecting agency will perform additional random testing to determine extent of noncompliance.

D. Remove and replace applications of SFRM that do not pass tests and inspections for cohesion and adhesion, for density, or for both and retest as specified above.

E. Apply additional SFRM, per manufacturer's written instructions, where test results indicate that thickness does not comply with specified requirements, and retest as specified above.

3.6 CLEANING, PROTECTING, AND REPAIR

A. Cleaning: Immediately after completing spraying operations in each containable area of Project, remove material overspray and fallout from surfaces of other construction and clean exposed surfaces to remove evidence of soiling.

B. Protect SFRM, according to advice of product manufacturer and Installer, from damage resulting from construction operations or other causes so fire protection will be without damage or deterioration at time of Substantial Completion.

C. Coordinate application of SFRM with other construction to minimize need to cut or remove fire protection. As installation of other construction proceeds, inspect SFRM and patch any damaged or removed areas.

D. Repair or replace work that has not successfully protected steel.

3.7 FIRE RATING SCHEDULE

A. FIRE RATING SCHEDULE – TYPE 2A CONSTRUCTION

Fire-Resistance Rating (time in hours) schedule shall be as follows:

Structural Component	**Hourly Rating Requirement**	**Design Reference**[3]
Columns (Wide Flange)	1 hr.	X854
Columns (Tube/Pipe – Std/Med Density)	1 hr.	Y710
Columns (Tube/Pipe – High Density)	1 hr.	X854
Roof deck[1] (insulation on metal deck)	1 hr.	P732 [4]
Roof joists[1]	1 hr.	S749
Roof beams[1]	1 hr.	S750
Roof deck[1] (lightweight insulating concrete)	1 hr.	P936 [4]
Roof joists[1]	1 hr.	S749
Roof beams[1]	1 hr.	S750
Floor Deck (metal deck w/enough concrete)	1 hr.	D985
Floor beams	1 hr.	N852
Floor joists	1 hr.	N854
Floor Deck (metal deck w/fireproofing)	1 hr.	D798
Primary floor beams	1 hr.	N852
Floor joists	1 hr.	N854

Note:

B. Where entire roof assembly is more than 20 feet above finished floor, the roof deck and secondary members need not be rated.

C UL design listings for beams and joists must state that the loading was determined by Allowable Stress Design Method or Load and Resistance Factor Design Method. UL designs requiring a load restriction factor shall not be used.

D. UL design listings for beams and joists must state that the loading was determined by Allowable Stress Design Method or Load and Resistance Factor Design Method. UL designs requiring a load restriction factor shall not be used.

E. UL substitution rules allow for the substitution on non-load restricted beam and joist designs into roof assemblies that were tested using WSD. Due to the fact that roof decks do not have load restriction factors in UL's Load Restriction Factor tables, the assemblies will be non-load restricted as long as all beam and joist thicknesses are based on non-load restricted UL Designs.

F. In case of discrepancy, all substitutions must comply with the guidelines as outlined in Underwriters Laboratories Fire Resistance Directory the fireproofing requirement of the Florida Building Cod and Fire Prevention Codes, latest edition.

END OF SECTION 07811

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SECTION 08450 - ALL-GLASS ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Interior all-glass entrance systems.
2. Interior all-glass storefront systems.

B. Related Sections include the following:

1. Division 7 Section "Joint Sealants" for joint sealants installed at interface of all-glass systems and other building components.
2. Division 8 Section "Aluminum Entrances and Storefronts" for storefront systems that incorporate all-glass entrances.
3. Division 8 Section "Door Hardware" for lock cylinders installed in all-glass entrance locksets.
4. Division 8 Section "Interior Glazing" for additional glazing requirements.

1.3 PERFORMANCE REQUIREMENTS

A. Provide systems, including anchorage, capable of withstanding loads indicated without structural failure, deflection exceeding specified limit, support components transferring stresses to glazing, and glazing-to-glazing or glazing-to-support contact as determined by structural analysis.

1. Structural Loads:

a. Wind Load: None-Interior door only.
b. Seismic Load: None.

2. Deflection Normal to Glazing Plane: Limited to 1/175 of clear span or 3/4 inch, whichever is smaller.

1.4 SUBMITTALS

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: Show fabrication and installation details, including the following:

1. Plans, elevations, and sections.
2. Details of fittings and glazing.
3. Hardware quantities, locations, and installation requirements.
4. For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

C. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.

1. Metal Finishes: 6-inch- long sections of patch fittings, rails, and other items.
2. Glass: 6 inches square, showing exposed-edge finish.

D. Qualification Data: For professional engineer.

1.5 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with all-glass systems by field measurements before fabrication and indicate measurements on Shop Drawings.

1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating all-glass systems without field measurements. Coordinate wall and other contiguous construction to ensure that actual dimensions correspond to established dimensions.

1.6 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of all-glass systems that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following:

1. Structural failures.
2. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
3. Failure of operating components to function normally.

B. Warranty Period: Two (2) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. ACI Distribution.
2. Arch Aluminum & Glass Co., Inc.
3. Blumcraft of Pittsburgh.
4. Guardian Industries Corp./Float Glass Division.
5. Virginia Glass Products Corp.

2.2 MATERIALS

A. Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated surfaces), Type I (transparent), tested for surface and edge compression per ASTM C 1048 and for impact strength per 16 CFR 1201 for Category II materials.

1. Class 1: Clear.

a. Thickness: 1/2 inch.
b. Locations: As indicated.

2. Exposed Edges: Flat polished.
3. Butt Edges: Flat ground.
4. Corner Edges: Mitered.

B. Aluminum: ASTM B 221, with strength and durability characteristics of not less than alloy 6063-T5.

2.3 COMPONENTS

A. Patch Fittings: Aluminum.

B. Floating Transom Bar: Steel, clad in metal matching fittings, and in size recommended by manufacturer for application indicated. Include stainless-steel support rods, lateral adjustment, and ceiling channel.

1. Fully concealed at drywall header.

C. Sidelight Channels: Recessed head and sill channels for concealed sidelight and transom-head support.

D. Rails:

1. Material: Aluminum.
2. Height: As indicated.
3. Style: Tapered top.

4. Locations: As indicated.

E. Accessory Fittings: Match metal and finish for the following:

1. Overhead doorstop.
2. Glass-support-fin brackets.

F. Anchors and Fastenings: Concealed.

G. Weather Stripping: Sweep type.

2.4 HARDWARE

A. General: Heavy-duty hardware units in sizes, quantities, and types recommended by manufacturer for all-glass entrances indicated. For exposed parts, match fitting metal and finish.

B. Concealed/Fully Recessed Floor Closers and Top Pivots: Center hung; BHMA A156.4, Grade 1; including cases, bottom arms, top walking beam pivots, plates, and accessories required for complete installation.

1. Swing: Single acting.

a. Positive Dead Stop: Coordinated with hold-open angle, if any, or at angle selected.

2. Hold Open: Automatic, at angle selected.
3. Delayed-Action Closing: Comply with requirements of authorities having jurisdiction or the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)," whichever are more stringent.
4. Maximum Opening Force:

a. Exterior Doors: 15 lbf.
b. Interior Doors: 5 lbf.

C. Concealed Overhead Holder: BHMA A156.8, Grade 1, with dead-stop setting coordinated with concealed floor closer.

D. Push-Pull Set: Ives-Tubular Series-8169, offset pull, at each door leaf and at both sides of each door; satin nickel finish, 619.

E. Single-Door and Active-Leaf Locksets: Center-housing deadbolt with pulls.

1. Deadbolt operated by key outside and thumb turn inside.

F. Inactive-Leaf Locksets: Bottom-fitting or bottom-rail deadbolt.

1. Deadbolt operated by key outside and thumb turn inside.

G. Cylinders: As specified in Division 8 Section "Door Hardware."

H. Exit Devices: UL 305.

1. Function: Operation by push-pull when inside operator is locked down (dogged); outside operation by key.
2. Latching: At threshold or floor plate.
3. Style: Concealed vertical rod in housing style indicated.
4. Provide exit devices on both leaves of pairs of doors.

I. Threshold: Not more than 1/2 inch high with beveled edges providing floor-level change with slope of not more than 1:2.

1. Material: Aluminum, mill finish.

2.5 FABRICATION

A. Provide holes and cutouts in glass to receive hardware, fittings, rails, and accessories before tempering glass. Do not cut, drill, or make other alterations to glass after tempering.

1. Fully temper glass using horizontal (roller-hearth) process and fabricate so, when installed, roll-wave distortion is parallel with bottom edge of door or lite.
2. Factory assemble components and factory install hardware to greatest extent possible.

2.6 ALUMINUM FINISHES

A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

C. Class I, Color Anodic Finish: AA-M12C22A42/A44 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, integrally colored or electrolytically deposited color coating 0.018 mm or thicker) complying with AAMA 611.

1. Color: As selected by Architect from the full range of industry colors and color densities.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install all-glass systems and associated components according to manufacturer's written instructions.

B. Set units level and plumb.

C. Maintain uniform clearances between adjacent components.

D. Lubricate hardware and other moving parts according to manufacturer's written instructions.

E. Set, seal, and grout floor closer cases as required to suit hardware and substrate indicated.

3.3 ADJUSTING AND CLEANING

A. Adjust doors and hardware to produce smooth operation and tight fit at contact points and weather stripping.

B. Remove excess sealant and glazing compounds and dirt from surfaces.

END OF SECTION 08450

SECTION 08830 – MIRRORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes silvered safety (tempered) mirrored glass.

1.3 DEFINITIONS

A. Deterioration of Silvered Mirrored Glass: Defects developed from normal use that are attributable to the manufacturing process and not to causes other than glass breakage and practices for maintaining and cleaning silvered mirrored glass contrary to mirrored glass manufacturer's written instructions. Defects include discoloration, black spots, and clouding of the silver film.

B. Metal-framed mirror units are specified in Division 1 Section “Toilet and Bath Accessories.”

1.4 PERFORMANCE REQUIREMENTS

A. Provide mirrored glass that will not fail under normal usage. Failure includes glass breakage and deterioration attributable to defective manufacture, fabrication, and installation.

1.5 SUBMITTALS

A. Submit in accordance with Division 1 Section “Submittal Procedures.”

B. Product Data: For the following:

1. Silvered mirrored glass. Include description of materials that indicates source of glass, glass coating components, edge sealer, and quality-control provisions.

2. Mirror mastic.

3. Mirror hardware.

D. Shop Drawings: Include elevations, sections, details, and attachments to other Work.

E. Samples for verification of each type of mirrored glass specified, 12 inches square in size, including edge treatment on 2 adjoining edges of samples.

F. Mirror Mastic Glass Coating Compatibility Test Reports: From an organic protective coating manufacturer indicating that mirror mastic has been tested for compatibility and adhesion with organic protective coating applied to silvered mirrored glass.

G. Warranties: Special warranties specified in this Section.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who has completed mirrored glass installations similar in material, design, and extent to that indicated for Project and whose work has resulted in construction with a record of successful in-service performance.

B. Glazing Publications: Comply with published recommendations in GANA's "Glazing Manual," unless more stringent requirements are indicated. Refer to this publication for definitions of glass and glazing terms not otherwise defined in this Section or in referenced standards.

C. NAAMM's Publication: For silvered mirrored glass, comply with recommendations in NAAMM's "Mirrors, Handle with Extreme Care, Tips for the Professional on the Care and Handling of Mirrors."

D. Safety Glass: Category II materials complying with testing requirements in 16 CFR 1201 and ANSI Z97.1.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Refer to Division 1 Section “Product Requirements” for storage and protection.

B. Protect glazing materials according to mirrored glass manufacturer's written instructions and as needed to prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

C. For silvered mirrored glass, comply with mirrored glass manufacturer's written instructions for shipping, storing, and handling mirrored glass as needed to prevent deterioration of silvering, damage to edges, and abrasion of glass surfaces and applied coatings. Store indoors, protected from moisture including condensation.

1.8 PROJECT CONDITIONS

A. Environmental Limitations: Do not install mirrored glass until ambient temperature and humidity conditions are maintained at levels indicated for final occupancy.

1.9 WARRANTY

A. Manufacturer's Special Warranty for Silvered Mirrored Glass: Written warranty, made out to Owner and signed by mirrored glass manufacturer agreeing to replace silvered mirrored glass units that deteriorate as defined in "Definitions" Article within specified warranty period indicated below:

1. Warranty Period: Three (3) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. American Mirror Company, Inc.

2. Donisi Mirror Company.

3. Gardner Glass Products.

4. Virginia Mirror Co., Inc.

5. VVP America, Inc.; Binswanger Mirror Products.

6. Walker Glass Co., Ltd.

7. Guardian Industries.

2.2 MIRRORED GLASS

A. Silvered Mirrored Glass: Tempered, clear float glass with successive layers of chemically deposited silver, electrically or chemically deposited copper, and manufacturer's standard organic protective coating applied to second glass surface to produce a coating system complying with FS DD-M-411.

1. Provide mirrored glass in sizes and locations shown.

2.3 FABRICATION

A. Mirrored Glass Sizes: Cut mirrored glass to final sizes and shapes to suit Project conditions.

B. Cutouts: Fabricate cutouts for notches and holes in mirrored glass without marring visible surfaces. Locate and size cutouts so they fit closely around penetrations in mirrored glass.

C. Mirrored Glass Edge Treatment: Treat edges as indicated below.

3. Beveled polished edge of width 3/4” from exposed edge.

4. Perform edge treatment and sealing in factory immediately after cutting to final sizes.

5. Seal edges of silvered mirrored glass after edge treatment to prevent chemical or atmospheric penetration of glass coating.

2.4 MISCELLANEOUS MATERIALS

A. Setting Blocks: Neoprene, 70 - 90 Shore A hardness.

B. Edge Sealer: Coating compatible with glass coating and approved by mirrored glass manufacturer for use in protecting against silver deterioration at mirrored glass edges.

C. Mirror Mastic: An adhesive setting compound, produced specifically for setting mirrored glass by spot application, certified by both mirrored glass manufacturer and mastic manufacturer as compatible with glass coating and substrates on which mirrored glass will be installed.

D. Fasteners: Fabricated of same basic metal and alloy as fastened metal and matching it in finished color and texture where fasteners are exposed.

E. Anchors and Inserts: Provide devices as required for mirror hardware installation. Provide toothed or lead-shield expansion-bolt devices for drilled-in-place anchors. Provide galvanized anchors and inserts for applications on inside face of exterior walls and where indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, over which mirrored glass units are to be mounted, with Installer present, for compliance with installation tolerances, substrate preparation, and other conditions affecting performance.

1. Verify compatibility with and suitability of substrates, including compatibility of mirror mastic with existing finishes or primers.

2. Proceed with mirrored glass installation only after unsatisfactory conditions have been corrected and surfaces are dry.

3.2 PREPARATION

A. Comply with mastic manufacturer's written installation instructions for preparation of substrates, including coating surfaces with mastic manufacturer's special bond coating where applicable.

3.3 GLAZING

A. General: Install mirrored glass units to comply with written instructions of mirrored glass manufacturer and with referenced GANA and NAAMM publications. Mount mirrored glass accurately in place in a manner that avoids distorting reflected images.

B. Provide space for air circulation between back of mirrored glass units and face of mounting surface.

C. Mastic Spot Installation System: Install mirrored glass units with mastic as follows:

1. Apply mastic in spots to comply with mastic manufacturer's written instructions for coverage and to allow air circulation between back of mirrored glass units and face of mounting surface.

2. After mastic is applied, align mirrored glass units and press into place while maintaining a minimum air space of 1/8 inch (3 mm) between back of mirrored glass and mounting surface.

D. For wall-mounted mirrored glass units, install permanent means of support at bottom and top edges with bottom support designed to withstand mirrored glass weight and top support designed to prevent mirrored glass from coming away from wall along top edges.

1. Attach mirror hardware securely to mounting surfaces with mechanical fasteners installed with anchors or inserts as applicable. Install fasteners so heads do not impose point loads on backs of mirrored glass units.

2. For metal or plastic clips, place a felt or plastic pad between mirrored glass and each clip to prevent spalling of mirrored glass edges.

3. Where indicated, install bottom side and top wood trim. Fabricate trim in single lengths to fit and cover top and bottom edges of mirrored glass units. Miter corners.

4. Install bottom trim and top clips. Fabricate bottom trim in single lengths to fit and cover bottom edge of mirrored glass units. Locate top clipsspaced uniformly.

3.4 PROTECTION AND CLEANING

A. Protect mirrored glass from breakage and contaminating substances resulting from construction operations.

1. Do not permit edges of silvered mirrored glass to be exposed to standing water.

2. Maintain environmental conditions that will prevent silvered mirrored glass from being exposed to moisture from condensation or other sources for continuous periods of time.

B. Wash mirrored glass not more than four days before date scheduled for inspections intended to establish date for Substantial Completion. Wash mirrored glass by methods recommended in NAAMM publication and in writing by mirrored glass manufacturer. Use water and glass cleaners free from substances capable of damaging mirrored glass edges or coatings.

END OF SECTION 08830

SECTION 283111 - DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Fire-alarm control Panel.
2. Manual fire-alarm boxes.
3. System smoke detectors.
4. Heat detectors.
5. Notification appliances.
6. Remote annunciator.
7. Addressable interface device.
8. Digital alarm communicator transmitter

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product, including furnished options and accessories.

B. Shop Drawings: For fire-alarm system.

1. Comply with recommendations and requirements in the "Documentation" section of the "Fundamentals" chapter in NFPA 72.
2. Include plans, elevations, sections, details, and attachments to other work.
3. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and locations. Indicate conductor sizes, indicate termination locations and requirements, and distinguish between factory and field wiring.
4. Detail assembly and support requirements.
5. Include voltage drop calculations for notification-appliance circuits.
6. Include battery-size calculations.
7. Include input/output matrix.
8. Include statement from manufacturer that all equipment and components have been tested as a system and meet all requirements in this Specification and in NFPA 72.
9. Include performance parameters and installation details for each detector.
10. Verify that each duct detector is listed for complete range of air velocity, temperature, and humidity possible when air-handling system is operating.
11. Include plans, sections, and elevations of heating, ventilating, and air-conditioning ducts, drawn to scale; coordinate location of duct smoke detectors and access to them.

    a. Show critical dimensions that relate to placement and support of sampling tubes, detector housing, and remote status and alarm indicators.

b. Show field wiring required for HVAC unit shutdown on alarm.
c. Locate detectors according to manufacturer's written recommendations.

12. Include floor plans to indicate final outlet locations showing address of each addressable device. Show size and route of cable and conduits and point-to-point wiring diagrams.

C. General Submittal Requirements:

1. Submittals shall be approved by authorities having jurisdiction prior to submitting them to Architect.
2. Shop Drawings shall be prepared by persons with the following qualifications:

a. Trained and certified by manufacturer in fire-alarm system design.
b. NICET-certified, fire-alarm technician; Level III minimum.
c. Licensed or certified by authorities having jurisdiction.

D. Delegated-Design Submittal: For notification appliances and smoke and heat detectors, in addition to submittals listed above, indicate compliance with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1. Drawings showing the location of each notification appliance and smoke and heat detector, ratings of each, and installation details as needed to comply with listing conditions of the device.
2. Design Calculations: Calculate requirements for selecting the spacing and sensitivity of detection, complying with NFPA 72. Calculate spacing and intensities for strobe signals and sound-pressure levels for audible appliances.
3. Indicate audible appliances required to produce square wave signal per NFPA 72.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Seismic Qualification Certificates: For fire-alarm control unit, accessories, and components, from manufacturer.

C. Field quality-control reports.

D. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For fire-alarm systems and components to include in , operation, and maintenance manuals.

1. Operation and Maintenance Data, include the following:

a. Complete wiring diagrams showing connections between all devices and equipment.
b. Riser diagram.
c. Record copy of site-specific software if applicable.
d. Provide "Inspection and Testing Form" according to the "Inspection, Testing and Maintenance" chapter in NFPA 72, and include the following:

1) Equipment tested.
2) Frequency of testing of installed components.
3) Frequency of inspection of installed components.
4) Requirements and recommendations related to results of maintenance.
5) Manufacturer's user training manuals.

e. Manufacturer's required maintenance related to system warranty requirements.
f. Abbreviated operating instructions for mounting at fire-alarm control unit and each annunciator unit.

B. Software and Firmware Operational Documentation:

1. Software operating and upgrade manuals.
2. Device address list.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project.

B. Installer Qualifications: Installation shall be by personnel certified by NICET as fire-alarm Level II technician.

1.6 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace fire-alarm system equipment and components that fail in materials or workmanship within specified warranty period.

1. Warranty Extent: All equipment and components not covered in the Maintenance Service Agreement.
2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

A. Provide system manufacturer's certification that all components provided have been tested as, and will operate as, a system.

B. Noncoded, UL-certified addressable system, with multiplexed signal transmission and horn/strobe evacuation.

C. Automatic sensitivity control of certain smoke detectors.

D. All components provided shall be listed for use with the selected system.

E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 SYSTEMS OPERATIONAL DESCRIPTION

A. Fire-alarm signal initiation shall be by one or more of the following devices and/or systems:

1. Manual stations.
2. Heat detectors.
3. Smoke detectors.
4. Duct smoke detectors.

B. Fire-alarm signal shall initiate the following actions:

1. Continuously operate alarm notification appliances.
2. Identify alarm and specific initiating device at fire-alarm control unit
3. Transmit an alarm signal to the remote alarm receiving station.
4. Switch heating, ventilating, and air-conditioning equipment controls to fire-alarm mode.
5. Close smoke dampers in air ducts of designated air-conditioning duct systems.

C. System trouble signal initiation shall be by one or more of the following devices and actions:

1. Open circuits, shorts, and grounds in designated circuits.
2. Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
3. Loss of communication with any addressable sensor, input module, relay, control module, or remote annunciator.
4. Loss of primary power at fire-alarm control unit.
5. Ground or a single break in internal circuits of fire-alarm control unit.
6. Abnormal ac voltage at fire-alarm control unit.

7. Break in standby battery circuitry.
8. Failure of battery charging.
9. Abnormal position of any switch at fire-alarm control unit or annunciator.

D. System Supervisory Signal Actions:

1. Initiate notification appliances.
2. Identify specific device initiating the event at fire-alarm control unit.
3. After a time delay of 200 seconds, transmit a trouble or supervisory signal to the remote alarm receiving station.

2.3 PERFORMANCE REQUIREMENTS

A. Seismic Performance: Fire-alarm control unit and raceways shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.

1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."

2.4 FIRE-ALARM CONTROL UNIT

A. Acceptable Manufacturers:

1. Basis of design is EST brand by a Strategic Partner of GE Security www.gesecurity.com;
2. Gamewell-FCI-Fire Control Instruments brand of Honeywell, only as furnished by a Platinum Associate Engineered Systems Distributor (ESD) www.gamewell-fci.com;
3. Notifier brand from Notifier-A Honeywell company, only as furnished by a NESCO Affiliate/Notifier Engineered Systems Company or a Notifier Engineered Systems Distributor (ESD) www.notifier.com;
4. Fire Safety Division of Siemens Building Technologies www.us.sbt.siemens.com/fis (former Cerberus Pyrotronics);
5. SimplexGrinnell brand from Tyco Fire & Security (www.simplexgrinnell.com).
6. Johnson Controls IFC Series www.johnsoncontrols.com.

B. General Requirements for Fire-Alarm Control Unit:

1. Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864.
2. Addressable Initiation Device Circuits: The FACP shall indicate which communication zones have been silenced and shall provide selective silencing of alarm notification appliance by building communication zone.
3. Addressable Control Circuits for Operation of Notification Appliances and Mechanical Equipment: The FACP shall be listed for releasing service.

a. Alphanumeric Display and System Controls: Arranged for interface between human operator at fire-alarm control unit and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.

b. Initiating-Device, Notification-Appliance, and Signaling-Line Circuits:

1) Pathway Class Designations: NFPA 72, Class B
2) Pathway Survivability: Level 0

c. Notification-Appliance Circuit:

1) Audible appliances shall sound in a three-pulse temporal pattern, as defined in NFPA 72.
2) Where notification appliances provide signals to sleeping areas, the alarm signal shall be a 520-Hz square wave with an intensity 15 dB above the average ambient sound level or 5 dB above the maximum sound level, or at least 75 dBA, whichever is greater, measured at the pillow.
3) Visual alarm appliances shall flash in synchronization where multiple appliances are in the same field of view, as defined in NFPA 72.

d. Remote Smoke-Detector Sensitivity Adjustment: Controls shall select specific addressable smoke detectors for adjustment, display their current status and sensitivity settings, and change those settings. Allow controls to be used to program repetitive, time-scheduled, and automated changes in sensitivity of specific detector groups. Record sensitivity adjustments and sensitivity-adjustment schedule changes in system memory.

e. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station.

f. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, trouble signals, supervisory and digital alarm communicator transmitters shall be powered by 24-V dc source.

1) Alarm current draw of entire fire-alarm system shall not exceed 80 percent of the power-supply module rating.

g. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.

h. Voice/Alarm Signaling Service: Central emergency communication system with redundant microphones, preamplifiers, amplifiers, and tone generators provided as a special module that is part of fire-alarm control unit.

1) Indicate number of alarm channels for automatic, simultaneous transmission of different announcements to different zones or for manual transmission of announcements by use of the central-control microphone. Amplifiers shall comply with UL 1711.

   (a) Allow the application of, and evacuation signal to, indicated number of zones and, at the same time, allow voice paging to the other zones selectively or in any combination.
   (b) Programmable tone and message sequence selection.
   (c) Standard digitally recorded messages for "Evacuation" and "All Clear."
   (d) Generate tones to be sequenced with audio messages of type recommended by NFPA 72 and that are compatible with tone patterns of notification-appliance circuits of fire-alarm control unit.

2) Status Annunciator: Indicate the status of various voice/alarm speaker zones and the status of firefighters' two-way telephone communication zones.
3) Preamplifiers, amplifiers, and tone generators shall automatically transfer to backup units, on primary equipment failure.

2.5 MANUAL FIRE-ALARM BOXES

A. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38.

1. Single-action mechanism pull-level type; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.
2. Station Reset: Key- or wrench-operated switch.

2.6 SYSTEM SMOKE DETECTORS

A. General Requirements for System Smoke Detectors:

1. Comply with UL 268; operating at 24-V dc, nominal.
2. Detectors shall be four-wire type.
3. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to fire-alarm control unit.
4. Base Mounting: Detector and associated electronic components shall be mounted in a twist-lock module that connects to a fixed base. Provide terminals in the fixed base for connection to building wiring.
5. Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore them to normal operation.
6. Integral Visual-Indicating Light: LED type, indicating detector has operated and power-on status.

7. Remote Control: Unless otherwise indicated, detectors shall be digital-addressable type, individually monitored at fire-alarm control unit for calibration, sensitivity, and alarm condition and individually adjustable for sensitivity by fire-alarm control unit.

    a. Rate-of-rise temperature characteristic of combination smoke- and heat-detection units shall be selectable at fire-alarm control unit for 15 or 20 deg F per minute.
    b. Fixed-temperature sensing characteristic of combination smoke- and heat-detection units shall be independent of rate-of-rise sensing and shall be settable at fire-alarm control unit to operate at 135 or 155 deg F.
    c. Multiple levels of detection sensitivity for each sensor.
    d. Sensitivity levels based on time of day.

B. Ionization Smoke Detector:

1. Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.
2. An operator at fire-alarm control unit, having the designated access level, shall be able to manually access the following for each detector:

    a. Primary status.
    b. Device type.
    c. Present average value.
    d. Present sensitivity selected.
    e. Sensor range (normal, dirty, etc.)

C. Duct Smoke Detectors: Photoelectric type complying with UL 268A.

1. Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.
2. An operator at fire-alarm control unit, having the designated access level, shall be able to manually access the following for each detector:

    a. Primary status.
    b. Device type.
    c. Present average value.
    d. Present sensitivity selected.
    e. Sensor range (normal, dirty, etc.).

3. Weatherproof Duct Housing Enclosure: NEMA 250, Type 4X; NRTL listed for use with the supplied detector for smoke detection in HVAC system ducts.
4. Each sensor shall have multiple levels of detection sensitivity.
5. Sampling Tubes: Design and dimensions as recommended by manufacturer for specific duct size, air velocity, and installation conditions where applied.
6. Relay Fan Shutdown: Fully programmable relay rated to interrupt fan motor-control circuit.

2.7 HEAT DETECTORS

A. General Requirements for Heat Detectors: Comply with UL 521.

1. Temperature sensors shall test for and communicate the sensitivity range of the device.

B. Heat Detector, Combination Type: Actuated by either a fixed temperature or a rate of rise.

1. Mounting: Twist-lock base interchangeable with smoke-detector bases .
2. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to fire-alarm control unit.

2.8 NOTIFICATION APPLIANCES

A. General Requirements for Notification Appliances: Connected to notification-appliance signal circuits, zoned as indicated, equipped for mounting as indicated, and with screw terminals for system connections.

1. Combination Devices: Factory-integrated audible and visible devices in a single-mounting assembly, equipped for mounting as indicated, and with screw terminals for system connections.

B. Horns: Electric-vibrating-polarized type, 24-Vdc; with provision for housing the operating mechanism behind a grille. Comply with UL 464.

C. Visible Notification Appliances: Xenon strobe lights complying with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch- high letters on the lens.

1. Mounting: Wall mounted unless otherwise indicated.
2. Flashing shall be in a temporal pattern, synchronized with other units.
3. Strobe Leads: Factory connected to screw terminals.
4. Mounting Faceplate: Factory finished, red

2.9 ADDRESSABLE INTERFACE DEVICE

A. General:

1. Include address-setting means on the module.
2. Store an internal identifying code for control panel use to identify the module type.
3. Listed for controlling HVAC fan motor controllers.

B. Monitor Module: Microelectronic module providing a system address for alarm-initiating devices for wired applications with normally open contacts.

C. Integral Relay: Capable of providing a direct signal to circuit-breaker shunt trip for power shutdown

1. Allow the control panel to switch the relay contacts on command.
2. Have a minimum of two normally open and two normally closed contacts available for field wiring.

D. Control Module:

1. Operate notification devices.

2.10 DIGITAL ALARM COMMUNICATOR TRANSMITTER

A. Digital alarm communicator transmitter shall be acceptable to the remote central station and shall comply with UL 632.

B. Functional Performance: Unit shall receive an alarm, supervisory, or trouble signal from fire-alarm control unit and automatically capture two telephone line(s) and dial a preset number for a remote central station. When contact is made with central station(s), signals shall be transmitted. If service on either line is interrupted for longer than 45 seconds, transmitter shall initiate a local trouble signal and transmit the signal indicating loss of telephone line to the remote alarm receiving station over the remaining line. Transmitter shall automatically report telephone service restoration to the central station. If service is lost on both telephone lines, transmitter shall initiate the local trouble signal.

C. Local functions and display at the digital alarm communicator transmitter shall include the following:

1. Verification that both telephone lines are available.
2. Programming device.
3. LED display.
4. Manual test report function and manual transmission clear indication.
5. Communications failure with the central station or fire-alarm control unit.

D. Digital data transmission shall include the following:

1. Address of the alarm-initiating device.
2. Address of the supervisory signal.
3. Address of the trouble-initiating device.
4. Loss of ac supply.
5. Loss of power.
6. Low battery.
7. Abnormal test signal.
8. Communication bus failure.

E. Secondary Power: Integral rechargeable battery and automatic charger.

PART 3 - EXECUTION

3.1 EQUIPMENT INSTALLATION

A. Comply with NFPA 72, NFPA 101, and requirements of authorities having jurisdiction for installation and testing of fire-alarm equipment. Install all electrical wiring to comply with requirements in NFPA 70 including, but not limited to, Article 760, "Fire Alarm Systems."

B. Connecting to Existing Equipment: Verify that existing fire-alarm system is operational before making changes or connections.

C. Equipment Mounting: Install fire-alarm control unit on finished floor.

D. Install wall-mounted equipment, with tops of cabinets not more than 78 inches above the finished floor.

E. Manual Fire-Alarm Boxes:

1. Install manual fire-alarm box in the normal path of egress within 60 inches of the exit doorway.
2. Mount manual fire-alarm box on a background of a contrasting color.
3. The operable part of manual fire-alarm box shall be between 42 inches and 48 inches above floor level. All devices shall be mounted at the same height unless otherwise indicated.

    a. Smoke- or Heat-Detector Spacing: Comply with NFPA 72.

    b. Duct Smoke Detectors: Comply with NFPA 72 and NFPA 90A. Install sampling tubes so they extend the full width of duct. Tubes more than 36 inches long shall be supported at both ends.

    c. Audible Alarm-Indicating Devices: Install not less than 6 inches below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille. Install all devices at the same height unless otherwise indicated.

    d. Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at least 6 inches below the ceiling. Install all devices at the same height unless otherwise indicated.

    e. Device Location-Indicating Lights: Locate in public space near the device they monitor.

3.2 PATHWAYS

1. Pathways above recessed ceilings and in non-accessible locations may be routed exposed.

a. Exposed pathways located less than 96 inches above the floor shall be installed in EMT.

2. Pathways shall be installed in EMT.

3. Exposed EMT shall be painted red enamel.

3.3 CONNECTIONS

1. Make addressable connections with a supervised interface device to the following devices and systems. Install the interface device less than 36 inches from the device controlled. Make an addressable confirmation connection when such feedback is available at the device or system being controlled.

   a. Smoke dampers in air ducts of designated HVAC duct systems.

3.4 IDENTIFICATION

1. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification

2. Install framed instructions in a location visible from fire-alarm control unit.

3.5 GROUNDING

1. Ground fire-alarm control unit and associated circuits; comply with IEEE 1100. Install a ground wire from main service ground to fire-alarm control unit.

2. Ground shielded cables at the control panel location only. Insulate shield at device location.

3.6 FIELD QUALITY CONTROL

1. Field tests shall be witnessed by authorities having jurisdiction

2. Perform the following tests and inspections with the assistance of a factory-authorized service representative:

   a. Visual Inspection: Conduct visual inspection prior to testing.

      1) Inspection shall be based on completed record Drawings and system documentation that is required by NFPA 72 in its "Completion Documents, Preparation" table in the "Documentation" section of the "Fundamentals" chapter.

   b. System Testing: Comply with the "Test Methods" table in the "Testing" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72.

c. Test audible appliances for the public operating mode according to manufacturer's written instructions. Perform the test using a portable sound-level meter complying with Type 2 requirements in ANSI S1.4.
d. Test audible appliances for the private operating mode according to manufacturer's written instructions.
e. Test visible appliances for the public operating mode according to manufacturer's written instructions.
f. Factory-authorized service representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" section of the "Fundamentals" chapter in NFPA 72 and the "Inspection and Testing Form" in the "Records" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72.

3. Reacceptance Testing: Perform reacceptance testing to verify the proper operation of added or replaced devices and appliances.

4. Fire-alarm system will be considered defective if it does not pass tests and inspections.

5. Prepare test and inspection reports.

6. Maintenance Test and Inspection: Perform tests and inspections listed for weekly, monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.

7. Annual Test and Inspection: One year after date of Substantial Completion, test fire-alarm system complying with visual and testing inspection requirements in NFPA 72. Use forms developed for initial tests and inspections.

3.7 DEMONSTRATION

1. Train Owner's maintenance personnel to adjust, operate, and maintain fire-alarm system.

END OF SECTION 283111

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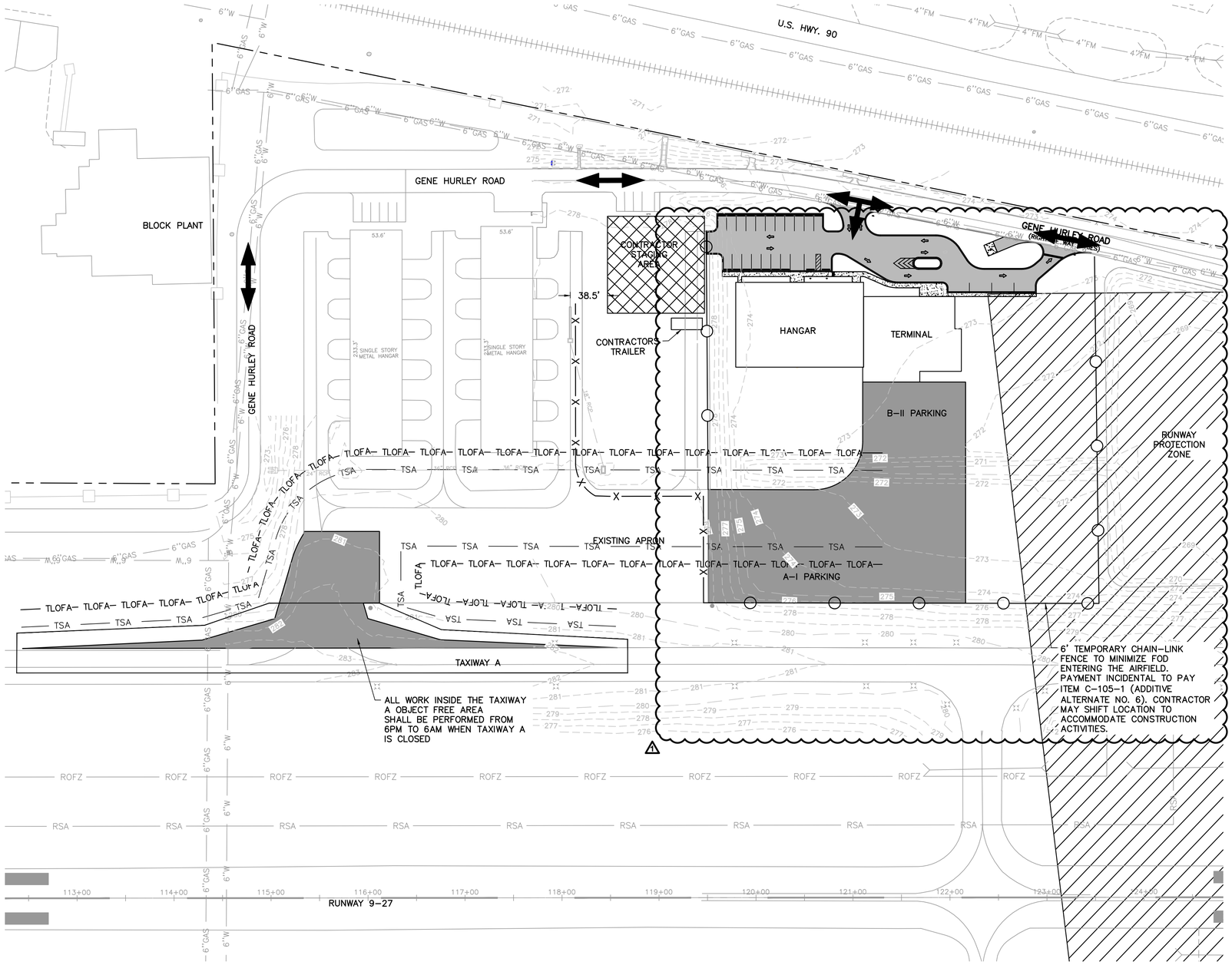

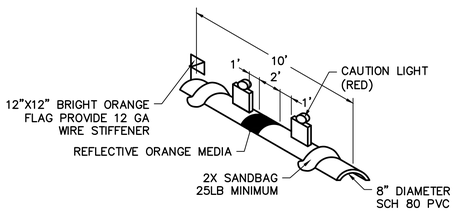

CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS OR REDUCED VISIBILITY. UNITS TO BE PLACED ADJACENT TO EACH OTHER. ALTERNATE TYPES OF BARRICADES MAY BE APPROVED ON A CASE BY CASE BASIS. PAYMENT FOR BARRICADES SHALL BE INCIDENTAL TO PAY ITEM C-105-1.

CONSTRUCTION BARRICADE DETAIL

N.T.S.

ATTACHMENT E (2 PAGES)

NOTES:

STAGING/STORAGE AREAS:

1. THE EXACT LIMITS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER IN THE AREAS GENERALLY AS SHOWN ON THE PLANS. ANY AND ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S OPERATIONS SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY AGENCIES. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL PROVIDE PROPER AND SANITARY TOILET FACILITIES FOR HIS/HER EMPLOYEES.
2. CONTRACTOR SHALL USE NON-GRAVEL STABILIZATION, TO MINIMIZE FOREIGN OBJECT DEBRIS DURING CONSTRUCTION ACTIVITIES AND PREVENT ALL OFFSITE SEDIMENT TRACKING. CONTRACTOR SHALL INSTALL TYPE "III" SILT FENCE 5' OUTSIDE THE PERIMETER OF THE STAGING AREA.

HAUL AND ACCESS ROADS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING HAUL AND ACCESS ROADS WITHIN THE LIMITS OF CONSTRUCTION, STAGING AREAS, AND BETWEEN CONSTRUCTION AREAS, AND FOR THE DUST CONTROL OF THESE ROADS. ALL COSTS ASSOCIATED WITH CONSTRUCTING AND MAINTAINING HAUL ROADS SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE PROJECT AND SHALL NOT BE PAID FOR SEPARATELY.
2. ANY ADDITIONAL HAUL OR ACCESS ROADS REQUESTED BY THE CONTRACTOR FOR HIS OPERATIONS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE CONSTRUCTED BY THE CONTRACTOR AT LOCATIONS WHERE AND IF APPROVED BY THE ENGINEER AT NO ADDITIONAL COMPENSATION.
3. THE ENGINEER RESERVES THE RIGHT TO SHIFT THE LOCATION OF CONTRACTOR HAUL AND ACCESS ROUTES AS MAY BE DEEMED NECESSARY FOR THE ORDERLY PROGRESS OF THE OVERALL AIRPORT DEVELOPMENT PROJECT AT NO ADDITIONAL COMPENSATION.
4. ANY DAMAGE TO EXISTING ROADWAYS USED AS A HAUL OR ACCESS ROUTE SHALL BE CONSIDERED THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL PROMPTLY REPAIR ANY DAMAGED ROADWAYS TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER WITH NO ADDITIONAL COMPENSATION. PRIOR TO BEGINNING THE WORK, THE CONDITION OF APPLICABLE ROADWAYS SHALL BE JOINTLY INSPECTED AND AGREED UPON BY THE CONTRACTOR AND ENGINEER.
5. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL RESTORE ALL GRASSED, GRAVELED AND PAVED AREAS USED FOR HAUL ROADS TO A CLEAN AND NEAT CONDITION ACCEPTABLE TO THE OWNER. THE TERRAIN SHALL BE LEFT IN A SMOOTH, WELL GROOMED, AND GRADED-TO-DRAIN CONDITION INCLUDING THE REFILLING OF ANY HOLES OR DEPRESSIONS OR THE LEVELING OF ANY RUTS AS MAY BE APPLICABLE. THE REFILLED MATERIAL SHALL BE SUITABLE TO THE AREA BEING RESTORED (GRAVEL IF AN EXISTING GRAVEL ROAD IS BEING RESTORED, SOIL IF A TURF AREA IS BEING RESTORED, ETC.). UPON ACCEPTANCE OF A HAUL ROAD RESTORED WITHIN A PREEXISTING TURF AREA, THE CONTRACTOR SHALL SOD THESE AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. NO DIRECT MEASUREMENT OR PAYMENT WILL BE MADE FOR THE CONSTRUCTION, MAINTENANCE, RESTORATION, REPAIR, GRAVELING, SODDING OF HAUL ROADS.

