

FROM: Lord, Aeck & Sargent, Inc.  
 1175 Peachtree Street NE  
 Suite 2400  
 Atlanta, GA 30361

TO: Bidding Contractors

This addendum forms a part of the Contract Documents and modifies the original Construction Documents previously issued as noted below.

This Addendum consists of 3 pages, and the attachments listed below, with a revision date of July 31, 2018, unless otherwise indicated. In modified specifications, new text is indicated by highlighting or underlining. Drawings listed herewith and attached indicate revisions with clouds. Modifications to documents included in this addendum are primarily related to the following:

1. Requests for clarification from Contractor walk-throughs/RFI's
2. Drawing and Specification clarifications.

The documents stated herein revise or modify the referenced specification or drawing as noted.

**BIDDER'S QUESTION CLARIFICATIONS:**

Number	Description	Contract Document Updated	Attached
1	Is there any additional information available for the existing roof manufacturer/assembly that we will be tying into? Additionally, is there an existing roof warranty that will need to be maintained? The existing roof membrane is PVC, Sarnafil G410 membrane, 60mil thickness. It was installed in 2015 and included a 20 year, NDL Warranty that needs to be maintained.	No	No
2	Can you please clarify on the slab on grade which "C.J" markings are Contraction Joints (detail 3/S201) and which are Construction Joints (detail 5/S201)? Construction joints may be placed at any contraction joint ("CJ") location at the contractor's option.	No	No
3	Will the Owner be responsible for all costs associated with the Utility company for the new transformer or are we to carry an allowance for this scope? The GC (project) should include all costs of the secondary conductors exiting the transformers and terminating in the electrical room. At this writing, the party who will bear the cost of the new transformer has not yet been determined pending final discussions with Georgia Power (who will need to review based on the additional loads/revenue). The contractor will need to coordinate the exact routing and connection requirements with the utility company.	No	No

4	Note 1 in the Rain Garden details calls for “Appropriate plants and planting schedule TBD”. Please advise if this schedule will be provided prior to bid submission or if we are to carry an allowance for this scope. <b>An allowance is to be carried for this scope. Please see Specification Section 01 2100.</b>	Yes	Yes
5	Can you please provide information on the existing fire alarm system manufacturer and the contractor that is currently performing the maintenance and inspections? <b>The design team believes the existing fire alarm system is Silent Knight but does not know who is currently maintaining the system.</b>		

## DRAWINGS

Number	Name	Description	Attached
A111	Enlarged Plan	Clarification for millwork/ furniture scope at Media Center near Study #607; added a detail key on plan A1/A111.	Yes
A223	Wall Section at Brick	Added a key note to storefront sill on detail A4/A233	Yes
A225	Wall Section at Overhead Door	Revised the metal canopy key note to coordinate with the specifications	Yes
A411	Enlarged Ceiling Plan	Added a detail key and additional dimensions on A1/A411	Yes
A604	Interior Elevations and Details	Revised the height of interior storefront of Maker Space #604 and #605; revised the counter top key note; Removed/ added details. Revised key notes to coordinate with spec sections.	Yes
A610	Interior Details	Added new details; revised the counter top key note	Yes
A700	Finish Legend	Revised the finish legend to eliminate finish materials that are not to be used.	Yes
C300	Layout and Staking Plan	Removed references to Alternates	Yes
C301	Fire Site Access Plan 1	Removed references to Alternates	Yes
C400	Grading & Drainage Plan	Removed references to Alternates	Yes
EC101	Intermediate ES&PC Plan	Removed references to Alternates	Yes
EC102	Final ES&PC Plan	Removed references to Alternates	Yes
E002	Electrical – Details and Schedules	Relocated panel HC, LC and transformer. Added notes to remove abandoned equipment as necessary.	Yes
E111	Electrical – Floor Plans - Power	Relocated devices, and noted a few as existing	Yes
E121	Electrical – Floor Plans - Lighting	Added occupancy sensors in classrooms per pre-bid walk through discussion, noted lighting as relocated.	Yes
M001	Mechanical – Legend Notes and Details	Clarification provided on controls by CCI, and barometric relief option on RTU.	Yes
M101	Mechanical - Controls	New Sheet with Controls Sequences	Yes
M102	Mechanical - Controls	New Sheet with Controls Sequences	Yes

## SPECIFICATIONS

Section Number	Name	Description	Attached
00 0110	Table of Contents	Incorporate new (and revised) specification sections	Yes
01 2100	Allowances	Incorporate allowance for landscaping for Rain Garden	Yes
07 9000	Joint Sealers	Incorporate pre-compressed foam sealer	Yes
08 6223	Tubular Skylights	Replace current specification section with new section for alternative Basis of Design skylight	Yes
09 9600	High Performance Coatings	Add this section	Yes
09 9727	Dry Erase Coating over Magnetic Base	Add this section	Yes

