
ADDENDUM NUMBER THREE
TO THE CONTRACT DOCUMENTS FOR CONSTRUCTION OF
SNOW ROGERS ELEMENTARY SCHOOL CLASSROOM & IMPROVEMENTS
JEFFERSON COUNTY BOARD OF EDUCATION

Bid Date / Time: Thursday, February 7th at 2 pm Central local time.

This addendum forms a part of the Contract Documents and modifies the Bid Documents dated December 14, 2018.

This Addendum consists of two (2) page Addendum with attached two (2) page bidder question, one (1) page Updated Pre-Qualified Bidders list, four (4) Specifications and one (1) full-size sheet.

GENERAL

ITEM 01 Updated Bidder Questions
Please see the attached bidder question log.

ITEM 02 Updated Pre-Qualified Bidders List
Please see the attached bidders list as the one issued in Addendum # 2 had one omission.

SPECIFICATIONS

ITEM 01 SECTION 000110 – TABLE OF CONTENTS
Reissue Specification in its entirety.
1. Remove Specification Title 055213 – Pipe and Tube Railings
2. Remove Specification Title 092236 – Lath
3. Remove Specification Title 092400 – Cement Plastering

ITEM 02 SECTION 004100 – C-3 Proposal Form
Reissue Specification in its entirety.
1. Add line for Unit Prices for Unsuitable Soils
2. Add line for Unit Prices for Modular Face Brick
3. Add line for Unit Prices for Solids Face Brick
4. Add line for Unit Prices for Color Mortar

ITEM 03 SECTION 055000 – Metal Fabrications
Reissue Specification in its entirety.
1. Section 1.01.C; Remove paragraph.
2. Section 2.04; Remove paragraph section.

ITEM 04 SECTION 055213 – Pipe and Tube Railings
Remove Specification in its entirety.

ITEM 05 SECTION 092236 – Lath
Remove Specification in its entirety.

ITEM 06 SECTION 092400 – Cement Plastering
Remove Specification in its entirety.

- ITEM 07 SECTION 095100 – Acoustical Ceilings
Reissue Specification Form in its entirety.
1. Add Paragraph 2.02.C – Acoustical Panels Type A2

DRAWINGS

- ITEM 01 SHEET A2.21 – FFE FLOOR PLANS
Reissue Sheet in its entirety.
1. Revised FURNITURE AND EQUIPMENT LEGEND
2. Add two (2) Access panel locations.