SAFETY NOTES:

1. CONTRACTOR'S EQUIPMENT AND VEHICLES SHALL REMAIN 70 FEET OR GREATER FROM TAXIWAY A CENTERLINE (EXTENDED) AT ALL TIMES.
2. CONTRACTOR SHALL YIELD TO AIRCRAFT AT ALL TIMES. CONTRACTOR SHALL YIELD RIGHT-OF-WAY IN AREAS LEASED BY OTHERS AT ALL TIMES.
3. EQUIPMENT HEIGHT SHALL NOT EXCEED 50 FEET ABOVE GROUND LEVEL UNLESS SPECIFICALLY REQUESTED BY CONTRACTOR AND APPROVED BY THE AIRPORT.
4. RESTRICTIONS INDICATED ON THIS SHEET SHALL APPLY AT ALL TIMES.
5. BARRICADE PLACEMENT TO BE COORDINATED WITH OWNER'S FIELD REPRESENTATIVE, 2 FEET FROM THE EDGE OF ALL EXISTING AFFECTED PAVEMENTS, UNLESS OTHERWISE SHOWN. BARRICADES SHALL BE CONTINUOUS (NO SPACES).
6. BARRICADE SECTIONS SHALL BE WHITE WITH ORANGE REFLECTIVE MEDIA. ALL INCIDENTAL CONNECTORS, SPACERS, SPLICE PLATES, ETC. SHALL BE PAINTED WHITE.
7. ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAINTED WHEN DEEMED APPROPRIATE BY THE ENGINEER. THE CONDITIONS OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY.
8. ALL BARRICADES SHALL BE MOVED AT LEAST ONCE EACH WEEK AND THE CONTRACTOR SHALL SWEEP THE DEBRIS WHICH HAS ACCUMULATED AND REMOVE FROM THE SITE. THE BARRICADES SHALL THEN BE REPLACED AT THE APPROPRIATE LOCATION.
9. THE CONTRACTOR SHALL INSTALL, MAINTAIN, AND REMOVE BARRICADES.

LEGEND

TOFA	TAXIWAY/TAXILANE OBJECT FREE AREA		EXISTING PAVEMENT
TSA	TAXIWAY/TAXILANE SAFETY AREA		CONTRACTOR STAGING AREA
	CONTRACTORS HAUL ROUTE		NON-GRAVEL STABILIZATION
X	CONSTRUCTION BARRICADE		
	6' TEMPORARY CHAIN-LINK FENCE		

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JOHN R. COLLINS
FL LICENSE NO.: 75419
FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

NO.	DATE	REVISION	BY
A	2/24/22	ADDENDUM NO. 2	MJB

SAFETY DURING CONSTRUCTION & PHASING PLAN

RELEASE FOR BID

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	J.C.
DRAWN BY:	D.F.
CHECKED BY:	T.N.
APPROVED BY:	V.L.
PROJECT NO:	2019.028.01
DATE:	NOVEMBER 2021

SHEET NUMBER

G-6

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ATTACHMENT E (2 PAGES)

SANITARY SEWER STRUCTURE TABLE			
NAME	STRUCTURE TYPE	DETAILS	NORTHING/EASTING
CO-01	SANITARY CLEANOUT	RIM = 279.78 SS-P-07 INV IN = 276.26 SS-P-06 INV OUT = 276.16	N: 634501.5525 E: 1448572.0545
CO-02	SANITARY CLEANOUT	RIM = 279.85 SS-P-08 INV IN = 276.33	N: 634501.6061 E: 1448590.7998
CO-03	SANITARY CLEANOUT	RIM = 277.71 SS-P-05 INV IN = 275.77 SS-P-04 INV OUT = 273.71	N: 634466.9689 E: 1448856.8397
LS-01	SANITARY GRINDER PUMP SEE PUMP DETAILS	RIM = 276.67 SS-P-01 INV IN = 271.19	N: 634610.9605 E: 1448534.8379
MH-01	SANITARY MANHOLE	RIM = 276.83 SS-P-02 INV IN = 271.35 SS-P-01 INV OUT = 271.25	N: 634610.5622 E: 1448546.0900
MH-02	SANITARY MANHOLE	RIM = 279.29 SS-P-03 INV IN = 271.79 SS-P-06 INV IN = 275.94 SS-P-02 INV OUT = 271.69	N: 634545.5092 E: 1448566.9741
MH-03	SANITARY MANHOLE	RIM = 278.83 SS-P-04 INV IN = 273.34 SS-P-03 INV OUT = 273.24	N: 634539.9829 E: 1448858.4210

SANITARTY PIPE TABLE			
Pipe Name	DESCRIPTION	Length	Slope
SS-P-01	8" SDR 35	7'	0.50%
SS-P-02	8" SDR 35	64'	0.50%
SS-P-03	8" SDR 35	288'	0.50%
SS-P-04	8" SDR 35	69'	0.50%
SS-P-05	4" SDR 35	27'	0.50%
SS-P-06	6" SDR 35	40'	0.50%
SS-P-07	6" SDR 35	6'	0.50%
SS-P-08	6" SDR 35	4'	0.50%

North

0 10 20 40

GRAPHIC SCALE IN FEET

LEGEND

- 6"W — EXISTING WATER MAIN
- W — PROPOSED WATER LINE
- GATE VALVE
- FIRE HYDRANT
- WATER SERVICE CONNECTION
- PROPOSED STORMWATER PIPES
- PROPERTY BOUNDARY

U.S. HWY. 90

SEE SHEET C-5 FOR FORCE MAIN CONTINUATION.

SS-P-01

MH-01

8" PVC SANITARY LINE AT 0.5% SLOPE.

FIRE HYDRANT ASSEMBLY & 6" GATE VALVE BOX

LS-01

(1) 6" TEE

6" C-900 WATER LINE

6" TEE

6" CAP W/6" GATE VALVE AND BOX

SS-P-02

MH-02

6" C-900 WATER LINE

SS-P-06

COST FOR HANGAR OILY WASTE SYSTEM TO BE INCLUDED IN ADDITIVE ALTERNATE NO. 4.

OIL WATER SEPARATOR

HANGAR

CO-01

SS-P-07

SS-P-08

CO-02

FIRE HYDRANT ASSEMBLY & 6" GATE VALVE BOX

6" TAPPING SADDLE W/2" CORP STOP, 2" POTABLE WATER LINE

6" DOUBLE DETECTOR CHECK BACKFLOW PREVENTION ASSEMBLY WITH FDC CONNECTION SEE DETAIL SHEET C-14

6" WET TAP CONTRACTOR SHALL COORDINATE 48 HOURS PRIOR TO TAPPING EXISTING LINE

(1) 6" 11.25° BEND

(1) 6" GATE VALVE AND BOX

6" TEE W/6" GATE VALVE AND BOX

2" WATER METER

2" DOUBLE DETECTOR CHECK BACKFLOW PREVENTION ASSEMBLY SEE DETAIL SHEET C-14

8" PVC SANITARY LINE AT 0.5% SLOPE.

2" WATER LINE

SS-P-03

SEE WATER/SEWER CROSSING DETAIL ON SHEET C-13, TYP.

8" PVC SANITARY LINE AT 0.5% SLOPE.

6" PVC SANITARY LINE AT 0.5% SLOPE.

AIRPORT TERMINAL

SEE PLUMBING DRAWINGS FOR CONTINUATION

SS-P-05

EXISTING 6" WATER MAIN

GENE HURLEY ROAD (RIGHT OF WAY VARIES)

MH-03

SS-P-04

RUNWAY PROTECTION ZONE

CO-03

EXISTING STORMWATER POND

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JOHN R. COLLINS
FL LICENSE NO.: 75419
FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

NO.	DATE	REVISION	BY
1	2/24/22	ADDENDUM NO. 2	MJB

UTILITY PLAN

RELEASE FOR BID

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	J.C.
DRAWN BY:	D.F.
CHECKED BY:	T.N.
APPROVED BY:	V.L.
PROJECT NO:	2019.028.01
DATE:	NOVEMBER 2021

SHEET NUMBER
C-12

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RELEASE FOR BID

Architectural Addendum 2 Revision Narrative

Drawings:

1.	G0.04 – WALL TYPES	• Added wall type 1A0.3
2.	A-002 – TYPICAL ADA DETAILS	• Cleaned up the drinking fountain graphics.
3.	A-102 – 1ST FLOOR PLAN	• Corrected restroom Chase 116A's room number. • Corrected dimensions at Door 113A to provide 1'-6" pull-side clearance. • Clarified the note at walls in Rooms 118, 119 and 120 to read "fire rated". • Added corner guards at doors 103D and 113A.
4.	A-103 – CLERESTORY PLAN	• Corrected parapet height to 24" high.

5.	A-111 – DIMENSION PLAN	• Corrected overlapping wall type tags in Room 119.
		• Included the following areas to receive a recessed slab:
		  o Tiled area of Lobby buffet to receive recessed slab to accommodate tile for flush tile-to-concrete interface.
		  o Tiled Break Area 121A
		  o Tiled Corridor 103 and FBO 106 areas.
		  o Tiled Janitor 107
		• Added 1A0.3 wall tag in Conference Room above glazed wall.
		• Removed recessed floor at Fire Riser 001.

6.	A-140 – FINISH FLOOR PLAN & SIGN PLAN	• Detail 3
		  o Revised to reflect concrete substrate.
		  o Revised to reflect walk off mat condition as well.
		• Detail 4
		  o Indicated control joint minimum thickness.
		  o Revised to reflect concrete substrate.

7.	A-142 – FINISH SCHEDULE & SIGNAGE SCHEDULE	• Removed white glass aggregate from the "CONC-1" finish.
8.	A-204 – ELEVATION	• Updated graphics to depict metal truss.

9.	A-301 – BUILDING SECTIONS	• Detail 1:
		  o Revised the Meeting Room's butt glazed wall to stop at 7-4" and receive a gypsum header. The barn door alternate is now 7'-4" as well.
		  o The stainless steel receiver channels are now recessed at the drywall header and are flush at the sill.

		○ Revised the door pulls to be circular metal tube pulls. Refer to the added specification 08450 ALL-GLASS ENTRANCES AND STOREFRONTS. • Detail 2: ○ Updated graphics to depict foundations. ○ Wall common to Conference Room and Lobby updated to reflect a 1A0.3 type wall up to deck with sound batt insulation.
10.	A-302 – BUILDING SECTIONS	• Revised display cabinet elevation to match detail 2/A-704. Refer to updated detail 2/A-704 for additional updates.
11.	A-303 – BUILDING SECTIONS	• Corrected tile pattern alignment at shower area.
12.	A-304 – CANOPY SECTIONS	• Details 1 & 2 ○ Added “TYP” (typical) to the tempered glass door notes.
13.	A-313 – WALL SECTIONS	• Detail 3 ○ Corrected conflicting header graphic.
14.	A-314 – WALL SECTIONS	• Corrected graphics to depict foundations.
15.	A-401 – ENLARGED PLANS	• Detail 1: ○ Tagged the Women’s Room under counter hooks with Keynote A07. • Accessories Schedule: ○ Revised Keynote A10’s model to be “JACKNOB-4003”. • Detail 9: ○ Revised the display cabinet to depict a pair of solid wood doors at the base and subsequently revised the dimension of the glazed doors. Refer to updated detail 2/A-704 for additional information. • Details 8 & 10: ○ Clarified notes at the Reception Counter for surfaces to receive a wood finish to match the rest of the counter.
16.	A-402 – INTERIOR ELEVATIONS	• Accessories Schedule: ○ Revised Keynote A10’s model to be “JACKNOB-4003”. • Detail 3: ○ Tagged the A07 under counter hooks.
17.	A-403 – INTERIOR ELEVATIONS	• Accessories Schedule: ○ Revised Keynote A10’s model to be “JACKNOB-4003”.
18.	A-501 – GLULAM ASSEMBLIES	• Detail 5: ○ Corrected graphics.
19.	A-506 – DETAILS	• Details 1 & 3: ○ Revised the recessed LED light cove framing detailing.

20.	A-507 – DETAILS	• Detail 1: ○ Tagged the Women's Room under counter hooks with Keynote A07.

21.	A-611 – DOOR SCHEDULE, DOOR AND WINDOW ELEVATIONS	• Door Schedule:
		  ○ Revised select door head and jamb details, references and door/frame finishes and types.
		• Detail 2:
		  ○ Updated Type E glazing to reflect stainless steel receiver channel specifics.

22.	A-612 – DOOR AND JAMB DETAILS	• Detail 6: ○ Added note for corner guards at these jambs.
23.	A-700 – MILLWORK DETAILS 01	• Details 2 & 3: ○ Corrected graphics.

24.	A-704 – MILLWORK DETAILS	• Detail 2:
		  ○ Updated door thickness to 1" and included note for heavy duty hinges with cam locks.
		  ○ Indicated 3/8" tempered glass.
		  ○ Added note for a ¾" backer at door head to close against.
		• Detail 6:
		  ○ Clarified meeting room receiver channel and wood blocking requirement notes.
		  ○ Defined glazing thickness and joints.
		  ○ Provided additional detail for metal joist structure above and concrete beam interface.

25.	A-800 – ROOF DETAILS 01	• Details 5 & 6:
		  ○ Corrected graphics.
		  ○ Added a 2nd nut at the weathervane base detail.

Specifications:

1. 05410 – STRUCTURAL METAL STUDS

   Added specification.

2. 07811 – SPRAYED FIRE-RESISTIVE MATERIALS

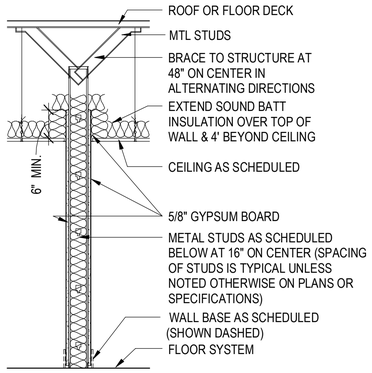
   Added specification.

3. 08330 – MIRRORS

   Added specification.

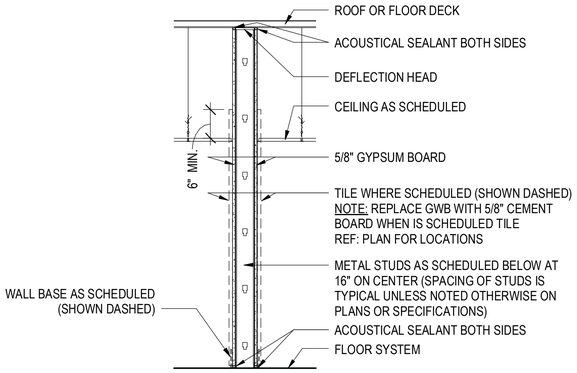
4. 08450 – ALL-GLASS ENTRANCES AND STOREFRONTS

   Added specification for all glass doors at the Conference Room.



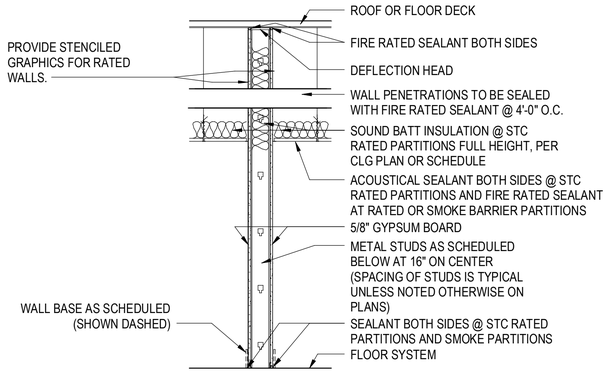
PARTITION TYPE 1B0

TYPE	FIRE RATING	CORE WIDTH	OVERALL WIDTH	STC RATED	UL LISTING	STC TEST
1B0.3	NON-RATED	3 5/8"	4 7/8"	NON-RATED	N/A	N/A
1B0.3.c	NON-RATED	3 5/8"	4 7/8"	45	N/A	N/A
1B0.6	NON-RATED	6"	7 1/4"		N/A	



PARTITION TYPE 1A0

TYPE	FIRE RATED	CORE WIDTH	OVERALL WIDTH	STC RATED	UL LISTING	STC TEST
1A0.3	NON-RATED	3 5/8"	4 7/8"	NON-RATED	N/A	N/A
1A0.3.t	NON-RATED	3 5/8"	5 5/8"	NON-RATED	N/A	N/A
1A0.6	NON-RATED	6"	7 1/4"	NON-RATED	N/A	N/A
1A0.6.t	NON-RATED	6"		NON-RATED	N/A	N/A
1A0.6.tt	NON-RATED	6"	8 3/4"	NON-RATED	N/A	N/A
1A0.8	NON-RATED	8"	9 1/4"			
1A0.8.t	NON-RATED	8"	9 1/4"			

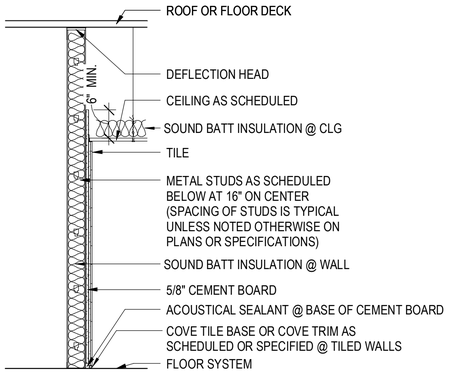


PARTITION TYPE 1A1

TYPE	FIRE RATED	CORE WIDTH	OVERALL WIDTH	STC RATED	UL LISTING	STC TEST
1A1.3	1 HOUR	3 5/8"	4 7/8"	NON-RATED	N/A	N/A
1A1.3.c	1 HOUR	3 5/8"	4 7/8"	45	U465	

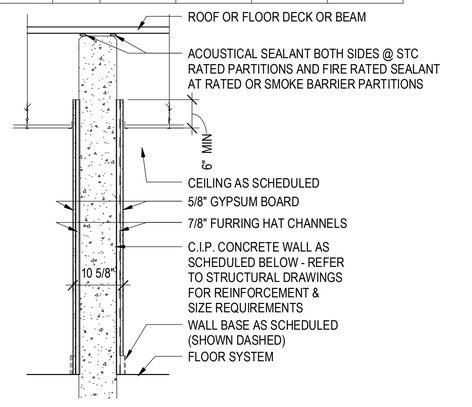
NOTES - PARTITION

1. ALL PARTITIONS IN RESTROOMS TO RECEIVE MOISTURE RESISTANT GYPSUM BOARD IN PLACE OF GYPSUM WALL BOARD @ NON-TILED WALLS.
2. ALL PARTITIONS AT SHOWER ENCLOSURES TO RECEIVE 5/8" CEMENT BOARD IN PLACE OF GYPSUM WALL BOARD.
3. WHERE WALLS ARE TO RECEIVE TILE OR STONE CLADDING, 5/8" CEMENT BOARD IS TO BE USED IN PLACE OF GYPSUM WALL BOARD.
4. ALL PERIMETER FRAMED WALLS AROUND RESTROOMS THAT ARE NOT ALREADY REQUIRED TO RECEIVE AN STC RATING WILL RECEIVE SOUND ATTENUATING BATT INSULATION AND ACOUSTICAL SEALANT AT THE TOP AND BOTTOM OF THE WALL. THE SOUND ATTENUATING BATT INSULATION WILL BE CONTINUOUS THE ENTIRE HEIGHT OF THE WALL.
5. FILL VOIDS AROUND WALL PENETRATIONS WITH UL RATED FIRE SEALANT TO MAINTAIN WALL FIRE RATED ASSEMBLY.
6. ALL FIRE RATED PARTITIONS TO RECEIVE TYPE "X" GYPSUM BOARD.
7. PROVIDE STENCILED GRAPHICS @ ALL RATED AND SMOKE BARRIER WALLS. PER BUILDING CODE REQUIREMENTS, LETTERING SHALL IDENTIFY WALL RATING, SHALL NOT BE LESS THAN 2 INCHES IN HEIGHT AND LOCATED AT EACH END OF THE WALLS AND SPACED NOT LESS THAN 30 FT ON CENTER.
8. REFER TO UL DESIGN DETAILS FOR BALANCE OF NOTES, DIMENSIONS OR OTHER REQUIREMENTS.
9. REFER TO CLG PLANS FOR ACOUSTICAL BATT INSULATION
10. "OVERALL WIDTH" IS FINISHED WIDTH, INCLUDING TILES, ETC.



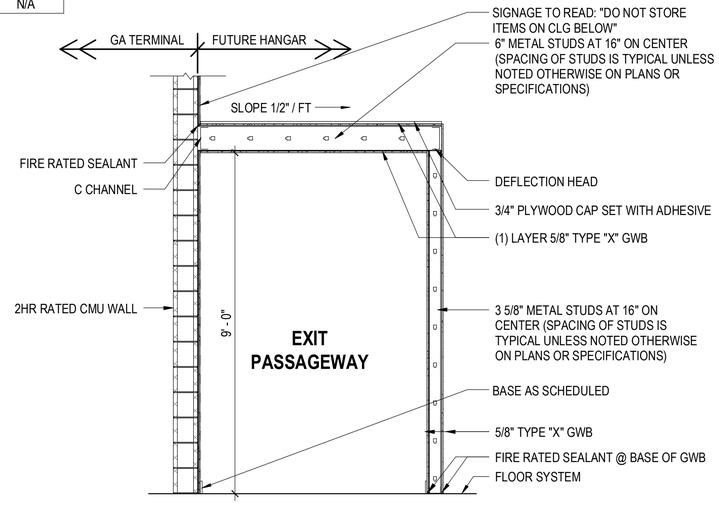
PARTITION TYPE 3A0

TYPE	FIRE RATING	CORE WIDTH	OVERALL WIDTH	STC RATING	UL LISTING	STC TEST
3A0.3.c.t	NON-RATED	3 5/8"	5"	45	N/A	N/A

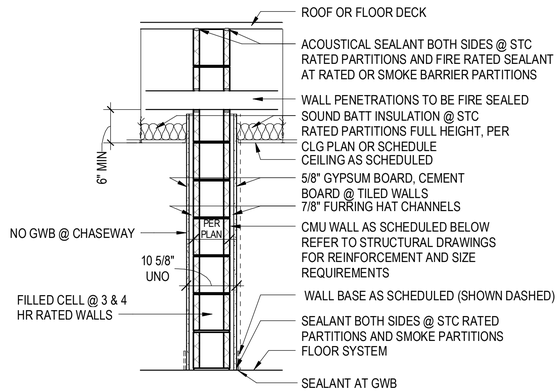


PARTITION TYPE 7A0

TYPE	FIRE RATING	CORE WIDTH	OVERALL WIDTH	STC RATING	UL LISTING
7A0.8	NON-RATED	7-5/8"	7 5/8"	NON-RATED	TMS 0302-12

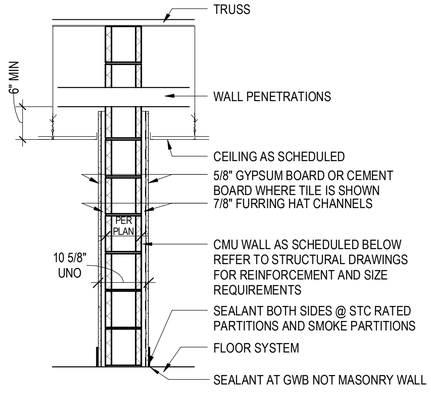


EXIT PASSAGEWAY @ HANGAR



PARTITION TYPE 6A0

TYPE	FIRE RATED	CORE WIDTH	OVERALL WIDTH	STC RATED	UL LISTING	STC TEST
	NON-RATED	8"				
6A0 SIM	NON-RATED	8"				
6A0.8	NON-RATED	8"	10 5/8"			
6A0.8.c	NON-RATED	8"	10 5/8"	45		
EXT	2 HOUR	PER PLAN	11 5/8"	45	U905	TMS 0302-12



PARTITION TYPE 6A0 SIM

LEGEND - PARTITION TYPES

CORE TYPE
- 1 METAL STUD WALL
- 2 METAL STUD SHAFT WALL
- 3 METAL STUD (1 SIDED GYP BD)
- 4 WOOD STUD WALL
- 5 WOOD STUD (1 SIDED GYP BD)
- 6 CMU
- 7 CONCRETE
- 8 FURRING

CORE HEIGHT
- A FULL HEIGHT (TO UNDERSIDE OF STRUCTURE)
- B 6" ABOVE HIGHEST ADJACENT CEILING
- C TO CEILING
- D (D-Z) USER DEFINED (SPECIAL CONDITIONS)

RATING
- 0 NON-RATED
- 1 1 HOUR
- 2 2 HOUR
- 3 3 HOUR
- 4 4 HOUR
- H 1/2 HOUR
- S SMOKE RATED

CORE WIDTH
- .1 METAL STUD (1 5/8")
- .2 METAL STUD (2 1/2")
- .3 METAL STUD (3 5/8")
- .4 METAL STUD (4") WOOD STUD (3 1/2") CMU/CONCRETE (3 5/8")
- .6 METAL STUD (6") WOOD STUD (5 1/2") CMU/CONCRETE (5 5/8")
- .8 METAL STUD (8") WOOD STUD (7 1/4") CMU/CONCRETE (7 5/8")
- .10 METAL STUD (10") WOOD STUD (9 1/4") CMU/CONCRETE (9 5/8")
- .12 WOOD STUD (11 1/4") CMU/CONCRETE (11 5/8")

STC CLASSIFICATION
- .a STC 35
- .b STC 40
- .c STC 45
- .d STC 50
- .e STC 55

TILE
- .t TILE ONE SIDE OF WALL
- .tt TILE BOTH SIDES OF WALL

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

STATE OF FLORIDA WILLIAM A. HAYWARD JR. AR0011007 REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1.	2/23/22	Addendum 2	WAH

WALL TYPES

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	MW
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
G0.04

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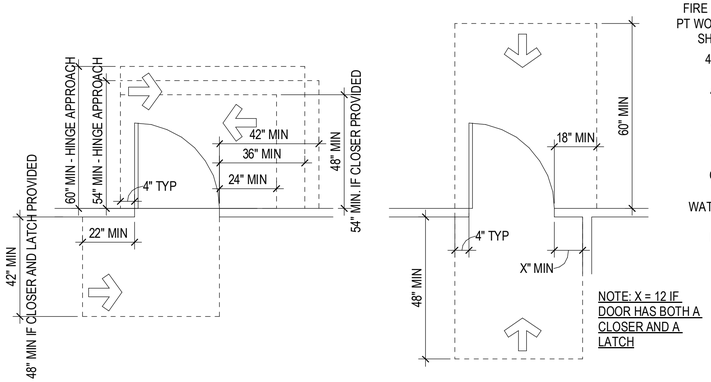
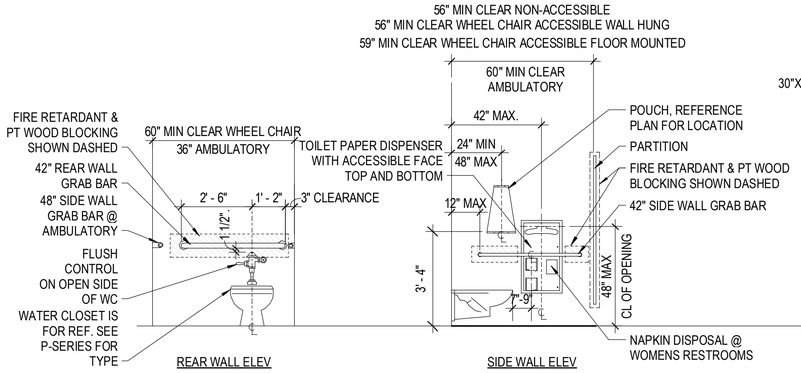
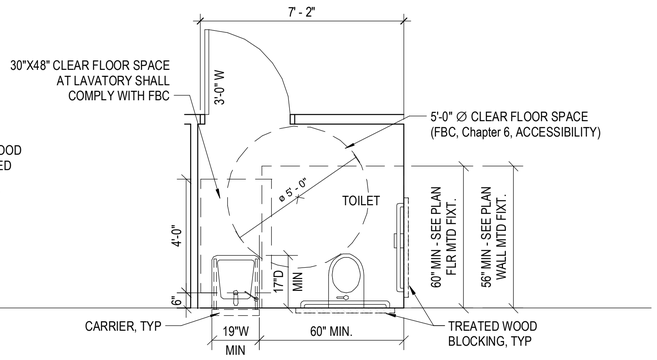


NOTE: X = 12 IF DOOR HAS BOTH A CLOSER AND A LATCH

DOOR CLEARANCES

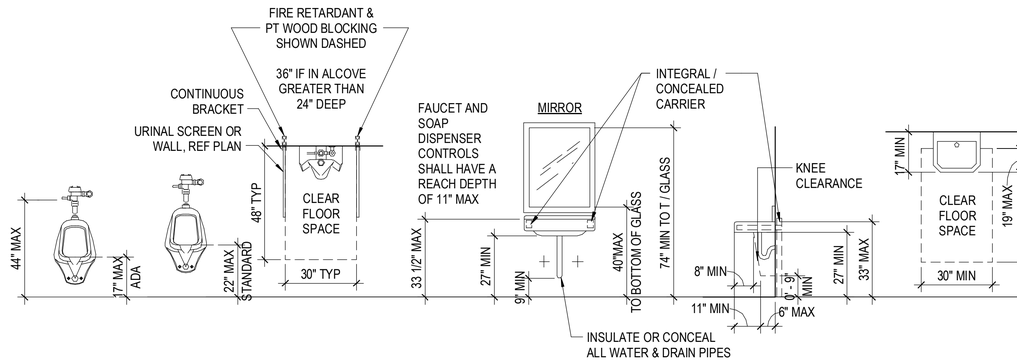


TOILET STALLS



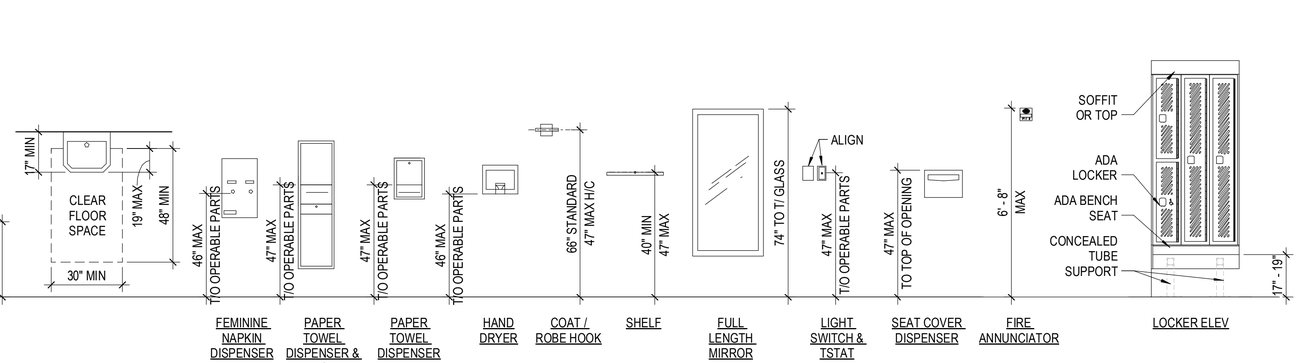
1. TOE CLEARANCE AT THE FRONT OF THE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 62" DEEP WITH A WALL-HUNG WATER CLOSET OR 65" DEEP WITH A FLOOR-MOUNTED WATER CLOSET. TOE CLEARANCE AT THE SIDE IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66" WIDE.
2. WHERE 6 OR MORE STALLS ARE PROVIDED, IN ADDITION TO STANDARD STALL, PROVIDE AT LEAST 1 AMBULATORY STALL 36" WIDE WITH A DOOR THAT SWINGS OUT AND THE DEPTH OF THE STALL AS REQUIRED TO ACCOMMODATE LENGTH OF GRAB BAR. STALL SHALL BE IN ACCORDANCE TO APPLICABLE PLUMBING CODE.

TOILET ROOMS WITH STALLS



URINAL

SINKS

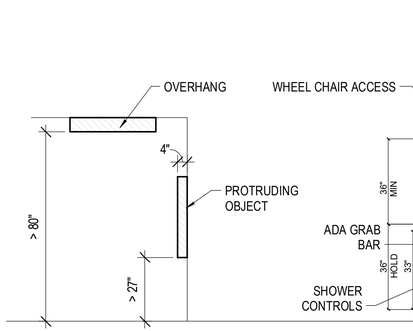


TOILET FIXTURES & ACCESSORIES

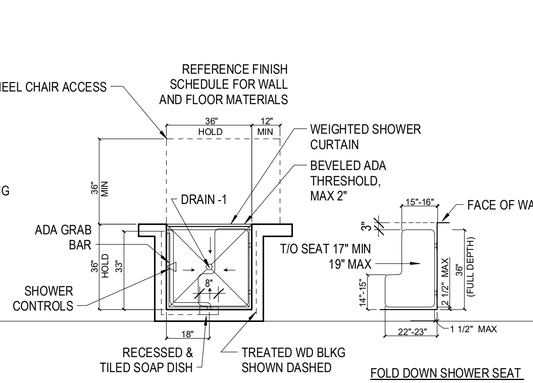
OBSTRUCTED REACH TO OPERABLE PARTS ON DISPENSERS AND HAND DRYERS SHALL COMPLY WITH ANSI

ADA ACCESSIBLE LOCKERS

NOTE: LOCK SHALL NOT REQ. PINCHING, GRASPING OR TWISTING OF THE WRIST

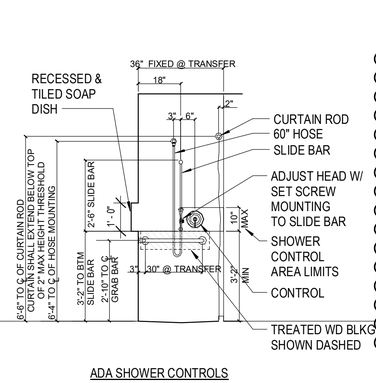


LIMITS OF PROTRUDING OBJECTS

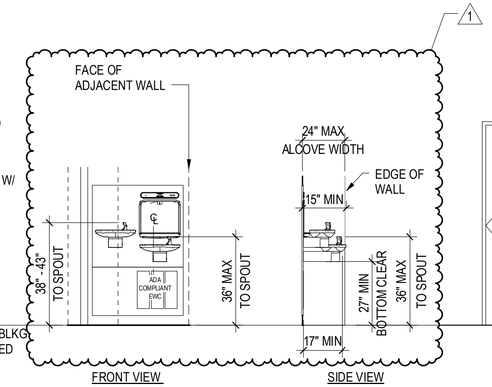


TRANSFER SHOWER STALLS

FOLD DOWN SHOWER SEAT

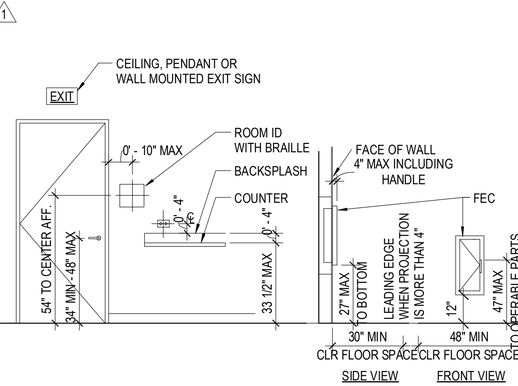


ACCESSIBLE SHOWER CLEARANCES



DRINKING FOUNTAINS

FRONT VIEW (DOUBLE) — SIDE VIEW



SIGNS & COUNTERS

SIDE VIEW — FRONT VIEW

FIRE EXTINGUISHER

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AVCON — TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

TYPICAL ADA DETAILS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	AB
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

A-002

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ATTACHMENT F (28 PAGES)

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · REGISTERED ARCHITECT · AR0011007

WILLIAM A. HAYWARD JR.
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1ST FLOOR PLAN

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	MW
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
A-102

1 1ST FLOOR PLAN - AREA A
SCALE: 3/16" = 1'-0"

SHEET NOTES:

1. DIMENSIONS ARE TAKEN FROM OUTSIDE EDGES OF CMU.
2. PROVIDE RECESSED WALL HYDRANT AT EACH RESTROOM UNDERNEATH SINKS, EXCEPT IN ADA STALLS.
3. REFER TO DIMENSION, LIFE SAFETY & LARGE SCALE PLANS FOR ADDITIONAL INFORMATION.
4. FLIGHT CATERING CARTS, COPIER & COMPUTER EQUIPMENT, FURNITURE & TV'S SHOWN DASHED TO BE PROVIDED AS PART OF FURNITURE ALLOWANCE. VENDING MACHINE BY OWNER. FILE CABINETS BELOW COUNTER TO BE PART OF MILLWORK.

0 4' - 0" 8' - 0" 16' - 0"
SCALE:3/16" = 1' - 0"

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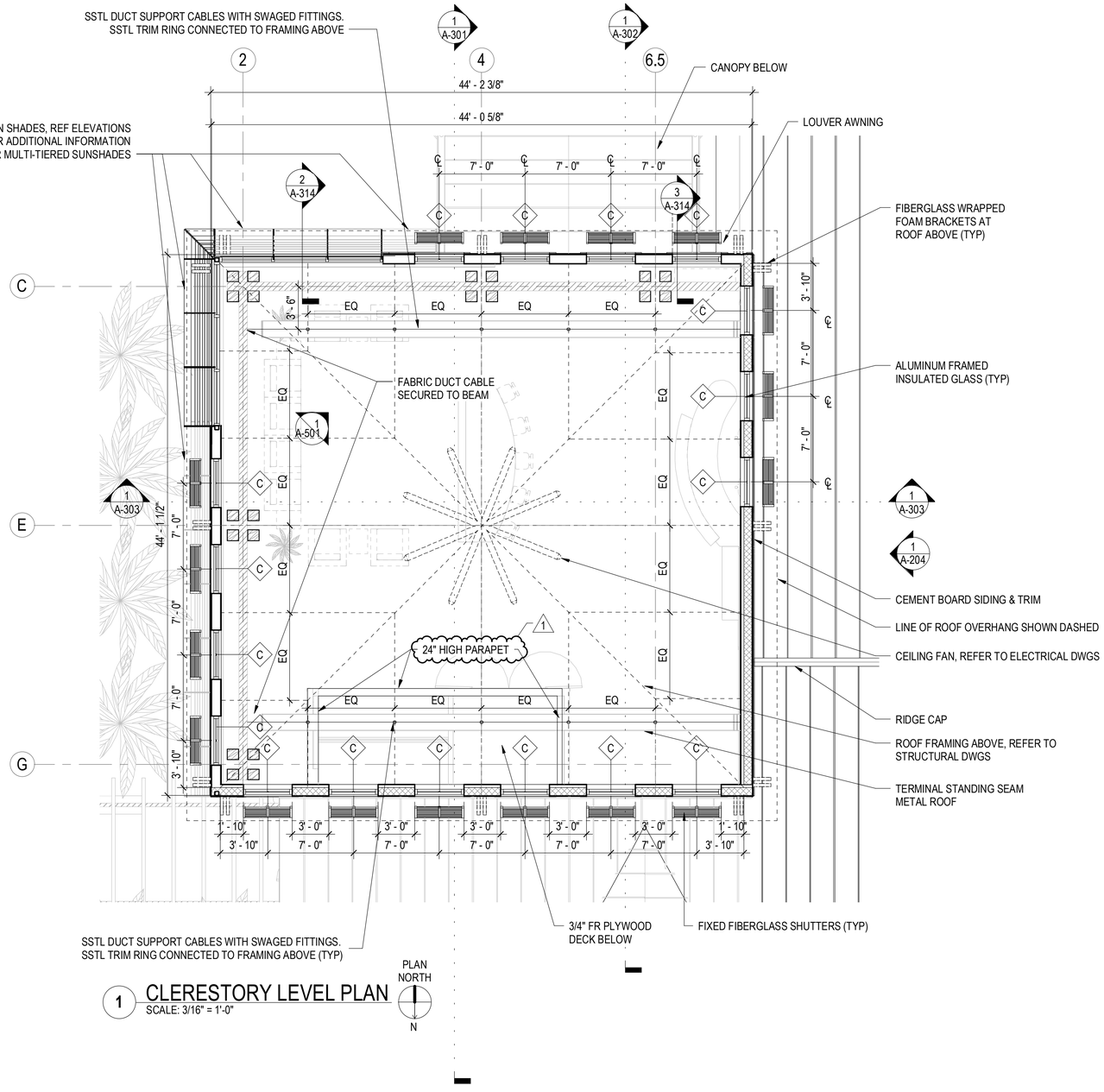

1 CLERESTORY LEVEL PLAN
SCALE: 3/16" = 1'-0"

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STATE OF FLORIDA
WILLIAM A. HAYWARD JR.
AR0011007
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FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
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CLERESTORY PLAN

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

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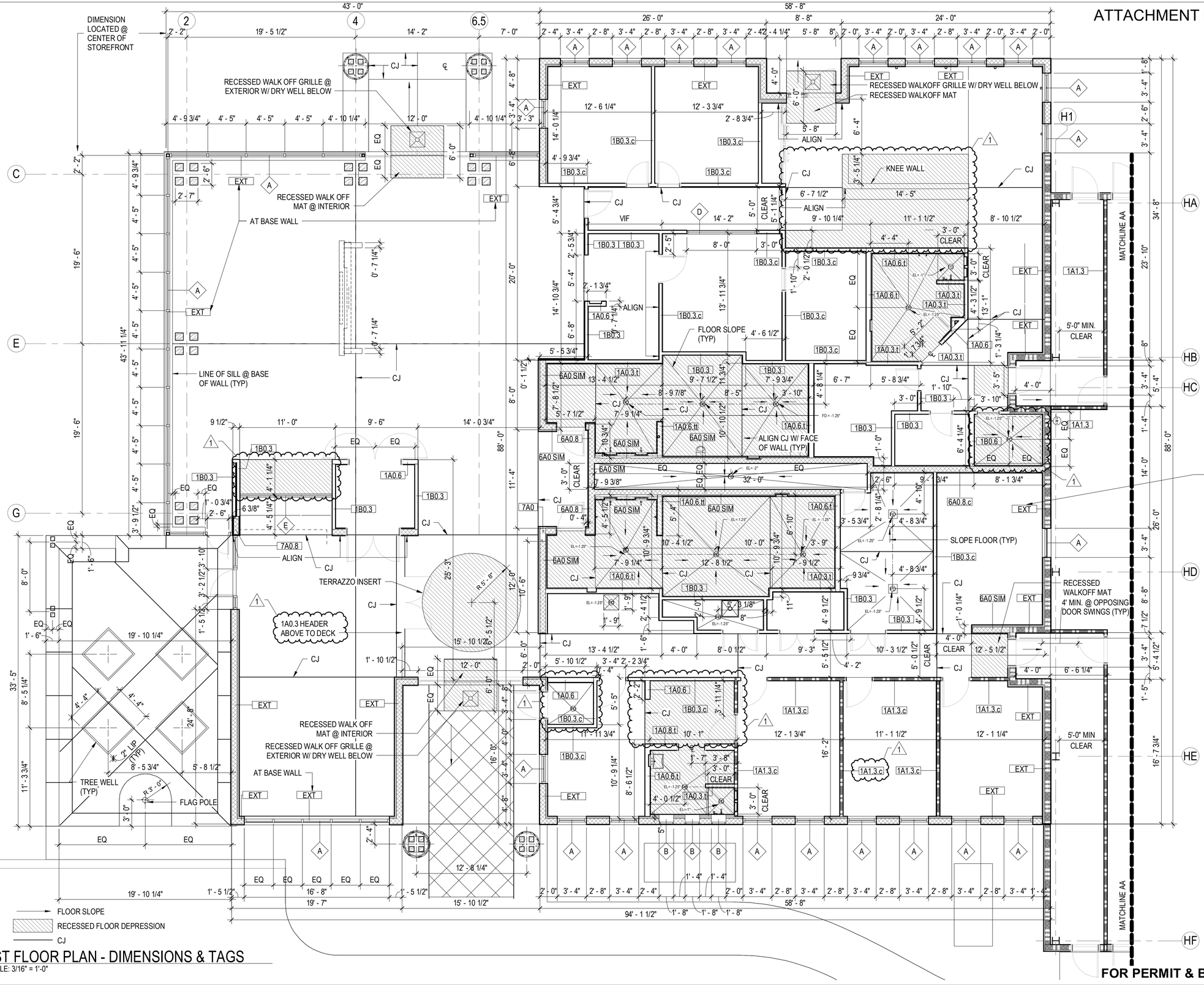
ATTACHMENT F (28 PAGES)