## OTHER

N/A

END OF ADDENDUM NO. 2

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PROCUREMENT AND CONTRACTING REQUIREMENTS

DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS

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dated December 2015*

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*AIA - Agreement Form*

*AIA A312 - Performance Bond*

*AIA A312 - Payment Bond*

*AIA G715 - Supplemental Attachment for ACORD Certificate of Insurance 25-S*

*AIA G706 - Contractor's Affidavit of Payment of Debts and Claims*

*AIA G706A - Contractor's Affidavit of Release of Liens*

*AIA A707- Consent of Surety to Final Payment*

*AIA A707A - Consent of Surety to Reduction in or Partial Release of Retainage*

*AIA A201 - General Conditions for the Construction Contract*

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01 3000 - Administrative Requirements

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01 3300 - Submittal Procedures

01 4000 - Quality Requirements

01 4300 - Exterior Mockups

01 4533 - Special Inspections and Testing Services

01 5000 - Temporary Facilities and Controls

01 6000 - Product Requirements

01 6201 - Pre-Bid Substitution Request

01 7000 - Execution Requirements

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- 02 4116 - Site Demolition
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    - 07 7210 - Roof Penetration Accessories
    - 07 8400 - Firestopping
    - 07 9000 - Joint Sealers Revised 7/31/18
    - 07 9513 - Expansion Joint Cover Assemblies
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  - 08 7100 - Finish Hardware
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- DIVISION 09 -- FINISHES

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09 0610 - Partition Schedule

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DIVISION 33 -- UTILITIES

33 4100 - Storm Drainage

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END OF SECTION

SECTION 01 2100 - ALLOWANCES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Cash allowances.

1.02 CASH ALLOWANCES

- A. Costs Included in Cash Allowances: Cost of product to Contractor or subcontractor, less applicable trade discounts.
- B. Costs Not Included in Cash Allowances: Product delivery to site and handling at the site, including unloading, uncrating, and storage; protection of products from elements and from damage; and labor for installation and finishing.
- C. Approved differences in costs will be adjusted by Change Order.

1.03 ALLOWANCES SCHEDULE

- A. Include the stipulated sum of \$ 8,000.00 for purchase, delivery and installation of plant material for exterior Rain Garden.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION





## SECTION 07 9000 - JOINT SEALERS

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Section Includes:
  - 1. Sealants and joint backing.
- B. Work of this section includes:
  - 1. Sealing of joints indicated in the schedule at the end of this section and in other locations required by the Contract Document.
  - 2. Seal joints in exterior envelope to prevent the entry or escape of water or air.
  - 3. Seal joints on the interior of the building to prevent the passage of water or air from space to space or between adjacent building materials and assemblies.
  - 4. Joints of a nature similar to that of joints indicated shall be sealed with same sealer, whether or not specifically indicated on the drawings and schedules to be sealed.

#### 1.02 REFERENCES

- A. AAMA 800 - Voluntary Specifications and Test Methods for Sealants; 2007.
- B. ASTM C 920 - Standard Specification for Elastomeric Joint Sealants; 2005.
- C. ASTM C 1193 - Standard Guide for Use of Joint Sealants; 2005a.

#### 1.03 DEFINITIONS

- A. M Type Substrates: Cast-in-place concrete, concrete masonry units, clay brick, masonry mortar, natural stone.
- B. G Type Substrates: Glass and transparent plastic glazing sheets.
- C. A Type Substrates: Metals, porcelain, glazed tile, and smooth plastics.
- D. O Type Substrates: Wood, unglazed tile; substrates not included under other categories.
- E. Use T: Surfaces bearing pedestrian or vehicular traffic.
- F. Use NT: Non-traffic-bearing surfaces.

#### 1.04 SUBMITTALS

- A. Product Data:
  - 1. Provide manufacturer's data on each joint sealer indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, color availability, and installation instructions.
  - 2. Provide manufacturer's technical guide containing recommendations for primers for each exterior sealant/substrate combination.
- B. Samples: Submit two cured samples for each product exposed to view, illustrating full range of sealant colors available for selection.
- C. Installer's Preconstruction Inspection Report: List all conditions detrimental to performance of joint sealer work.
- D. Warranty.

#### 1.05 MOCK-UP

- A. Before beginning installation, install sealers in joints in actual construction as directed by the Architect, to show color, materials, and installation.
- B. Locate where directed.
- C. Keep mock-ups intact as the standard for evaluating the completed joint sealer work.