END OF ADDENDUM

No.	Scope	Sheet or Spec	Comment	Source	Architect / Engineer / Owner Response	Response By	Response Date (IN/OUT)	Addm #
1	PRE-BID QUESTIONS	-	What was changes in Addendum #1	ATTENDEES OF PRE-BID	Jefferson County board of Education Central Office; Address: 210 South 18th Street, Birmingham, AL 35209 @ 2pm	VOLKERT	(IN)1/24/2019; (OUT) 1/24/2019	N/A
2	PRE-BID QUESTIONS	-	What location is the bid taking place?	ATTENDEES OF PRE-BID	Jefferson County board of Education Central Office; Address: 210 South 18th Street, Birmingham, AL 35209 @ 2pm	VOLKERT	(IN)1/24/2019; (OUT) 1/24/2019	N/A
3	PRE-BID QUESTIONS	-	Whom/where to deliver sealed bids in advance?	ATTENDEES OF PRE-BID	Traci Busby; Department of Bids & Contracts; E- mail: tbusby@jefcoed.com; Phone: 205-379-2215	VOLKERT	(IN)1/24/2019; (OUT) 1/24/2019	N/A
4	PRE-BID QUESTIONS	-	Has the State approved the Project	ATTENDEES OF PRE-BID	Yes	DAVIS	(IN)1/24/2019; (OUT) 1/24/2019	N/A
5	PRE-BID QUESTIONS	-	Will GC pay sales tax on this project?	ATTENDEES OF PRE-BID	No	VOLKERT	(IN)1/24/2019; (OUT) 1/24/2019	N/A
6	PRE-BID QUESTIONS	-	-	-	GC and Super Intendant will be required to use a software called E-Builder throughout construction. All signed forms and submittals will be handled through E-Builder. GC will be responsible for purchasing their own yearly account subscription and will be given access to the project folders once a GC/Superintendent account is made.	VOLKERT	(IN)1/24/2019; (OUT) 1/24/2019	N/A
7	PRE-BID QUESTIONS	-	-	-	Copy Paul Ensign(Volkert Construction Manager) on all construction related communications.	VOLKERT	(IN)1/24/2019; (OUT) 1/24/2019	N/A
8	PRE-BID QUESTIONS	-	-	-	GC will be required to have state permitting fee paid.	VOLKERT	(IN)1/24/2019; (OUT) 1/24/2019	N/A
9	PRE-BID QUESTIONS	-	-	-	GC should not have to pay local/county inspection fees	VOLKERT	(IN)1/24/2019; (OUT) 1/24/2019	N/A
10	PRE-BID QUESTIONS	-	-	-	A drawing will be issued for Temporary/Construction Fencing	VOLKERT	(IN)1/24/2019; (OUT) 1/24/2019	N/A
11	PRE-BID QUESTIONS	11000	The summary specification lists that the project includes improvements to the lunchroom. Is this no longer in the project?	STONE CONSTRUCTION	There is no longer a cafeteria scope in the project.	DAVIS	(IN)1/24/2019; (OUT) 1/24/2019	N/A
12	BID QUESTIONS	221005	Will the sanitary sewer piping under the slab be Cast-Iron or PVC?	STONE CONSTRUCTION	PVC - Specifications will be updated in Addendum #2	DAVIS	(IN)1/24/2019; (OUT) 1/24/2019	N/A
13	BID QUESTIONS	51200	Will the AISC Certification required for the Fabricator. Will this be enforced?	STONE CONSTRUCTION	This requirement can be waived.	MBA/DAVIS	(IN)1/28/2019; (OUT) 1/28/2019	N/A
14	BID QUESTIONS	-	Will there be an allowance for repairing the existing drives or walks that become damaged during construction due to use or staging of construction equipment?	DAVIS	No. The GC will be responsible for repairing any existing conditions that become damaged throughout construction. The Owner and Project Manager will photo document the existing conditions of the site prior to construction for their record.	VOLKERT	(IN)1/28/2019; (OUT) 1/28/2019	N/A
15	BID QUESTIONS	-	Clarify the size of the bronze dedication plaque on the building.	STONE CONSTRUCTION	No greater then 24" x 24" in size.	DAVIS	(IN)1/30/2019; (OUT) 1/30/2019	N/A
16	BID QUESTIONS	-	The existing campus of Snow Rogers currently has Trane Controllers for their hvac systems. The drawings basis of design calls for Rheem. Should we match existing?	TRANE	The Owner does not want to limit the design to Trane and so Rheem will remain the basis, but Trane can be bid as a equal if allowed by the specifications.	VOLKERT	(IN)1/30/2019; (OUT) 1/30/2019	N/A
17	BID QUESTIONS	230900	Part 1.2.A states the approved controls system may be Trane or Automated Logic whereas Part 2.2.A.1 states only Automated Logic. Please clarify the approved list of controls systems/contractors for this project	DUNCAN AND THOMPSON	Trane or Automated Logic	DAVIS	(IN)2/1/2019; (OUT) 2/5/2019	N/A
18	BID QUESTIONS	-	Will a temp construction fence be required? Can you provide a plan showing the extents?	P&M MECHANICAL	Yes, there will be a need for Construction Fencing. A sheet will be issued in Addendum #2	DAVIS	(IN)2/5/2019; (OUT) 2/5/2019	N/A
19	BID QUESTIONS	-	Is there a Birck chosen or an allowance in the Project for the Brick?	AMASON	An allowance/unit price will be included in the Addendum #2.	DAVIS	(IN)2/5/2019; (OUT) 2/5/2019	N/A

**SNOW ROGERS ELEMENTARY SCHOOL
CLASSROOM ADDITION AND IMPROVEMENTS
CURRENT PRE-BID BIDDER'S LIST**

Thursday 24th, January, 2019
10:00 AM

KNOWN BIDDER'S LIST:

Amason & Assoc, Inc

P: (205) 345-9626 / F: (205) 345-9686

Argo Building Company

P: (205) 786-0336 / F: (205) 786-6808

Construction Services Group, LLC

P: (205) 966-3807 / F: (205) 777-5336

Coston General Contractors, Inc.

P: (205) 481-2346 / F: (205) 481-5680

Duncan & Thompson Construction Services, L.L.C.

P: (205) 403-9151 / F: (205) 403-9153

P& M Mechanical, Inc.

P: (205) 925-9486 / F: (205) 776-1220

STONE BUILDING, LLC

P: (205) 328-8300/ F: (205) 328-3235

Williford – Orman

P: (205) 620-0644 / F: (205) 620-0643

Wyatt General Contractor LLC

P: (205) 985-0121

SECTION 00 0110

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- 00 4000 - Procurement Forms and Supplements
- 00 4100 - Proposal Form
- 00 4310 – Statement of Compliance
- 00 4313 – Bid Bond
- 00 4322.13 – Accounting of Sales Tax
- 00 4325 – Substitution Request Form during Bidding/Negotiation
- 00 4519.12 – Disclosure Statement
- 00 5000 - Contracting Forms and Supplements
- 00 5200 – Agreement Form
- 00 5213 – Attachment A to Agreement Form
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- 00 6113.16 - Payment Bond
- 00 6276 - Application and Certification for Payment
- 00 6276.16 - Inventory of Stored Materials
- 00 6276.18 - Progress Schedule and Report
- 00 6293.13 - Contractor’s Statement of Responsibility for Construction of Safe Space **(ADD #1)**
- 00 6294.13 – Certification of Structural Observations **(ADD #1)**
- 00 6325 – Substitution Request Form after Bidding/Negotiation
- 00 6363 - Contract Change Order
- 00 6516 - Certificate of Substantial Completion
- 00 6536.13 - General Contractors Roofing Guarantee
- 00 6573.13 - Form of Advertisement for Completion
- 00 7200 - General Conditions of the Contract
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- 33 4100 – Storm Utility Drainage Piping

END OF SECTION

**SECTION 00 4100
FORM OF PROPOSAL**

FORM OF PROPOSAL: THE ALABAMA BUILDING COMMISSION DOCUMENT C-3 FORM OF PROPOSAL, DATED AUGUST 2001 IS BOUND INTO THIS PROJECT MANUAL FOLLOWING THIS PAGE.