1 1ST FLOOR PLAN - DIMENSIONS & TAGS
SCALE: 3/16" = 1'-0"

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WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

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1	2/23/22	Addendum 2	WAH

DIMENSION PLAN

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
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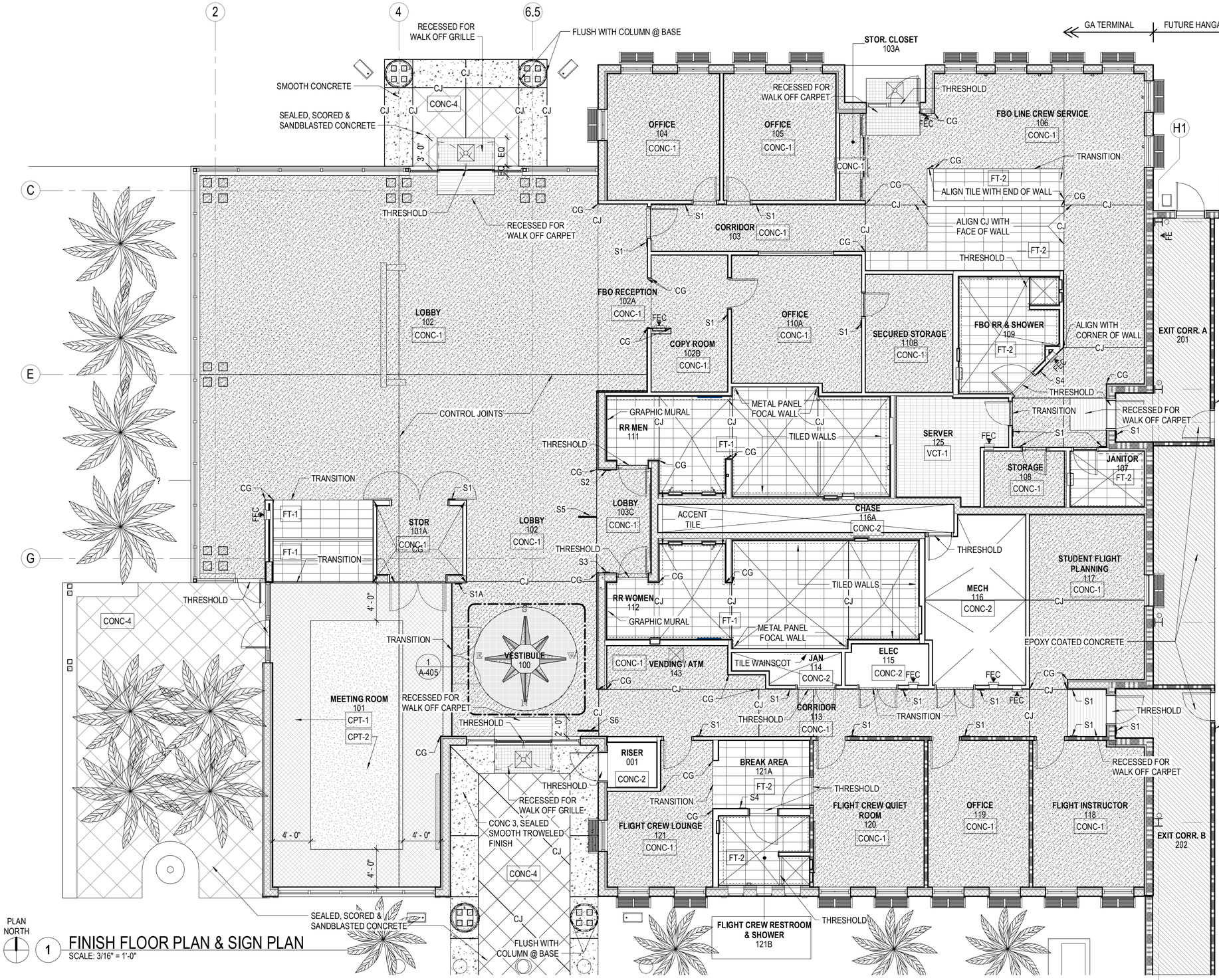
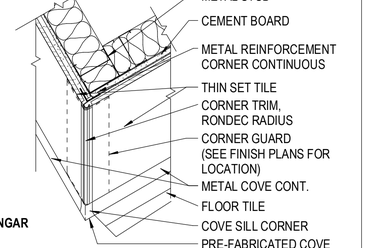


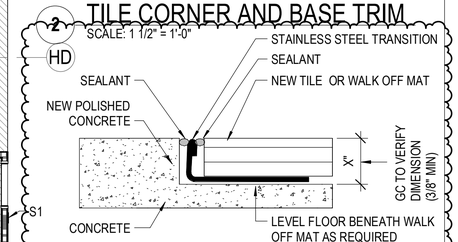
1 FINISH FLOOR PLAN & SIGN PLAN
SCALE: 3/16" = 1'-0"

FINISH LEGEND

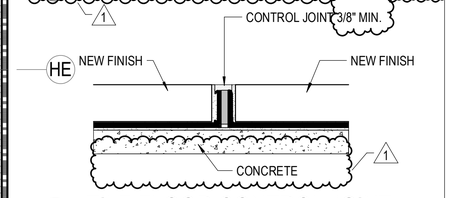
- POLISHED CONCRETE (CONC-1)
- SEALED CONCRETE (CONC-2)
- SEALED SMOOTH TROWELED FINISH (CONC-3)
- SEALED, SCORED & SAND BLASTED CONCRETE (CONC-4)
- EPOXY COATED CONCRETE (FUTURE)
- CARPET TILE (CPT-1)
- CARPET TILE (CPT-2)
- TILE (REFER TO FINISH LEGEND)
- ANTI-STATIC VCT
- TERRAZZO
- WALK OFF MAT (FLUSH W/ FLOOR) GC TO COORDINATE PRIOR TO CONC. PLACEMENT
- WALK OFF GRILLE (FLUSH W/ FLOOR) GC TO COORDINATE PRIOR TO CONC. PLACEMENT
- FUTURE FINISH
- FUTURE WALLS SHOWN IN DASHED
- TILED WALLS
- S# SIGNAGE (REFER TO SIGN TYPES ON SHEET A-142)
- CJ CONTROL JOINT



2 TILE CORNER AND BASE TRIM
SCALE: 1 1/2" = 1'-0"



3 TILE/WALK OFF MAT TRANSITION
SCALE: 3/4" = 1'-0"



4 TILE FLOOR CONTROL JOINT
SCALE: 3/4" = 1'-0"

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AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

FINISH FLOOR PLAN & SIGN PLAN

100% DESIGN DRAWINGS

DESIGNED BY:	CH
DRAWN BY:	JP
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
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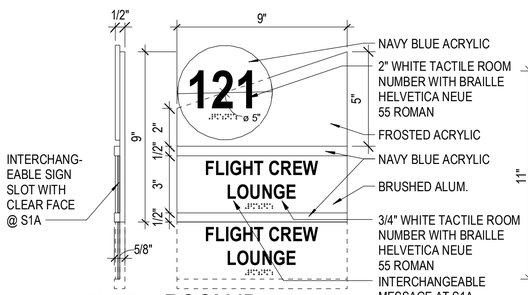
FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	BASE FINISH	FLOORS FINISH	WALLS FINISH	CEILINGS FINISH	COMMENTS	ROOM ID TYPE
001	RISER	NONE	CONC-2	P-1	GWB MR	-	-
100	VESTIBULE	RB-1	CONC-1	P-1	GWB/ P-4/ P-5	SKY BLUE AT COVE W/ TERRAZZO INSERT & WALK-OFF MATS	-
101	MEETING ROOM	RB-1	CPT-1/CPT-2	P-1/TEMP GLASS	GWB/ P-4/ ACT-2	SR	S1
101A	STOR	RB-2	CONC-1	P-1	GWB/ P-4	SR	-
102	LOBBY	RB-1	CONC-1/CPT-3	P-1	ACT-3	SR	-
102A	FBO RECEPTION	RB-1	CONC-1	P-1	GWB/ P-4	SR	-
102B	COPY ROOM	RB-1	CONC-1	P-1	ACT-1	SR	-
103	CORRIDOR	RB-1	CONC-1/CPT-3/FT-2	P-1	GWB/ P-4	SR	-
103A	STOR. CLOSET	NONE	CONC-1	P-2	GWB MR/ P-4	SR	-
103C	LOBBY	RB-1	CONC-1	P-1	GWB/ P-4	SR, STONE ACCENT WALL ST-1, REF PLAN	-
104	OFFICE	RB-2	CONC-1	P-1	ACT-1	SR	S1
105	OFFICE	RB-2	CONC-1	P-1	ACT-1	SR	S1
106	FBO LINE CREW SERVICE	RB-2	CONC-1	P-1	ACT-1	-	-
107	JANITOR	WT-2	FT-2 / THICKSET	P-1	ACT-1	WAINSCOT AT SERVICE SINK	S1
108	STORAGE	RB-2	CONC-1	P-1	ACT-1	-	-
109	FBO RR & SHOWER	WT-2	FT-2 / THICKSET	WT-2	GWB MR/ P-4	SR	S4
110A	OFFICE	RB-2	CONC-1	P-1	ACT-1	SR	S1
110B	SECURED STORAGE	RB-2	CONC-1	P-1	ACT-1	SR	S1
111	RR MEN	WT-1	FT-1 / THICKSET	WT-1	GWB MR/ P-4	SR, CEILINGS AND COVE TO BE LEVEL 5 FINISH, ACCENT TILE AT SINK	S2
112	RR WOMEN	WT-1	FT-1 / THICKSET	WT-1	GWB MR/ P-4	SR, CEILINGS AND COVE TO BE LEVEL 5 FINISH, ACCENT TILE AT SINK	S3
113	CORRIDOR	RB-1	CONC-1/CPT-3	P-1	GWB	SR	-
114	JAN	RB-2	CONC-2	P-1	ACT-1	WAINSCOT AT SERVICE SINK	S1
115	ELEC	RB-2	CONC-2	P-1	ACT-1	-	S1
116	MECH	RB-2	CONC-2	P-1	EXP TO STRUCTURE	-	S1
116A	CHASE	NONE	CONC-2	P-1	EXP TO STRUCTURE	-	S1
117	STUDENT FLIGHT PLANNING	RB-1	CONC-1	P-1	ACT-1	SR	S1
118	FLIGHT INSTRUCTOR	RB-1	CONC-1	P-1	ACT-1	SR	S1
119	OFFICE	RB-1	CONC-1	P-1	ACT-1	SR	S1
120	FLIGHT CREW QUIET ROOM	RB-1	CONC-1	P-1	ACT-1	SR, AREA CARPET	S1
121	FLIGHT CREW LOUNGE	RB-1	CONC-1	P-1/P-3	ACT-1	SR	S1
121A	BREAK AREA	RB-1	FT-2 / THICKSET	P-1	ACT-1	SR	-
121B	FLIGHT CREW RESTROOM & SHOWER	WT-2	FT-2 / THICKSET	WT-2	GWB MR/ P-4	SR	S4
125	SERVER	RB-2	VCT-1	P-1	ACT-1	-	S1
143	VENDING / ATM	RB-1	CONC-1	P-1	GWB/ P-4	-	-
200	FUTURE HANGAR	FUTURE FIN	FUTURE FIN	FUTURE FIN	FUTURE FIN	FUTURE; ALT	-
201	EXIT CORR. A	RB-2	EPOXY PAINT	FUTURE FIN	FUTURE FIN	FUTURE; ALT	-
202	EXIT CORR. B	RB-2	EPOXY PAINT	FUTURE FIN	FUTURE FIN	FUTURE; ALT	-

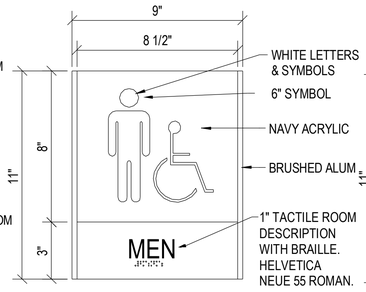
FINISH SCHEDULE LEGEND- INTERIOR MATERIAL & COLOR BASIS OF DESIGN

FINISH	DESCRIPTION	MANUFACTURER	STYLE	COLOR	COMMENTS
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	CERAMAGUARD 605	WHITE	JANITORS CLOSETS; MOISTURE RESISTANT
ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG	CIRRUS	WHITE	OFFICES, STORAGE & ELECTRICAL
AMC-1	ACOUSTICAL METAL CEILING	ARMSTRONG	METALWORKS - LINEAR CLASSICS	WOOD GRAIN	WOOD GRAIN LINEAR CEILING - MEETING ROOM
AMC-2	LINEAR METAL ACOUSTICAL CEILING	VERSA-DEK	2.0 LS ES ACOUSTICAL	MANUFACTURER'S STANDARD WHITE	FIELD-PAINT W/ KYNAR COATING IF FACTORY FINISH IS UNAVAILABLE. SOUND INSULATION INSERTS & FASTENERS ARE TO BE PAINTED TO MATCH CEILING. FASTENERS ARE TO BE CONCEALED IN THE DECK REVEALS. EXTERIOR CANOPIES SHALL RECEIVE SIMILAR TREATMENT BUT ARE TO BE NON-PERFORATED.
AWT	ACCENT WALL TILE	TILE BAR	RENZO PORCELAIN TILE	AVORIA	12 X 24 - MATTE FINISH, BEHIND RESTROOM MIRRORS
CG	CORNER GUARD	C/S ACROVYN	SHADOWGRAIN TEXTURE	STAINLESS STEEL	2 X 2, SSTL
CONC-1	POLISHED CONCRETE	REFER TO SPEC			LOBBY, HALLWAYS & OFFICES (BLACK AND BLUE GLASS & BLACK BEAUTY AGGRAGATES)
CONC-2	SEALED CONCRETE	REFER TO SPEC		CLEAR SEALER	LIGHT BROOM FINISH
CONC-3	EXTERIOR CONCRETE	REFER TO SPEC			SEALED, SMOOTH, TROWELED FINISH
CONC-4	COQUINA CONCRETE	REFER TO SPEC			EXTERIOR CONCRETE. SEALED, SAW CUT & SAND BLASTED.
CPT-1	CARPET	MILLIKEN	MORAINE - EXPLORER	EXR 123-19 STRATUM	PERIMETER CARPET OF CONFERENCE ROOM
CPT-2	CARPET	MILLIKEN	MORAINE - NAVIGATOR	NAV123-19 STRATUM	CENTER ACCENT OF CONFERENCE ROOM
CPT-3	WALK OFF CARPET	AMERICAN FLOOR MATS	3/4" RECESSED GRILLE	BLUE	RECESSED -3/4"
CT-1	QUARTZ SURFACES	CAESARSTONE	ENGINEERED STONE SLAB	NOUGAT	PUBLIC BATHROOM COUNTERTOP - MITERED EDGE
CT-2	QUARTZ SURFACES	CAESARSTONE	ENGINEERED STONE SLAB	LONDON GREY	FBO KITCHEN, FLIGHT CREW BREAK AREA & OFFICES, & SOLID SURFACE WINDOW SILLS & LOCKER BENCH - BULLNOSE EDGE
CT-3	GRANITE TOP	MYSTIC GRANITE & MARBLE	GRANITE - POLISHED	BLUE IN THE NIGHT	RECEPTION COUNTER AND FLIGHT PLANNING DESK AT LOBBY. BULLNOSE EDGE PROFILE.
FT-1	CERAMIC FLOOR TILE	EMSER TILE	SANDSTORM	MOJAVE	PUBLIC BATHROOM FLOOR TILE
FT-2	CERAMIC FLOOR TILE	GARDEN STATE TILE	VENEZIANO	WHITE BASE MATTE	PRIVATE RESTROOMS - FBO RESTROOM & FLIGHT CREW RESTROOM
FW	FOCAL WALL	MOZ METALS	GRADIENT	AURORA	PUBLIC BATHROOM FOCAL WALLS
MD-1	LINEAR METAL DECK CEILING	VERSA-DEK	2.0 LS ES	WHITE	CANOPIES - NON-PERFORATED & NON-ACOUSTICAL
MRP-1	METAL ROOF PANELS	ATAS INTERNATIONAL	1 1/2" FIELD LOCK	DOVE GRAY	STANDING SEAM
P-1	WALL PAINT	SHERWIN WILLIAMS	INTERIOR EGGSHELL	SW 7004 - SNOWBOUND	WALL PAINT
P-2	DOOR FRAME PAINT	SHERWIN WILLIAMS	INTERIOR SEMI-GLOSS	SW 7019 - GAUNTLET GRAY	DOOR FRAMES BOTH INTERIOR & EXTERIOR. EXTERIOR TRIM PAINT
P-3	HOLLOW METAL DOOR	SHERWIN WILLIAMS	INTERIOR SEMI-GLOSS	SW 7004 - SNOWBOUND	DOOR PAINT
P-4	CEILING PAINT	SHERWIN WILLIAMS	INTERIOR EGGSHELL	SW 7007 - CLG BRIGHT WHITE	CEILING PAINT
P-5	CEILING PAINT	SHERWIN WILLIAMS	INTERIOR EGGSHELL	SW 6506 - VAST SKY	CEILING PAINT @ STEPP UP CEILING IN ROOM VESTIBULE 100
P-6	STUCCO PAINT	SHERWIN WILLIAMS	ACRYLIC EXTERIOR	SW 8917 - SHELL WHITE	STUCCO PAINT COLOR
P-7	SIDING PAINT	SHERWIN WILLIAMS	ACRYLIC EXTERIOR	SW 7655 - STAMPED CONCRETE	SIDING PAINT COLOR
RB-1	RUBBER BASE	ROPPE	SIMPLICITY - PV 4000	DARK GRAY	FLAT RUBBER BASE
RB-2	RUBBER BASE	ROPPE	PINNACLE	DARK GRAY	COVE RUBBER BASE - BACK OF HOUSE
RS	WINDOW TREATMENT - ROLLER SHADES	HUNTER DOUGLAS	TRANSLUCENT		ALL FIXED GLASS WINDOWS EXCEPT CLERESTORY AND STOREFRONT
ST-1	WOOD DOOR STAIN	TRUSTILE	WHITE OAK	GREY MIST	WOOD DOOR STAIN TO MATCH BEAMS & MILLWORK
ST-2	WOOD STAIN	MINWAX	PENETRATING	TO MATCH WOOD DOOR STAIN	GLULAM BEAMS (FRT WOOD)
TRZ-1	TERRAZZO FLOORING	TERRAZZO & MARBLE SUPPLY CO.	POLISHED	GREY CHIP, GREY RESIN	FLOOR COMPASS REFER TO DRAWING A-405/01
TRZ-2	TERRAZZO FLOORING	TERRAZZO & MARBLE SUPPLY CO.	POLISHED	WHITE CHIP, WHITE RESIN	FLOOR COMPASS REFER TO DRAWING A-405/01
TRZ-3	TERRAZZO FLOORING	TERRAZZO & MARBLE SUPPLY CO.	POLISHED	BLUE CHIP, BLUE RESIN	FLOOR COMPASS REFER TO DRAWING A-405/01
VCT-1	ANTI STATIC VINYL FLOOR TILE	ARMSTRONG	ANTI STATIC	FOSSIL GRAY	SERVER ROOM
WT-1	CERAMIC TILE	GARDEN STATE TILE	RE-COLOR	ALMOND GLOSS	12 X 24, GLOSS RECTIFIED - PUBLIC RESTROOM WALL TILE
WT-2	CERAMIC TILE	GARDEN STATE TILE	RE-COLOR	ECRU GLOSS	12 X 24, GLOSS RECTIFIED - PRIVATE RESTROOM & SHOWER WALL TILE

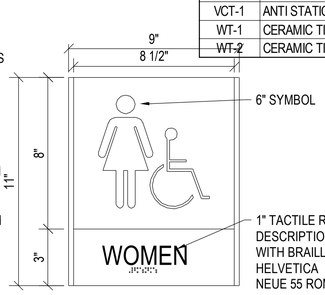


S1A S1 ROOM ID
SCALE: 3" = 1'-0"

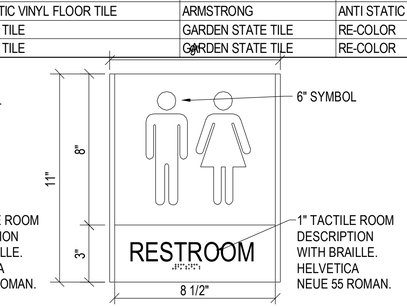
NOTE:
1. LAYERED ROOM SIGNS S1A.
2. S1A ROOM ID W/ INTERCHANGEABLE MESSAGE.
3. REF TO EXT. ELEV. FOR ADDT'L SIGNAGE



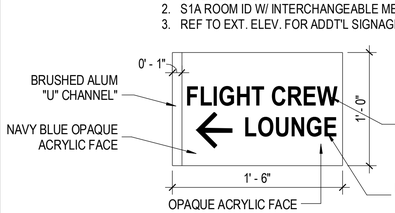
S2 RESTROOM - MEN - ADA
SCALE: 3" = 1'-0"



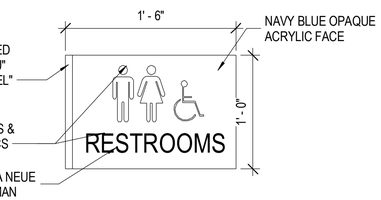
S3 RESTROOM - WOMEN - ADA
SCALE: 3" = 1'-0"



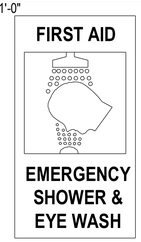
S4 RESTROOM - UNISEX - SIGN
SCALE: 3" = 1'-0"



S5 WAYFINDING SIGN
SCALE: 1 1/2" = 1'-0"

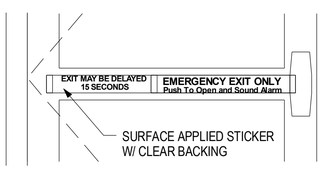


S6 WALL MOUNTED RESTROOM SIGN
SCALE: 1 1/2" = 1'-0"



NOTE: SIGNAGE PROVIDED BY SHOWER/EYE WASH MANUFACTURER

S7 EYE WASH
SCALE: 3" = 1'-0"

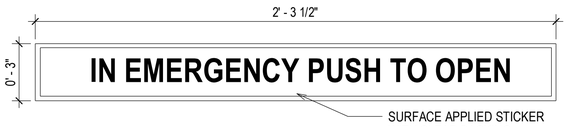


S8 15 SECOND DELAY
SCALE: 1/2" = 1'-0"

NOTES - FINISH PLANS

1. INTERIOR FINISH / MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. ALL FUTURE UNFINISHED SPACES SHALL BE COMPLETED UNDER A SEPARATE PROJECT.
3. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION, REQUIREMENTS & MOCK UPS.
4. REFERENCE REFLECTED CEILING PLAN FOR LIGHT COVES ADDITIONAL NOTES, FINISHES & CEILING HEIGHTS.
5. SR = SOUND RATED WALLS AND CEILING
6. MOISTURE CONTENT BE FIELD VERIFIED PRIOR TO FINISH FLOOR INSTALLATION; PREP FLOOR AS PER MFG RECOMMENDATIONS.
7. ALL FLOOR TRANSITIONS TO BE FLUSH & THRESHOLDS TO BE ADA COMPLIANT.
8. ALL GWB CLG'S, SOFFITS & COVES TO BE LEVEL 5 FINISH.
9. REFERENCE FINISH PLAN FOR SIGNAGE LOCATIONS
10. FINISHES IN THE SPECIFICATIONS OR IN THE FINISH SCHEDULE LEGEND ABOVE SHALL SERVE AS BASIS OF DESIGN.

SIGN NOTES:
1. REF SHEET A-002 FOR MOUNTING HEIGHTS.
2. ALL BRAILLE LETTERING TO BE CERTIFIED VALIDATING CORRECT MESSAGE.
3. REF ELEVATIONS FOR EXTERIOR SIGNAGE.
4. REF CANOPY SECTION FOR CLEARANCE SIGNAGE.



S9 IN EMERGENCY PUSH TO OPEN
SCALE: 3" = 1'-0"

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

FINISH SCHEDULE & SIGNAGE SCHEDULE

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	JP
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
A-142

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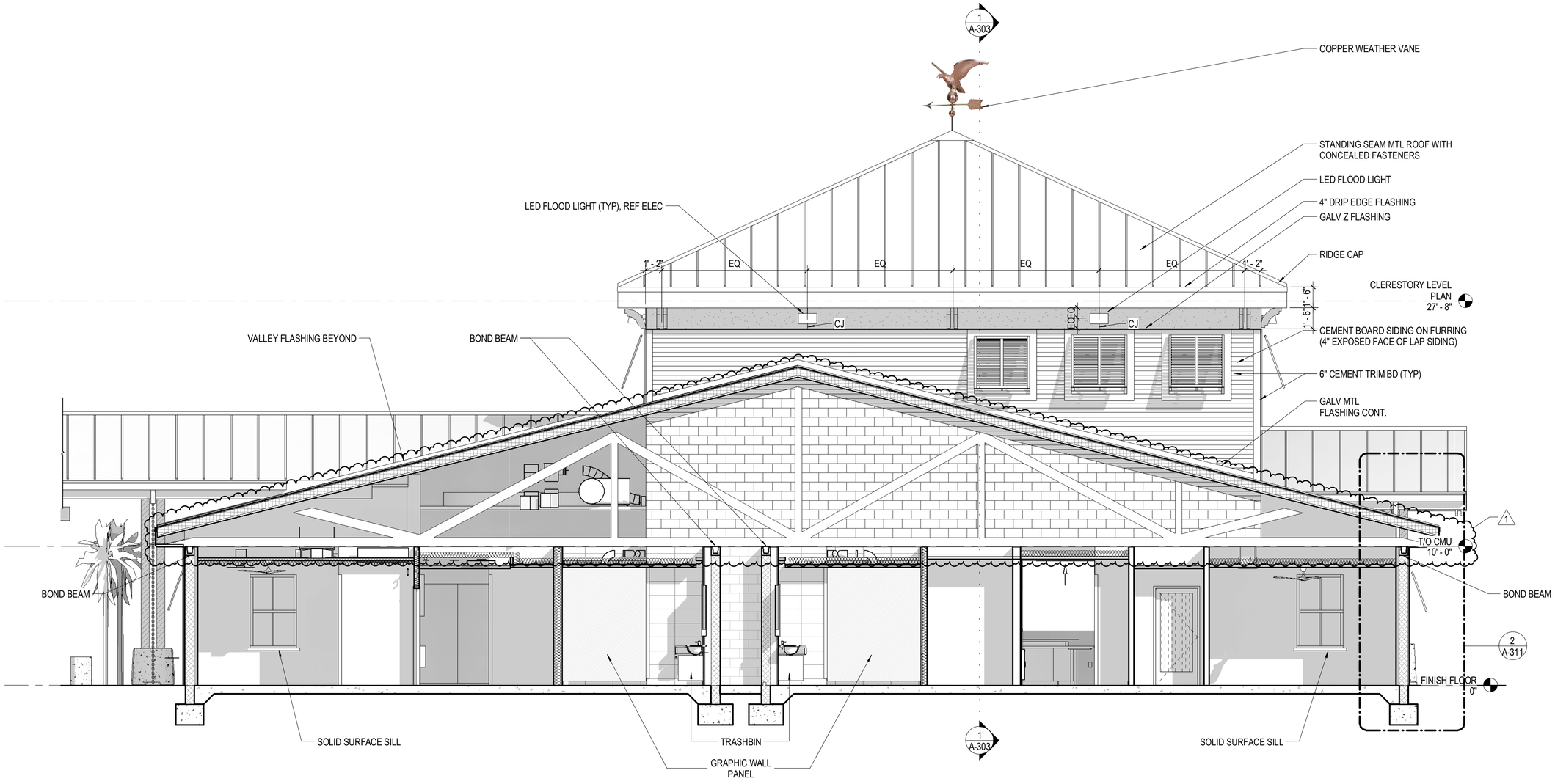

1 EAST ELEVATION @ CLERESTORY & BUILDING CROSS SECTION

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

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · REGISTERED ARCHITECT · AR0011007

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

ELEVATION

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	**Designer**
DRAWN BY:	**Author**
CHECKED BY:	**Checker**
APPROVED BY:	**WAH**
PROJECT NO:	**176232**
DATE:	**11/1/2021**

SHEET NUMBER

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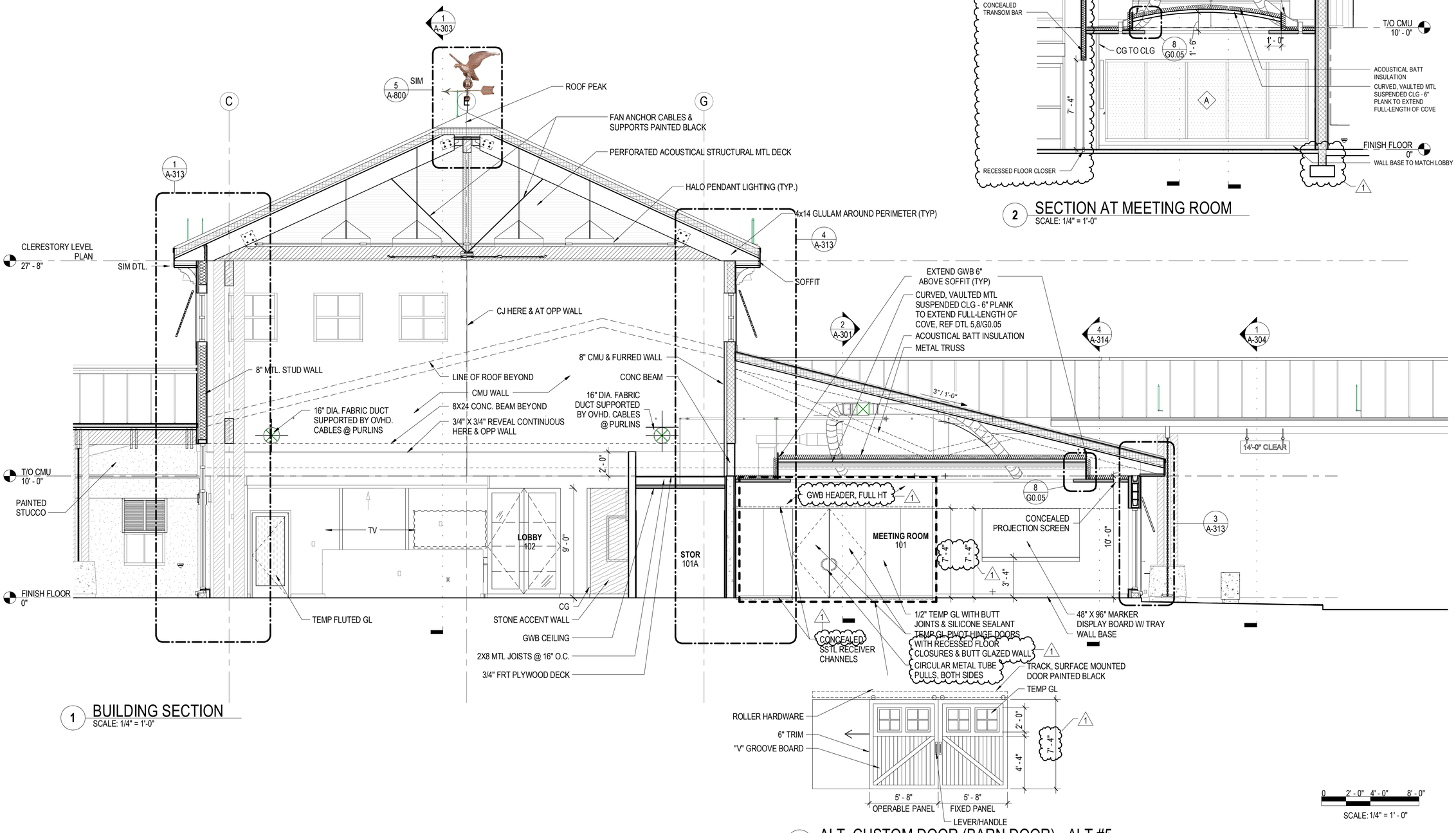
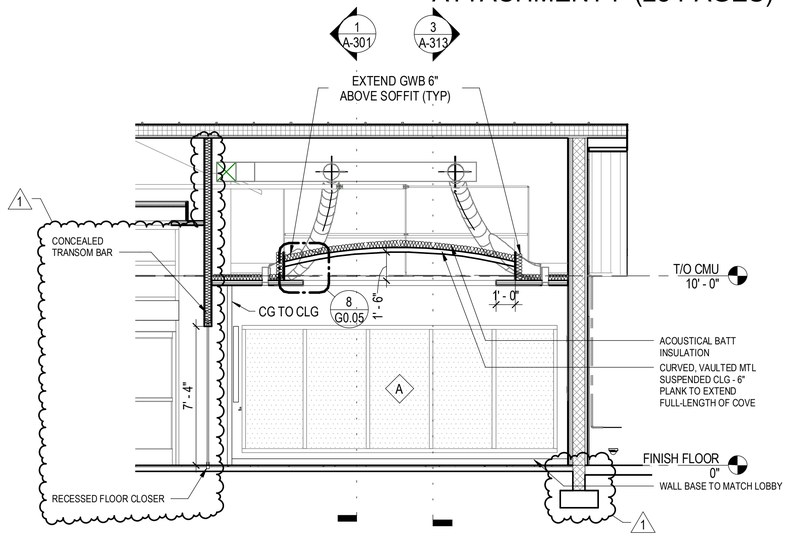


1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



2 SECTION AT MEETING ROOM
SCALE: 1/4" = 1'-0"

3 ALT. CUSTOM DOOR (BARN DOOR) - ALT #5
SCALE: 1/4" = 1'-0"

NOTE:
IN LIEU OF TEMP GL WALL & BUTT GLAZED WINDOW

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WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

BUILDING SECTIONS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	MW
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
A-301

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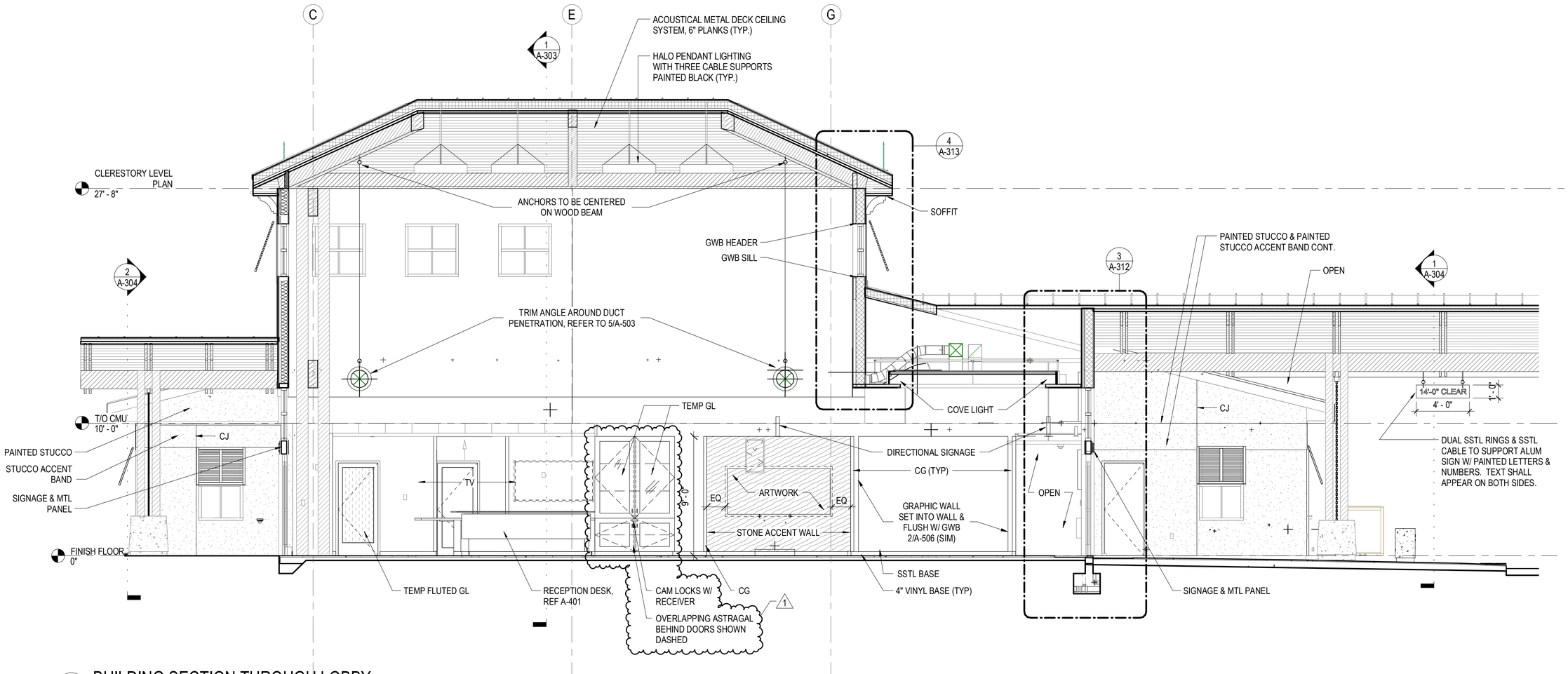

1 BUILDING SECTION THROUGH LOBBY
SCALE: 1/4" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"
SCALE: 1/8" = 1' - 0"

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STATE OF FLORIDA
WILLIAM A. HAYWARD JR.
REGISTERED ARCHITECT
AR0011007

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

BUILDING SECTIONS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	-
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

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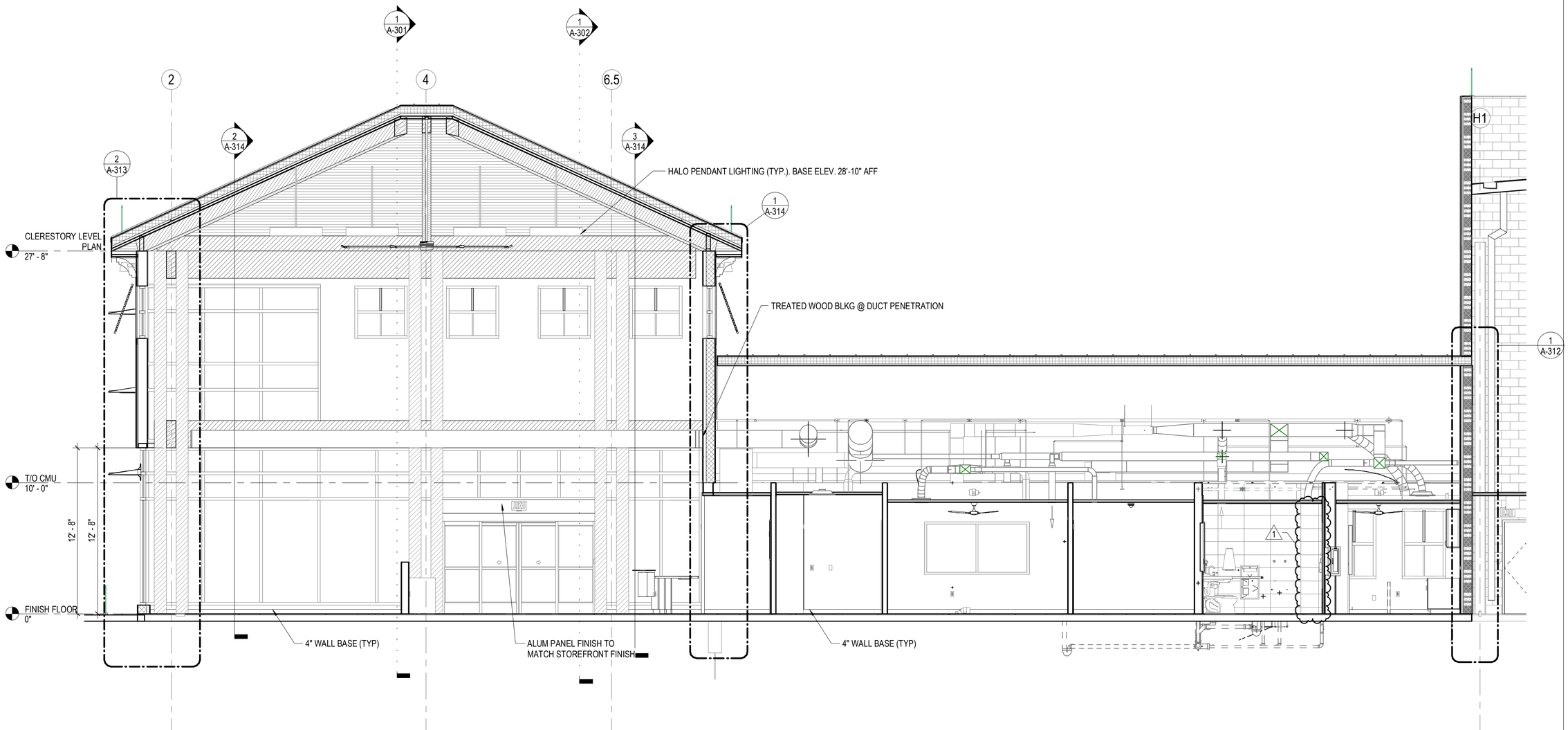

1 BUILDING SECTION THROUGH LOBBY 2
SCALE: 1/4" = 1'-0"

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STATE OF FLORIDA
WILLIAM A. HAYWARD JR.
AR0011007
REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