D. Mock-up may remain as part of the Work.

#### 1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original containers or bundles with labels showing manufacturer, product name or designation, color, shelf life, and installation instructions.

#### 1.07 PROJECT SITE CONDITIONS

A. Environmental Limitations: Do not install sealers if any of the following conditions exist:

1. Air or substrate temperature exceeds the range recommended by sealer manufacturer or is below 40 degrees F (4.4 degrees C) or is above 100 degrees F (38 degrees C).
2. Substrate is wet, damp, or covered with snow, ice, or frost.
3. Substrate is dusty, oily, or otherwise contaminated.

B. Dimensional Limitations: Do not install sealers if joint dimensions are less than or greater than that recommended by sealer manufacturer; notify the Architect and get joint sealer manufacturer's recommendations for alternative procedures.

C. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

#### 1.08 WARRANTY

A. Submit a written warranty signed by the Contractor guaranteeing to correct failures in joint sealer work within a five year period after Date of Substantial Completion, without reducing or otherwise limiting any other rights to correction which the Owner may have under the contract documents. Failure is defined as failure to remain weathertight due to faulty materials or workmanship. Correction is limited to replacement of sealers.

### PART 2 PRODUCTS

#### 2.01 SUBSTITUTIONS

A. Refer to Section 01 6000 - Product Requirements.

#### 2.02 SEALANTS

A. High Movement Silicone Sealant: One- or two-part, non-acid-curing, ASTM C 920, Grade NS, Class 25, Use NT, plus movement capability of 50 percent in extension, 50 percent in compression.

1. Products:

- a. Dow Chemical Company; Dowsil 756SMS, 790, or 795: [www.dowcorning.com](http://www.dowcorning.com). (60 g/l), (26 g/l), (32 g/l)
- b. Momentive GE Silicones: SCS 2000 SilPruf Sealant or SCS2700 SilPruf LM Sealant; (20 g/l), (27 g/l); [www.siliconeforbuilding.com](http://www.siliconeforbuilding.com).
- c. Pecora Corporation; 890NST: [www.pecora.com](http://www.pecora.com). (98 g/l)
- d. Sika Corporation: Sikasil WS-290 or WS-295; (29 g/l), (37 g/l); [usa.sika.com](http://usa.sika.com).

B. Butyl Sealant:

1. ASTM C 920, Grade NS, Class 12-1/2, Uses NT; single component, solvent release, nonskinning, nonsag.

C. One-Part Nonsag Urethane Sealant: ASTM C 920, Type S, Grade NS, Class 25, Use NT.

1. Products:

- a. Master Builders / BASF ; MasterSeal NP 1: [www.master-builders-solutions.basf.com](http://www.master-builders-solutions.basf.com). (35 g/l)
- b. Pecora Corporation; Dynatrol I-XL: [www.pecora.com](http://www.pecora.com). (68 g/l)
- c. Sika Corporation; Sikaflex 1a: [www.sika.com](http://www.sika.com). (47.6 g/l)

D. Concealed Sealant in Contact with Weather-Resistant Membrane / Silicone for Low-Energy Substrates:

1. Products:

- a. Dow Chemical Company; Dowsil 758 Silicone Weather Barrier Sealant:  
[www.dowcorning.com](http://www.dowcorning.com) (61 g/l)

E. Non-Curing Sealers:

1. Butyl Polyisobutylene Tape Sealer: Solvent-free, 100 percent solids; complying with 804.3, as described in AAMA 800; nonstaining and nonmigrating; provide in rolls with release paper.

- a. Integral shimming spacer.

F. Precompressed foam sealers: Self-expanding foam impregnated with non-curing sealant resins.

1. Primary Seal:

- a. Size as required to provide watertight seal when installed.

b. Products:

1) Emseal; Colorseal: [www.emseal.com](http://www.emseal.com).

2) Polytite Manufacturing Corporation; PolytiteR: [www.polytite.com](http://www.polytite.com).

## 2.03 ACCESSORIES

- A. Primer for Silicone Sealants: Nonstaining type, as recommended by joint sealant manufacturer for specific substrates encountered on the project and as verified by testing.
- B. Joint Cleaner: Noncorrosive and nonstaining type, recommended by sealant manufacturer; not damaging to substrates, and compatible with joint forming materials.
- C. Backer Rods: Flexible, nonabsorbent, compressible polyethylene foam, either open cell or nongassing closed cell, unless otherwise restricted by sealant manufacturer; preformed to appropriate size and shape.
- D. Bond-Breaker Tape: Self-adhesive, polyethylene or other plastic tape, unless otherwise restricted by sealant manufacturer; suitable for preventing sealant adhesion.
- E. Masking Tape: Nonabsorbent, nonstaining.
- F. Tooling Agents: Approved by sealant manufacturer; nonstaining to sealant and substrate.