END OF SECTION

PROPOSAL FORM

To: Jefferson County Board of Education Date: _____
(Awarding Authority)

In compliance with your Advertisement for Bids and subject to all the conditions thereof, the undersigned

_____ (Legal Name of Bidder)

hereby proposes to furnish all labor and materials and perform all work required for the construction of
WORK Snow Rogers Elementary School Classroom & Improvements

_____ in accordance

with Drawings and Project Manual, dated December 14, 2018, prepared by Davis Architects Inc.

The Bidder, which is organized and existing under the laws of the State of _____

having its principal offices in the City of _____

is: a Corporation a Partnership an individual (other) _____

LISTING OF PARTNERS OR OFFICERS: If Bidder is a Partnership, list all partners and their addresses; if Bidder is a Corporation, list the names, titles, and business addresses of its officers:

BIDDER'S REPRESENTATION: The Bidder declares that it has examined the site of the Work, having become fully informed regarding all pertinent conditions, and that it has examined the Drawings and Specifications (including all Addenda received) for the Work and the other Bid and Contract Documents relative thereto, and that it has satisfied itself relative to the Work to be performed.

ADDENDA: The Bidder acknowledges receipt of Addenda Nos. _____ through _____ inclusively.

BASE BID: For construction complete as shown and specified, the sum of _____ Dollars (\$ _____)

ALTERNATES: If alternates as set forth in the Bid Documents are accepted, the following adjustments are to be made to the Base Bid: Alternates are further described in Section 00 4322 and 01 2300.

For Alternate No. 1 (Expansion of Parking Area) (add)(deduct) \$ _____

ALLOWANCES – Include allowances in Base Bid in accord with Section 00 2100 - Allowances.

UNIT PRICES – Provide unit prices in accord with Section 01 2200 – Unit Prices

Unit Price 1: Unsuitable Soils and Replacing with Compacted Structural Fill. (CU. YD.) \$ _____

Unit Price 2: Modular Face Brick (Per Thousand Brick)..... \$ _____

Unit Price 3: Solids Face Brick (Per Thousand Brick).....\$ _____

Unit Price 4: Color Mortar (Per Bag).....\$ _____

BID SECURITY: The undersigned agrees to enter into a Construction Contract and furnish the prescribed Performance and Payment Bonds and evidence of insurance within fifteen calendar days, or such other period stated in the Bid Documents, after the contract forms have been presented for signature, provided such presentation is made within 30 calendar days after the opening of bids, or such other period stated in the Bid Documents. As security for this condition, the undersigned further agrees that the funds represented by the Bid Bond (or cashier's check) attached hereto may be called and paid into the account of the Awarding Authority as liquidated damages for failure to so comply.

Attached hereto is a: *(Mark the appropriate box and provide the applicable information)*

Bid Bond, executed by _____ as Surety,

a cashier's check on the _____ Bank of _____

for the sum of _____ Dollars

(\$ _____) made payable to the Awarding Authority.

BIDDER'S ALABAMA LICENSE:

State License for General Contracting: _____
License Number Bid Limit Type(s) of Work

CERTIFICATIONS: The undersigned certifies that he or she is authorized to execute contracts on behalf of the Bidder as legally named, that this proposal is submitted in good faith without fraud or collusion with any other bidder, that the information indicated in this document is true and complete, and that the bid is made in full accord with State law. Notice of acceptance may be sent to the undersigned at the address set forth below.

The Bidder also declares that a list of all proposed major subcontractors and suppliers will be submitted at a time subsequent to the receipt of bids as established by the Architect in the Bid Documents but in no event shall this time exceed twenty-four (24) hours after receipt of bids.

Legal Name of Bidder _____

Mailing Address _____

*** By (Legal Signature)** _____

*Name (Type or print) _____ (Seal)

*Title _____

Telephone Number _____

- If other than the individual proprietor, or an above named member of the Partnership, or the above named president, vice-president, or secretary of the Corporation, attach written authority to bind the Bidder. Any modification to a bid shall be over the initials of the person signing the bid, or of an authorized representative.

SECTION 05 5000
METAL FABRICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Shop fabricated steel items.
- B. Prefabricated ladders and ship ladders.
- C. Elevator access ladder.

1.02 RELATED REQUIREMENTS

- A. Section 03 3000 - Cast-in-Place Concrete: Placement of metal fabrications in concrete.
- B. Section 04 2000 - Unit Masonry: Placement of metal fabrications in masonry.
- C. Section 05 5100 - Metal Stairs.
- D. Section 05 5213 - Pipe and Tube Railings.
- E. Section 09 9113 - Exterior Painting: Paint finish.
- F. Section 09 9123 - Interior Painting: Paint finish.