BUILDING SECTIONS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

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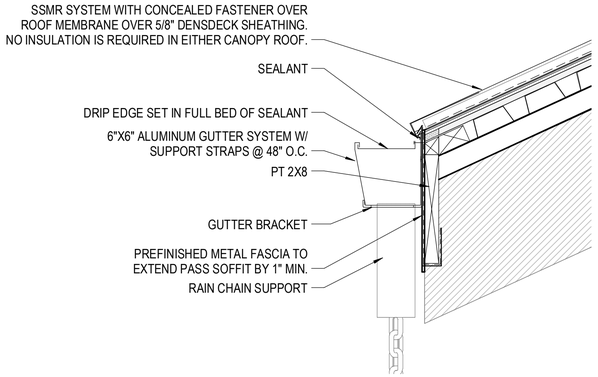
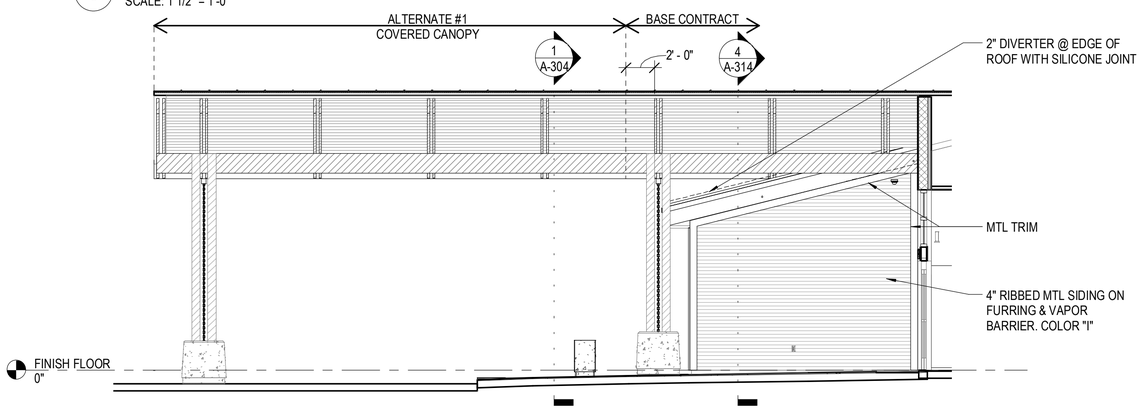
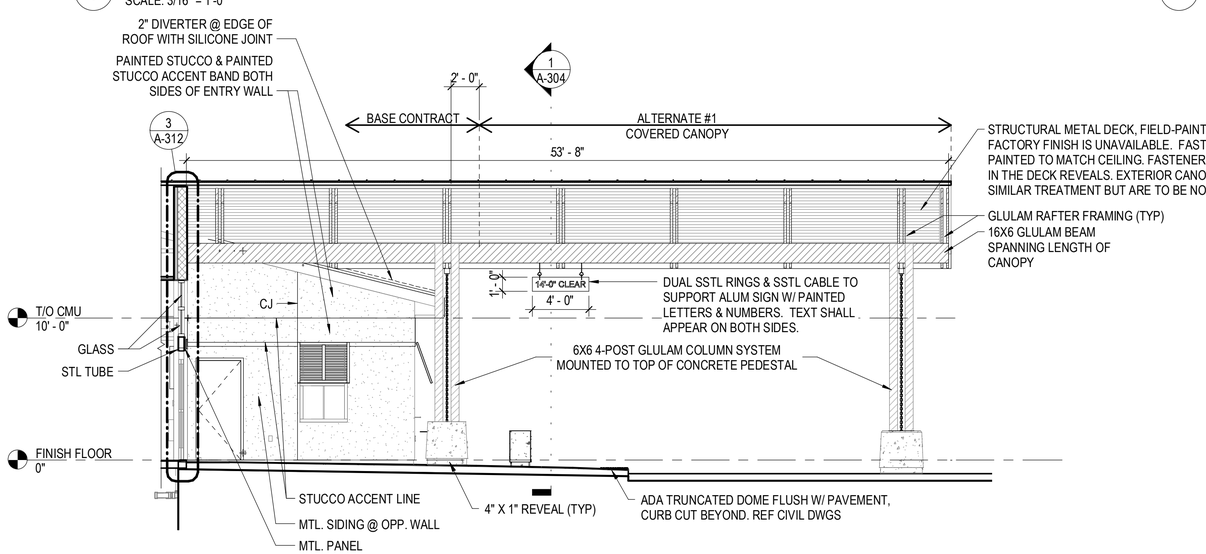


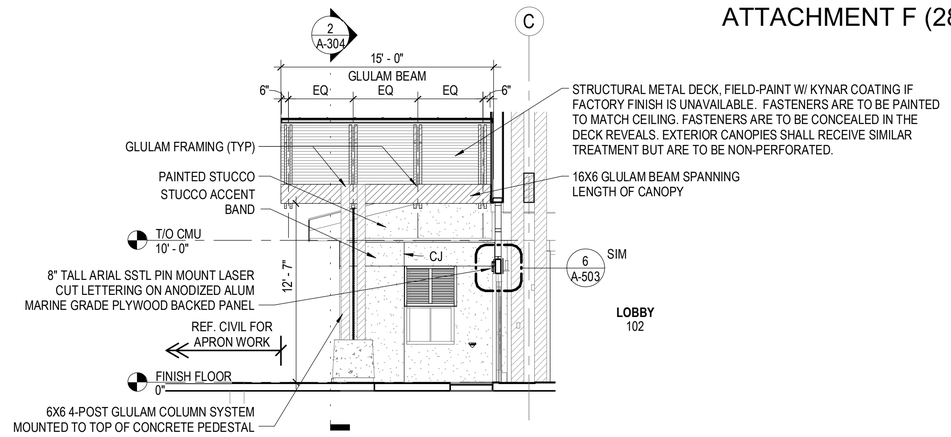
6 CANOPY GUTTER DETAIL, TYPICAL
SCALE: 1 1/2" = 1'-0"



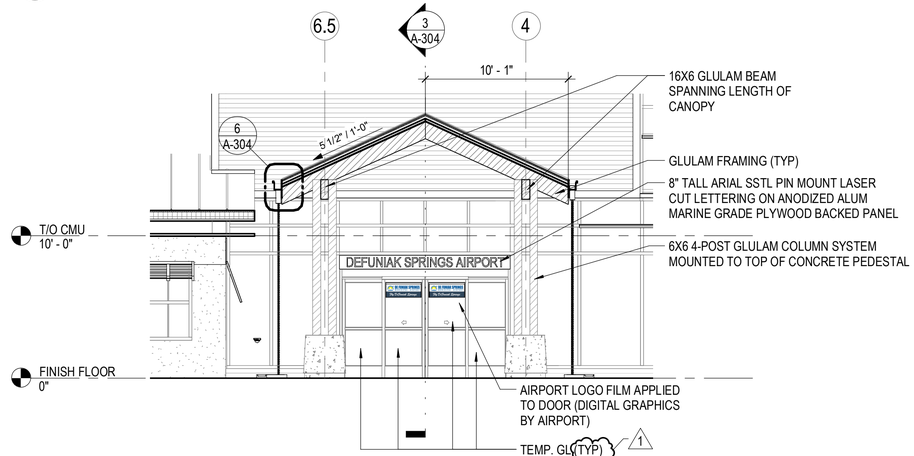
5 LANDSIDE ENTRY CANOPY SECTION - REVERSE
SCALE: 3/16" = 1'-0"



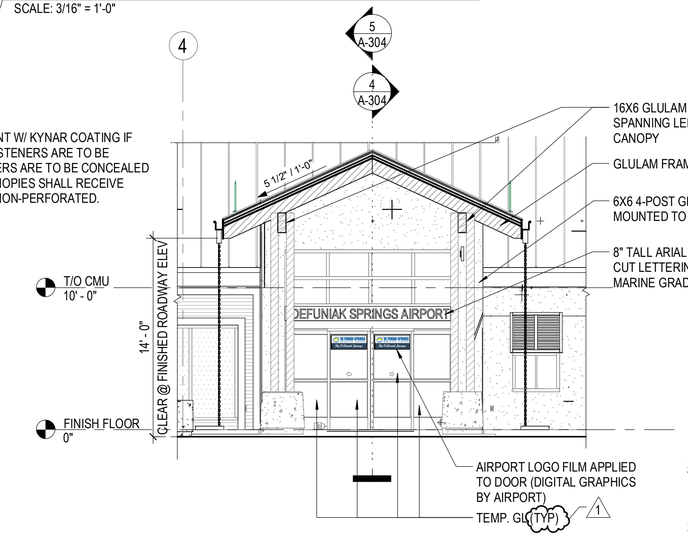
4 LANDSIDE ENTRY CANOPY SECTION
SCALE: 3/16" = 1'-0"



3 AIRSIDE ENTRY CANOPY SECTION
SCALE: 3/16" = 1'-0"



2 AIRSIDE ENTRY CANOPY CROSS SECTION
SCALE: 3/16" = 1'-0"



1 LANDSIDE ENTRY CANOPY CROSS SECTION
SCALE: 3/16" = 1'-0"

SHEET NOTES:

1. ALL GLULAM BEAMS & COLUMNS TO BE FIRE RETARDANT TREATED, STAINED & SEALED, INCLUDING THE ENDS OF THE COLUMNS AND BEAMS.
2. THE CANOPY ROOF DETAILS SHOWN ON THIS SHEET ARE SIMILAR TO THE TERMINAL ROOF, HOWEVER THERE WILL NOT BE ANY INSULATION REQUIRED. THE SUB-ROOF SHEATHING BOARD AND SUB-ROOF MEMBRANE SHOWN ON THESE DETAILS SHALL BE INSTALLED AT THE CANOPY ROOF.

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

CANOPY SECTIONS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

A-304

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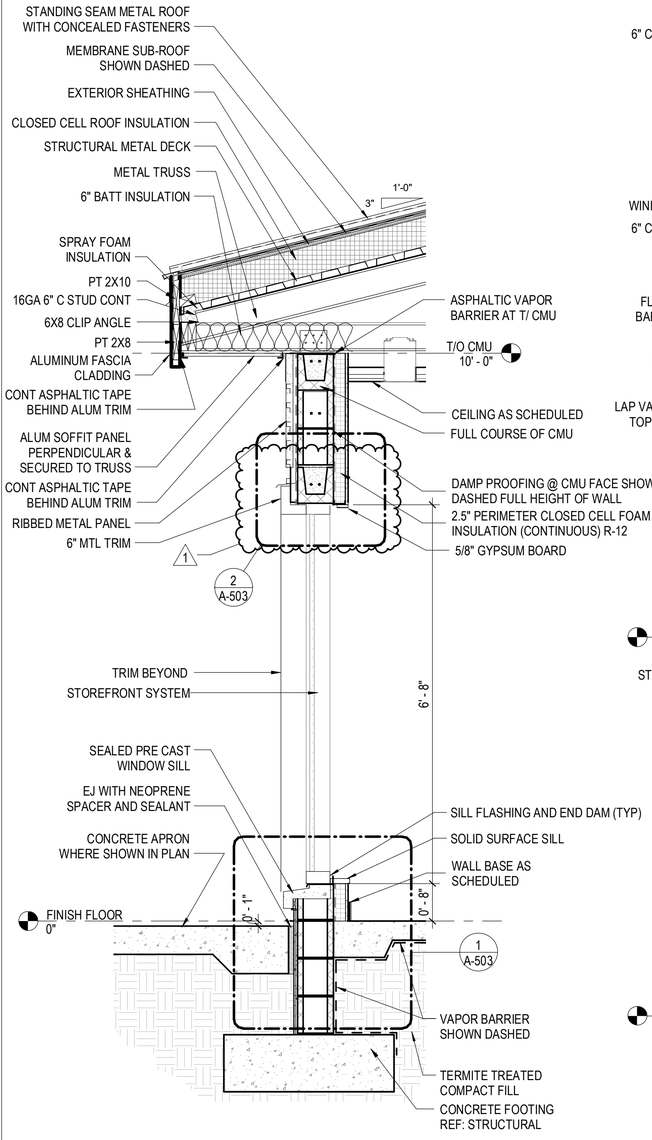
ATTACHMENT F (28 PAGES)



3 WALL SECTION 9
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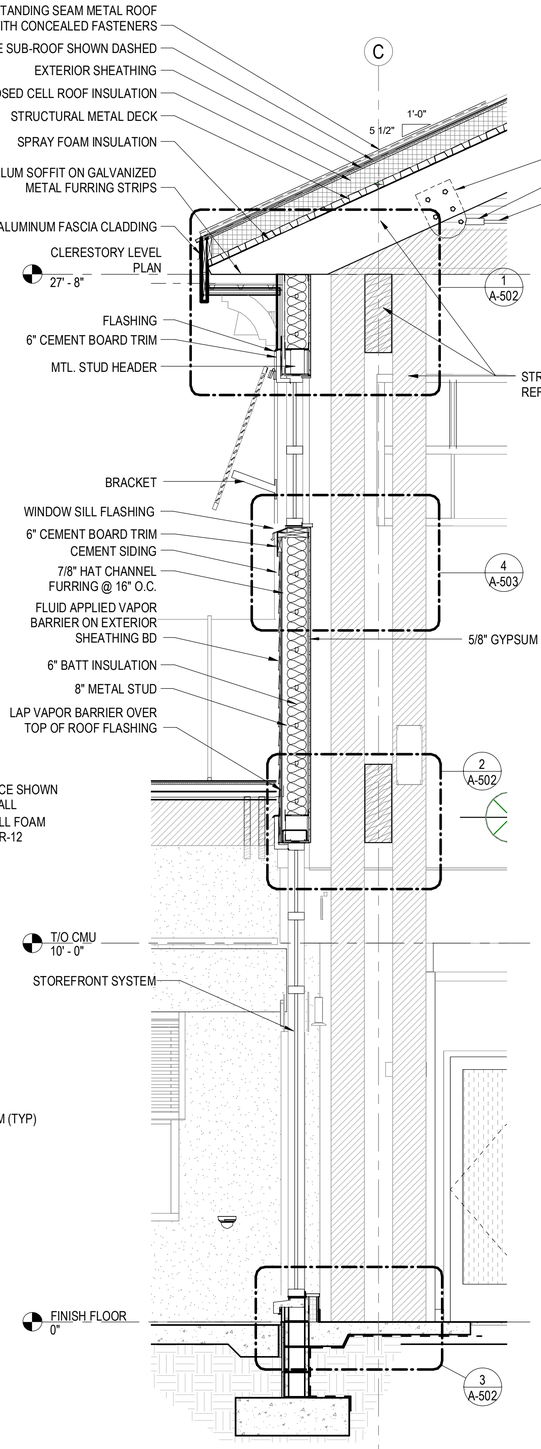

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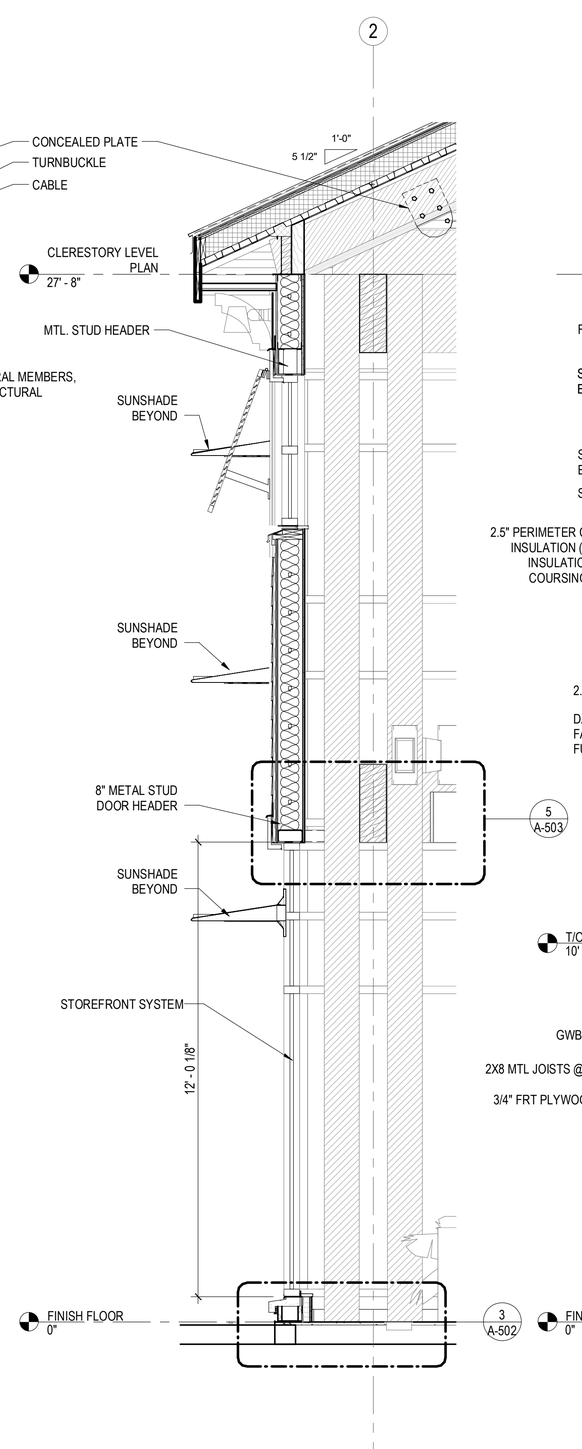
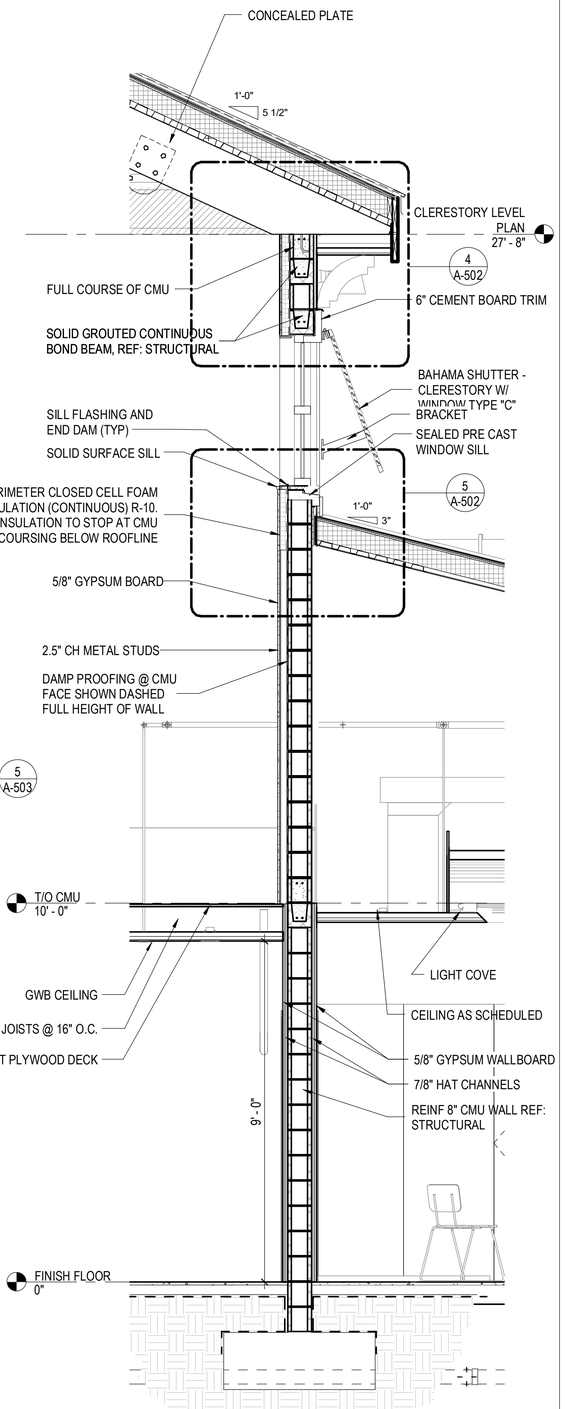


2 WALL SECTION 8
SCALE: 1/2" = 1'-0"

REFER TO DETAIL 1 & 3 THIS SHEET FOR ADDITIONAL NOTES AND DIMENSIONS



4 WALL SECTION 10
SCALE: 1/2" = 1'-0"

REFER TO DETAIL 1 & 3 THIS SHEET FOR ADDITIONAL NOTES AND DIMENSIONS

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

WALL SECTIONS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	DN
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

A-313

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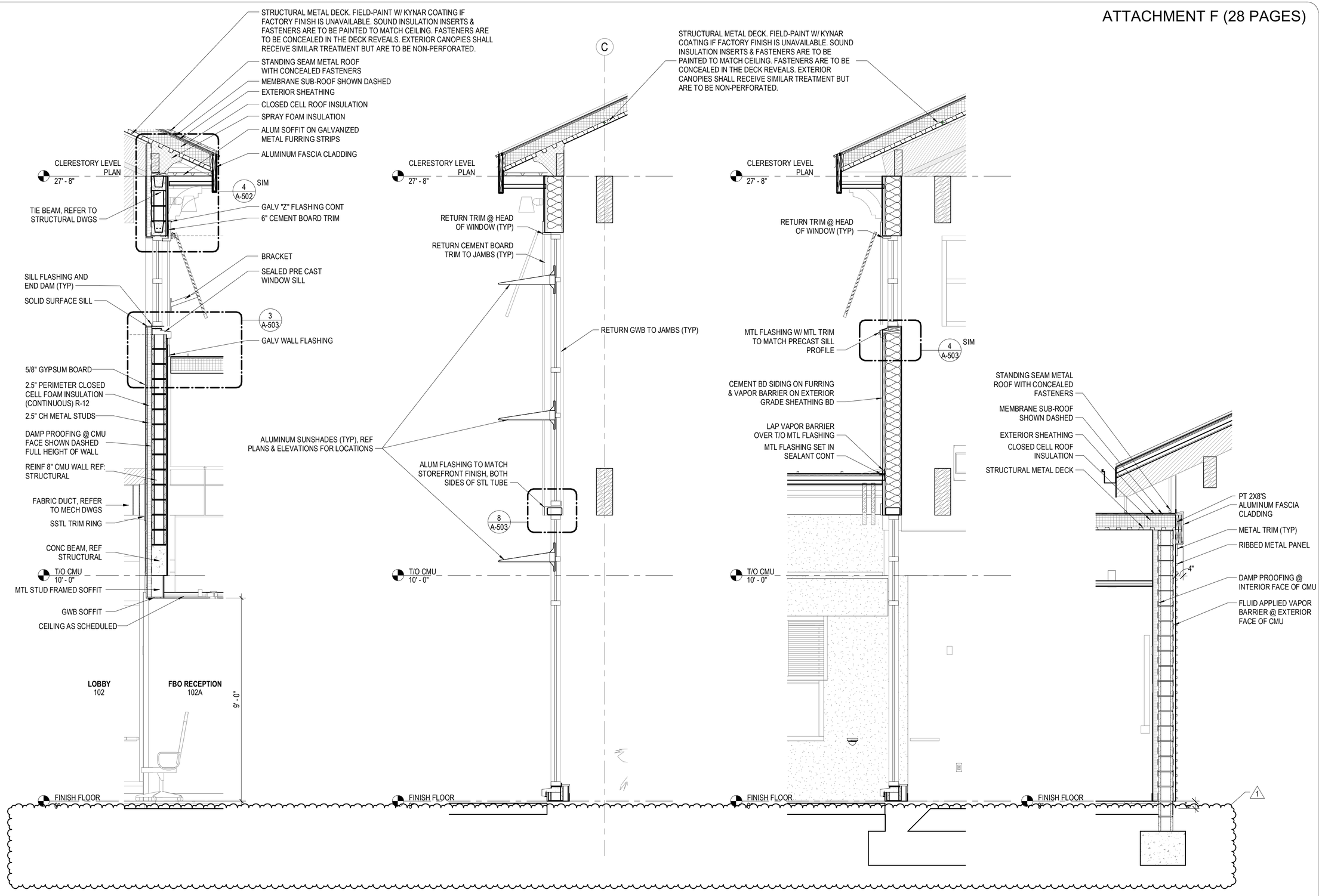

1 WALL SECTION 11
SCALE: 1/2" = 1'-0"

2 WALL SECTION 12
SCALE: 1/2" = 1'-0"

3 WALL SECTION 13
SCALE: 1/2" = 1'-0"

4 SECTION @ MEETING ROOM
SCALE: 1/2" = 1'-0"

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

WALL SECTIONS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

A-314

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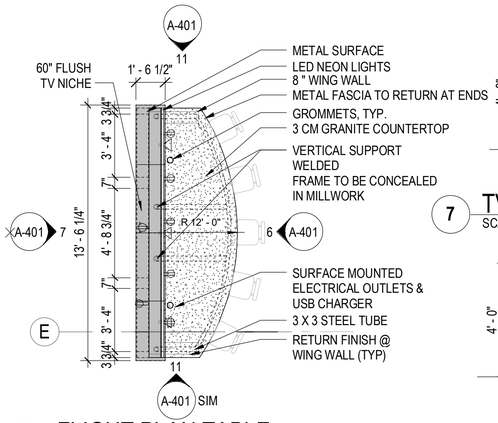
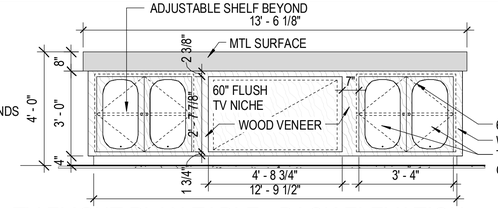
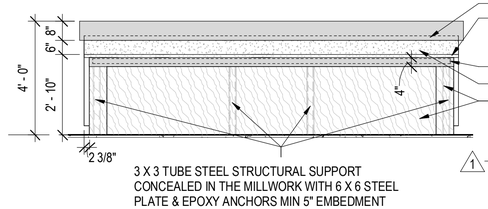
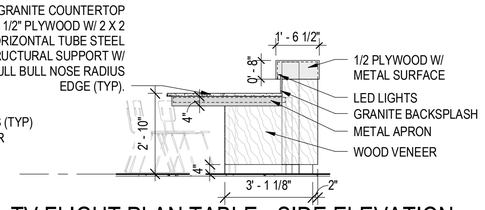


5 FLIGHT PLAN TABLE
SCALE: 1/4" = 1'-0"

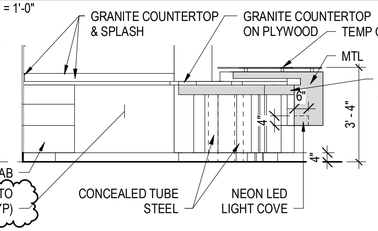


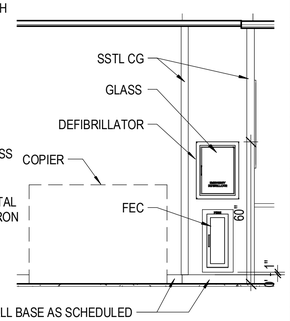
7 TV FLIGHT PLAN TABLE - BACK ELEVATION
SCALE: 3/8" = 1'-0"





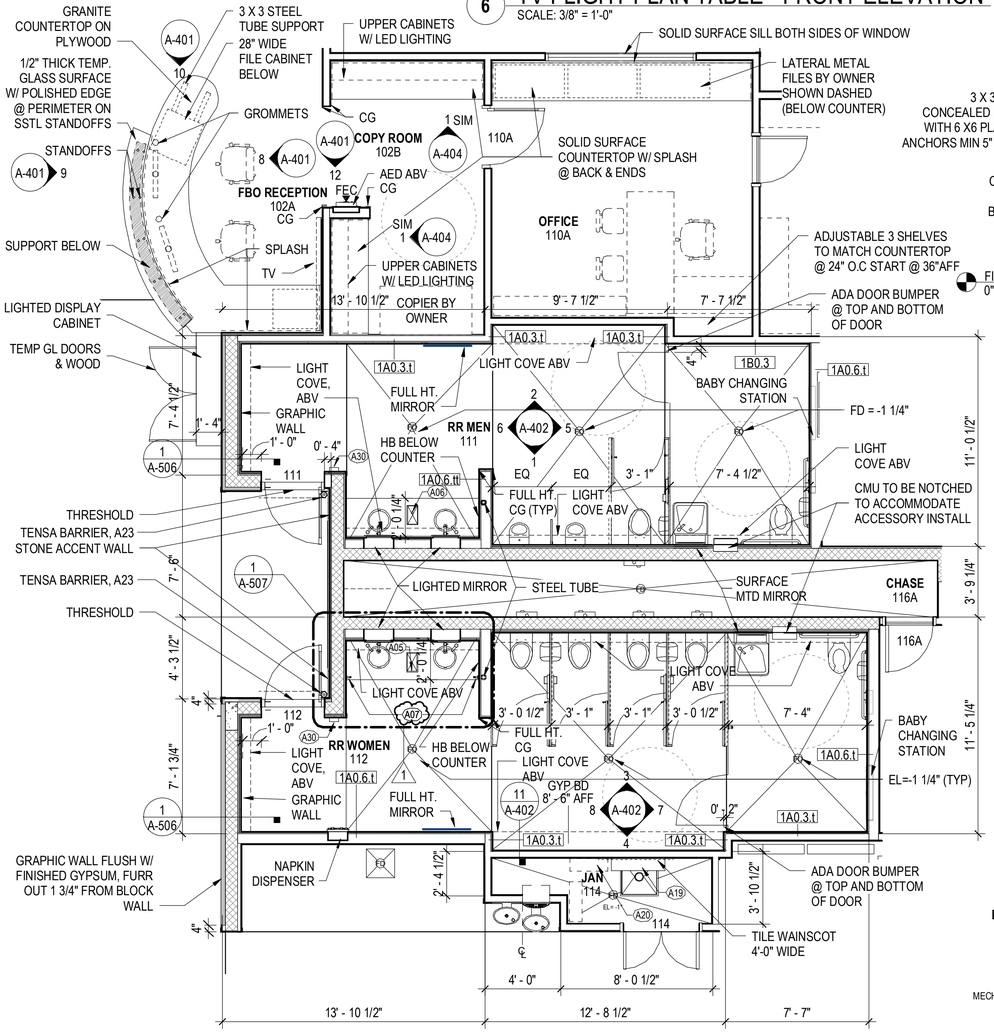
11 TV FLIGHT PLAN TABLE - SIDE ELEVATION
SCALE: 3/8" = 1'-0"





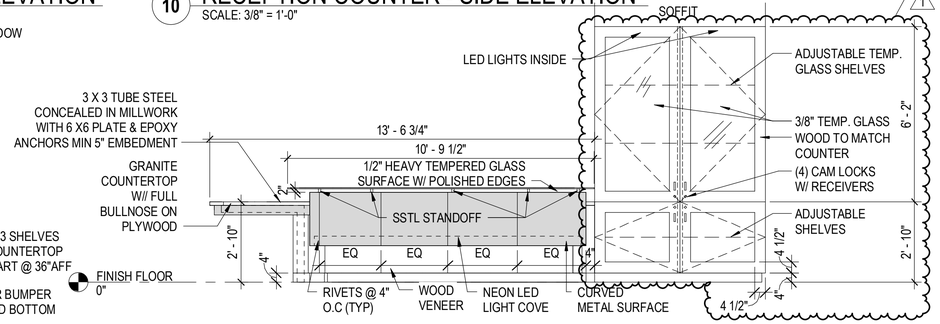
12 FEC/AED ELEVATION
SCALE: 3/8" = 1'-0"

6 TV FLIGHT PLAN TABLE - FRONT ELEVATION
SCALE: 3/8" = 1'-0"

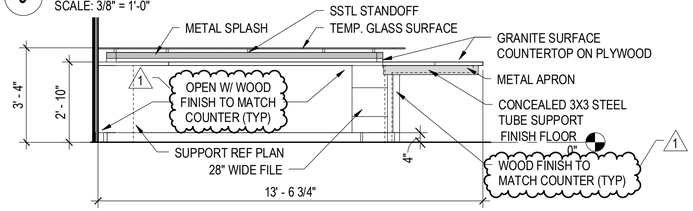


1 PUBLIC RESTROOMS
SCALE: 1/4" = 1'-0"

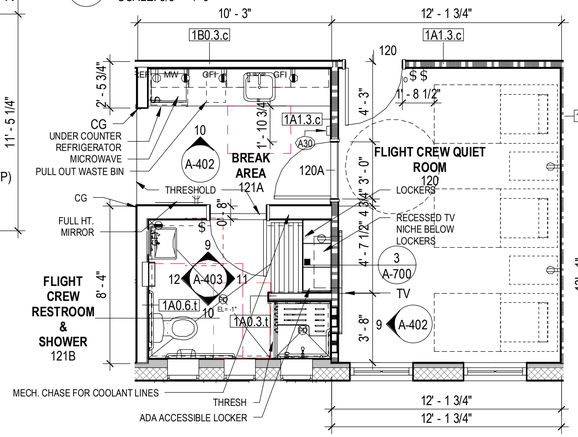
10 RECEPTION COUNTER - SIDE ELEVATION
SCALE: 3/8" = 1'-0"



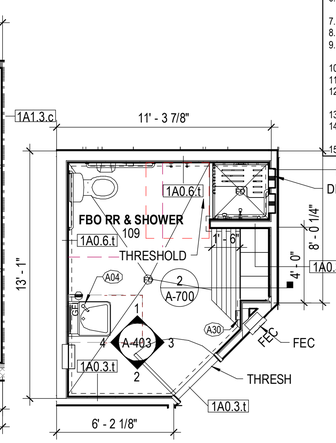
9 RECEPTION COUNTER - FRONT ELEVATION
SCALE: 3/8" = 1'-0"



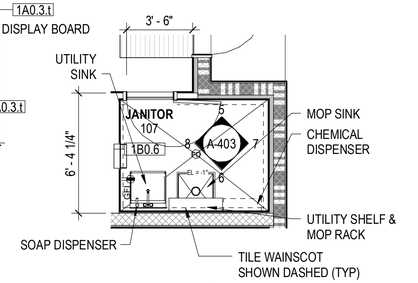
8 RECEPTION COUNTER - BACK ELEVATION
SCALE: 3/8" = 1'-0"



2 FLIGHT CREW QUIET ROOM
SCALE: 1/4" = 1'-0"



3 FBO RESTROOM MEN
SCALE: 1/4" = 1'-0"



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

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ACCESSORIES SCHEDULE

#	DESCRIPTION	MODEL	COMMENTS
A01	MIRROR	BOBRICK/GAMCO	BACKLIT MIRROR W/ CUSTOM PAPER TOWEL DISPENSER WITH PLASTIC PAPER GUIDE FOR PAPER DISPENSING CONTROL
A02	MIRROR (ADA)	BOBRICK (SERIES)	MOUNT PER ADA REQUIREMENTS W SSTL TRIM. (1' 6" X 3' 10")
A03	FULL HEIGHT MIRROR	BOBRICK B-290 (SERIES)	CUSTOM SIZE (2'-6" X 6'-10" W/ 1" SSTL FRAME) TOP OF MIRROR TO ALIGN WITH TOP OF DOOR
A04	SOAP DISPENSER	SLOAN ESD-2000	MOUNT AT ADA SINK AND COUNTER (TYP)
A05	COUNTERTOP	CAESARSTONE QUARTZ - NOUGAT	QUARTZ
A06	THROUGH COUNTER TRIM/ WASTE CHUTE	CAESARSTONE - QUARTZ	MATCH COUNTERTOP
A07	UNDER COUNTER HOOK	JACKNOB 4290	MOUNT UNDER WOMEN'S RR SINK COUNTER
A08	TOILET PARTITION	PLAM/ FLOOR MOUNTED	W CONTINIOUS SSTL "U" BRACKET @ SUPPORT ENDS & SSTL ANCHORS @FLOOR.
A09	ADA DOOR BUMPER 1	JACKNOB 4151	MOUNTED ON TOP AND BOTTOM OF PARTITIONS WHERE INDICATED; 2 PER DOOR (TYP)
A10	COAT HOOK & DOOR BUMBER	JACKNOB-4003	MOUNT AT PARTITION NOT DOOR
A11	URINAL SCREEN BRACKET	JACKNOB 2369	CONT. SSTL BRACKET
A12	GRAB BAR - 36" REAR WALL	BOBRICK B-5806-36	MOUNT PER ADA REQUIREMENTS.
A13	GRAB BAR - 42" SIDE WALL	BOBRICK B-5806-42	MOUNT PER ADA REQUIREMENTS.
A14	COMBINATION TOILET TISSUE UNIT & SEAT DISPENSER (RECESSED @WALL)	BOBRICK B-3574/3575	MALE / FEMALE WITH NAPKIN DISPOSAL; FLUSH WITH WALL AT GRAB BAR - TISSUE HOLDER WITHIN 7"-9" OF TOILET SEAT (LH/RH MODELS)
A15	COMBINATION TOILET TISSUE UNIT & SEAT DISPENSER (THROUGH PARTITION)	BOBRICK B-357/3571	MALE / FEMALE WITH NAPKIN DISPOSAL; FLUSH WITH WALL AT GRAB BAR - TISSUE HOLDER WITHIN 7"-9" OF TOILET SEAT (LH/RH MODELS)
A16	BABY CHANGING STATION (RECESSED)	BOBRICK KB110-SSRE	
A17	SANITARY NAPKIN VENDOR (RECESSED)	BOBRICK B-4706C	COST TBD
A18	COMBINATION PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK B-3940	W/ LINER MATE; 12 GAL
A19	UTILITY SHELF W/ MOP & BROOM HOLDER	BOBRICK B-239 X 34	3 HOOKS
A20	CHEMICAL DISPENSER	BY OWNER	CONNECT TO HOT WATER
A21	CORNER GUARD		1 1/2" X 1 1/2" SSTL. FULL HT. U.N.O.
A22	UNDER COUNTER SINK WASTE RECEPTACLE	BOBRICK B-2260	22" TALL; 13 GALLON CAPACITY
A23	TENSABARRIER	TENSABARRIER 896CM	AT EACH RESTROOM ENTRIES
A24	ADA FOLD DOWN SHOWER SEAT (REVERSEABLE)	BOBRICK B-5181	MOUNT PER ADA REQUIREMENTS. ALL FASTENERS @ WALL BE SEALED
A25	SHOWER GRAB BAR (90 DEGREES)	BOBRICK B-6861	MOUNT PER ADA REQUIREMENTS. ALL FASTENERS @ WALL BE SEALED
A26	SHOWER ROD & CURTAIN	BOBRICK B-207 X 36 W/ B 204-1 (HOOK) W/ B-204-2 (CURTAIN)	PROVIDE HOOKS W/ SHOWER CURTAIN; CONCEALED FASTENERS
A27	RECESSED SOAP SHELF	SEE SCHEDULE	REF. TILE SPEC; (2) PER SHOWER
A28	ROBE HOOK	BOBRICK B-549	
A29	PURSE POUCH	JACKNOB 110300	MOUNT NEAR EACH TOILET
A30	HAND SANITIZER	BY OWNER	

SHEET NOTES

1. REFER TO ACCESSORY SCHEDULE AND ADA STANDARDS FOR MOUNTING HEIGHTS.
2. ALL WALL TILE TO EXTEND TO TOP OF WALL @ LIGHT COVE.
3. REFER TO CLG PLANS FOR VARIED ELEVATIONS.
4. TOILET PARTITIONS TO BE FLOOR SUPPORTED WITH SSTL FASTENERS.
5. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL ACCESSORY INFORMATION.
6. ALL SHOWER WALLS AND BASE TO RECEIVE MEMBRANE WP. TOILET PARTITIONS AND URINAL SCREENS; CONFIRM LAYOUT PRIOR TO CONCEALING IN THE WALL
7. METAL COVE TRIM TO BE PROVIDED AT ALL WALL TILE FLOOR INTERSECTIONS
8. RAD/USED METAL TRIM TO BE PROVIDED AT ALL TILES CORNERS.
9. ALL RESTROOM HOSE BIBS SHALL BE UNDER COUNTER, RECESSED & KEYED OPERATION
10. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING FIXTURES.
11. FIXTURES WITHOUT CHASE WAYS SHALL BE FLOOR MOUNTED, U.N.O.
12. ALL ADA PLUMBING FIXTURES TO BE MOUNTED PER ADA REQUIREMENTS, INCLUDING RELATIONSHIP TO ACCESSORIES.
13. VERIFY ALL WALL DEPTHS FOR RECESSED UNITS AS PART OF FRAMING LAYOUT.
14. VERIFY ROUGH IN, LOCATION & MOUNTING HT OF ALL ACCESSORIES PRIOR TO CONCEALING FRAMING.
15. ALL MOUNTED SINKS SHALL BE INSTALLED WITH CONCEALED CARRIERS.