1.03 REFERENCE STANDARDS

- A. ASTM A36/A36M - Standard Specification for Carbon Structural Steel.
- B. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- C. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- D. ASTM A283/A283M - Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates.
- E. ASTM A501/A501M - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
- F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- G. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts, Steel and Alloy Steel, Heat Treated, 120 ksi (830 MPa) and 150 ksi (1040 MPa) Minimum Tensile Strength, Inch and Metric Dimensions.
- H. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination.
- I. AWS D1.1/D1.1M - Structural Welding Code - Steel.
- J. IAS AC172 - Accreditation Criteria for Fabricator Inspection Programs for Structural Steel.
- K. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer.
- L. SSPC-Paint 20 - Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic").
- M. SSPC-SP 2 - Hand Tool Cleaning.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
 - 1. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.
- C. Welders' Certificates: Submit certification for welders employed on the project, verifying AWS qualification within the previous 12 months.

- D. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is accredited under IAS AC172.

1.05 QUALITY ASSURANCE

- A. Design load-bearing elements under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed in the State in which the Project is located.
- B. Fabricator Qualifications: A qualified steel fabricator that is accredited by IAS AC172.

1.06 MOCK-UP

- A. See Sheet A3.04 for mock-up requirements. Coordinate mock-up construction to provide complete systems including indicated substrate(s), masonry finishes, mortar and accessories, air barriers, flashings, sealants and all other applicable systems to provide complete assemblies.
 - 1. Provide miscellaneous steel items and accessories to provide complete mock-up as indicated.
- B. Locate where directed.
- C. Mock-up may not remain as part of the Work.
- D. Verify mock-up requirements with Architect and Project Manager prior to proceeding.

PART 2 PRODUCTS

2.01 MATERIALS - STEEL

- A. Steel Sections: ASTM A36/A36M.
- B. Steel Tubing: ASTM A501/A501M hot-formed structural tubing.
- C. Plates: ASTM A283/A283M.
- D. Pipe: ASTM A53/A53M, Grade B Schedule 40, black finish.
- E. Slotted Channel Framing: ASTM A653/A653M, Grade 33.
- F. Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, plain.
- G. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.
- H. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.
- I. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, Type I - Inorganic, complying with VOC limitations of authorities having jurisdiction.

2.02 FABRICATION

- A. Fit and shop assemble items in largest practical sections, for delivery to site.
- B. Fabricate items with joints tightly fitted and secured.
- C. Continuously seal joined members by continuous welds.
- D. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
- E. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.
- F. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

2.03 FABRICATED ITEMS

- A. Bollards: Steel pipe, concrete filled, crowned cap, as detailed; galvanized finish.
- B. Ledge Angles, Shelf Angles, Channels, and Plates Not Attached to Structural Framing: For support of metal decking; galvanized finish.

- C. Lintels: As detailed; galvanized finish.

2.04 FINISHES - STEEL

- A. Prime paint steel items.
 - 1. Exceptions: Galvanize items to be embedded in concrete or masonry and other items as indicated on Drawings.
 - 2. Exceptions: Do not prime surfaces in direct contact with concrete, where field welding is required, and items to be covered with sprayed fireproofing.
- B. Prepare surfaces to be primed in accordance with SSPC-SP2.
- C. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.
- D. Prime Painting: One coat.
- E. Galvanizing of Structural Steel Members: Galvanize after fabrication to ASTM A123/A123M requirements.
- F. Galvanizing of Non-structural Items: Galvanize after fabrication to ASTM A123/A123M requirements.

2.05 FABRICATION TOLERANCES

- A. Squareness: 1/8 inch maximum difference in diagonal measurements.
- B. Maximum Offset Between Faces: 1/16 inch.
- C. Maximum Misalignment of Adjacent Members: 1/16 inch.
- D. Maximum Bow: 1/8 inch in 48 inches.
- E. Maximum Deviation From Plane: 1/16 inch in 48 inches.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive work.

3.02 PREPARATION

- A. Clean and strip primed steel items to bare metal where site welding is required.
- B. Supply setting templates to the appropriate entities for steel items required to be cast into concrete or embedded in masonry.

3.03 INSTALLATION

- A. Install items plumb and level, accurately fitted, free from distortion or defects.
- B. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- C. Field weld components as indicated on drawings.
- D. Perform field welding in accordance with AWS D1.1/D1.1M.
- E. Obtain approval prior to site cutting or making adjustments not scheduled.
- F. After erection, prime welds, abrasions, and surfaces not shop primed or galvanized, except surfaces to be in contact with concrete.

3.04 TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
- B. Maximum Offset From True Alignment: 1/4 inch.
- C. Maximum Out-of-Position: 1/4 inch.

END OF SECTION

SECTION 09 5100
ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Suspended metal grid ceiling system.
- B. Acoustical units.

1.02 RELATED REQUIREMENTS

- A. Section 05 3100 - Steel Decking: Placement of special anchors or inserts for suspension system.
- B. Section 07 9005 - Joint Sealers: Acoustical sealant.
- C. Section 09 8400 - Acoustical Room Components: Vibration control hangers.
- D. Section 28 4600 - Fire Detection and Alarm: Fire alarm components in ceiling system.
- E. Section 23 3700 - Air Outlets and Inlets: Air diffusion devices in ceiling.
- F. Section 26 5100 - Interior Lighting: Light fixtures in ceiling system.
- G. Section 27 5116 - Public Address Systems: Speakers in ceiling system.

1.03 REFERENCE STANDARDS

- A. ASTM C635/C635M - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
- B. ASTM E1264 - Standard Classification for Acoustical Ceiling Products.
- C. CHPS (HPPD) - High Performance Products Database.
- D. ITS (DIR) - Directory of Listed Products; Intertek Testing Services NA, Inc..
- E. UL (FRD) - Fire Resistance Directory.
- F. UL (GGG) - GREENGUARD Gold Certified Products.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.
- B. Do not install acoustical units until after interior wet work is dry.

1.05 SUBMITTALS

See Section 01 3000 - Administrative Requirements, for submittal procedures.

- A. Shop Drawings: Indicate grid layout and related dimensioning.
- B. Product Data: Provide data on acoustical units.
- C. Samples: Submit two samples 8 by 8 inch in size illustrating material and finish of acoustical units.
- D. Samples: Submit two samples each, 8 inches long, of suspension system main runner.
- E. Manufacturer's Installation Instructions: Indicate special procedures.
- F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 6000 - Product Requirements, for additional provisions.
 - 2. Extra Acoustical Units: Quantity equal to 2 percent of total installed.
 - 3. Extra Suspension System: Quantity equal to 2 percent of total installed of each exposed component.

1.06 QUALITY ASSURANCE

- A. Fire-Resistive Assemblies: Complete assembly listed and classified by UL (FRD) for the fire resistance indicated.
- B. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.07 FIELD CONDITIONS

- A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

1.08 PROJECT CONDITIONS

- A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.
- B. Install acoustical units after interior wet work is dry.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acoustic Tiles/Panels:
 - 1. Basis of Design: Armstrong World Industries, Inc: www.armstrong.com.
 - 2. Subject to requirements, provide equal products by one of the following approved manufacturers:
 - a. Acoustic Ceiling Products, Inc: www.acpideas.com.
 - b. CertainTeed Corporation: www.certainteed.com.
 - c. USG: www.usg.com.
 - d. Substitutions: See Section 01 6000 - Product Requirements.
- B. Suspension Systems:
 - 1. Same as for acoustical units.
 - 2. Substitutions: See Section 01 6000 - Product Requirements.

2.02 ACOUSTICAL UNITS

- A. Acoustical Units - General: ASTM E1264, Class A.
 - 1. Units for Installation in Fire-Rated Suspension System: Listed and classified for the fire-resistive assembly as part of suspension system.
 - 2. VOC Content: Certified as Low Emission by one of the following:
 - a. Product listing in UL (GGG).
 - b. Product listing in CHPS (HPPD).
- B. Acoustical Panels Type A1: Painted mineral fiber, ASTM E 1264 Type III, with the following characteristics:
 - 1. Size: 24 x 24 inches.
 - 2. Thickness: 5/8 inches.
 - 3. Composition: Wet felted.
 - 4. Light Reflectance: 0.83 percent, determined as specified in ASTM E 1264.
 - 5. NRC Range: 0.50, determined as specified in ASTM E 1264.
 - 6. Ceiling Attenuation Class (CAC): 35, determined as specified in ASTM E 1264.
 - 7. Flame Spread: Class A per ASTM E1264.
 - 8. Edge: Square.
 - 9. Surface Color: White.
 - 10. Surface Pattern: Fine texture, non-directional.
 - 11. Additional Features:

- a. Anti moisture/anti sag feature.
- b. Anti mold/mildew treatment.
- c. Anti odor/stain/bacteria treatment.
- d. Impact-resistant.
12. Product: 1850 Dune by Armstrong World Industries, Inc.
 - a. Substitutions: See Section 01 6000 - Product Requirements.
13. Suspension System: Exposed grid Type 1.
- C. Acoustical Panels Type A2: Painted mineral fiber, ASTM E 1264 Type XX with the following characteristics:
 1. Size: 24 x 24 inches.
 2. Thickness: 5/8 inches.
 3. Composition: Wet felted.
 4. Light Reflectance: 0.82 percent, determined as specified in ASTM E 1264.
 5. NRC Range: 0.55, determined as specified in ASTM E 1264.
 6. Ceiling Attenuation Class (CAC): 38, determined as specified in ASTM E 1264.
 7. Flame Spread: Fire Guard - Class A per ASTM E1264.
 8. Edge: Square.
 9. Surface Color: White.
 10. Surface Pattern: Random perforated.
 11. Additional Features:
 - a. Anti moisture/water repellent.
 - b. Humidity resistant.
 - c. Anti mold/mildew-inherent.
 - d. Washable
 12. Product: 607 Ceramaguard by Armstrong World Industries.
 13. Suspension System: Exposed grid Type 2.