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1	2/23/22	Addendum 2	WAH

ENLARGED PLANS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	JP
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
A-401

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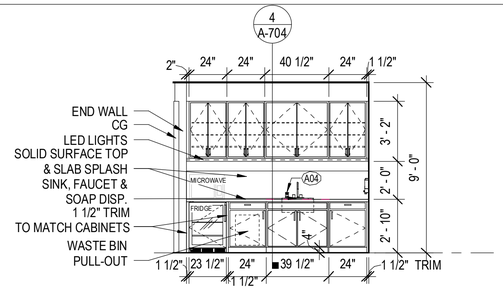
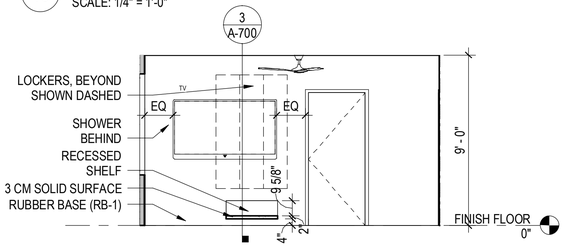
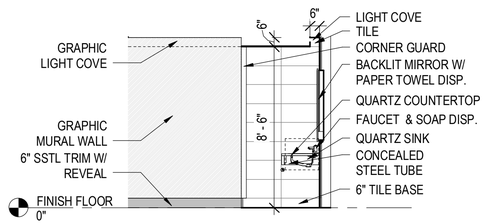


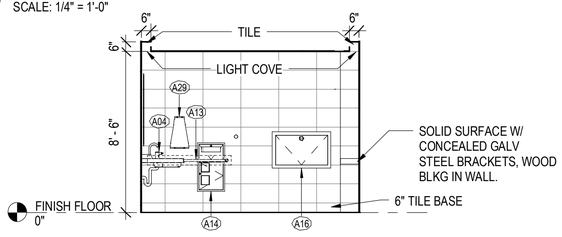
10 FLIGHT CREW BR - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



9 FLIGHT CREW QR - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



8 RR WOMEN - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



7 RR WOMEN - INTERIOR ELEV
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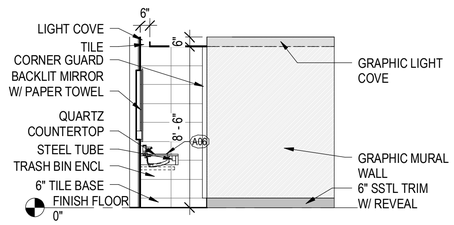

6 RR MEN - INTERIOR ELEV
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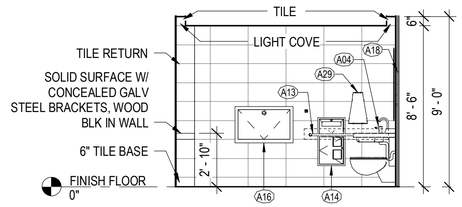
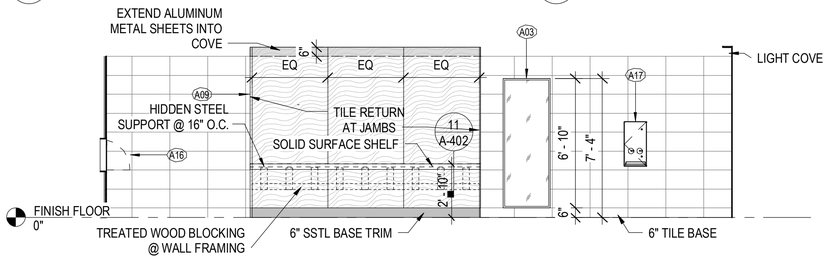
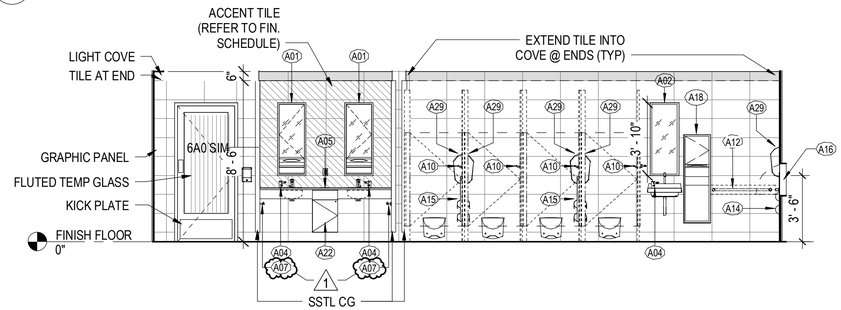


5 RR MEN - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



4 RR WOMEN - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



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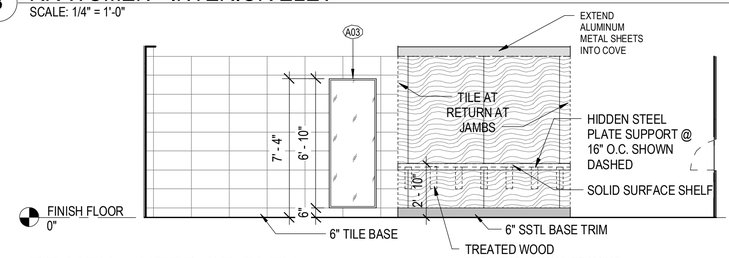

2 RR MEN - INTERIOR ELEV
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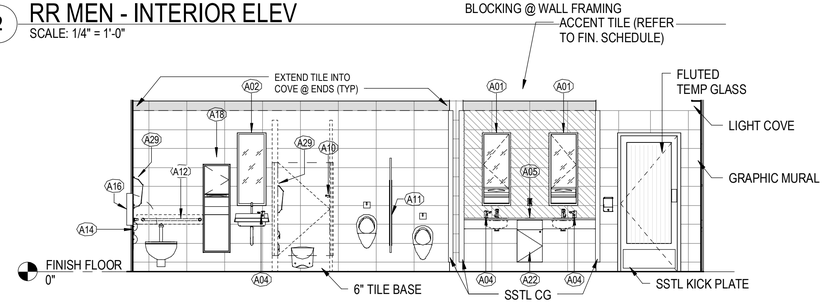
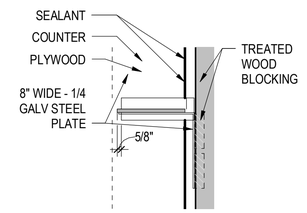


1 RR MEN - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



11 SHELF DETAIL
SCALE: 1" = 1'-0"

ACCESSORIES SCHEDULE

#	DESCRIPTION	MODEL	COMMENTS
A01	MIRROR	BOBRICK/GAMCO	BACKLIT MIRROR W/ CUSTOM PAPER TOWEL DISPENSER WITH PLASTIC PAPER GUIDE FOR PAPER DISPENSING CONTROL
A02	MIRROR (ADA)	BOBRICK (SERIES)	MOUNT PER ADA REQUIREMENTS W SSTL TRIM. (1' 6" X 3' 10")
A03	FULL HEIGHT MIRROR	BOBRICK B-290 (SERIES)	CUSTOM SIZE (2'-6" X 6'-10" W/ 1" SSTL FRAME) TOP OF MIRROR TO ALIGN WITH TOP OF DOOR
A04	SOAP DISPENSER	SLOAN ESD-2000	MOUNT AT ADA SINK AND COUNTER (TYP)
A05	COUNTERTOP	CAESARSTONE QUARTZ - NOUGAT	QUARTZ
A06	THROUGH COUNTER TRIM/ WASTE CHUTE	CAESARSTONE - QUARTZ	MATCH COUNTERTOP
A07	UNDER COUNTER HOOK	JACKNOB 4290	MOUNT UNDER WOMEN'S RR SINK COUNTER
A08	TOILET PARTITION	PLAM/ FLOOR MOUNTED	W CONTINIOUS SSTL "U" BRACKET @ SUPPORT ENDS & SSTL ANCHORS @FLOOR.
A09	ADA DOOR BUMPER (1)	JACKNOB 4151	MOUNTED ON TOP AND BOTTOM OF PARTITIONS WHERE INDICATED; 2 PER DOOR (TYP)
A10	COAT HOOK & DOOR BUMBER	JACKNOB-4003	MOUNT AT PARTITION NOT DOOR
A11	URINAL SCREEN BRACKET	JACKNOB 2369	CONT. SSTL BRACKET
A12	GRAB BAR - 36" REAR WALL	BOBRICK B-5806-36	MOUNT PER ADA REQUIREMENTS.
A13	GRAB BAR - 42" SIDE WALL	BOBRICK B-5806-42	MOUNT PER ADA REQUIREMENTS.
A14	COMBINATION TOILET TISSUE UNIT & SEAT DISPENSER (RECESSED @WALL)	BOBRICK B-3574/3575	MALE / FEMALE WITH NAPKIN DISPOSAL; FLUSH WITH WALL AT GRAB BAR - TISSUE HOLDER WITHIN 7"-9" OF TOILET SEAT (LH/RH MODELS)
A15	COMBINATION TOILET TISSUE UNIT & SEAT DISPENSER (THROUGH PARTITION)	BOBRICK B-357/3571	MALE / FEMALE WITH NAPKIN DISPOSAL; FLUSH WITH WALL AT GRAB BAR - TISSUE HOLDER WITHIN 7"-9" OF TOILET SEAT (LH/RH MODELS)
A16	BABY CHANGING STATION (RECESSED)	BOBRICK KB110-SSRE	
A17	SANITARY NAPKIN VENDOR (RECESSED)	BOBRICK B-4706C	COST TBD
A18	COMBINATION PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK B-3940	W/ LINER MATE; 12 GAL
A19	UTILITY SHELF W/ MOP & BROOM HOLDER	BOBRICK B-239 X 34	3 HOOKS
A20	CHEMICAL DISPENSER	BY OWNER	CONNECT TO HOT WATER
A21	CORNER GUARD		1 1/2" X 1 1/2" SSTL. FULL HT. U.N.O.
A22	UNDER COUNTER SINK WASTE RECEPTACLE	BOBRICK B-2260	22" TALL; 13 GALLON CAPACITY
A23	TENSABARRIER	TENSABARRIER 896CM	AT EACH RESTROOM ENTRIES
A24	ADA FOLD DOWN SHOWER SEAT (REVERSEABLE)	BOBRICK B-5181	MOUNT PER ADA REQUIREMENTS. ALL FASTENERS @ WALL BE SEALED
A25	SHOWER GRAB BAR (90 DEGREES)	BOBRICK B-6861	MOUNT PER ADA REQUIREMENTS. ALL FASTENERS @ WALL BE SEALED
A26	SHOWER ROD & CURTAIN	BOBRICK B-207 X 36 W/ B 204-1 (HOOK) W/ B-204-2 (CURTAIN)	PROVIDE HOOKS W/ SHOWER CURTAIN; CONCEALED FASTENERS
A27	RECESSED SOAP SHELF	SEE SCHEDULE	REF. TILE SPEC; (2) PER SHOWER
A28	ROBE HOOK	BOBRICK B-549	
A29	PURSE POUCH	JACKNOB 110300	MOUNT NEAR EACH TOILET
A30	HAND SANITIZER	BY OWNER	

SHEET NOTES

1. REFER TO ACCESSORY SCHEDULE AND ADA STANDARDS FOR MOUNTING HEIGHTS.
2. ALL WALL TILE TO EXTEND TO TOP OF WALL @ LIGHT COVE.
3. REFER TO CLG PLANS FOR VARIED ELEVATIONS.
4. TOILET PARTITIONS TO BE FLOOR SUPPORTED WITH SSTL FASTENERS.
5. REFER TO ACCESSORY PLAN FOR ADDITIONAL ACCESSORY INFORMATION.
6. ALL SHOWER WALLS AND BASE TO RECEIVE MEMBRANE WP. TOILET PARTITIONS AND URINAL SCREENS: CONFIRM LAYOUT PRIOR TO CONCEALING IN THE WALL
7. METAL COVE TRIM TO BE PROVIDED AT ALL WALL TILE FLOOR INTERSECTIONS
8. RADIUSED METAL TRIM TO BE PROVIDED AT ALL TILES CORNERS.
9. ALL RESTROOM HOSE BIBS SHALL BE UNDER COUNTER, RECESSED & KEYED OPERATION
10. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING FIXTURES
11. FIXTURES WITHOUT CHASE WAYS SHALL BE FLOOR MOUNTED, U.N.O.
12. ALL ADA PLUMBING FIXTURES TO BE MOUNTED PER ADA REQUIREMENTS, INCLUDING RELATIONSHIP TO ACCESSORIES.
13. VERIFY ALL WALL DEPTHS FOR RECESSED UNITS AS PART OF FRAMING LAYOUT.
14. VERIFY ROUGH IN, LOCATION & MOUNTING HT OF ALL ACCESSORIES PRIOR TO CONCEALING FRAMING.
15. ALL MOUNTED SINKS SHALL BE INSTALLED WITH CONCEALED CARRIERS.

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

INTERIOR ELEVATIONS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	JP
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

A-402

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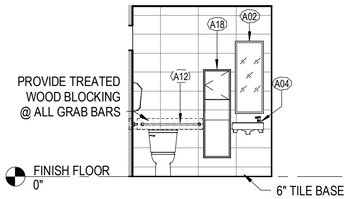
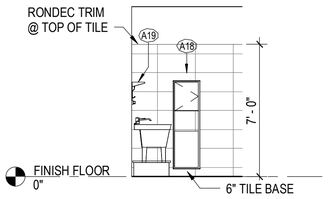
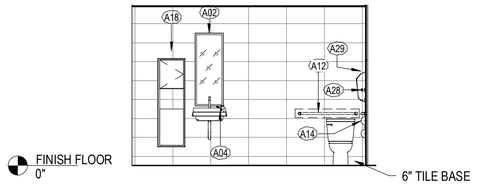


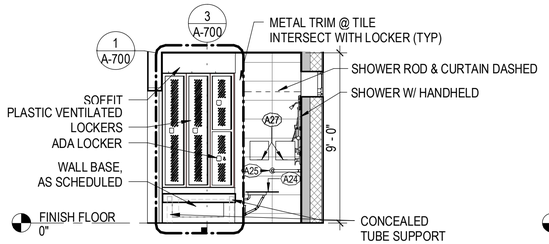
12 FLIGHT CREW RR - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



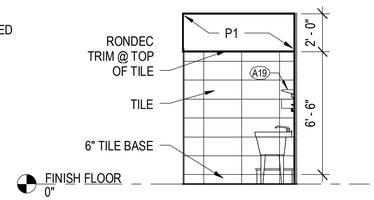
8 JANITOR RM 107 - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



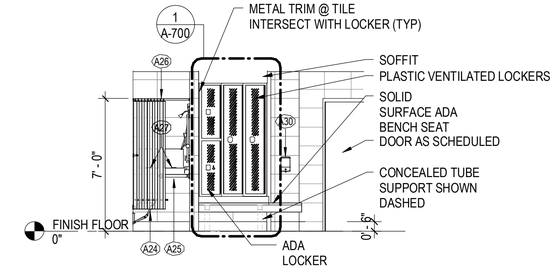
4 FBO RESTROOM - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



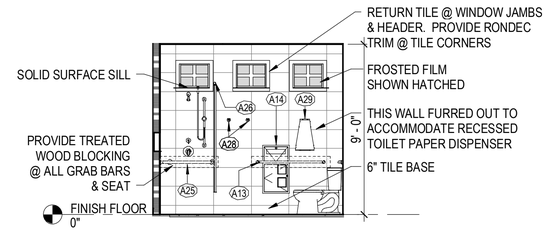
11 FLIGHT CREW RR - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



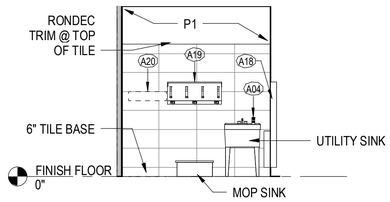
7 JANITOR RM 107 - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



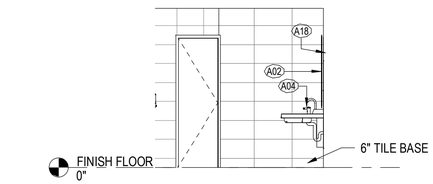
3 FBO RESTROOM - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



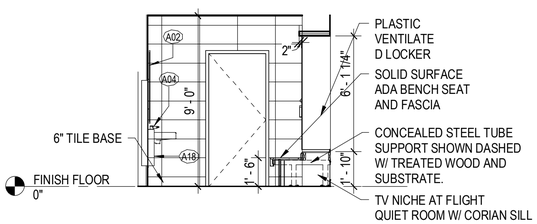
10 FLIGHT CREW RR - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



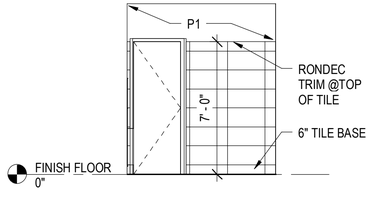
6 JANITOR RM 107 - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



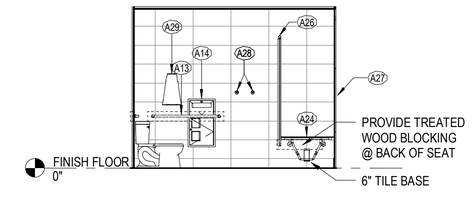
2 FBO RESTROOM - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



9 FLIGHT CREW RR - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



5 JANITOR RM 107 - INTERIOR ELEV
SCALE: 1/4" = 1'-0"



1 FBO RESTROOM - INTERIOR ELEV
SCALE: 1/4" = 1'-0"

ACCESSORIES SCHEDULE

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A09	ADA DOOR BUMPER 1	JACKNOB 4151	MOUNTED ON TOP AND BOTTOM OF PARTITIONS WHERE INDICATED; 2 PER DOOR (TYP)
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A20	CHEMICAL DISPENSER	BY OWNER	CONNECT TO HOT WATER
A21	CORNER GUARD		1 1/2" X 1 1/2" SSTL. FULL HT. U.N.O.
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A25	SHOWER GRAB BAR (90 DEGREES)	BOBRICK B-6861	MOUNT PER ADA REQUIREMENTS. ALL FASTENERS @ WALL BE SEALED
A26	SHOWER ROD & CURTAIN	BOBRICK B-207 X 36 W/ B 204-1 (HOOK) W/ B-204-2 (CURTAIN)	PROVIDE HOOKS W/ SHOWER CURTAIN; CONCEALED FASTENERS
A27	RECESSED SOAP SHELF	SEE SCHEDULE	REF. TILE SPEC; (2) PER SHOWER
A28	ROBE HOOK	BOBRICK B-549	
A29	PURSE POUCH	JACKNOB 110300	MOUNT NEAR EACH TOILET
A30	HAND SANITIZER	BY OWNER	

SHEET NOTES

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13. VERIFY ALL WALL DEPTHS FOR RECESSED UNITS AS PART OF FRAMING LAYOUT.
14. VERIFY ROUGH IN, LOCATION & MOUNTING HT OF ALL ACCESSORIES PRIOR TO CONCEALING FRAMING.
15. ALL MOUNTED SINKS SHALL BE INSTALLED WITH CONCEALED CARRIERS.

0 2' - 0" 4' - 0" 8' - 0"
SCALE: 1/4" = 1' - 0"

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

INTERIOR ELEVATIONS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	AB
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
A-403

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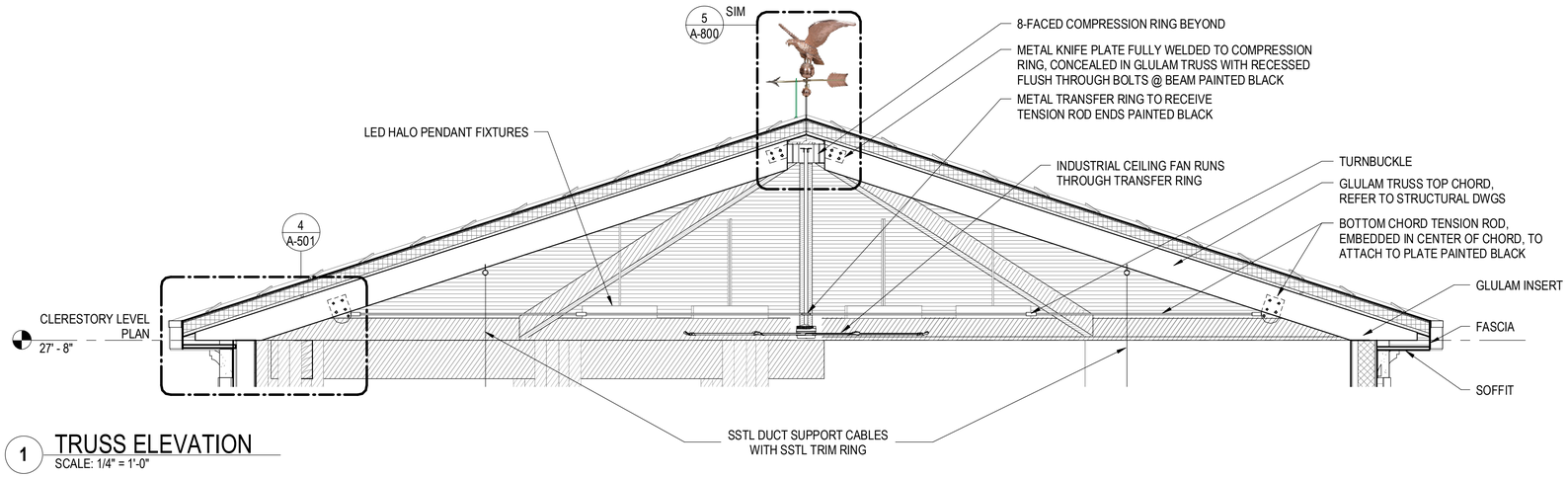
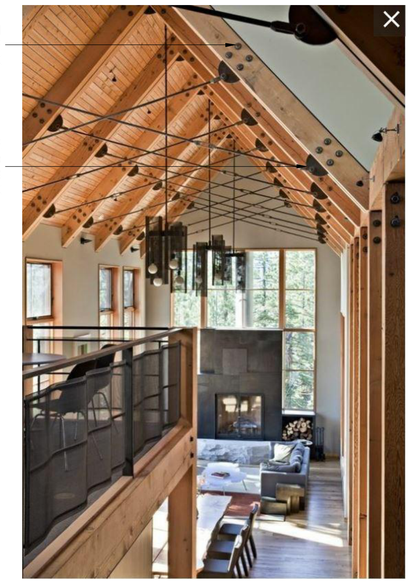
GENERAL NOTES:

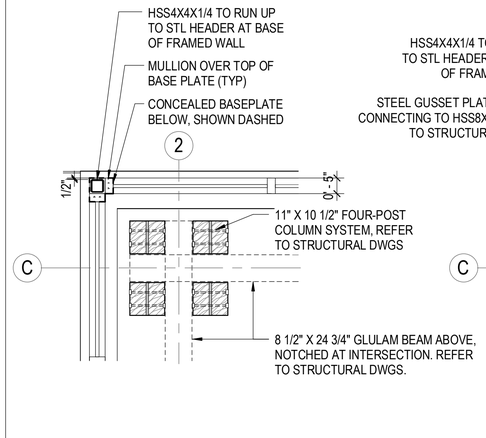
1. ALL HARDWARE & METAL COMPONENTS SHALL BE PAINTED BLACK.
2. ALL THROUGH BOLTS SHALL BE RECESSED AND FLUSH WITH THE FACE OF THE COLUMN OR BEAM.
3. ALL PLATES SHALL BE RECESSED INTO COLUMN OR BEAM WHERE NOTED OR SHOWN.



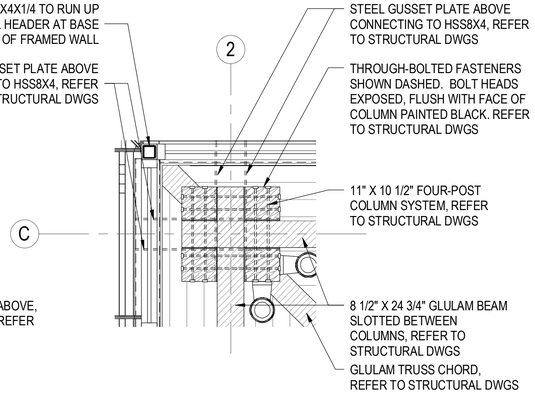
1 TRUSS ELEVATION
SCALE: 1/4" = 1'-0"



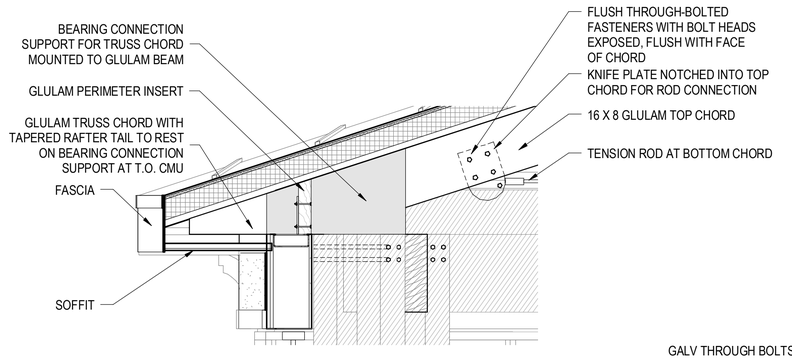
CONCEALED CABLE ANCHOR EXAMPLE
N.T.S.



2 4-POST COLUMN PLAN DETAIL
SCALE: 1/2" = 1'-0"

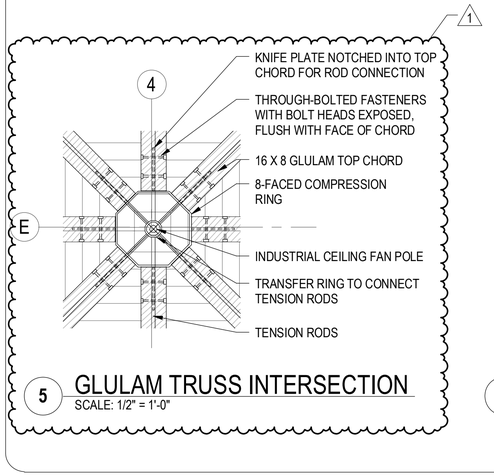


3 4-POST COLUMN BEAM DETAIL
SCALE: 1/2" = 1'-0"



4 TRUSS DETAIL AT CORNER CONDITION
SCALE: 1/2" = 1'-0"

CONCEALED COLUMN ANCHOR PLATE EXAMPLE
N.T.S.



5 GLULAM TRUSS INTERSECTION
SCALE: 1/2" = 1'-0"

6 TRANSFER RING @ FAN INTERSECTION
SCALE: 12" = 1'-0"

7 FABRIC DUCT EXAMPLE
SCALE: 12" = 1'-0"

0 2' - 0" 4' - 0" 8' - 0"
SCALE: 1/4" = 1' - 0"

0 1' - 0" 2' - 0" 4' - 0"
SCALE: 1/2" = 1' - 0"

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STATE OF FLORIDA
WILLIAM A. HAYWARD JR.
AR0011007
REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

GLULAM ASSEMBLIES

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	MW
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
A-501

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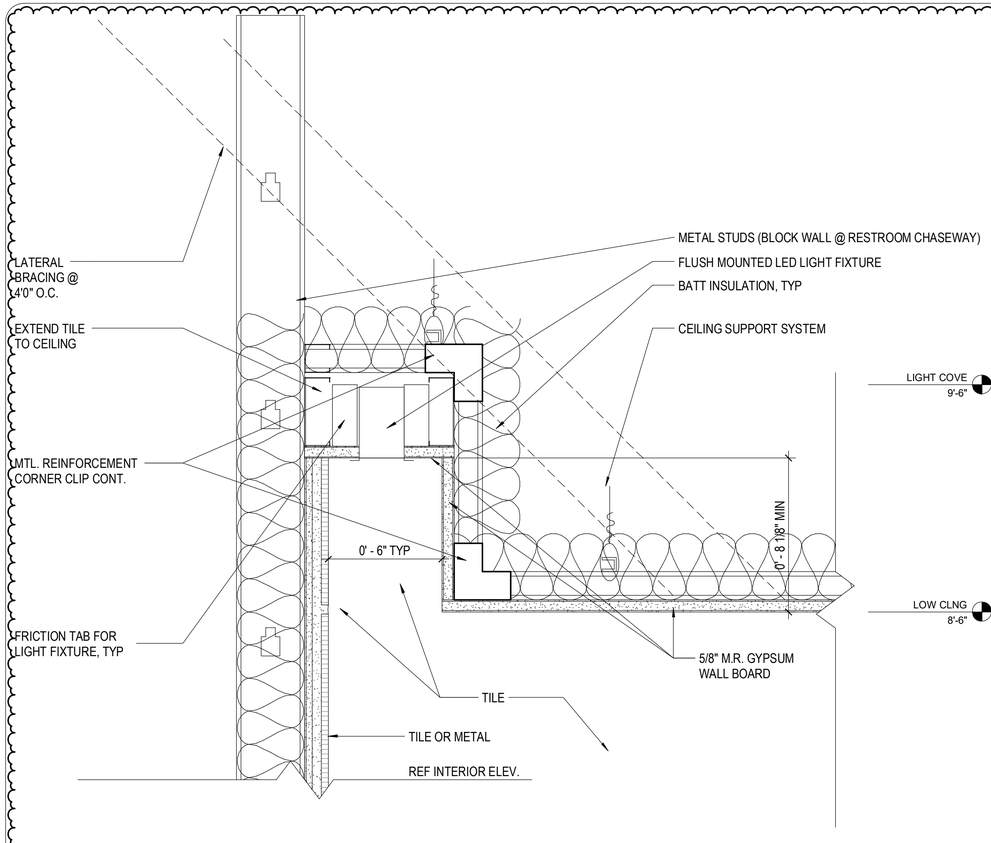
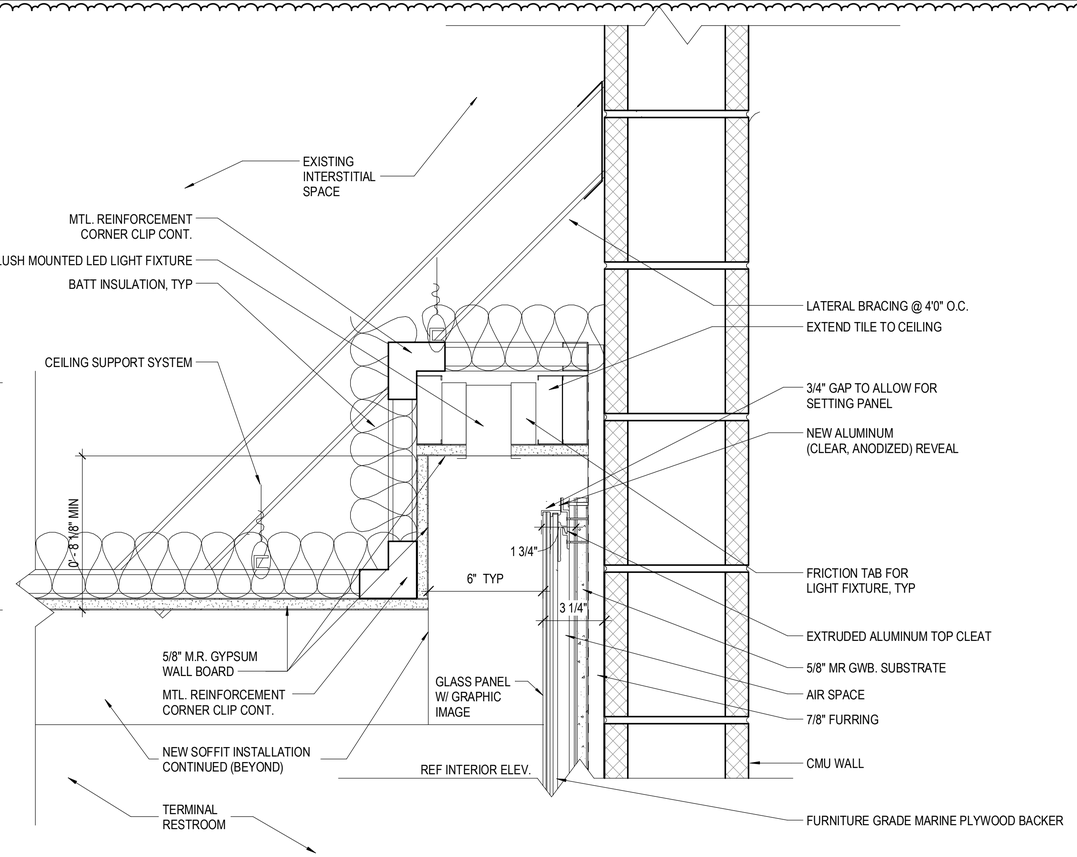
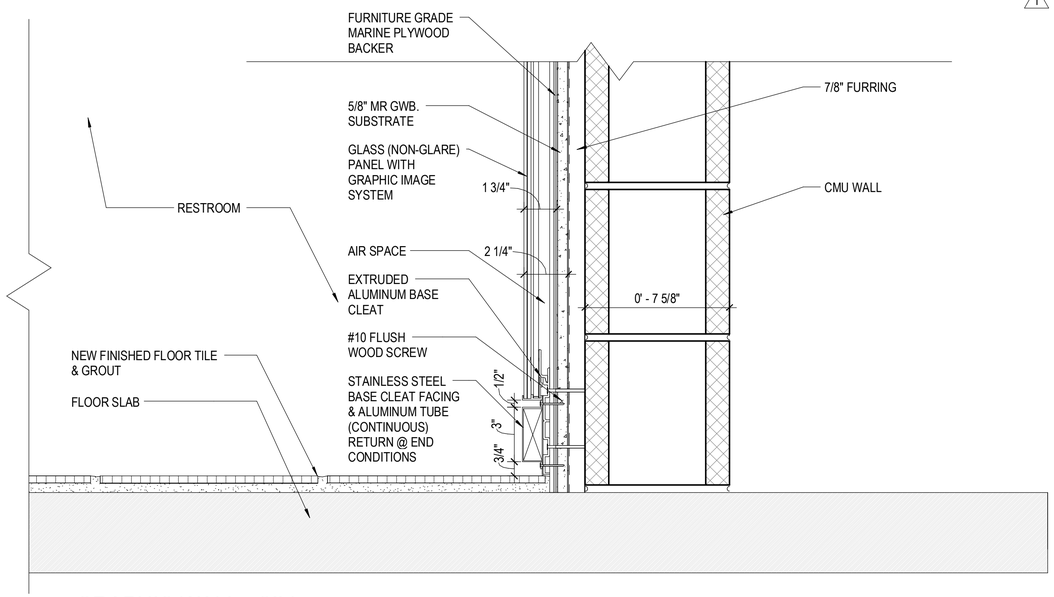


3 LIGHT COVE DETAIL
SCALE: 3" = 1'-0"



1 GRAPHIC WALL - HEAD
SCALE: 3" = 1'-0"

1



2 GRAPHIC WALL - SILL
SCALE: 3" = 1'-0"

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FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

DETAILS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	Author
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

A-506

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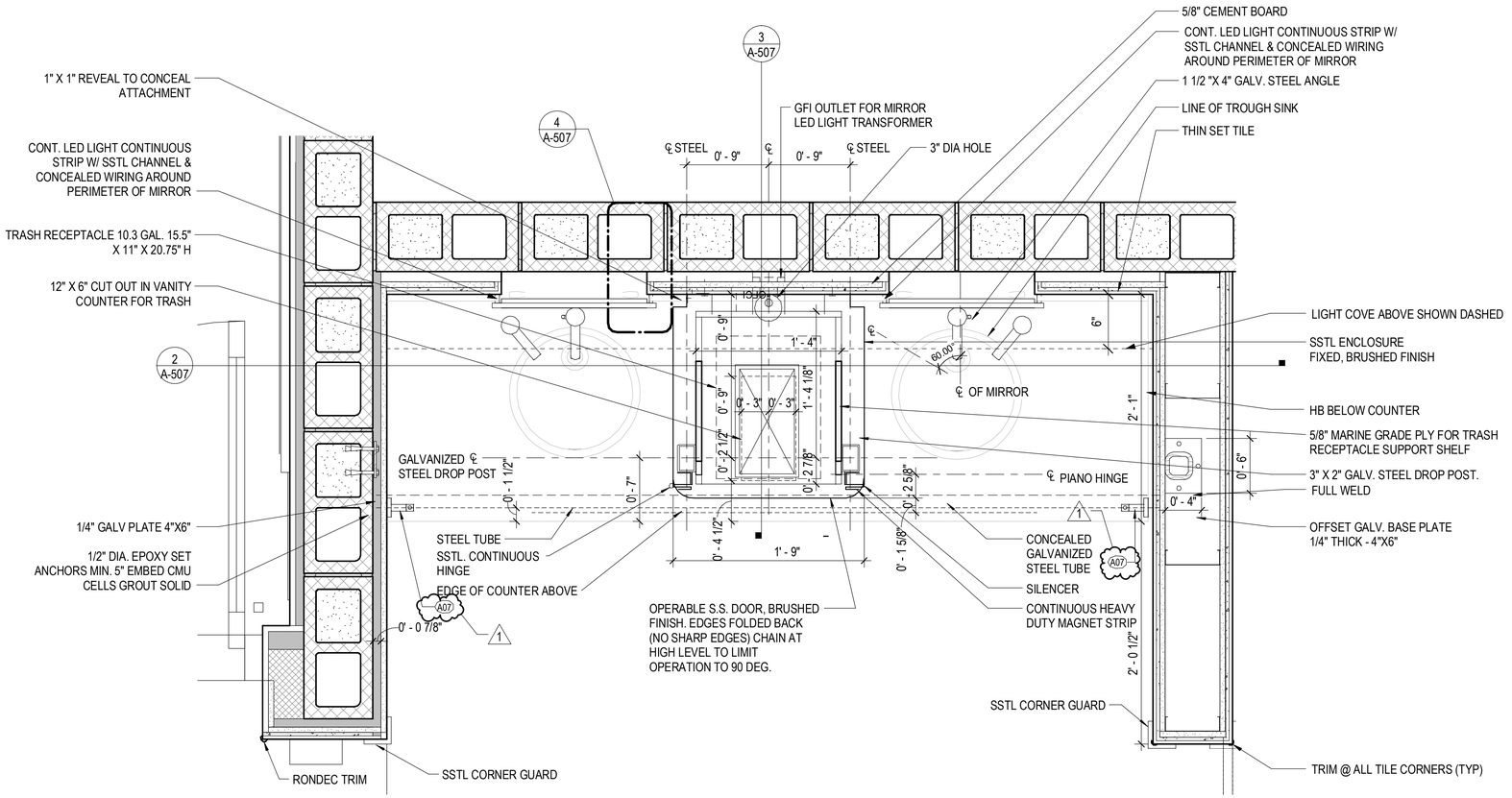
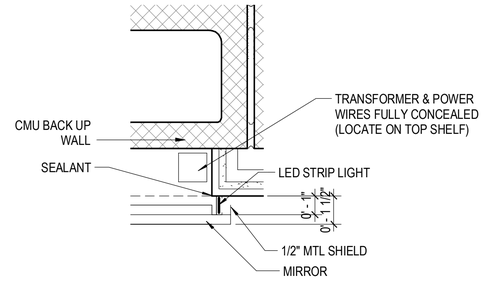
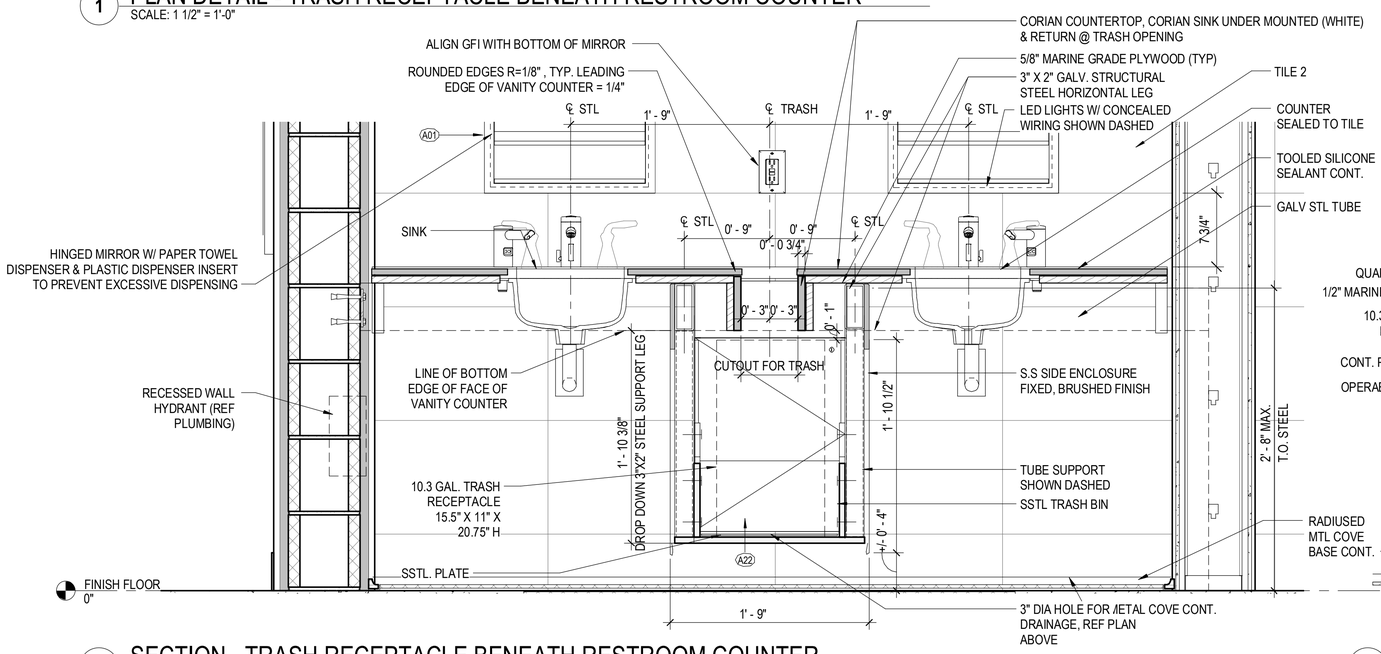


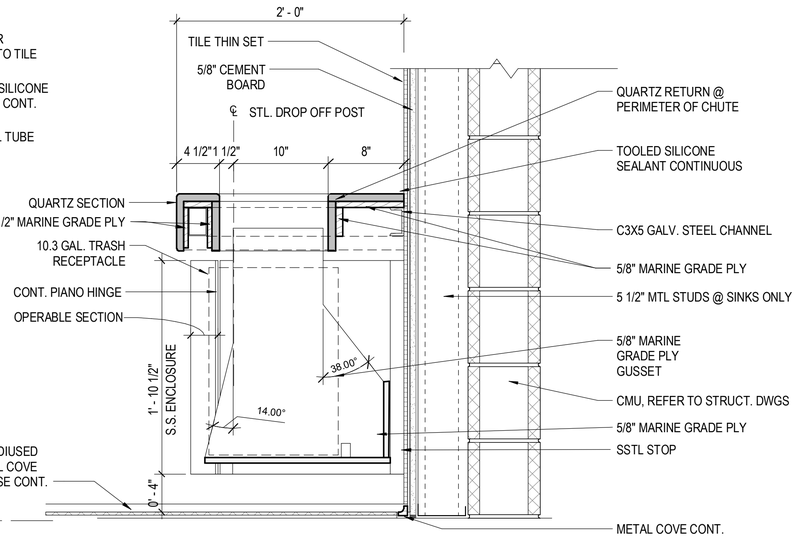
1 PLAN DETAIL - TRASH RECEPTACLE BENEATH RESTROOM COUNTER
SCALE: 1 1/2" = 1'-0"