2.03 SUSPENSION SYSTEM(S)

- A. Manufacturers:
 1. Same as for acoustical units.
 2. Substitutions: See Section 01 6000 - Product Requirements.
- B. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.
- C. Exposed Steel Suspension System Type 1: Formed galvanized steel, commercial quality cold rolled; intermediate-duty.
 1. Profile: Tee; 15/16 inch wide face.
 2. Construction: Double web.
 3. Finish: White painted.
 4. Products:
 - a. 15/16 Prelude XL by Armstrong World Industries.
 - b. Substitutions: See Section 01 6000 - Product Requirements.
- D. Fire-Rated Exposed Steel Suspension System Type 2: Formed steel, commercial quality cold rolled; intermediate-duty.
 1. Profile: Tee; 15/16 inch wide face.
 2. Construction: Double web.
 3. Fire Rating: Fire Guard
 4. Finish: White painted.
 5. Products:
 - a. Prelude XL Fire Guard by Armstrong World Industries Inc..
 - b. Substitutions: See Section 01 6000 - Product Requirements.

2.04 ACCESSORIES

- A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.
- B. Perimeter Moldings: Same material and finish as grid.
 - 1. At Exposed Grid: Provide L-shaped molding for mounting at same elevation as face of grid.
- C. Gasket For Perimeter Moldings: Closed cell rubber sponge tape.
- D. Touch-up Paint: Type and color to match acoustical and grid units.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that layout of hangers will not interfere with other work.

3.02 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C 636, ASTM E 580, and manufacturer's instructions and as supplemented in this section.
- B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- C. Locate system on room axis according to reflected ceiling plan.
- D. Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.
- E. Provide hanger clips during steel deck erection. Provide additional hangers and inserts as required.
- F. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- G. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- H. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- I. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
- J. Do not eccentrically load system or induce rotation of runners.
- K. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
 - 1. Install with continuous gasket.
 - 2. Use longest practical lengths.
 - 3. Overlap and rivet corners.
- L. Form expansion joints as detailed. Form to accommodate plus or minus 1 inch movement. Maintain visual closure.
- M. Install light fixture boxes constructed of gypsum board above light fixtures in accordance with fire rated assembly requirements and light fixture ventilation requirements.

3.03 INSTALLATION - ACOUSTICAL UNITS

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.

- D. Install units after above-ceiling work is complete.
- E. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- F. Cutting Acoustical Units:
 - 1. Cut to fit irregular grid and perimeter edge trim.
 - 2. Make field cut edges of same profile as factory edges.
- G. Where round obstructions occur, provide preformed closures to match perimeter molding.
- H. Install hold-down clips on each panel to retain panels tight to grid system; comply with fire rating requirements.
- I. Install hold-down clips on panels within 20 ft of an exterior door.

3.04 TOLERANCES

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.
- B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

3.05 SCHEDULE

- A. See Finish Legend on Drawings.

END OF SECTION

WOMENS LOCKERS

NOTE: GRAPHICS & BRAILLE TO COMPLY WITH ALL ADA SIGNAGE STANDARDS

SIGN PANEL, QTY. (1)
1/8" THK. MATTE ACRYLIC PANEL W/
RAISED COPY NUMBERS, & BRAILLE

COPY & NUMBERS
3/32" RAISED APPLIQUE, SURFACE PAINTED
FONT: 'CENTURY GOTHIC BOLD'
(BRIGHT WHITE COLOR)

BRAILLE
ADA COMPLIANT GRADE II

SIGN TYPE 2
TYPICAL RESTROOM SIGN

STORAGE 140

NOTE: GRAPHICS & BRAILLE TO COMPLY WITH ALL ADA SIGNAGE STANDARDS

SIGN PANEL, QTY. (1)
1/8" THK. MATTE ACRYLIC PANEL W/
RAISED COPY NUMBERS, & BRAILLE

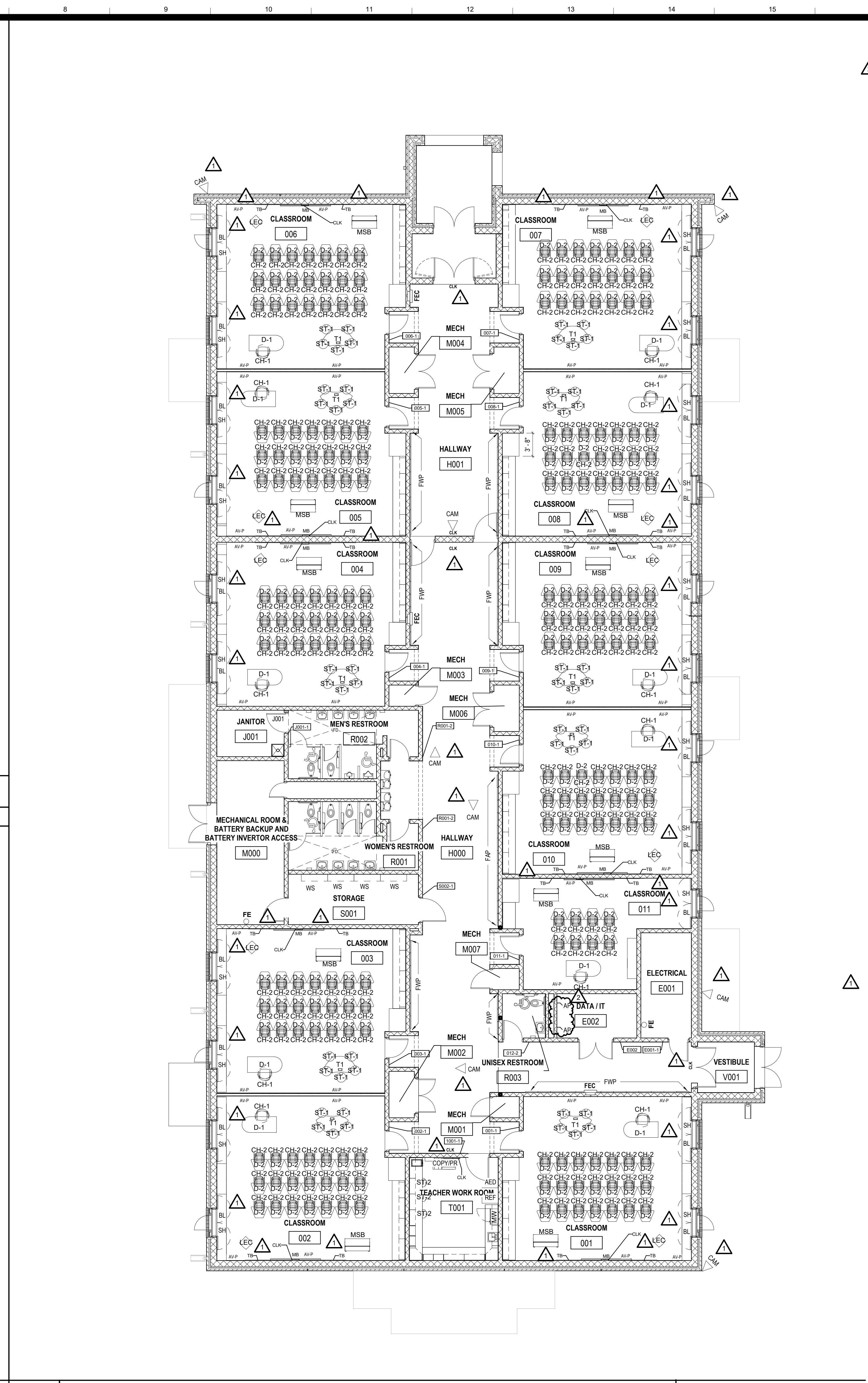
COPY & NUMBERS
3/32" RAISED APPLIQUE, SURFACE PAINTED
FONT: 'CENTURY GOTHIC BOLD'
(BRIGHT WHITE COLOR)

BRAILLE
ADA COMPLIANT GRADE II

SIGN TYPE 1
TYPICAL ROOM SIGN

F1 SIGN TYPE 2
SCALE: 6" = 1'-0"

A1 SIGN TYPE 1
SCALE: 6" = 1'-0"



FURNITURE AND EQUIPMENT LEGEND

AED	AED DEVICE
AP	ACCESS PANEL - SEE SPEC
BL	BLINDS - SEE SPECIFICATIONS
BP	BUILDING PLAQUE - SEE SPECIFICATIONS
CAM	CAMERA, OFCI
CH-1	TEACHER CHAIR, NIC
CH-2	STUDENT CHAIR, NIC
CLK	WALL-MOUNTED CLOCK/INTERCOM, OFCI, SEE ALLOWANCE SPECS
COPY	COPIER, NIC
D-1	TEACHER DESK, NIC
D-2	STUDENT DESK, NIC
ER	FIRE EXTINGUISHER (TYP WALL MOUNTED) - SEE LIFE SAFETY PLAN
FEC	FIRE EXTINGUISHER AND CABINET - SEE LIFE SAFETY PLAN
FE	
FWP	FABRIC WRAPPED PANELS, SEE SPECIFICATIONS
LEC	LECTERN, NIC
MB	MARKER BOARD, SEE SPECIFICATIONS
MSB	MARKER SMART BOARD, NIC
MW	MICROWAVE, NIC
PR	PRINTER, NIC
REF	REFRIGERATOR, NIC
SH	STORM SHELTER SHUTTERS, SEE SPECIFICATIONS
ST-1	STOOL, NIC
ST-2	STOOL, NIC
T-1	STUDENT KIDNEY SHAPED TABLE, NIC
TB	TACK BOARD, SEE SPECIFICATIONS
WS	WIRE SHELVING- PLASTIC COATED 18" DEEP, 3 SHELVES HIGH