4 PLAN DETAIL - LED LIGHT MIRROR
SCALE: 3" = 1'-0"



2 SECTION - TRASH RECEPTACLE BENEATH RESTROOM COUNTER
SCALE: 1 1/2" = 1'-0"



3 SECTION DETAIL - TRASH RECEPTACLE BENEATH RESTROOM COUNTER
SCALE: 1 1/2" = 1'-0"

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

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1	2/23/22	Addendum 2	WAH

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DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	ROOM NUMBER	SIZE HEIGHT	SIZE WIDTH	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	RATINGS FIRE	RATINGS STC	HARDWARE SET	COMMENTS
001	RISER	001	7' - 0"	3' - 0"	1 3/4"	A	HM	PAINTED	F3	HM	PAINTED	2/A-612	6/A-612	1		03	SEC'D
100	VESTIBULE	100	7' - 7 3/4"	12' - 0"	1 3/4"	H	TEMP GL	GL/AA	-	AL	ALUM	10/A-612	9/A-612			01	SEC'D, BREAK AWAY
101	MEETING ROOM	101	7' - 4"	6' - 0"	1/2"	B	TEMP GL	GL/AA	-	GL	GL	2/A-301	2/A-301			13	CENTER PIVOT, TEMP GL, UC = 1" - REF ALT #5 FOR BARN DOOR
101A	MEETING ROOM	101	7' - 2"	3' - 0"	1 3/4"	E	TEMP GL	GL/AA	F5	AL	ALUM	4//A-612	8/A-612			02	SEC'D
101B	STOR	101A	7' - 0"	6' - 0"	1 3/4"	G	WD	STAINED	F2	HM	PAINTED	?	?			04	UC = 1", SRW,KP
102A	LOBBY	102	7' - 7 3/4"	12' - 0"	1 3/4"	H	TEMP GL	GL/AA	-	AL	ALUM	10/A-612	9/A-612			01	SEC'D, BREAK AWAY
102B	LOBBY	102	7' - 2"	2' - 6"	1 3/4"	C	TEMP GL	GL/AA	-	AL	ALUM	4/A-612	8/A-612			02	SEC'D
102C	STOR	101A	7' - 0"	6' - 0"	1 3/4"	G	WD	STAINED	F2	HM	PAINTED	1/A-612	5/A-612			04	UC = 1", SRW,KP
103A	CORRIDOR	103	7' - 0"	3' - 0"	1 3/4"	C	TEMP GL	STAINED	F1	HM	PAINTED	1/A-612	5/A-612			06	SEC'D, UC = 1", FLUTED GLASS
103B	CORRIDOR	103	7' - 0"	3' - 0"	1 3/4"	E	TEMP GL	GL/AA	F5	AL	ALUM	3/A-612	7/A-612			02	SEC'D
103C	STOR. CLOSET	103A	7' - 0"	9' - 0"	1 3/4"	I	WD	STAINED	-	HM	PAINTED	1/A-612	5/A-612			14	OVERHEAD TRACK, UC = 1", LOUVERED DOOR
103D	CORRIDOR	103	7' - 0"	3' - 0"	1 3/4"	A	HM	PAINTED	F3	HM	PAINTED	2/A-612	6/A-612	90 MIN		07	SEC'D
104	OFFICE	104	7' - 0"	2' - 6"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612		STC 42	05	SRW, SR
105	OFFICE	105	7' - 0"	2' - 6"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612		STC 42	05	SRW, SR
107	JANITOR	107	7' - 0"	2' - 6"	1 3/4"	A	HM	PAINTED	F1	HM	PAINTED	1/A-612	5/A-612			08	KP, UC = 1"
108	STORAGE	108	7' - 0"	2' - 6"	1 3/4"	A	HM	PAINTED	F1	HM	PAINTED	1/A-612	5/A-612			08	UC = 1", KP
109	FBO RR & SHOWER	109	7' - 0"	3' - 0"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612			10	UC = 1",KP
110A	OFFICE	110A	7' - 0"	3' - 0"	1 3/4"	C	TEMP GL	STAINED	F1	HM	PAINTED	1/A-612	5/A-612			05	UC = 1", SR
110B	SECURED STORAGE	110B	7' - 0"	2' - 6"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612			09	SEC'D, UC = 1", SRW
111	RR MEN	111	7' - 2"	3' - 0"	1 3/4"	C	WD/TEMP GL	STAINED	F1	HM	PAINTED	2/A-612	6/A-612			12	TEMP FLUTED GL, KP, UC = 1"
112	RR WOMEN	112	7' - 2"	3' - 0"	1 3/4"	C	WD/TEMP GL	STAINED	F1	HM	PAINTED	2/A-612	6/A-612			12	TEMP FLUTED GL, KP, UC = 1"
113A	CORRIDOR	113	7' - 0"	3' - 0"	1 3/4"	A	HM	PAINTED	F3	HM	PAINTED	2/A-612	6/A-612	90 MIN		07	SEC'D, KP
114	JAN	114	7' - 0"	4' - 0"	1 3/4"	G	WD	STAINED	F2	HM	PAINTED	1/A-612	5/A-612			16	KP, SRW, UC = 1"
115	ELEC	115	7' - 0"	4' - 0"	1 3/4"	G	WD	STAINED	F2	HM	PAINTED	1/A-612	5/A-612			16	SEC'D, SRW, KP, UC = 1"
116	MECH	116	7' - 0"	4' - 0"	1 3/4"	G	WD	STAINED	F2	HM	PAINTED	1/A-612	5/A-612			17	SEC'D, KP, SRW
116A	CHASE	116A	7' - 0"	2' - 6"	1 3/4"	A	HM	PAINTED	F1	HM	PAINTED	1/A-612	5/A-612			11	KP, UC = 1"
118	FLIGHT INSTRUCTOR	118	7' - 0"	3' - 0"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612	45 MIN	STC 42	06	SEC'D, SRW, SR
119	OFFICE	119	7' - 0"	3' - 0"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612	45 MIN	STC 42	06	SRW, SR
120	CORRIDOR	113	7' - 0"	3' - 0"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612	45 MIN	STC 42	06	SRW, SR
120A	FLIGHT CREW QUIET ROOM	120	7' - 0"	3' - 0"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612	45 MIN	STC 42	15	SRW, SR
121	FLIGHT CREW LOUNGE	121	7' - 0"	3' - 0"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612		STC 42	06	SRW, SR, SEC'D
121B	FLIGHT CREW RESTROOM & SHOWER	121B	7' - 0"	3' - 0"	1 3/4"	F	WD	STAINED	F1	HM	PAINTED	1/A-612	5/A-612			10	UC = 1", SRW, KP
125	SERVER	125	7' - 0"	2' - 6"	1 3/4"	A	HM	PAINTED	F1	HM	PAINTED	1/A-612	5/A-612			09	SEC'D, UC = 1"

LEGEND - DOOR FRAME

TYPE	DESCRIPTION
-	NONE / FUTURE
AC	ACCESS CONTROL / SECURED
AL	ALUMINUM STOREFRONT
HM	HOLLOW METAL

LEGEND - DOOR TYPE

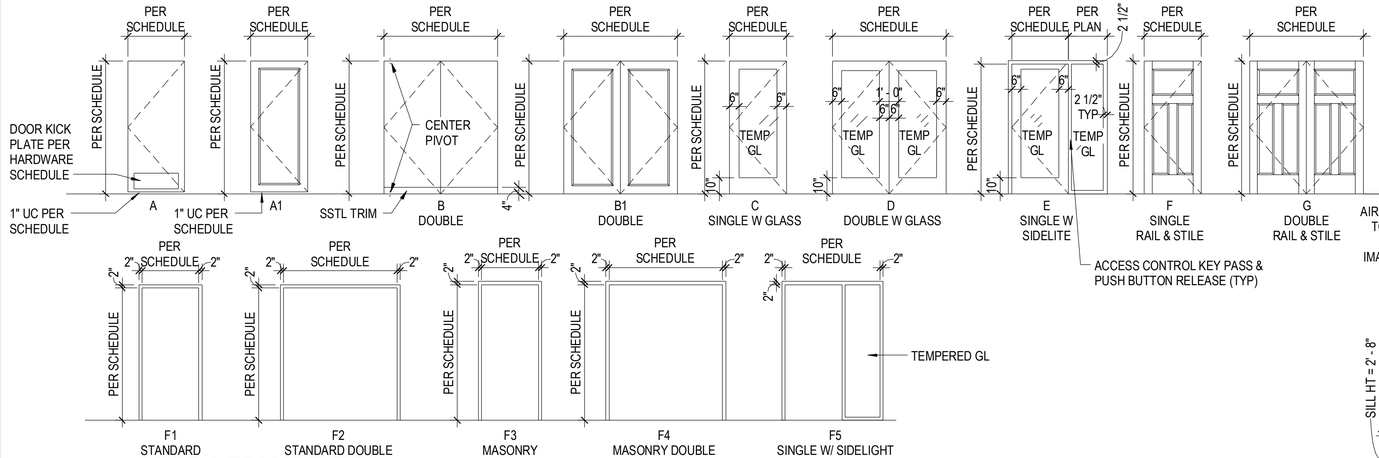
TYPE	DESCRIPTION
AA	ANOODIZED ALUMINUM
AC	ACCESS
AE	AUTOMATIC ENTRANCE
AFE	ALUMINUM-FRAMED ENTRANCE
AGE	ALL-GLASS ENTRANCE
CL	CHAIN LINK
CS	CUSTOM STEEL
CSI	CUSTOM STEEL (INSULATED)
FD	FOLDING
HM	HOLLOW METAL
HMI	HOLLOM METAL (INSULATED)
KP	KICK PLATE
SEC'D	SECURED WITH ACCESS CONTROL AND EMERGENCY PUSH BUTTON @ EGRESS DOORS
SR	SOUND RATED MIN STC RATING = 42
SRW	STILE AND RAIL WOOD
TEMP GL	TEMPERED GLAZING
UC = 1"	1" UNDER CUT
WC	WOOD CLOSET
WDHC	WOOD (HOLLOW CORE)
WDSC	WOOD (SOLID CORE)

WINDOW SCHEDULE

TYPE	DESCRIPTION
A	WINDOW - INSULATED GLASS
B	WINDOW - INSULATED GLASS W/ FROSTED FILM
D	WINDOW - INTERIOR VISION WINDOW

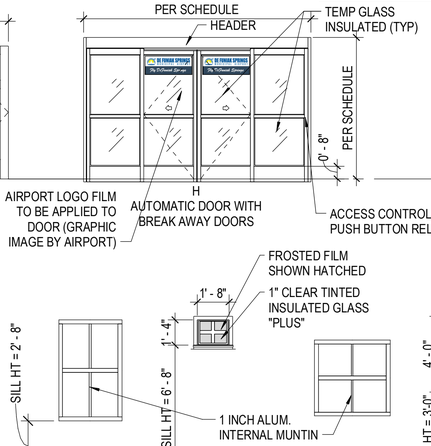
LOUVER SCHEDULE

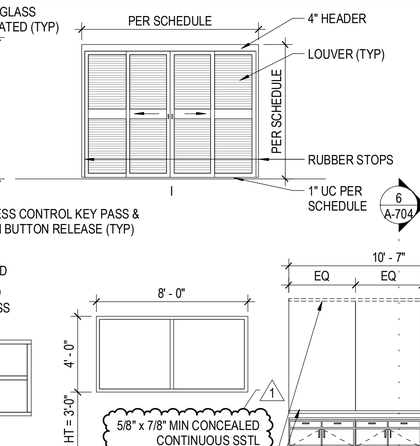
Type Mark	Comments	Description
L1	LOUVER	BAHAMA SHUTTER - CLERESTORY W/ WINDOW TYPE "C"
L2	LOUVER	BAHAMA SHUTTER FIBERGLASS W/ WINDOW TYPE "A"

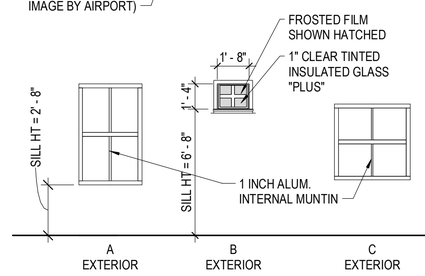


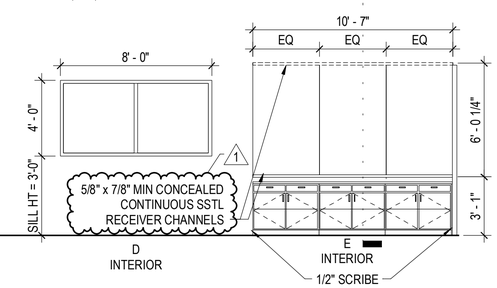
1 DOOR & FRAME TYPES

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



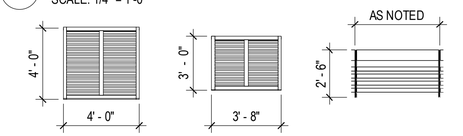






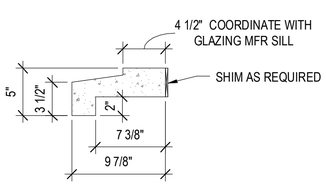
2 WINDOW TYPES

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



3 LOUVER TYPES

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



4 TYPICAL SEALED PRECAST WINDOW SILL

SCALE: 1 1/2" = 1'-0"

NOTES - DOORS AND FRAMES

1. ALL EXTERIOR DOOR ASSEMBLIES TO BE FBC APPROVED IMPACT RATED ASSEMBLIES
2. ALL DOOR GLAZING TO BE TEMPERED GLASS
3. ALL DOORS WITH CLOSERS TO BE ADA ACCESSIBLE
4. DOORS LEADING TO APRON ARE TO BE SECURED; ACCESS CONTROL DEVICES TO BE MOUNTED IN MULLIONS
5. EMERGENCY EGRESS DOORS TO HAVE DELAYED EGRESS @ SECURED LOCATIONS
6. AT FRAMED WALLS, THE DOOR FRAME WIDTH SHALL BE DICTATED BY THE WALL FRAMING WIDTH. REFER TO DETAIL J1 & H1.
7. AT MASONRY WALLS, THE DOOR FRAME WIDTH SHALL BE DICTATED BY THE WIDTH OF THE MASONRY. REFER TO DETAILS J2A & H2A.
8. ALL EXTERIOR GLASS DOORS TO HAVE 1" INSULATED IMPACT RESISTANT GLASS; WIND SPEED PER STRUCTURAL DRAWINGS.
9. ALL GLASS ADJACENT TO DOORS OR WITHIN DOOR ARE TO BE TEMPERED (TEMP) GLASS.
10. WHERE NOTED, UNDER CUT DOORS 1" ABOVE FINISH FLOOR. "UC" = UNDER CUT.
11. PREFINISH / PAINT TOP AND BOTTOM OF DOORS PRIOR TO HANGING DOORS.
12. GLASS FINISH TYPES (ALL TEMP): "F" = FROSTED / "PS" = PIN STRIPED / "CLR" = CLEAR WITH MUTTONS / "INS" = INSULATED PER DOOR TYPE. EXTERIOR GLASS TINTED TO MATCH WINDOWS.

NOTES - DOORS AND FRAMES

13. "SEC'D" = SECURED / ACCESS CONTROLLED DOORS W/ MAGNETIC LOCK: COORDINATE W/ OWNER'S SECURITY CONSULTANT.
14. "PR" = PAIR OF DOORS.
15. "THR" = THRESHOLD.
16. "TRN" = TRANSOM-TEMP GLASS ABOVE DOOR TO CEILING
17. EMERGENCY EGRESS - OPEN IN EVENT OF ALARM
18. ALL DOORS AND FRAMES TO BE FULLY WELDED; No. "Z" SHAPED SECTIONS (@ DOORS) OR BUTT JOINTS.
19. KNOCK DOWN FRAMES WILL NOT BE ALLOWED.
20. ALL FIRE RATED DOORS SHALL BE UL RATED.
21. REFER TO SPECIFICATIONS FOR HARDWARE, AND ADDITIONAL DOOR & FRAME REQUIREMENTS.
22. ACCESS CONTROL WIRING TO BE CONCEALED IN DOOR FRAME & ACCESS CONTROL JOINT TO BE NARROW STYLE & MOUNTED IN.
23. ALL EXTERIOR FRAME HM DOORS TO HAVE LOCK GUARDS
24. AUTOMATIC DOORS & SEC'D DOORS WITH PANIC DEVICES SHALL BE COORDINATED WITH AIRPORT'S SECURITY SYSTEM SOFTWARE
25. REFER ALT #5 FOR BARN @ MEETING ROOM OPTION, IN LIEU OF TEMP GLASS DOOR & BUTT GLAZING
26. ALL DOUBLE DOORS SHALL HAVE AUTO FLUSH BOLTS & KEEPERS

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

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DOOR SCHEDULE, DOOR AND WINDOW ELEVATIONS

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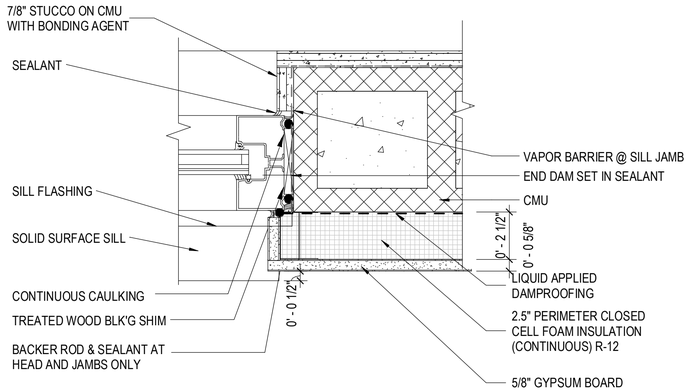
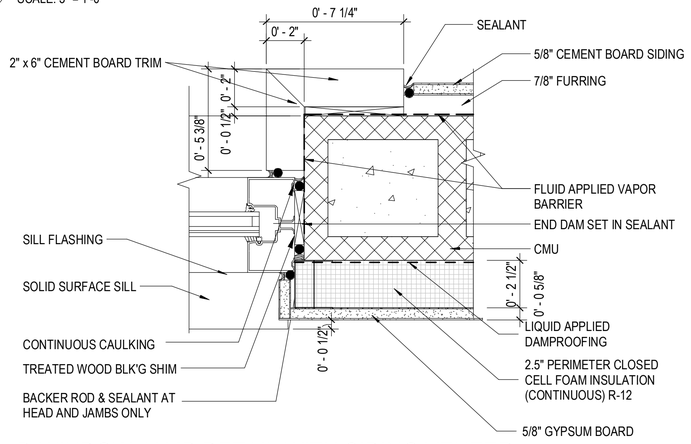
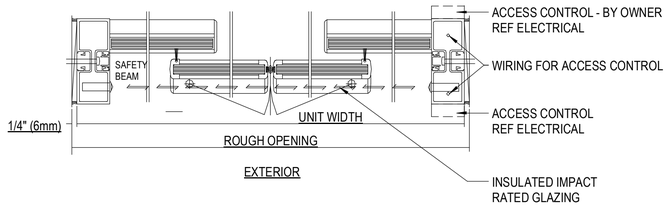


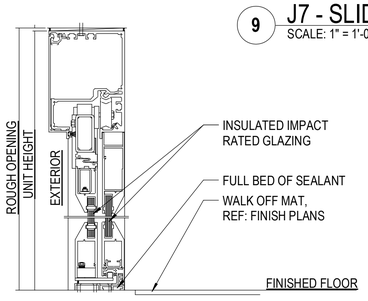
13 A-WINDOW JAMB DETAIL WITH STUCCO FINISH
SCALE: 3" = 1'-0"



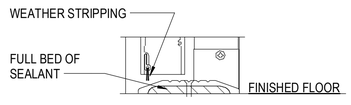
12 B-WINDOW JAMB DETAIL WITH SIDING VENEER
SCALE: 3" = 1'-0"



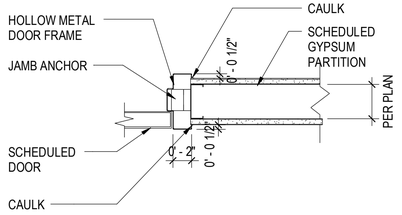
9 J7 - SLIDING DOOR DETAIL
SCALE: 1" = 1'-0"



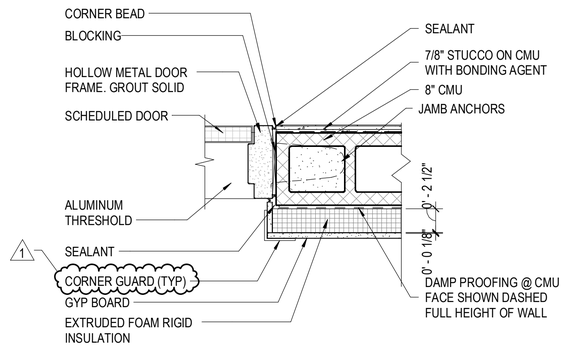
10 H7 - SLIDING DOOR HEAD DETAIL
SCALE: 1" = 1'-0"



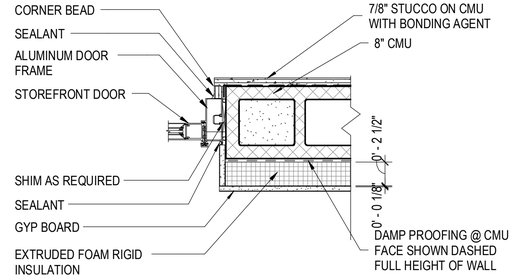
11 STOREFRONT THRESHOLD
SCALE: 1" = 1'-0"



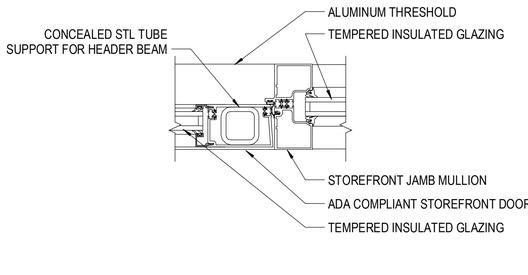
5 J1 - HOLLOW METAL FRAME JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



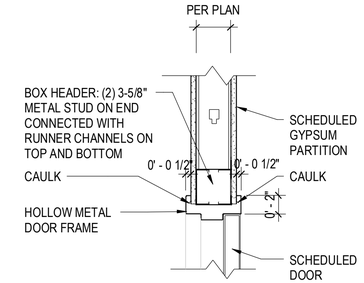
6 J2A - HOLLOW METAL FRAME JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



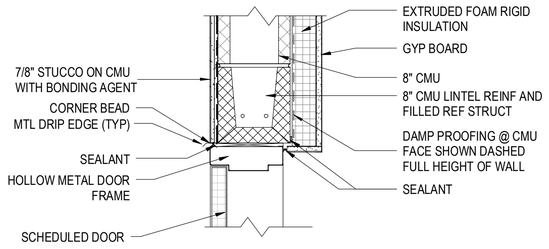
7 J3 - STOREFRONT JAMB
SCALE: 1 1/2" = 1'-0"



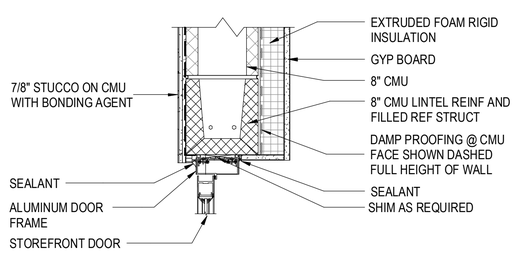
8 J4 - STOREFRONT JAMB DETAIL
SCALE: 3" = 1'-0"



1 H1 - HOLLOW METAL FRAME HEAD DETAIL
SCALE: 1 1/2" = 1'-0"

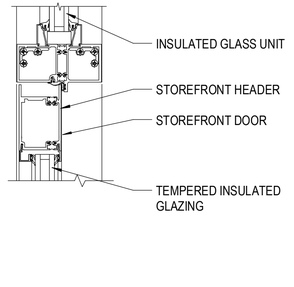


2 H2A - HOLLOW METAL FRAME HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



3 H3 - STOREFRONT HEAD
SCALE: 1 1/2" = 1'-0"

NOTE:
1. REFER TO EXTERIOR ELEVATIONS FOR SIDING MATERIAL & TRIM @ SIM CONDITIONS.



4 H4 - STOREFRONT HEAD DETAIL
SCALE: 3" = 1'-0"

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · REGISTERED ARCHITECT · AR0011007

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

DOOR AND JAMB DETAILS

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	AB
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
A-612

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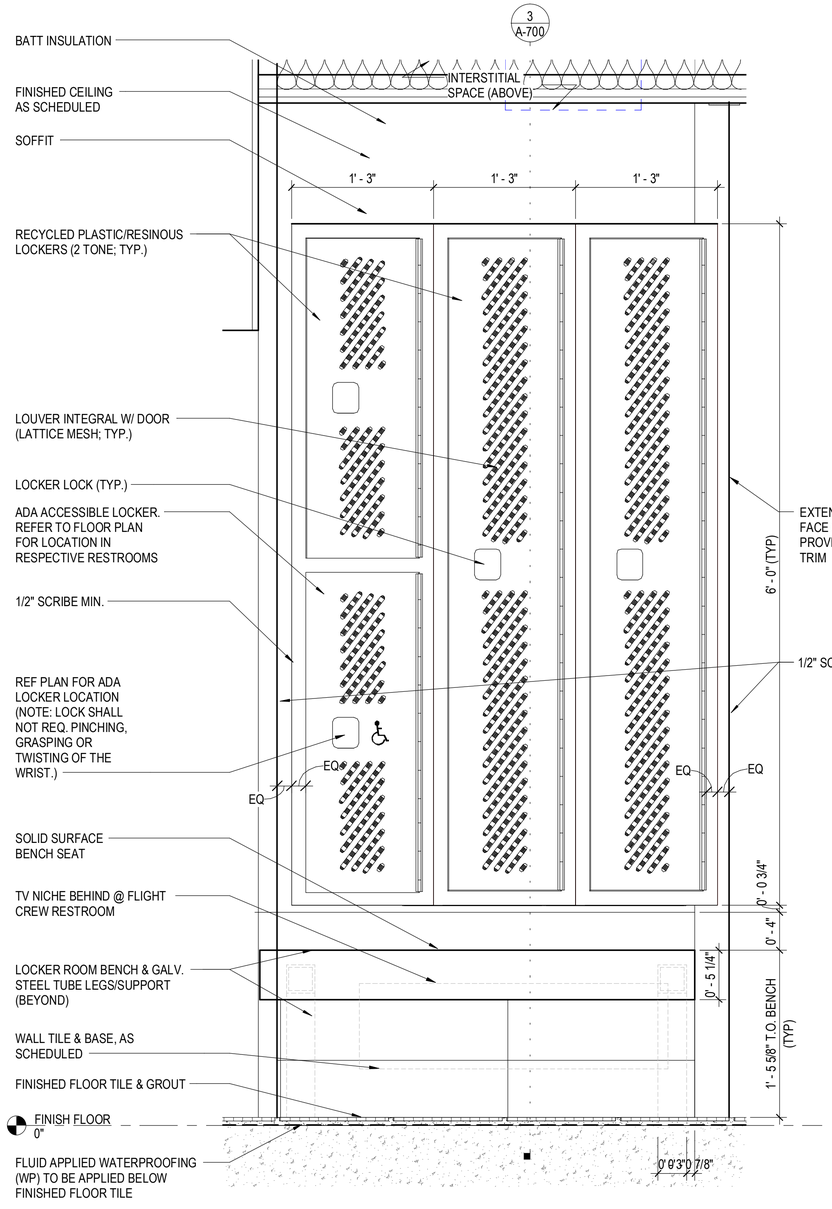
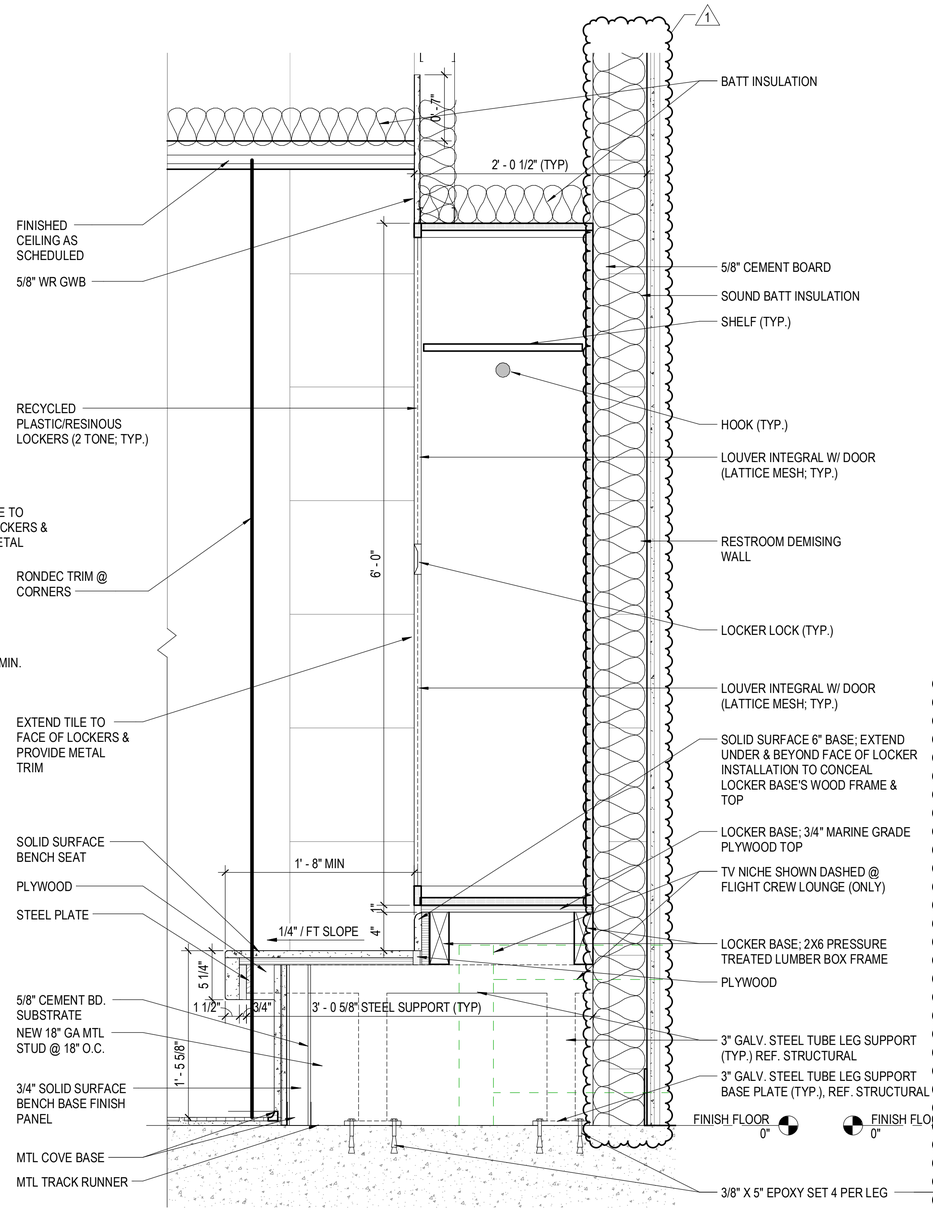
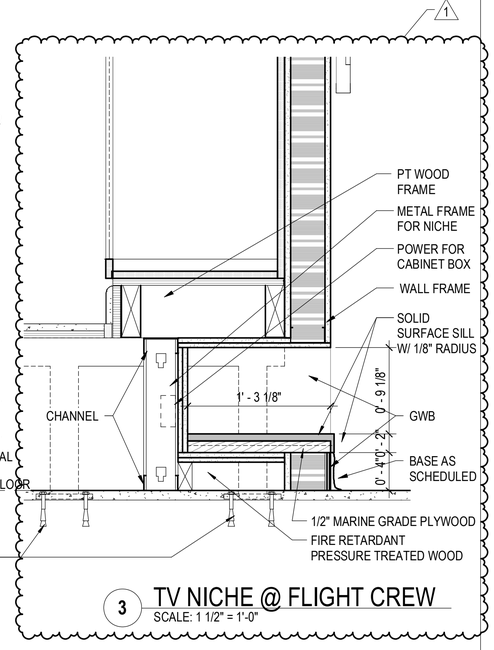


1 LOCKER ROOM ELEVATION DETAIL
SCALE: 1 1/2" = 1'-0"



2 LOCKER DETAIL
SCALE: 1 1/2" = 1'-0"



3 TV NICHE @ FLIGHT CREW
SCALE: 1 1/2" = 1'-0"

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

MILLWORK DETAILS 01

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	MS
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
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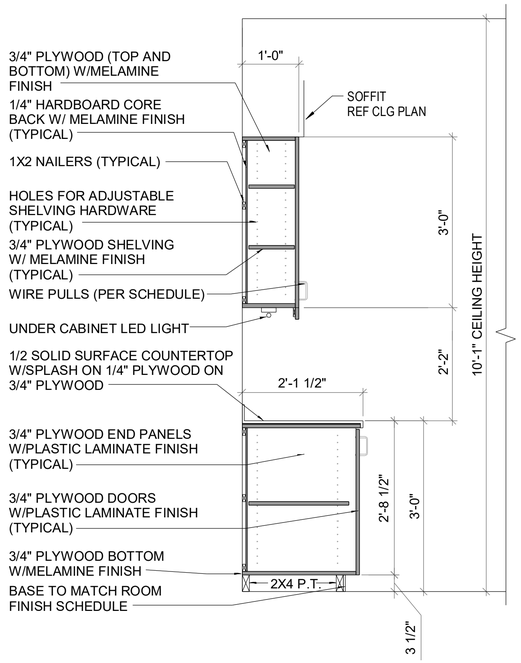
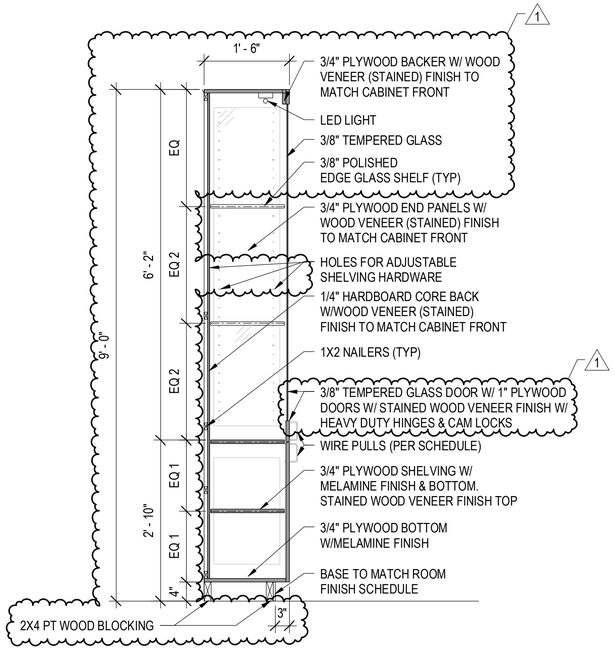
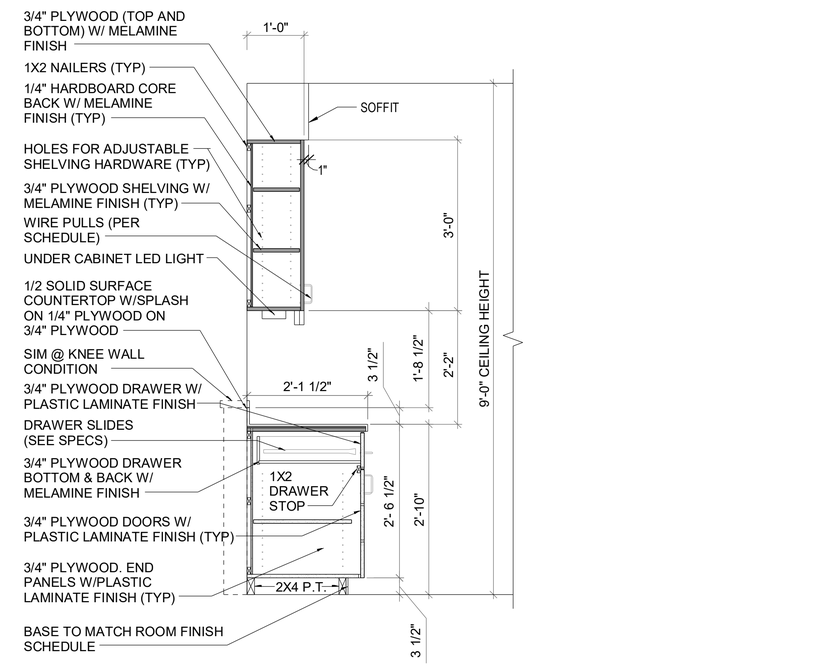


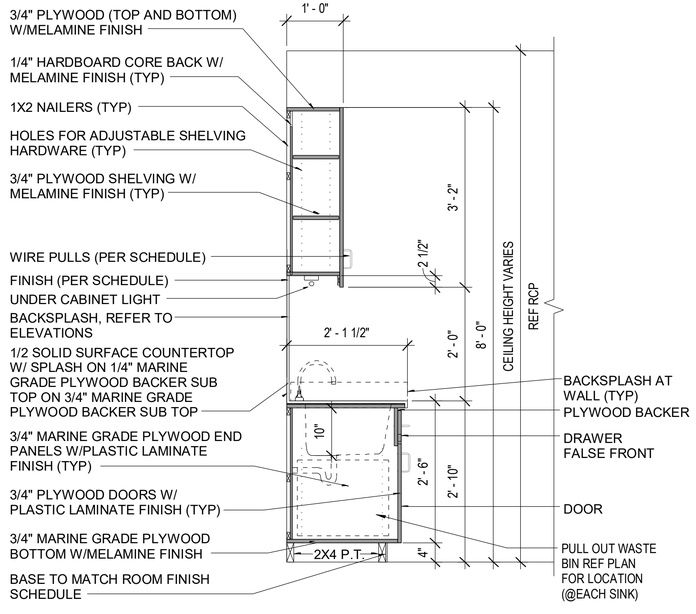
1 DETAIL SECTION - BREAKROOM COUNTER
SCALE: 3/4" = 1'-0"



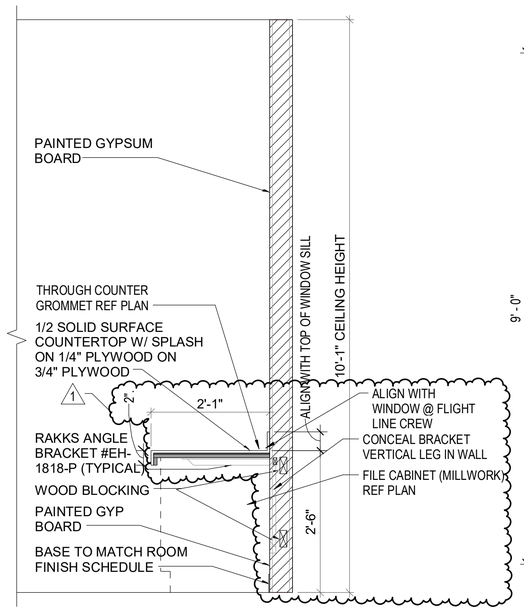
2 DETAIL SECTION - DISPLAY CABINET
SCALE: 3/4" = 1'-0"



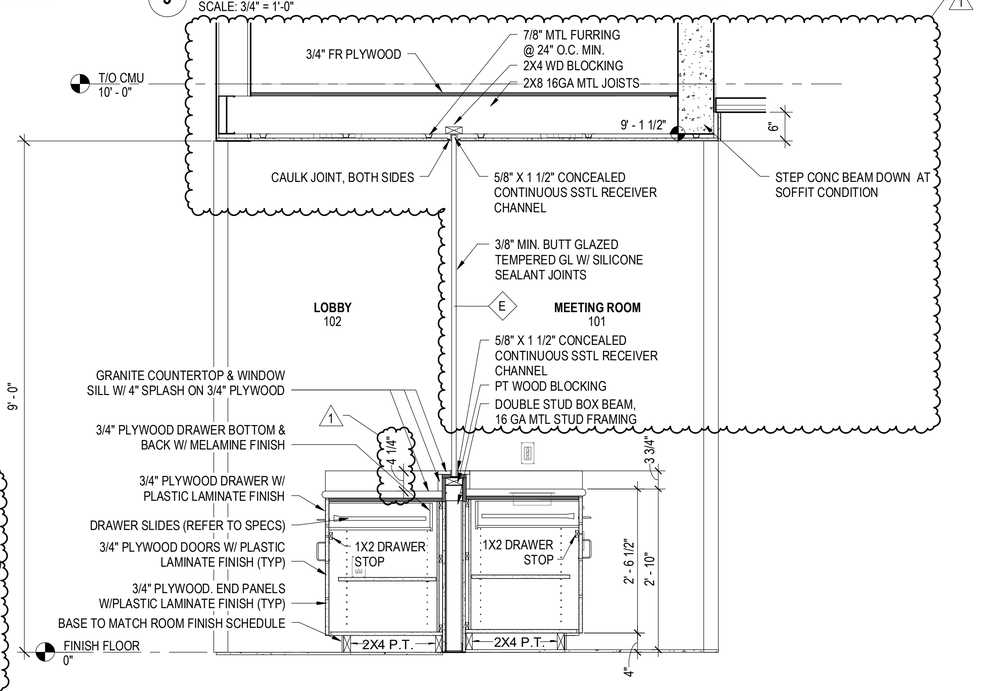
3 DETAIL SECTION - FBO OFFICE WORK COUNTER
SCALE: 3/4" = 1'-0"



4 DETAIL SECTION - BREAKROOM COUNTER AT SINK
SCALE: 3/4" = 1'-0"



5 DETAIL SECTION - FBO FLIGHT LINE WORK STATION
SCALE: 3/4" = 1'-0"



6 DETAIL SECTION - MEETING ROOM COUNTER
SCALE: 3/4" = 1'-0"

NOTE:
SAME ANNOTATIONS & DIMENSIONS APPLY TO MEETING ROOM COUNTER AS LOBBY

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

MILLWORK DETAILS 05

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	-
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

A-704

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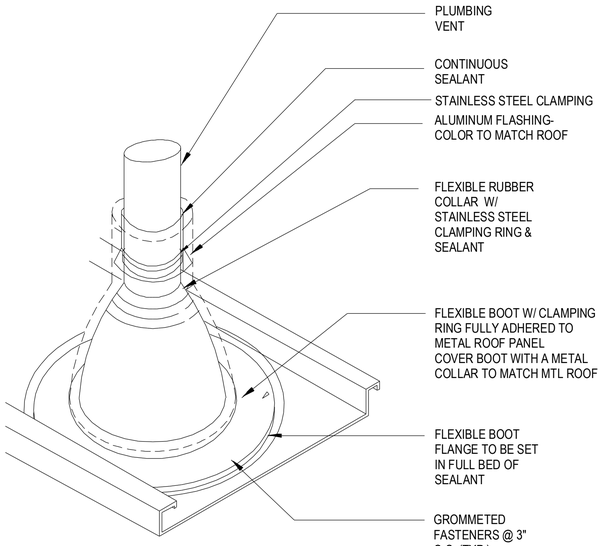
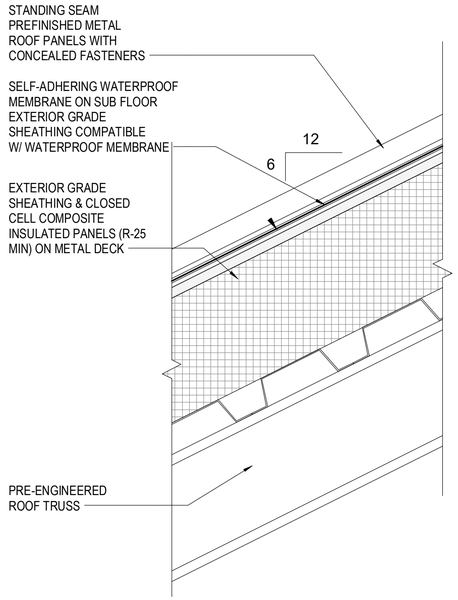
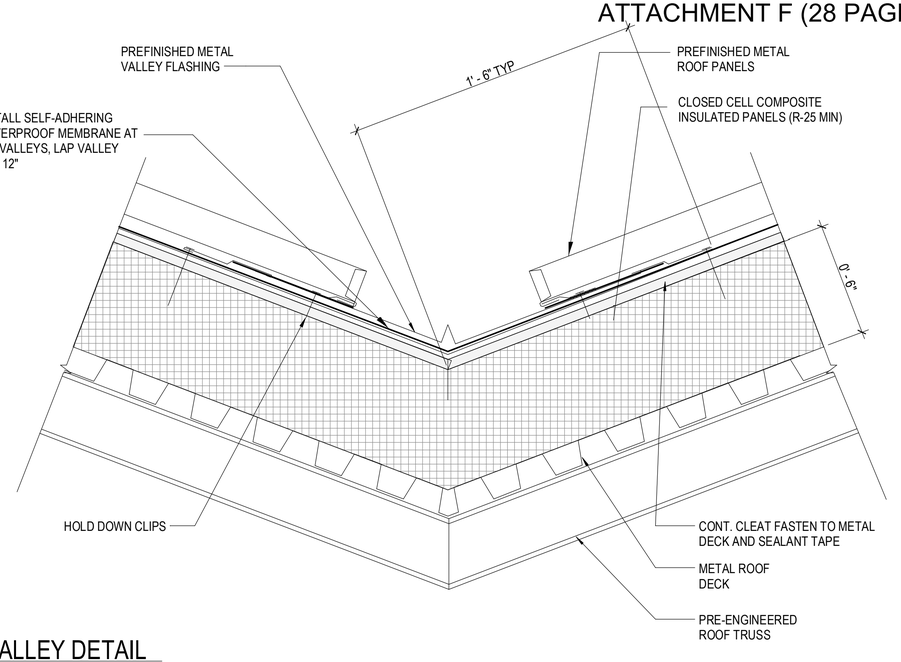


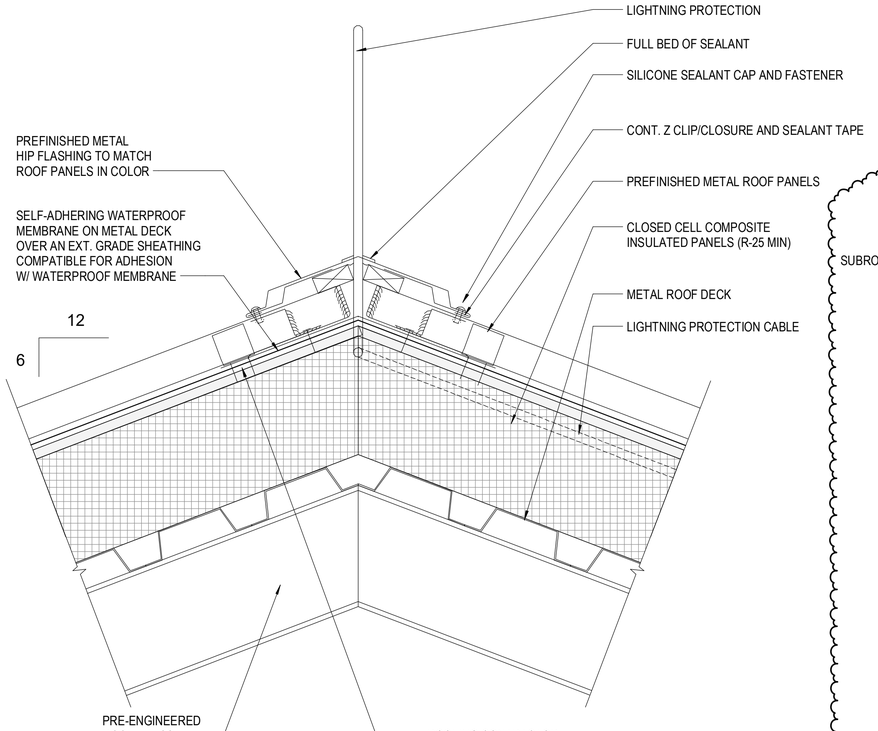
1 VENT PIPE
SCALE: 3" = 1'-0"



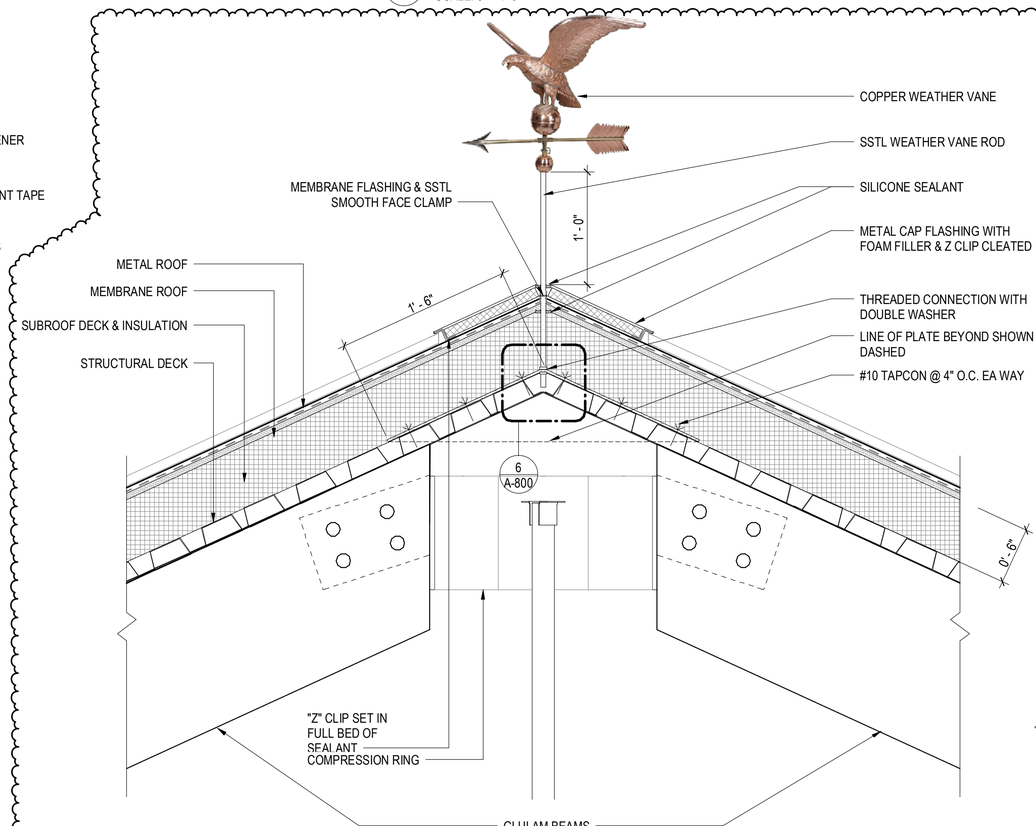
2 TYPICAL ROOF SYSTEM
SCALE: 3" = 1'-0"



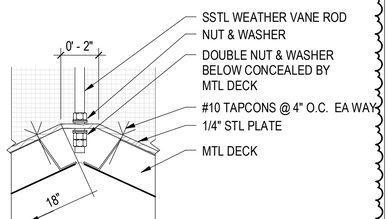
3 VALLEY DETAIL
SCALE: 3" = 1'-0"



4 HIP / RIDGE DETAIL
SCALE: 3" = 1'-0"



5 WEATHERVANE DETAIL
SCALE: 1 1/2" = 1'-0"



6 WEATHERVANE BASE DETAIL
SCALE: 3" = 1'-0"

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STATE OF FLORIDA · WILLIAM A. HAYWARD JR. · AR0011007 · REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

ROOF DETAILS 01

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	-
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER
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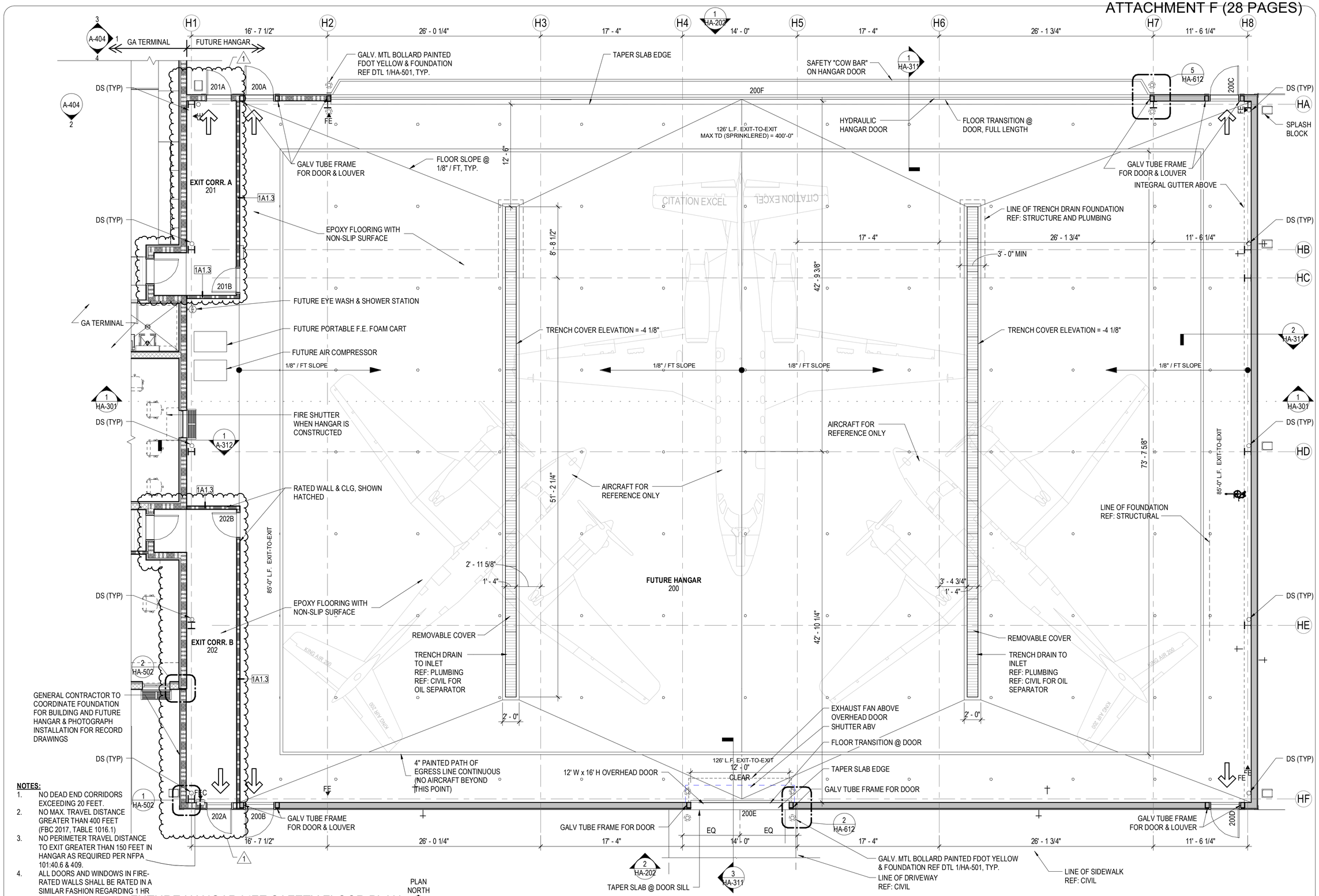

NOTES:

1. NO DEAD END CORRIDORS EXCEEDING 20 FEET.
2. NO MAX. TRAVEL DISTANCE GREATER THAN 400 FEET (FBC 2017, TABLE 1016.1)
3. NO PERIMETER TRAVEL DISTANCE TO EXIT GREATER THAN 150 FEET IN HANGAR AS REQUIRED PER NFPA 101:40.6 & 409.
4. ALL DOORS AND WINDOWS IN FIRE-RATED WALLS SHALL BE RATED IN A SIMILAR FASHION REGARDING 1 HR REQUIREMENTS.

1 FUTURE HANGAR LIFE SAFETY FLOOR PLAN
SCALE: 3/16" = 1'-0"

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STATE OF FLORIDA WILLIAM A. HAYWARD JR. AR0011007 REGISTERED ARCHITECT

WILLIAM A. HAYWARD JR.
FL LICENSE NO.:AR0011007

NO.	DATE	REVISION	BY
1	2/23/22	Addendum 2	WAH

ENLARGED FUTURE HANGAR PLAN

100% DESIGN DRAWINGS

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	CH
DRAWN BY:	MW
CHECKED BY:	DT
APPROVED BY:	WAH
PROJECT NO:	176232
DATE:	11/1/2021

SHEET NUMBER

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DEFUNIAK SPRINGS MUNICIPAL AIRPORT - LUMINAIRE SCHEDULE						
Light Fixture ID	Fixture Description	Light Fixture Model #	Fixture Lumens	Light Fixture Load (W)	Light Fixture Manufacturer	Light Fixture Voltage
AT22	2x2 ARCHITECTURAL TROFFER	AT3-22-L30/835-D-DIM-UNV	2816 LM	30 VA	H.E. WILLIAMS	277 V
AT24	2x2 ARCHITECTURAL TROFFER	AT3-24-L30-835-D-DIM-UNV	5436 LM	60 VA	H.E. WILLIAMS	277 V
CL3	3' LED COVE LIGHT	HP-2-R-RG-3FT-H-840	1918 LM	21 VA	FINELITE	277 V
CL6	6' LED COVE LIGHT	HP-2-R-RG-6FT-H-840	3456 LM	48 VA	FINELITE	277 V
CL10	10' LED COVE LIGHT	HP-2-R-RG-10FT-H-840	6394 LM	71 VA	FINELITE	277 V
CL24	24' LED COVE LIGHT	HP-2-R-RG-24FT-H-840	15344 LM	170 VA	FINELITE	277 V
DR1	4.5" RECESSED LED ROUND DOWNLIGHT	4DR-TL-L10/840-DIM-UNV-OW	1037 LM	9 VA	H.E. WILLIAMS	277 V
DR3	4.5" RECESSED LED ROUND DOWNLIGHT	4DR-TL-L30/840-DIM-UNV-OW	3015 LM	28 VA	H.E. WILLIAMS	277 V
DR3E	4.5" RECESSED LED ROUND DOWNLIGHT BATTERY BACKED	4DR-TL-L30/840-DIM-UNV-OW-BATTERY	3015 LM	38 VA	H.E. WILLIAMS	277 V
DR6	6" RECESSED LED ROUND DOWNLIGHT	6DR-TL-L20/840-DIM-UNV-SN	1836 LM	20 VA	H.E. WILLIAMS	277 V
DS6	6" SURFACE MNT SQUARE LED DOWNLIGHT	6DS-L50/840-DIM-UNV-OW	4786 LM	52 VA	H.E. WILLIAMS	277 V
DSE	6" SURFACE MNT SQUARE LED DOWNLIGHT BATTERY BACKED	6DS-L50/840-DIM-UNV-OW-BATTERY	4786 LM	62 VA	H.E. WILLIAMS	277 V
EM	EMERGENCY BATTERY BACKED FIXTURE	EMER/CP/ADJ/LED-WHT-D	N/A	2 VA	H.E. WILLIAMS	277 V
F1	100W POLARIS FLOOD LIGHT	AFL-100-40K-A90-V01-WT-TL-NDIM	15669 LM	110 VA	SPECGRADE	277 V
F2	DESIGNER LED FLOOD LIGHT TO FLAG POLE	DFC7-A33-32L-900-NW-G2-UNV	10301 LM	94 VA	SIGNIFY	277 V
FL10	10' FLEXIBLE LINEAR LED FIXTURE	VIP-24CEL500-50-10-JUSMAG	5910 LM	96 VA	LUCETTA CELESTE	277 V
FL36	36' FLEXIBLE LINEAR LED FIXTURE	VIP-24CEL500-50-36-JUSMAG	23610 LM	255 VA	LUCETTA CELESTE	277 V
HB	CIRCULAR HIGH BAY HANGAR LED, PENDANT MOUNT	CHB-P-400W-40K-WD-277-U-D-B	52000 LM	400 VA	TRULEY GREEN SOLUTIONS	277 V
N10	10' NEON LED STRIP LIGHT	NEON LED-126"	1800 LM	25 VA	SOLID APOLLO LED	277 V
P4	4' DIAM PENDANT MNT HALO LED, DIRECT/INDIRECT	KAT-DR/IN-CLO100-CLO100-40-4-WMT-277-CSS-M	15540 LM	160 VA	BIRCHWOOD LIGHTING	277 V
S4	4' SURFACE MNT LED FIXTURE	39W-4-L52/835-A-DIM-UNV	5206 LM	37 VA	H.E. WILLIAMS	277 V
S4P	4' PENDANT MNT LED FIXTURE	HP-4-S-RG-4FT-P-840	4150 LM	37 VA	FINELITE	277 V
WC	7.5" DIA WALL CYLINDER, DIRECT/INDIRECT, MNT 15'-0"	LC7UD-L53CU-L12CD-840-CS-WU-WD	4040 LM / 1242 LM	79 VA	H.E. WILLIAMS	277 V
WP2	2277LM STONCO LED WALL PACK	TW20-NW-G1-8	2277 LM	19 VA	SIGNIFY	277 V
WP4	4546LM GARDCO WALL PACK LED, MNT 24' AFF	121-16L-700-NW-G4-2	4546 LM	38 VA	SIGNIFY	277 V
X1	SINGLE SIDED EXIT SIGN	EX-R-EM-WHT-D	N/A	14 VA	H.E. WILLIAMS	277 V
X1L	SINGLE SIDED EXIT SIGN w/ LEFT ARROW	EX-R-EM-WHT-D	N/A	14 VA	H.E. WILLIAMS	277 V
X1R	SINGLE SIDED EXIT SIGN w/ RIGHT ARROW	EX-R-EM-WHT-D	N/A	14 VA	H.E. WILLIAMS	277 V

2

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RICHARD CREAVALLE, P.E.
FL LICENSE NO.:59885
FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

NO.	DATE	REVISION	BY
2	02/23/0222	Addendum No. 2	KB
1	05/14/2021	Addendum No. 1	AR/FB

LUMINAIRE SCHEDULE

RELEASE FOR BID

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY: FB
DRAWN BY: FB
CHECKED BY: KB
APPROVED BY: RC
PROJECT NO: 2019.028.01
DATE: November 1, 2021

SHEET NUMBER

E-100

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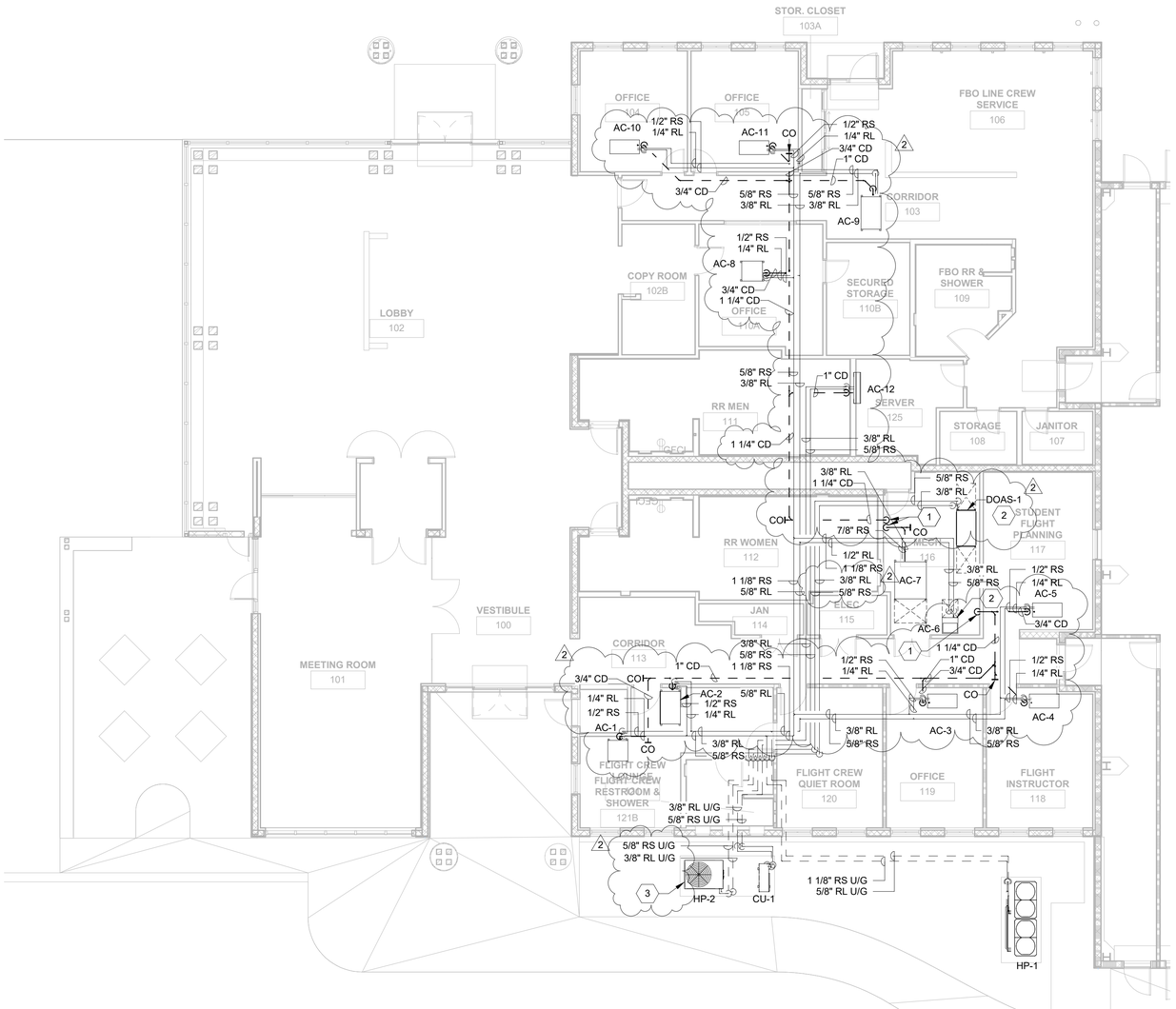

1 MECHANICAL 1ST FLOOR PLAN - AREA A -PIPING
1/8" = 1'-0"

MECHANICAL GENERAL NOTES

A. SITE VISIT-THE CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE FACILITY AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS. NO CLAIMS FOR ADDITIONAL WORK DUE TO OBSERVABLE CONDITIONS WILL BE CONSIDERED.

B. REPORT ANY ALTERATION TO AND/OR DEVIATIONS FROM THE DRAWING AS REQUIRED BY THE REGULATORY AUTHORITIES TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE STARTING ALTERATIONS.

C. PROVIDE EQUIPMENT CLEARANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES.

D. ALL WORK AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE MOST RECENTLY REVISED VERSION OF ALL APPLICABLE LAWS, RULES, REGULATION AND ORDINANCES OF FEDERAL, STATE, AND LOCAL AUTHORITIES, WHETHER INDICATED ON THE DRAWINGS OR NOT.

E. ROOM TEMPERATURE CONTROLLERS SHALL BE MOUNTED AT 48" AFF UNLESS NOTED OTHERWISE. DO NOT INSTALL ABOVE DIMMER. ALIGN WITH TOP OF LIGHT SWITCHES.

F. PROVIDE FIRE STOPPING AT PENETRATIONS OF RATED ASSEMBLIES (SLAB AND RATED WALLS).

MECHANICAL KEY NOTES

1	ROUTE 1 1/4" CONDENSATE PIPE DOWN TO CONDENSATE DRAIN IN MECHANICAL ROOM.
2	ROUTE CONDENSATE PIPE TO NEAREST CONDENSATE DRAIN.
3	DUAL CIRCUIT COMPRESSOR WITH HOT GAS REHEAT REFRIGERANT PIPING.

DRAFT
NOT FOR CONSTRUCTION

AVCON
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ZEMP PEPPER, P.E.
FL LICENSE NO.:41147
FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

NO.	DATE	REVISION	BY
2	02/23/2022	ADDENDUM NO. 2	ZP

MECHANICAL 1ST FLOOR PIPING PLAN - AREA A

RELEASE FOR BID

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY: R. BLANCO
DRAWN BY: R. BLANCO
CHECKED BY: Z. PEPPER
APPROVED BY: Z. PEPPER
PROJECT NO: 2019.028.01
DATE: November 1, 2021

SHEET NUMBER
M-103

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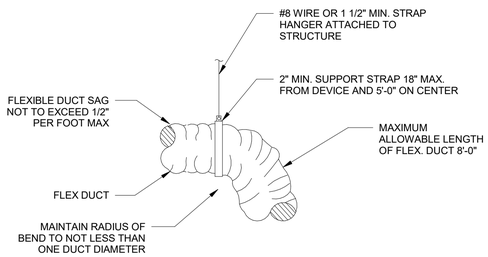
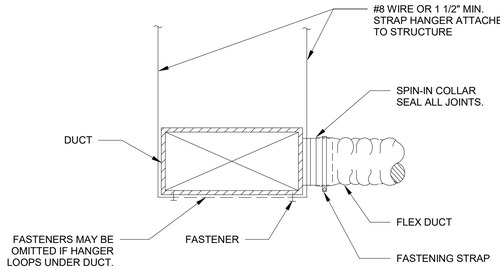
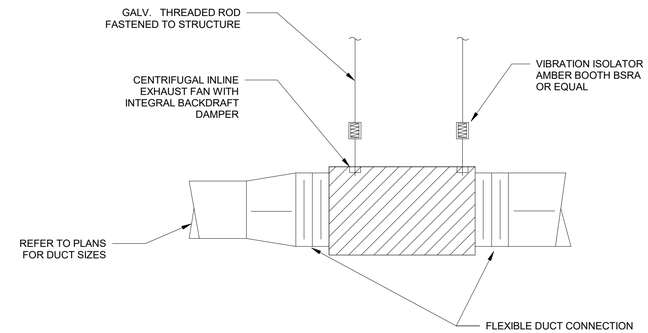


FLEX DUCT

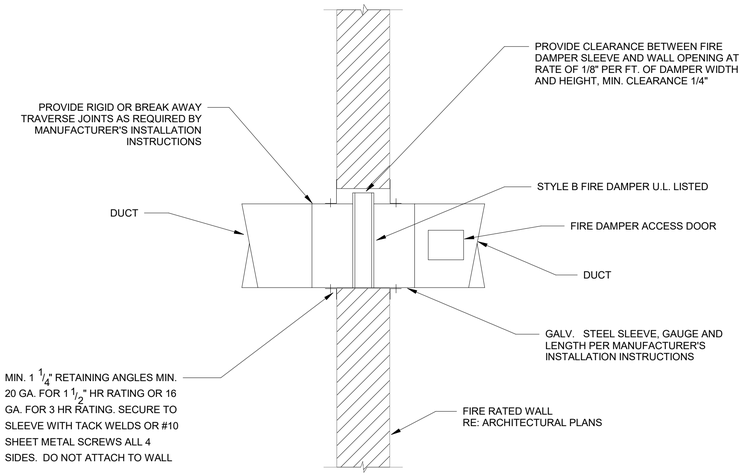


RIGID RECTANGULAR DUCT

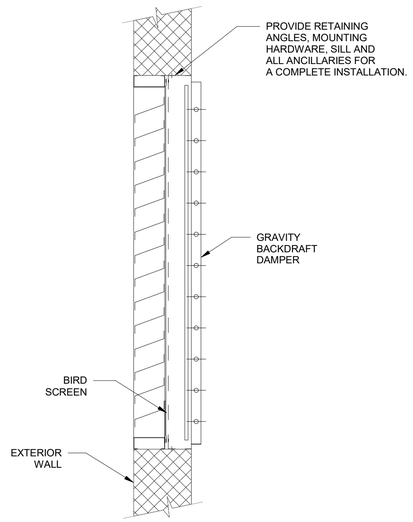
1 DUCTWORK SUPPORT DETAILS
NOT TO SCALE

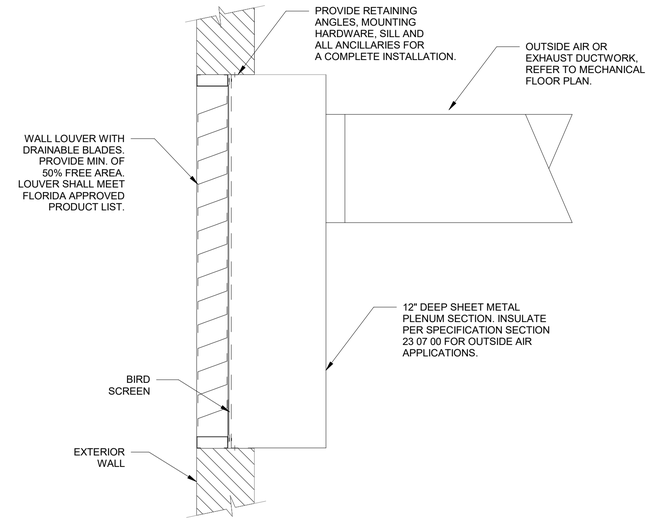


2 INLINE FAN DETAIL
NOT TO SCALE

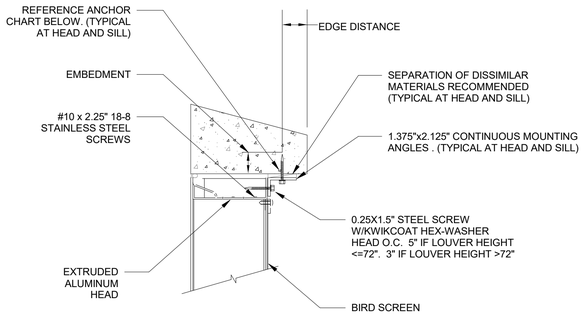


3 FIRE DAMPER DETAIL
NOT TO SCALE





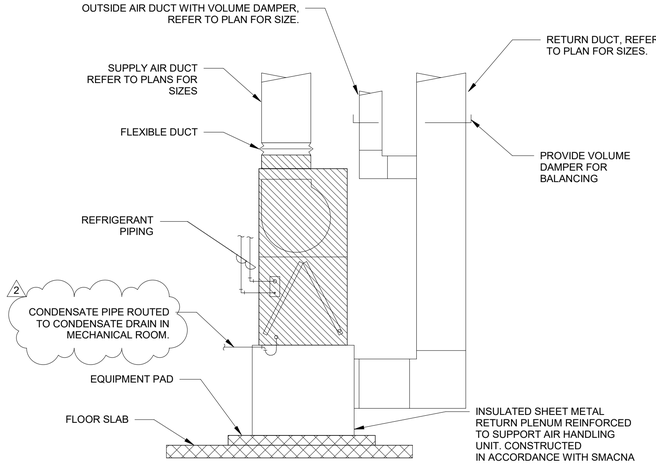
4 LOUVER DETAILS
NOT TO SCALE



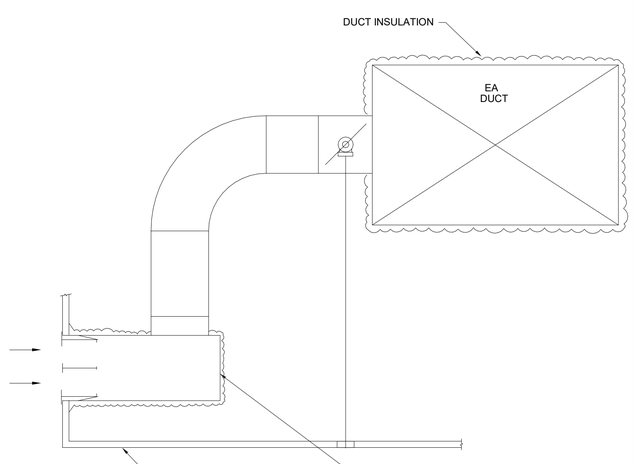
BUILDING CONSTRUCTION TYPE	BLDG MATERIAL MINIMUM	ANCHOR THICKNESS MIN.	ANCHOR TYPE *	MAT'L***	DIA.	HEIGHT MAX.	SPACING MAX.	EDGE MAX.	EMBED. MAX.
MASONRY	3 KSI	**	BUILDEX TAPCON	410 SS	1/4"	72"	6"	2-1/8"	1-3/4"

* FASTENERS SHALL BE HEX HEAD STYLE
** VARIES WITH SIZE OF FASTENER USED
*** LAG SCREWS SHALL HAVE STRENGTHS OF MINIMUM GRADE 1 STEEL, OTHER BOLTS AND SCREWS SHALL HAVE STRENGTHS OF MINIMUM GRADE 2 STEEL.

5 LOUVER ANCHORING DETAIL
NOT TO SCALE



6 VERTICAL AIR HANDLER UNIT DETAIL
NOT TO SCALE



7 BATHROOM EXHAUST DETAIL
NOT TO SCALE

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FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

NO.	DATE	REVISION	BY
2	02/23/2022	ADDENDUM NO. 2	ZP

MECHANICAL DETAILS

RELEASE FOR BID

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR
DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	R. BLANCO
DRAWN BY:	R. BLANCO
CHECKED BY:	Z. PEPPER
APPROVED BY:	Z. PEPPER
PROJECT NO:	2019.028.01
DATE:	November 1, 2021

SHEET NUMBER

M-502

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ATTACHMENT H (4 PAGES)

VRF SYSTEM SCHEDULE

1. BASIS OF DESIGN MODEL NUMBERS ARE BASED ON TRANE MITSUBISHI N-GEN MULTI VRF - Y SERIES.

2. PROVIDE 30% FILTER.

3. PROVIDE HEAT PUMP TWINNING KIT, MINI CONDENSATE PUMPS, FILTER DRYERS, ETC. FURNISH ALL OF THE ACCESSORIES NECESSARY FOR A COMPLETE VRF SYSTEM.

4. REFER TO SHEET M-701 FOR CONTROLS DETAILS.

AIR HANDLER																HEAT PUMP UNIT									
							COOLING COIL SECTION					HEATING COIL SECTION														
PLAN MARK	LOCATION	SERVES	UNIT TYPE	TOTAL (CFM)	OSA (CFM) PRE-TREATED	MAX E.S.P. IN. WG.	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	E.A.T. (°F) D.B.	E.A.T. (°F) W.B.	L.A.T. (°F) D.B.	HEATING CAP. (MBH)	E.A.T (°F) DB	L.A.T. (°F) DB	MODEL NO. (TRANE)	WEIGHT (LBS)	VOLTS	PH	PLAN MARK	SEER	COOLING CAP. (MBH)	HEATING CAP. (MBH)	NO. COMP.	CAPACITY STEPS	REFRIG.	WEIGHT (LBS)	MODEL NO. (TRANE)	VOLTS	PH
AC-1	CEILING	FLIGHT CREW	HORIZONTAL	300	0	0.6	7.2	5.8	75 °F	64 °F	57 °F	6.4	70 °F	90 °F	TPEFYP008MA143A	49	208	1	HP-1	26.7	192.6	171.9	2	VRF	R410A	560	TUHYP2164BN40AN	460	3
AC-2	CEILING	RESTROOMS, UTILITY	HORIZONTAL	685	0	1.0	21.6	17.3	75 °F	64 °F	57 °F	19.3	70 °F	90 °F	TPEFYP024MA143A	67	208	1										
AC-3	CEILING	OFFICE 119	CASETTE	307	0		5.4	4.6	75 °F	64 °F	61 °F	4.8	70 °F	85 °F	TPMFYP006BM140F	31	208	1										
AC-4	CEILING	FLIGHT INSTRUCTOR	CASETTE	307	0		5.4	4.6	75 °F	64 °F	61 °F	4.8	70 °F	85 °F	TPMFYP006BM140F	31	208	1										
AC-5	CEILING	STUDENT FLIGHT	CASETTE	307	0		5.4	4.6	75 °F	64 °F	61 °F	4.8	70 °F	85 °F	TPMFYP006BM140F	31	208	1										
AC-6	MECH. RM.	MEETING ROOM	VERTICAL	875	200	0.8	27.0	19.8	75 °F	64 °F	54 °F	24.3	70 °F	96 °F	TPVFYP030AM141A	115	208	1										
AC-7	CEILING	LOBBY	HORIZONTAL	2966	290	1.0	86.5	64.5	75 °F	64 °F	55 °F	77.2	70 °F	94 °F	TPEFYP096MH140A	221	208	1										
AC-8	CEILING	OFFICE 110A, STORAGE	HORIZONTAL	300	0	0.6	7.2	5.8	75 °F	64 °F	57 °F	6.4	70 °F	90 °F	TPEFYP008MA143A	49	208	1										
AC-9	CEILING	FBO LINE CREW	HORIZONTAL	883	0	0.6	21.6	17.3	75 °F	64 °F	57 °F	19.3	70 °F	90 °F	TPEFYP024MA143A	67	208	1										
AC-10	CEILING	OFFICE 104	CASETTE	307	0		5.4	4.6	75 °F	64 °F	61 °F	4.8	70 °F	85 °F	TPMFYP006BM140F	31	208	1										
AC-11	CEILING	OFFICE 105	CASETTE	307	0		5.4	4.6	75 °F	64 °F	61 °F	4.8	70 °F	85 °F	TPMFYP006BM140F	31	208	1										
AC-12	WALL	SERVER ROOM	WALL-MOUNTED		0		30.0	30.0	72 °F	60 °F	51 °F	22.8	70 °F	97 °F	PKA-A30KA7.TH	46	208	1	CU-1	19.8	26.6	22.8		VRF	R410A	153	PUZ-A30NHA7	208	1

FAN SCHEDULE

PLAN MARK	MODEL NO.	TYPE	CFM	ESP (IN.WG)	FAN RPM	MOTOR FLA	MOTOR HP	VOLT/ PHASE	DRIVE TYPE	SONES	LOCATION	CONTROLS	WEIGHT (LBS)	ACCESSORIES
EF-1	CSP-A1050	CABINET DIRECT DRIVE	740	0.75	1035	5.0	3/4	115/1	DIRECT	2.5	FLIGHT CREW RESTROOM 121B	INTERLOCK WITH DOAS-1	59	1,5,7,10,12,21
EF-2	AER-E42C-415-B-VGD	PROPELLER BELT DRIVEN	20,000	0.4	1056	16.7	5.0	208/3	DIRECT	52	HANGAR	THERMOSTAT	246	1,2,5,7,10,12,18,19
IF-1	DS-6-24-170HV	24" DIA. HIGH-VOL LOW-SPEED	197,667	-	51	12.0	2.0	208/3	DIRECT	-	HANGAR	MFR VFD CONTROLLER	258	7,25,26

NOTES:
1. MODEL NUMBERS AND FAN SELECTION ARE BASED ON GREENHECK.

ACCESSORIES:

1) BACKDRAFT DAMPER
2) THERMOSTAT
3) BIRDSCREEN
4) ROOF CURB (OR CURB ADAPTOR)
5) DISCONNECT SWITCH
6) DRAIN
7) EQUIPMENT SUPPORTS
8) INLET SCREEN
9) GREASE TRAP
10) SPEED CONTROLLER
11) WALL SHUTTER
12) VIBRATION ISOLATORS
13) WALL CAP
14) WALL SHUTTER - MOTORIZED
15) WEATHER COVER
16) 2 SPEED / 1 WINDING
17) FILTERS
18) WALL COLLAR
19) FAN GUARD/SCREEN
20) COMPANION FLANGES
21) INSULATED HOUSING FOR SOUND CONTROL
22) HINGED BASE
23) SPARK/EXPLOSION PROOF
24) UL 762 LISTED
25) NEMA 3R DISCONNECT SWITCH
26) VARIABLE FREQUENCY DRIVE

ELECTRIC UNIT HEATER SCHEDULE

TAG	MFR.	MODEL	CAP. KW	TEMP RISE (°F)	ELECTRICAL DATA VOLTS	□	Hz	AMPS	MOTOR HP	MOTOR RPM	AIRFLOW CFM	AIRFLOW THROW	WEIGHT LBS	REMARKS
EUH-1	QMARK	IUH1024	10	63	208	3	60	25.7	1/10	1550	500	20'	60	1,2,3
EUH-2	QMARK	IUH1024	10	63	208	3	60	25.7	1/10	1550	500	20'	60	1,2,3
EUH-3	QMARK	IUH1024	10	63	208	3	60	25.7	1/10	1550	500	20'	60	1,2,3
EUH-4	QMARK	IUH1024	10	63	208	3	60	25.7	1/10	1550	500	20'	60	1,2,3
EUH-5	QMARK	IUH1024	10	63	208	3	60	25.7	1/10	1550	500	20'	60	1,2,3
EUH-6	QMARK	IUH1024	10	63	208	3	60	25.7	1/10	1550	500	20'	60	1,2,3
EUH-7	QMARK	IUH1024	10	63	208	1	60	25.7	1/10	1550	500	20'	60	1,2,3
EUH-8	QMARK	IUH1024	10	63	208	1	60	25.7	1/10	1550	500	20'	60	1,2,3

REMARKS:
1. PROVIDE WALL MOUNTING KIT. EUH SHALL BE MOUNTED 10'-0" ABOVE UPPER SURFACE OF WINGS OR ENGINE ENCLOSURE OF DESIGN AIRCRAFT.
2. PROVIDE LINE VOLTAGE THERMOSTAT AND SUMMER/WINTER BUILT-IN FAN SWITCH. FURNISH STEP-DOWN TRANSFORMER AS NECESSARY.
3. PROVIDE 30 DEG DOWN NOZZLE WITH HORIZONTAL ADJUSTABLE BLADES.

INDOOR DX DOAS FAN COIL UNIT SCHEDULE

PLAN MARK	MODEL NUMBER	COND. UNIT PLAN MARK	TOTAL OUTSIDE AIR (CFM)	EXT. S.P. (IN. WC)	COOLING CAPACITY TOT. MBH	SENS. MBH	ENT DB (°F)	ENT DB (°F)	LVG DB (°F)	LVG WB (°F)	HEATING CAPACITY MAX MBH AT 47°F	AUX ELEC. HTNG COIL KW / STEPS	EAT (°F)	TEMP. RISE (°F)	HOT GAS REHEAT COIL / TYPE	ELECTRICAL DATA FAN HP	FAN FLA	MCA	MOCP	VOLT/ PHASE	UNIT WEIGHT
DOAS-1	TWE090E3	HP-2	1,010	1.0	92.3	33.7	82	78.6	52.7	52.7	78.6	13 / 1	29.0	41.0	YES / MOD.	1.5	5.3	86	90	208/1	360

NOTES:
1. BASIS OF DESIGN: TRANE MORGANIZER DUAL COMPRESSOR DUAL CIRCUIT.
2. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT. PROVIDE ELECTRICAL INTERLOCK WITH ASSOCIATED EXHAUST FANS.
3. PROVIDE WITH 2" PLEATED THROWAWAY MERV 13 85% EFFICIENCY FILTER IN COMPLIANCE WITH ASHRAE STANDARD 52.2 - 2012.
4. PROVIDE MODULATING HOT GAS REHEAT COIL FOR DEHUMIDIFICATION AND NEUTRAL SUPPLY AIR TEMPERATURE CONTROL .
5. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. FCU AND AUX ELECTRIC HEAT SHALL BE POWERED FROM A SINGLE SOURCE POWER CIRCUIT.
6. PROVIDE OVERFLOW SWITCH ON CONDENSATE TRAP TO SHUT-OFF UNIT AT HIGH CONDENSATE WATER LEVEL.

OUTDOOR AIR-COOLED HEAT PUMP OR CONDENSING UNIT SCHEDULE

PLAN MARK	MODEL NUMBER	CLNG CAP. MBH	CLNG AMB. TEMP. (°F)	HTNG CAP. MBH	CLNG AMB. TEMP. (°F)	REFR. TYPE	REFR. / CIRCUIT (LBS)	No. OF REFRIG. CIRCUITS	SUC. LINE OD (IN.)	LIQ. LINE OD (IN.)	CLNG EER 2	HTNG COP	ELECTRICAL DATA NO. COMP.	COMP. RLA (EA.)	NO. FANS	FAN FLA (EA.)	MCA	MOCP	VOLT/ PHASE	WEIGHT (LBS)
HP-2	TWA09043D	90	105	78.6	47	R410A	11.8	2	5/8	3/8	12.8	3.3	2	13.1	1	3.1	33	45	208/3	413

NOTES:
1. BASIS OF DESIGN: TRANE ODYSSEY.
2. PROVIDE HAIL GUARD.