AV LEGEND

AV-P	AV OUTLET PLATE
------	-----------------

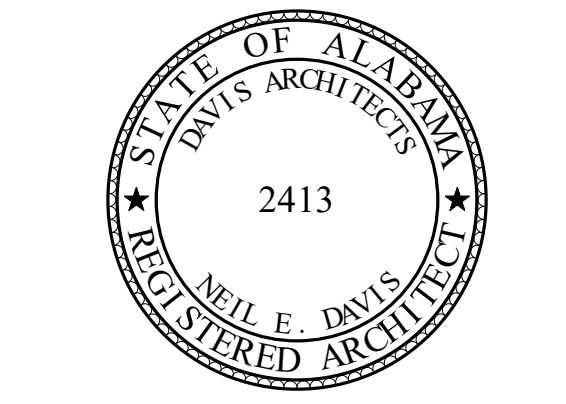
GENERAL NOTES

- OF = OWNER FURNISHED
- OFI = OWNER FURNISHED & CONTRACTOR INSTALLED
- NIC = NOT IN CONTRACT
- SEE SPECS FOR ALL MODEL NUMBERS, L.I.N.O.
- ALL MARKERBOARDS TO BE MOUNTED AT 70" AFF TO THE TOP OF THE UNIT, UNLESS OTHERWISE NOTED.
- ALL FURNITURE SHOWN IS NIC, L.I.N.O.
- COORDINATE FINAL LOCATIONS OF EQUIPMENT WITH ARCHITECT & OWNER PRIOR TO INSTALLATIONS.
- COORDINATE ALL LOCATIONS OF FLOOR BOXES WITH ARCHITECT AND AV CONTRACTOR PRIOR TO INSTALLATION.
- SIGNAGE ON GLAZING TO BE INSTALLED W/ MATCHING BACK PANEL.
- REFER TO A48 FOR TOILET ACCESSORY LEGEND AND ACCESSORY LOCATION IN RESTROOMS AND JANITOR CLOSETS.
- PROVIDE BLOCKING FOR ALL WALL-MOUNTED DEVICES INCLUDING THOSE THAT ARE NIC AND IN THE AV BID PACKAGE.
- SEE ELECTRICAL FOR AV, FS, KIOSK, & OTHER ROUGH-IN REQUIREMENTS.
- SEE INTERIOR ELEVATIONS FOR OTHER AV DEVICE LOCATIONS.
- SEE RCP PLANS FOR CAMERA LOCATIONS.
- SEE RCP PLANS FOR EXIT SIGN LOCATIONS.
- SEE SPECS FOR ALL SHUTTER HARDWARE.
- SEE INTERIOR ELEVATIONS AS ADDITIONAL EQUIPMENT MAY BE LOCATED IN THE INTERIOR ELEVATIONS AS WELL AS THE FFE PLAN.

SIGN LEGEND

ROOM NUMBER	-101-	SIGN TYPE
1-	ROOM ID	
2-	RESTROOM	
3-	ELEVATOR	
4-	STAIR	
5-	BUILDING DIRECTORY	
6-	DIRECTIONAL (WALL MTD)	
7-	DIMENSIONAL LETTERING	

DATE 12-14-2018
FRAME 100% CONSTRUCTION SET
ISSUED FOR ADDENDUM #3
DESIGNED BY DAVIS ARCHITECTS PROJECT NO. 3853
SHEET TITLE FFE FLOOR PLANS
DRAWING NO. A2.21



**SNOW ROGERS
ELEMENTARY SCHOOL
CLASSROOM &
IMPROVEMENTS**

JEFCOED
JEFFERSON COUNTY BOARD OF EDUCATION

JEFFERSON COUNTY
BOARD OF EDUCATION;
BIRMINGHAM, AL

DAVIS ARCHITECTS

OWNER
JEFFERSON COUNTY BOARD OF EDUCATION
2100 18TH STREET
BIRMINGHAM, AL 35209
ATTN: DR. WARREN CRAIG POUNCEY

ARCHITECT
DAVIS ARCHITECTS, INC.
120 23RD STREET SOUTH
BIRMINGHAM, AL 35223
205-322-7482
ATTN: JIM HARTSELL

PROGRAM MANAGER
VOLKERT
1616 2ND AVENUE SOUTH
SUITE 150
BIRMINGHAM, AL 35233
205-214-5500
ATTN: GLENN SLATER

STRUCTURAL ENGINEER
MBA ENGINEERS
300 20TH ST. N., SUITE 100
BIRMINGHAM, AL 35203
205-323-6385
ATTN: KEITH OWENS

MECHANICAL ENGINEER
BERNHARD TME
3332 OLD MONTGOMERY HIGHWAY
SUITE 103
BIRMINGHAM, AL 35209
205-870-9801
ATTN: DANIEL WHITAKER/JOHN MAYER

PLUMBING/FIRE PROTECTION ENGINEER
BERNHARD TME
3332 OLD MONTGOMERY HIGHWAY
SUITE 103
BIRMINGHAM, AL 35209
205-870-0801
ATTN: DANIEL WHITAKER/JOHN MAYER

ELECTRICAL ENGINEER
EDMONDS ENGINEERING
2 RIVERCHASE OFFICE PLAZA
SUITE 205
BIRMINGHAM, AL 35244
205-988-2099
ATTN: JIM TEISSERE

CIVIL ENGINEER
LEYD
716 S. 30TH ST.
BIRMINGHAM, AL 35233
205-251-4500
ATTN: CHRIS HARKINS

CIVIL ENGINEER (SANITARY SEWER)
ENGINEERS OF THE SOUTH
2025 1ST AVENUE NORTH, UNIT 100
BIRMINGHAM, AL 35203
205-327-9140
ATTN: WYNN ECHOLS

REV	DATE	DESCRIPTION
1	3-2-2018	ADDENDUM #1
2	3-6-2019	ADDENDUM #3

DATE 12-14-2018
FRAME 100% CONSTRUCTION SET
ISSUED FOR ADDENDUM #3
DESIGNED BY DAVIS ARCHITECTS PROJECT NO. 3853
SHEET TITLE FFE FLOOR PLANS
DRAWING NO. A2.21