LOUVER SCHEDULE

PLAN MARK	FUNCTION	TYPE	MANUFACTURER	MODEL NO.	CFM	SIZE (W"xH"xD")	MIN.REQ'D FREE AREA (SQ.FT.)	PRESSURE DROP (IN.WC.)	ASSOCIATED DAMPER TYPE
L-1	BLDG OA INTAKE	HORIZONTAL THIN-LINE	GREENHECK	ESJ-155	1,060	28"x28"x1.5"	2.2	0.04	MOTORIZED
L-2	BLDG EXHAUST	HORIZONTAL THIN-LINE	GREENHECK	ESU-153	740	24"x10"x1.5"	1.0	0.07	GRAVITY
L-3	HANGAR OA INTAKE	VERTICAL BLADE STATIONARY	GREENHECK	EVH-501D	10,000	44"x90"x5"	15.4	0.07	MOTORIZED
L-4	HANGAR OA INTAKE	VERTICAL BLADE STATIONARY	GREENHECK	EVH-501D	10,000	44"x90"x5"	15.4	0.07	MOTORIZED
L-5	HANGAR EXHAUST	VERTICAL BLADE STATIONARY	GREENHECK	EVH-501D	20,000	144"x56"x5"	31.4	0.07	GRAVITY

NOTES:

1. **LOUVERS SHALL BE 5" DEEP EXTRUDED ALUMINUM CONSTRUCTION WITH DRAINABLE HEAD AND EPOXY COATING. PROVIDE EXPANDED FLATTENED BIRD SCREEN IN REMOVABLE FRAME. COLOR SHALL BE SELECTED BY THE ARCHITECT.**
2. **LOUVERS SHALL MEET AMCA 550 CRITERIA FOR HIGH VELOCITY WIND DRIVEN RAIN AND SHALL HAVE THE MIAMI DADE FLORIDA PRODUCT APPROVAL.**
3. **CONTRACTOR SHALL PROVIDE WALL SLEEVE AND OTHER APPURTENANCES NECESSARY FOR A COMPLETE OPERATING ASSEMBLY.**
4. **GRAVITY DAMPERS SHALL BE EXTRUDED ALUMINUM WITH COUNTER BALANCE WEIGHTS. DAMPERS SHALL BE RATED FOR A VELOCITY OF 2,000 FPM AND PRESSURE DIFFERENTIAL OF UP TO 2.5" WC. DAMPERS SHALL BE MOUNTED VERTICALLY FOR HORIZONTAL AIRFLOW. PROVIDE WALL SLEEVE OR FAN HOUSING WITH LENGTH AS REQUIRED TO MAINTAIN THE MANUFACTURER'S REQUIRED CLEARANCE BETWEEN LOUVER, DAMPER AND FAN.**
5. **PROVIDE SPRING RETURN ACTUATOR FOR MOTORIZED DAMPER WITH TORQUE RATING AND TIMING IN ACCORDANCE WITH LOUVER MANUFACTURER REQUIREMENTS. ACTUATORS SHALL BE 120V/1PH.**
6. **MOTORIZED OPPOSED BLADE DAMPER SHALL BE FURNISHED AND FACTORY INSTALLED AT THE UNIT OA INTAKE.**

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

1. ALL HVAC DUCTWORK AND EXHAUST FANS SHALL BE SECURELY SUPPORTED FROM THE STRUCTURAL MEMBERS AND NOT FROM THE ACOUSTICAL TILE CEILING.

2. CEILING GRILLES TO BE PROVIDED WITH BORDER FOR SURACE MOUNTING.

3. GRILLES AND REGISTERS TO BE PROVIDED WITH BACK PAN INSULATION.

4. TYPE "E" AND "F" SLOT DIFFUSER FINISH SHALL BE APPROVED BY ARCHITECT.

MARK	TYPE	MAX NC LEVEL	MAX PD (IN. WG.)	SIZE INCHES (FACE/NECK)	MATERIAL	FINISH	MANUFACTURER MODEL NUMBER	REMARKS
A	CEILING SUPPLY GRILLE	20	0.069	SEE PLANS	ALUM.	WHITE	TITUS TMS-AA	PROVIDE O.B.D.
B	CEILING RETURN AND EXHAUST GRILLE	20	0.050	SEE PLANS	ALUM.	WHITE	TITUS 50F	PROVIDE O.B.D.
C	SIDEWALL SUPPLY GRILLE	22	0.064	SEE PLANS	ALUM.	WHITE	TITUS 272FS	PROVIDE O.B.D.
D	SIDEWALL RETURN AND EXHAUST GRILLE	25	0.072	SEE PLANS	ALUM.	WHITE	TITUS 300FS	PROVIDE O.B.D.
E	LINEAR SUPPLY SLOT DIFFUSER	25	0.080	SEE PLANS	ALUM.	PER ARCHITECT	TITUS ML-38	PROVIDE O.B.D.
F	LINEAR RETURN SLOT DIFFUSER	25	0.072	2-SLOT. 1" WIDTH. LENGTH PER PLANS	ALUM.	PER ARCHITECT	TITUS MLR-39	PROVIDE RETURN PLENUM, OMIT PATTERN CONTROLLER
G	SIDEWALL RETURN AND EXHAUST GRILLE	25	0.072	SEE PLANS	ALUM.	WHITE	TITUS 3FS	PROVIDE O.B.D.

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MECHANICAL SCHEDULES

RELEASE FOR BID

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY: R. BLANCO
DRAWN BY: R. BLANCO
CHECKED BY: Z. PEPPER
APPROVED BY: Z. PEPPER
PROJECT NO: 2019.028.01
DATE: November 1, 2021

SHEET NUMBER

M-601

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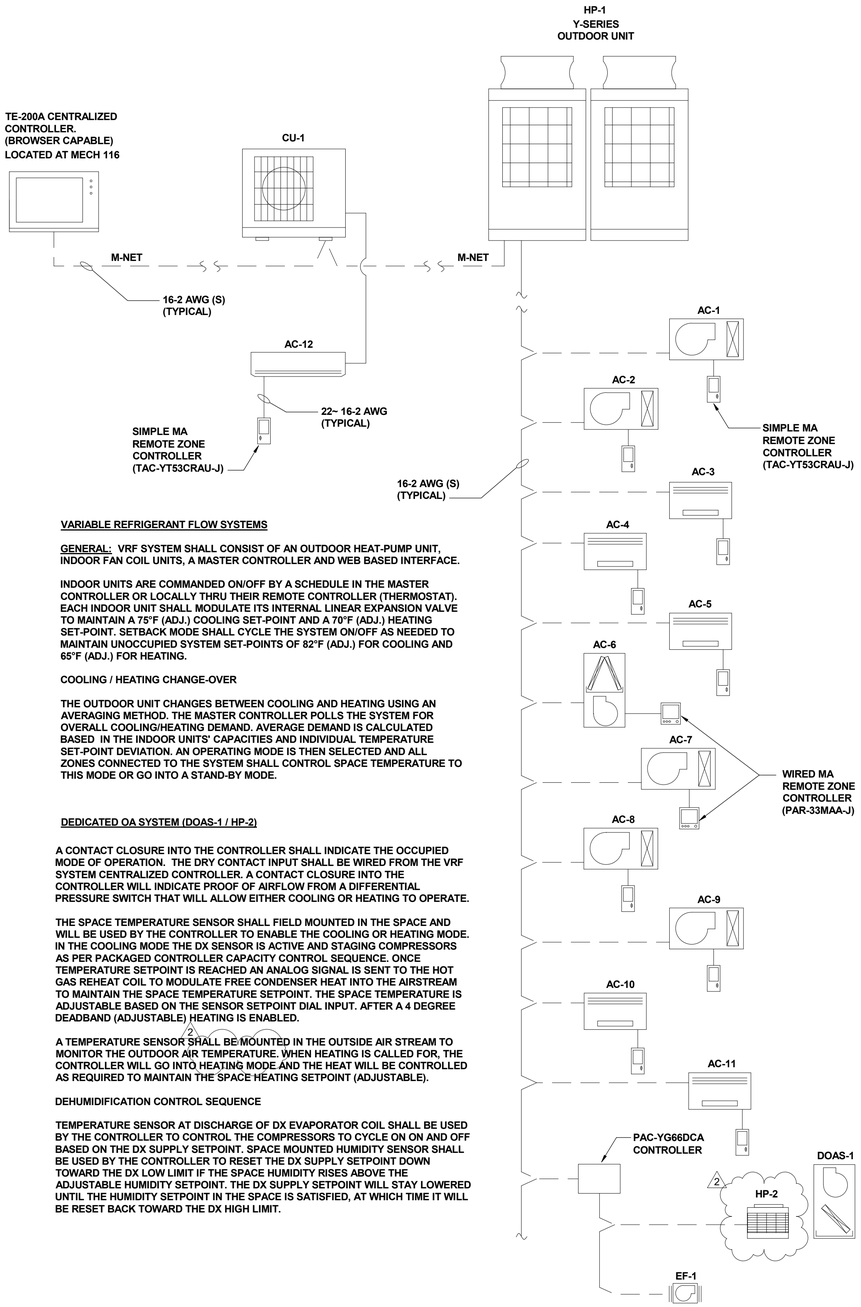


VARIABLE REFRIGERANT FLOW SYSTEMS

GENERAL: VRF SYSTEM SHALL CONSIST OF AN OUTDOOR HEAT-PUMP UNIT, INDOOR FAN COIL UNITS, A MASTER CONTROLLER AND WEB BASED INTERFACE.

INDOOR UNITS ARE COMMANDED ON/OFF BY A SCHEDULE IN THE MASTER CONTROLLER OR LOCALLY THRU THEIR REMOTE CONTROLLER (THERMOSTAT). EACH INDOOR UNIT SHALL MODULATE ITS INTERNAL LINEAR EXPANSION VALVE TO MAINTAIN A 75°F (ADJ.) COOLING SET-POINT AND A 70°F (ADJ.) HEATING SET-POINT. SETBACK MODE SHALL CYCLE THE SYSTEM ON/OFF AS NEEDED TO MAINTAIN UNOCCUPIED SYSTEM SET-POINTS OF 82°F (ADJ.) FOR COOLING AND 65°F (ADJ.) FOR HEATING.

COOLING / HEATING CHANGE-OVER

THE OUTDOOR UNIT CHANGES BETWEEN COOLING AND HEATING USING AN AVERAGING METHOD. THE MASTER CONTROLLER POLLS THE SYSTEM FOR OVERALL COOLING/HEATING DEMAND. AVERAGE DEMAND IS CALCULATED BASED IN THE INDOOR UNITS' CAPACITIES AND INDIVIDUAL TEMPERATURE SET-POINT DEVIATION. AN OPERATING MODE IS THEN SELECTED AND ALL ZONES CONNECTED TO THE SYSTEM SHALL CONTROL SPACE TEMPERATURE TO THIS MODE OR GO INTO A STAND-BY MODE.

DEDICATED OA SYSTEM (DOAS-1 / HP-2)

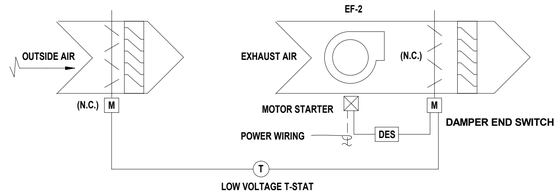
A CONTACT CLOSURE INTO THE CONTROLLER SHALL INDICATE THE OCCUPIED MODE OF OPERATION. THE DRY CONTACT INPUT SHALL BE WIRED FROM THE VRF SYSTEM CENTRALIZED CONTROLLER. A CONTACT CLOSURE INTO THE CONTROLLER WILL INDICATE PROOF OF AIRFLOW FROM A DIFFERENTIAL PRESSURE SWITCH THAT WILL ALLOW EITHER COOLING OR HEATING TO OPERATE.

THE SPACE TEMPERATURE SENSOR SHALL FIELD MOUNTED IN THE SPACE AND WILL BE USED BY THE CONTROLLER TO ENABLE THE COOLING OR HEATING MODE. IN THE COOLING MODE THE DX SENSOR IS ACTIVE AND STAGING COMPRESSORS AS PER PACKAGED CONTROLLER CAPACITY CONTROL SEQUENCE. ONCE TEMPERATURE SETPOINT IS REACHED AN ANALOG SIGNAL IS SENT TO THE HOT GAS REHEAT COIL TO MODULATE FREE CONDENSER HEAT INTO THE AIRSTREAM TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE SPACE TEMPERATURE IS ADJUSTABLE BASED ON THE SENSOR SETPOINT DIAL INPUT. AFTER A 4 DEGREE DEADBAND (ADJUSTABLE) HEATING IS ENABLED.

A TEMPERATURE SENSOR SHALL BE MOUNTED IN THE OUTSIDE AIR STREAM TO MONITOR THE OUTDOOR AIR TEMPERATURE. WHEN HEATING IS CALLED FOR, THE CONTROLLER WILL GO INTO HEATING MODE AND THE HEAT WILL BE CONTROLLED AS REQUIRED TO MAINTAIN THE SPACE HEATING SETPOINT (ADJUSTABLE).

DEHUMIDIFICATION CONTROL SEQUENCE

TEMPERATURE SENSOR AT DISCHARGE OF DX EVAPORATOR COIL SHALL BE USED BY THE CONTROLLER TO CONTROL THE COMPRESSORS TO CYCLE ON ON AND OFF BASED ON THE DX SUPPLY SETPOINT. SPACE MOUNTED HUMIDITY SENSOR SHALL BE USED BY THE CONTROLLER TO RESET THE DX SUPPLY SETPOINT DOWN TOWARD THE DX LOW LIMIT IF THE SPACE HUMIDITY RISES ABOVE THE ADJUSTABLE HUMIDITY SETPOINT. THE DX SUPPLY SETPOINT WILL STAY LOWERED UNTIL THE HUMIDITY SETPOINT IN THE SPACE IS SATISFIED, AT WHICH TIME IT WILL BE RESET BACK TOWARD THE DX HIGH LIMIT.

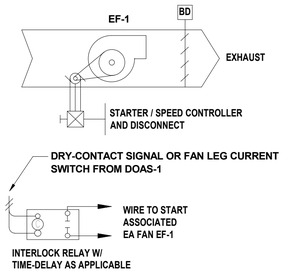


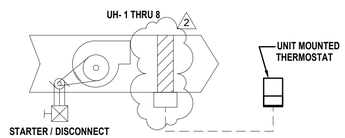
HANGAR VENTILATION SEQUENCE OF OPERATION (EF-2)

1) GENERAL: HANGAR VENTILATION SYSTEM (EXH FAN, OA INTAKE AND EXHAUST MOTORIZED DAMPERS) SHALL BE THERMOSTATICALLY CONTROLLED WHEN ON AUTO OPERATION.

2) UPON A CALL FROM WALL MOUNTED THERMOSTAT, OA LOUVER AND EA FAN MOTORIZED DAMPERS SHALL OPEN. AFTER EA DAMPER HAS BEEN PROVEN OPEN BY END SWITCH, EA FAN SHALL START & RUN CONTINUOUSLY UNTIL SPACE TEMPERATURE SET POINT OF 85°F (ADJ.) IS SATISFIED.

   THERMOSTAT SHALL INCLUDE A FAN "ON" OVERRIDE SWITCH TO MANUALLY ACTIVATE VENTILATION SYSTEM.





SEQUENCE OF OPERATIONS

GENERAL: THERMOSTATICALLY CONTROLLED HORIZONTAL DISCHARGE HW UNIT HEATER. FAN SHALL ONLY RUN DURING A CALL FOR HEATING.

SEQUENCE:

1) WHEN THE SPACE TEMPERATURE DROPS BELOW 55°F (ADJ.) THE UNIT HEATER ENERGIZES ITS FIRST STAGE HEATING COIL.

2) WHEN SPACE TEMPERATURE RISES ABOVE 65°F, UNIT HEATER SHALL DE-ENERGIZE.

THERMOSTAT SHALL INCLUDE A FAN-ONLY OPERATING MODE.

DRAFT
NOT FOR CONSTRUCTION

AVCON
TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

ZEMP PEPPER, P.E.
FL LICENSE NO.:41147
FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

NO.	DATE	REVISION	BY
2	02/23/2022	ADDENDUM NO. 2	ZP

MECHANICAL CONTROLS

RELEASE FOR BID

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY: R. BLANCO
DRAWN BY: R. BLANCO
CHECKED BY: Z. PEPPER
APPROVED BY: Z. PEPPER
PROJECT NO: 2019.028.01
DATE: November 1, 2021

SHEET NUMBER

M-701

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ATTACHMENT I (1 PAGE)

FIRE ALARM BASIS OF DESIGN

IN ACCORDANCE WITH FLORIDA ARTICLE 61G15-33.006 DESIGN OF ALARM SYSTEMS, WE PROVIDE THE FOLLOWING DESIGN CRITERIA BASED ON PARAGRAPH 2 ITEMS (A THROUGH R).

A. THE FIRE ALARM INSTALLATION SHALL BE PERFORMED BY A FACTORY AUTHORIZED REPRESENTATIVE, THE CONTRACTOR SHALL TEST AND CERTIFY SYSTEM PRIOR TO SUBSTANTIAL COMPLETION. ANY CHANGES SHALL BE INCORPORATED INTO THE SYSTEMS PROGRAMMING AND DOCUMENTATION.

B. SYSTEM RISER DIAGRAM:
THE SYSTEM RISER DIAGRAM IS SHOWN ON THIS DRAWING.

C. DEVICE TYPES AND LOCATIONS:
ALL DEVICES FOR THE FIRE ALARM SYSTEM SHALL BE U.L. LISTED. THE CONTRACTOR SHALL CONFIRM THE MOUNTING HEIGHTS OF ALL FIRE ALARM DEVICES PRIOR TO ROUGH-IN TO CONFIRM THAT THEY CAN BE MOUNTED AT THE ADA REQUIRED HEIGHT. REFERENCE SPECIFICATION 283111 FOR ADDITIONAL DEVICES REQUIREMENTS. NOTIFY THE ENGINEER OF ANY CONFLICT. 1

D. TYPES OF CONDUCTORS AND INSTALLATION REQUIREMENTS INCLUDING RATING, IDENTIFICATION AND LISTING REQUIREMENTS:
CONDUCTORS SHALL BE U.L. LISTED FOR FIRE-PROTECTIVE SIGNALING APPLICATION (MIN. #16 THHN CU). ALL FIRE ALARM WIRING SHALL BE INSTALLED IN A CONDUIT OR AN APPROVED RACEWAY SYSTEM.

E. NOTIFICATION REQUIREMENTS:
BOTH VISUAL AND AUDIBLE APPLIANCES SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF NFPA 72. DEVICES SHALL BE LOCATED IN THE OCCUPIED FINISHED AREAS OF THE BUILDING (CORE AREA). AUDIBLE DEVICES SHALL BE INSTALLED IN THE UNFINISHED FUTURE TENANT AREAS FOR AUDIBLE NOTIFICATION. STROBES CANDELA RATING SHALL MEET CURRENT NFPA 72 REQUIREMENTS. HORNS SHALL PROVIDE A MINIMUM db LEVEL OF 15db ABOVE THE AVERAGE AMBIENT SOUND LEVEL FOR BUSINESS OCCUPANCIES OF 55db.

F. BACKUP POWER REQUIREMENTS:
THE NORMAL POWER SHALL BE FROM A DEDICATED 120V, 20A CIRCUIT BREAKER IN ACCORDANCE WITH NEC AND NFPA 72. THE SECONDARY SUPPLY SHALL BE BY BATTERIES AUTOMATICALLY WITHIN 30 SECONDS OF THE PRIMARY SUPPLY FAILURE. PROVIDE SECONDARY POWER FOR A MINIMUM OF 24 HOURS UNDER MAXIMUM LOAD AND BE CAPABLE OF OPERATING ALL ALARM NOTIFICATION APPLIANCES USED FOR EVACUATION FOR AN ADDITIONAL 5 MINUTES. THE SECONDARY POWER SUPPLY (BATTERIES) FOR THE COMMUNICATIONS SERVICE SHALL BE CAPABLE OF OPERATING THE SYSTEM UNDER MAXIMUM NORMAL LOAD FOR 24 HOURS AND THEN SHALL BE CAPABLE OF OPERATING THE SYSTEM DURING A FIRE OR OTHER EMERGENCY CONDITION FOR A PERIOD OF 2 HOURS. REFERENCE SPECIFICATION 28 31 00 FOR ADDITIONAL REQUIREMENTS.

G. PROVIDE CONDUIT AND NECESSARY WIRING FROM EACH FIRE ALARM SHUT DOWN RELAY TO THE EQUIPMENT IT CONTROLS. COORDINATE TERMINATION OF SHUT DOWN WIRING WITH HVAC CONTROLS CONTRACTOR.

H. ALL CONDUIT SHALL BE FURNISHED WITH NYLON PULL STRING.

I. ALL DEVICES WITH STROBES SHALL BE SYNCHRONIZED.

J. ALL AIR HANDLERS (AHU'S) SHALL SHUT DOWN UPON ACTIVATION OF THE FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL BE ZONE BY DEVICE, FLOOR, AND AREA REFERENCE NFPA 72, A10.16.6 FOR AREA DETERMINATION. COORDINATE AHU SHUTDOWN DEVICE (INCLUDING DUCT MOUNTED SMOKE DETECTORS AND REMOTE TEST DEVICES) QUANTITIES AND LOCATIONS WITH MECHANICAL CONTRACTOR. ALL LOCATIONS SHALL COMPLY WITH NFPA. ALL AHU SHUTDOWN DEVICES MUST BE LOCATED WITHIN THREE FEET OF THE AHU CONTROLLER.

K. PROVIDE SURGE SUPPRESSION DEVICES ON EACH CABLE LEAVING AND ENTERING A BUILDING. SEPARATED BUILDINGS ARE DESIGNATED BY DISTINCT BUILDING NUMBERS, EVEN THOUGH A COMMON ROOF MAY JOIN THEM.

L. DEVICES SHALL BE LOCATED PER NFPA 72.

M. FIRE ALARM PANEL BATTERY SHALL PROVIDE 24 HOURS OF OPERATION.

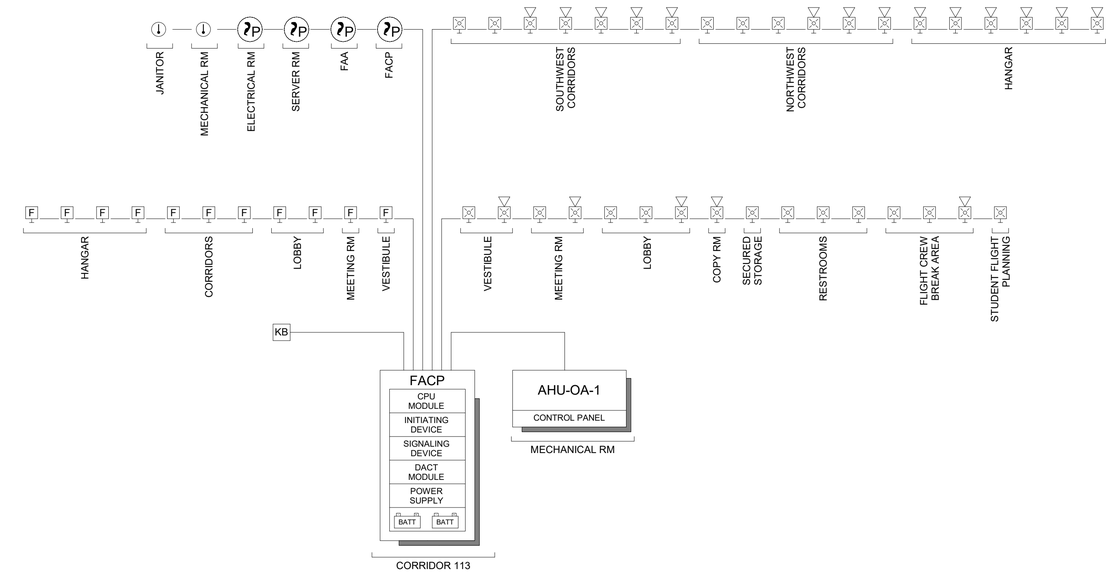
N. INSTALL HEAT DETECTORS AS SHOWN, IN STORAGE ROOMS (REGARDLESS OF SIZE), IN MECHANICAL ROOMS, IN JANITORIAL ROOMS, AND IN ALL NORMALLY UNOCCUPIED SPACES, UNLESS THE FACILITY IS FULLY PROTECTED BY A FIRE SPRINKLER SYSTEM.

O. VERIFY QUANTITY TYPE, AND ARRANGEMENT OF DEVICES REQUIRED ON PLAN DRAWINGS, THIS DRAWING FOR SCHEMATIC PURPOSES ONLY.

P. COORDINATE FIRE SPRINKLER DEVICE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR.

Q. PROVIDE A ZONE MAP OF THE FIRE ALARM SYSTEM MOUNTED NEAR THE FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL.

R. FIRE ALARM CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FLOOR PLANS INDICATING ALL FIRE ALARM DEVICES AND BATTERY CALCULATIONS.



FOR PERMIT & BIDDING ONLY

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TRANSFORMING TODAY'S IDEAS INTO TOMORROW'S REALITY

RICHARD CREAVALLE, P.E.
FL LICENSE NO.:59885
FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

NO.	DATE	REVISION	BY
1	02/23/0222	Addendum No. 2	KB

FIRE ALARM RISER DIAGRAM

RELEASE FOR BID

AIRPORT TERMINAL AND HANGAR DEVELOPMENT

PREPARED FOR

DEFUNIAK SPRINGS MUNICIPAL AIRPORT

DESIGNED BY:	FB
DRAWN BY:	FB
CHECKED BY:	KB
APPROVED BY:	RC
PROJECT NO:	2019.028.01
DATE:	November 1, 2021

SHEET NUMBER

FA-401

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Non-Mandatory Pre-Bid Conference

Date: **February 3, 2022**

To: **File – *2019.0028.01/301 Meetings – Bid Phase***

CC: **Meeting Attendees (noted on attached sign-in sheet)**

From: **John Collins, AVCON**

Re: **Minutes from Non-Mandatory Pre-Bid Conference on February 3, 2022**
DFS Terminal, Hangar, and Apron Expansion

MEETING MINUTES

A Non-Mandatory Pre-Bid Conference for the DFS Terminal, Hangar, and Apron Expansion project was held on February 3, 2022, at 10:00 am CT in the large conference room at the City of DeFuniak Springs City Hall.

The following minutes represent a summary of the salient issues discussed. They are not intended to be a verbatim transcript of the meeting or a part of the contract documents. These minutes are for informational purposes only.

A copy of the meeting agenda is attached. The scope of work was discussed by Mr. John Collins, P.E., of AVCON.

This project consists of an approx. 7,800 sf terminal, an approx. 11,000 sf hangar, landside sitework to include a parking lot, grading and drainage, potable water and sanitary sewer, security improvements, and drainage, and airside sitework to include an apron expansion, taxiway widening and lighting, grading and drainage, pavement markings, and aircraft tie-downs.

The project consists of a Base Bid and seven additive alternates as follows:

1. Base Bid – Terminal Building. The base bid shall include grading of the building pad, all terminal building improvements, concrete entryway up to and including truncated ADA dome plates, and landscaping and irrigation within 20 ft of the terminal.
2. Additive Alternate No. 1 – Main Entry Covered Canopy at Drop-Off
3. Additive Alternate No. 2 – Courtyard Enclosure Elements
4. Additive Alternate No. 3 – Landside Site Work Beyond Building Pad. The grading for the hangar building pad up to the proposed FFE is included in Additive Alternate No. 3.
5. Additive Alternate No. 4 – Hangar Building
6. Additive Alternate No. 5 – Barn Door in Lieu of Glass Door and Wall
7. Additive Alternate No. 6 – Apron Site Work
8. Additive Alternate No. 7 – Taxiway Connector Widening Site Work

The Bid Schedule provides pricing for the Base Bid and the seven Additive Alternates. The intent is for the County to award the Base Bid, Additive Alternates No. 3 and 6 at a minimum. The basis of award shall be

based on the total bid amount for the combination of Base Bid/Additive Alternates ultimately awarded by the City.

The last day for questions is Thursday, February 17 by 5:00 pm central. Please email all questions to John Collins at jcollins@avconinc.com.

The final addendum will be issued no later than COB on Thursday, February 24.

Bids are due to the City no later than Thursday, May 3, 2022 by 2:00 pm central.

The contract documents provide 600 days to substantial completion and 630 days to final completion.

The contract will be a unit-price contract with lump sum prices for the terminal and hangar buildings.

The DBE participation goal is 15.4%.

Contractors are responsible for keeping up with all addenda to ensure they bid on the most current set of plans and bid items.

A site visit was provided to meeting attendees immediately following the Pre-Bid Conference.

Important Dates:

- **Thursday, February 17**, **2022** - All bidder questions are due by 5:00 pm central
- **Thursday, February 24, 2022** – Final addendum issued
- **Thursday, March 3, 2022** - Bids are due by 2:00 pm CT

END OF MINUTES

ATTACHMENT J (4 PAGES)

PRE-BID CONFERENCE SIGN-IN SHEET

February 3, 2022 at 10:00 a.m.

Terminal, Hangar, and Apron Expansion
DeFuniak Springs Airport, City of DeFuniak Springs

NAME	REPRESENTING	TELEPHONE	E-MAIL ADDRESS
John Collins	AVCON INC.	850-678-0050	JCollins@AVCONINC.com
STEVE MARTIN	DOMINGUEZ DESIGN	850 776 986	ERIC ALFORD P.M ericeddbconstruct.com
Dan Edwards	DFS Airport	850-401-1019	airportdirector@defuniaksprings.net
Hunter Davis	Green Energy Contracting	(850)-748-4279,	Hunter@gecontracting.net.
James Penrod	Lord & Son	850-863-5158	Info@lordandson.com jamespenrod@lordandson.com

DFS TERMINAL, HANGAR, AND APRON EXPANSION
DeFuniak Springs Airport

PRE-BID CONFERENCE
February 3, 2022 – 10:00 am CDT

AGENDA

I. INTRODUCTION OF PARTICIPANTS

A. Owner - City of DeFuniak Springs, Florida
B. Engineer- AVCON, INC.
C. Architect - Michael Baker International

II. PURPOSE

To clarify and explain the construction scope, procedures, and safety measures associated with the bidding documents, and to answer questions.

III. SCOPE OF WORK

A. Description of Project

1. Primary Construction Elements
    a. Airport Terminal
    b. Aircraft Hangar
    c. Landside Site Work
    d. Airside Site Work

B. Bid Schedule

1. Base Bid – Terminal Building
2. Additive Alternate No. 1 – Main Entry Covered Canopy at Drop-Off
3. Additive Alternate No. 2 – Courtyard Enclosure Elements
4. Additive Alternate No. 3 – Landside Site Work Beyond Building Pad
5. Additive Alternate No. 4 – Hangar Building
6. Additive Alternate No. 5 – Barn Door in Lieu of Glass Door and Wall
7. Additive Alternate No. 6 – Apron Site Work
8. Additive Alternate No. 7 – Taxiway Connector Widening Site Work

IV. ADMINISTRATION

A. Project Schedule and Time

1. Last day for questions is Thursday, February 17 by 5:00 pm central
2. Final addendum issued by Thursday, February 24 by 5:00 pm central
3. Bids due by Thursday, March 3, 2022 until 2:00 pm central
4. Contract Award Anticipated
5. Duration and Time of Completion, 600 days to substantial, 630 to final

B. Contract Documents

1. Unit Price Contract
2. Basis of Award
3. DBE participation goal is 15.4%
4. Maximum Draw Schedule

V. QUESTIONS AND ANSWERS

RESPONSES TO PLAN HOLDER QUESTIONS
DFS TERMINAL, HANGAR, AND APRON DEVELOPMENT

1. The Bid documents do not indicate the location of the "Full Forward Flow" test header for the backflow preventor see NFPA 13 (16) 8.17.4.5.1. Will it be located on the building or backflow preventor?

   RESPONSE: The full forward flow test header shall be installed on the backflow preventor. A note will be added to the RPZ Assembly Backflow Preventer 3" and Up detail on Sheet C-14 in Addendum No. 2 to reflect this.

2. Is the floor drain in the riser room hydraulicly calculated to handle the annual 2" main drain test in accordance with NFPA 13 (2016) 8.16.2.4.4, NFPA 25 (2017) 13.2.5 & 13.3.3.4? What method should be used for cross connection prevention with the sewer? NFPA 13 (2016) 8.16.2.6.1. If an air gap is used for cross connection prevention will the floor drain opening be large enough to accept the stream without flooding the room?

   RESPONSE: The floor drain in Riser Room 001 is 4" and sized to accommodate system drainage. Cross connection prevention is provided by backflow preventer on the fire service line. Reference civil plans.

3. Hangar Building shows no scope or design for a fire suppression system on the FP Sheets.
   a. Is a fire suppression system required for the hangar?
   b. Is the fire suppression subcontractor the engineer of record?
   c. Is there a foam system required for the hangar? If so please provide specifications.
   d. Please verify that the water supply is sufficient to supply the hangar.

   RESPONSE: The Scope of Work does not include a fire suppression system in the hangar at this time.

4. PDF Bid Manual page 1160 section 061800 Glued-Laminated Construction paragraph 1.6A states a requirement for FSC-accredited certification body. There is not a Glue Laminated manufacture east of the Rocky Mountains that will provide this material. Since this is not a certified green building, please drop this accreditation from the specifications.

   RESPONSE: This requirement will be removed from the Bid Documents in Addendum No. 2.

5. The following fixtures are not listed on the luminaire schedule on Sheet E-100. Please provide.

   AT24, CL3, CL6, CL10, CL24, DR1, DR3, DR3E, DR6, DSE, FL10, FL36, P4, S4P, EM

   RESPONSE: The Light Fixture Schedule will be updated in Addendum No. 2.

6. There are multiple lighting fixture designations on the fixture schedule that do not match up with lighting plans. Please clarify the following fixture designations shown on the lighting plans: AT24, CL3, CL6, CL10, CL24, DR1, DR3, DR3E, DS6, DSE, EM4, FL10, FL36, S4P AND WC.

   RESPONSE: The Light Fixture Schedule will be updated in Addendum No. 2.

7. Key note #7 is calling for two 50' cord reels Larson Electronics part number EPLRT-50-HR. This part number is for an explosion proof cord reel that is extremely expensive. There is an alternative cord reel in a non-explosion proof form that is about 1/10th the cost of the explosion proof version specified. Are explosion proof cord reels required in the hangar? If so, is the hangar structure considered a Class 1 Div. 1 or Div. 2 location? If the hangar structure is not considered a hazardous location requiring Class 1 Division 1 or 2 electrical installation, substitute a cord reel that is not classified as explosion proof.

   RESPONSE: These cord reels shall not be explosion proof. This revision will be included in Addendum No. 2.

8. On sheet A-611 (Door Schedule), Door mark "110A Office" is an interior door. They are asking for an STC rating of 42. YKK has only one door that has been tested and that is the 35XT door with 1" laminated glass. The highest STC with that door is 36. Just wanted to give you heads up. Please Clarify if the YKK door is acceptable. If not please provide a manufacture that can provide.

   RESPONSE: The STC rating has been removed from Door 110A.

9. Sheet A-142 – Finish Schedule CONC-1 Comments states Black White and Blue Glass & Black Beauty, while Spec Section 03360 paragraph 2.6 does not indicate a white aggregate. Please clarify.

   RESPONSE: The white aggregate has been removed from the A-142 finish schedule.

10. Specification 09400 Terrazzo paragraph 2.3 Strip metal material states Aluminum ¼" deep. Can Zinc strips in 3/8" be used in lieu of the ¼" Aluminum? The zinc is more common in terrazzo work.

    RESPONSE: The preference is to maintain ¼" aluminum strips as specified; our research indicates aluminum is commonly used with terrazzo work as well as zinc.

11. Graphic Walls in the Rooms 111, 112 & 100 - I notice there is a custom pattern on there. Do you have artwork from the designer to share with, so we can review foe cost? If not, please provide an allowance to include in our bids.

    RESPONSE: The graphic wall panels are Artwork; per Appendix B "Artwork" is an Owner-furnished item. Per Specification GRAPHIC MURAL WALL FINISHES 09700-1.2, the wall system will arrive "ready to install", therefore the Contract will need to include a price for installation.

12. What kind of sod is to be installed?

    RESPONSE: Argentine Bahia in accordance with Sheet G-3.

13. Is this sod to be irrigated? The plans say to water it in, but does that mean a permanent system or a watering truck until established?

    RESPONSE: In accordance with Section 02800 – Landscape Irrigation, the contractor is required to provide a complete irrigation system to support all landscaping within 20 ft of the terminal building. Payment for all irrigation work shall be included in Pay Item TB-1, Terminal Building, Complete. In accordance with General Note 5 on Sheet C-16, the contractor shall water all other sod regularly to ensure sod becomes established. The means and methods to water this sod is the responsibility of the contractor.

14. The plans call out 12" Ribbon Curb but the detail on Sheet C-18 specified 2 ft Ribbon Curb. Please Clarify.

    RESPONSE: The detail on Sheet C-18 shall be revised to specify 12" Ribbon Curb in Addendum No. 2.

15. Please postpone the RFI deadline to February 23rd. Because of the amount work bidding currently most subcontractors will not begin to look at projects until the week before it is due.

    RESPONSE: Noted. The Bid Date will be revised from March 3 to March 10 in Addendum No. 2.

16. Is the prime contractor required to include builder's risk insurance in bid price?

    RESPONSE: No.

17. Should we include sales tax in our bid price?

    RESPONSE: Yes.

18. Will the Owner do direct purchase of products?

    RESPONSE: The owner will not be procuring significant construction items through the direct purchase process; however, Appendix B lists specific items which will be furnished by the owner.

19. Item E of Special Provision No2 says contractors accept existing conditions as is if we do not notify the Owner 7 days prior to bid. Existing conditions does include unmarked underground conditions, correct? Otherwise unnecessarily high contingency costs would have to be carried in the bids.

    RESPONSE: Contractors would not be responsible for the locations of existing underground utilities if they are not visible.

20. Please confirm that the airport and runways will remain in operation throughout the course of this project.

    RESPONSE: Yes, no airfield closures are anticipated with the exception of the Taxiway A connector if Additive Alternate No. 7 is awarded. Any work occurring within the Taxiway A TOFA, identified on Sheet c-3, shall occur when Taxiway A is closed. This will be clarified in Addendum No. 2.

21. Are there any times, days, or dates when airport operations will require construction activities to pause? If so, for how long?

    RESPONSE: No.

22. SP5-3, 1.3.2 states that if FAA is party to the contract then the Contractor is required to submit weekly for each week in which contract work is performed all payrolls to the FAA. Will the FAA be party to the contract?

    RESPONSE: Yes, Certified Payrolls are required to be submitted with each pay application.

23. SP5; the wage determinations included with the bid documents do not cover the building construction of terminal and hangar. Please provide appropriate and latest wage determinations that will apply to this contract.

    RESPONSE: These will be added with Addendum No. 2.

24. Civil sheet G-4, Permits, 1; Please confirm the bid proposal should not include the costs of permits.

    RESPONSE: Correct; however, an allowance has been provided under Additive Alternate No. 3 for permitting fees.

25. Time of completion stated in Notice to bidders states 600 calendar days to substantial completion. On page 127 of the manual in section 80-08 it states 420 calendar days. Please specify which number is correct.

    RESPONSE: The contract time to Substantial Completion is 600 days and Final Completion is 630 days. All references to contract time shall be revised accordingly.

26. Specification section 01143; please show on a plan area designated as Secured Area per paragraph 1.4-A.

    RESPONSE: The entire project site is identified as a secure area.

27. Specification section 01143-1.4-B says Contractor shall provide security within the construction area. Please specify what measures the contractor will be required to provide to comply with the security requirement.

    RESPONSE: The contractor shall monitor all employees onsite and ensure they do not leave the construction site.

28. Specification section 01143—1.7-2.d; please clarify whether this paragraph is saying that personal vehicles are not allowed anywhere within the project limits. Or is it saying they are allowed, but only within the laydown area as marked on sheet C-3?

    RESPONSE: Personal vehicles are allowed onsite and may park in the designated Contractor Staging Area identified on Sheet C-3 or as coordinated with the owner.

29. Please provide the top of wall for the future hangar. The elevations on HA drawings do not show it.

    RESPONSE: The cross section on HA-301 already provides the top of wall dimension.

30. Please show on plans extents of temporary fence required for this project.

    RESPONSE: The temporary fence will be depicted on Sheet G6 in Addendum No. 2.

31. Sheet ES-101; Please confirm that the costs for the electrical transformer (keynote 1) are not to be included in the bid price.

    RESPONSE: The costs of the Local Utility Transformer shall not be included in the bid price.

32. Sheet ES-101; Please confirm that the costs for the primary electrical conductors, conduits, ductbank are not to be included in the bid price.

    RESPONSE: The costs of the primary electrical conductors conduit/ductbank shall not be included in the bid price.

33. Sheet ES-101; Please clarify whether or not the transformer concrete pad is to be included in the bid price.

    RESPONSE: The transformer's concrete pad shall be included in the bid price.

34. Please confirm that the contractor is not required to include any utility impact fee costs in the bid price.

    RESPONSE: Correct.

35. Sheets F-102 and C-12; the entrance of the 6" fire water line does not match on the two drawings. Please correct civil drawing and re-issue to ensure site utility bids are accurate.

    RESPONSE: The location of the proposed 6" water line will be revised in Addendum No. 2.

36. Sheets HP-101 and C-12; the locations of the water line and sanitary sewer line laterals for the hangar does not match on the two drawings. Please correct civil drawing and re-issue to ensure site utility bids are accurate.

    RESPONSE: The hangar floor drain piping shall be revised to exit the west side of the hangar building and connect with CO-02 identified on Sheet C-12. No revised sheets will be provided.

37. Contractor Quality Control Program Item C-100 of Specifications. Please elaborate on the Contractor's duties to facilitate the CQCP workshop, duration of meeting, location, meals, facilitator, travel costs for attendants, etc.

    RESPONSE: It is anticipated this will be a single meeting held in the contractor's trailer with the construction team, design team, and owner. No meals are to be provided and the meeting will be hosted by the contractor.

38. Contractor Quality Control Program Item C-100 of Specifications. Can the CQCPA person have other duties, such as superintendent, safety, etc? Or is the CQCPA only allowed to perform CQC duties?

    RESPONSE: Yes.

39. Is the notice to proceed going to be concurrent with contract award, or will it be given at a later time, if so, how long after contract award?

    RESPONSE: It is anticipated that the Notice to Award will be issued immediately following approval to award the construction contract by the City Council. The contract will then be awarded as soon as all bonds and insurance documentation has been provided by the contractor. It is anticipated that the Notice to Proceed will be issued within seven days of contract execution. Please note that the Building Permit has not been issued yet and the contractor will be required to submit the Walton County Building Permit application upon execution of the contract. The contractor shall allow up to 120 days for Walton County to issue the Building Permit. The contractor may proceed with the civil work during this initial 120 days.

40. How long after the bid submittal will the contract be awarded?

    RESPONSE: The construction contract will be issued as soon as possible following the Bid Date and is contingent upon City legal review and the City Council meeting schedules.

41. Do we need to provide as-built documents? If so what type, redlines on paper drawings, CAD, or BIM?

    RESPONSE: Redline as-built drawings are acceptable. CAD or BIM files are not required.

42. Section 033000, 1.3.D; what are the floor surface flatness and levelness requirements for the slabs?

    RESPONSE: The floor flatness and levelness are to be in accordance with ACI 117 Section 4.8. The floor classifications are to meet the Flat classification with a $SOF_F = 35$ and $SOF_L = 25$.

43. Sheet HA-101, what is hashed marking on corridor 202?

    RESPONSE: Disregard the hatches in Exit Corridors 201 and 202 and refer to the finish schedule for floor finish requirements.

44. Sheet A-142 finish schedule, the walls and ceilings rows for the hangar say “future fin”, does this mean not to include the interior painting noted on HA-601 in bid price?

    RESPONSE: The metal building manufacture’s standard factory applied paint finish is to be provided for the metal roof and wall panels. All other steel elements will be field painted.

45. Specification section 01320, 2.2-C-3.i; Is commissioning required? There is no separate specification section for it, and no mention of whether it will be in the contractor’s scope of work.

    RESPONSE: No commissioning is required.

46. Sheets S2.00 and S2.01, column line H8, the wall extending from HE.4 to HF appears on both drawings. Please clarify if it should be included in the base bid price, or if in the Hangar price.

    RESPONSE: There is no wall at the location described by the question. However, the wall parallel and adjacent to H1 (extending from gridline A to HF) is to be included in the base bid price as it is part of the terminal building.

47. Section 13341, please remove requirement for metal building manufacturer to be AISC certified.

    RESPONSE: This requirement will be removed from the specification in Addendum No. 2.

End of Questions and Responses