## 2.04 SEALANT COLORS

- A. The Architect will select sealant colors from manufacturer's full range of available colors for each respective sealant and adjacent substrate.
- B. Obtain approval of mock-up color before ordering job quantities of sealant.
- C. Required colors:
1. Brick to brick control joint.
  2. Brick to aluminum or steel framing.
  3. Fiber cement panel to fiber cement panel
  4. Fiber cement panel to aluminum framing

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Examine joints for characteristics that may affect sealer performance, including configuration and dimensions.
- B. Verify that joint backing and release tapes are compatible with sealant.

### 3.02 PREPARATION

- A. Cleaning: Just before starting sealer installation, clean out joints as follows:
  - 1. Remove loose materials and foreign matter which might impair adhesion of sealant including, but not limited to, dust, dirt, coatings, paint, oil, and grease.
  - 2. Dry out damp and wet substrates thoroughly.
  - 3. Clean A-type and G-type substrates by chemical or other methods that will not damage the substrate.
  - 4. Remove loose particles by brushing and by blowing with oil-free compressed air.
  - 5. Concrete: Remove laitance and form-release coatings.
  - 6. Use methods which will not leave residues that will impair adhesion.
- B. Prime joint substrates where required by this specification, manufacturer's recommendations, or adhesion tests.
- C. Masking Tape: Use masking tape to keep primers and sealers off of adjacent surfaces which would be damaged by contact or by cleanup. Remove tape at the end of each day.
- D. Protect elements surrounding the work of this section from damage or disfigurement.
- E. Install fillers where needed to provide proper joint depth or support for sealant backers.
- F. Do not begin joint sealer work until unsatisfactory conditions have been corrected.

### 3.03 INSTALLATION

- A. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- B. Comply with sealer manufacturer's installation instructions and recommendations, except where more restrictive requirements are specified.
- C. Gunnable and Pourable Sealants: Comply with recommendations of ASTM C 1193.
- D. Backers:
  - 1. Install backers at depth required to result in shape and depth of installed sealant which allows the most joint movement without failure.
    - a. Make backers continuous, without gaps, tears, or punctures.
    - b. Do not stretch or twist backers.
  - 2. Use bond-breaker tape wherever it is necessary to keep sealant from adhering to back or third side of joint.
  - 3. If backers become wet or damp before installation of sealant, dry out thoroughly before proceeding.
- E. Shape and Depth: Use methods recommended by manufacturer; completely fill the joint; make full contact with bond surfaces; tool nonsag sealants to smooth surface eliminating air pockets.
  - 1. Use concave joint shape shown in Figure 8 in ASTM C 1193, where not otherwise indicated.
  - 2. Depth of sealant at center of joint, unless otherwise required by the Contract Documents or recommended by manufacturer:
    - a. For joints up to 1/4 inch (6.4 mm) wide: Depth equal to width.
    - b. For joints 1/4 inch to 1/2 inch (13 mm) wide: Depth equal to 1/4 inch.
    - c. For joints over 1/2 inch (13 mm) wide: Depth equal to 1/2 the width but not deeper than 1/2 inch.
  - 3. Contact depth: Twice the depth of sealant at center of joint, unless otherwise required.

### 3.04 CLEANING

- A. Clean adjacent soiled surfaces adjacent to joints as work progresses and before sealants set using methods and materials approved by manufacturers of sealers and of surfaces to be cleaned.

### 3.05 PROTECTION OF FINISHED WORK

- A. Protect sealants from contamination and damage until cured.
- B. Remove and replace damaged sealers.

### 3.06 SCHEDULE

- A. General:
  - 1. Seal joints in exterior envelope to prevent the entry or escape of water or air.
  - 2. Seal joints on the interior of the building to prevent the passage of water or air from space to space or between adjacent building materials and assemblies.
  - 3. Joints of a nature similar to that of joints indicated shall be sealed with same sealer, whether specifically indicated on the drawings and schedules to be sealed or not.
- B. Typical Exterior Joints:
  - 1. Including, but not limited to:
    - a. Wall joints.
    - b. Joints around perimeter of frames.
    - c. Joints around pipes, ducts, and conduit penetrating exterior walls.
    - d. Joints between new and existing walls.
    - e. Exterior joints for which no other sealer is indicated.
  - 2. Use high movement silicone sealant unless otherwise indicated.
- C. Sealant in contact with Weather-Resistant Membrane, concealed from view and concealed from exposure to UV light:
  - 1. Silicone for low-energy substrates.
- D. Exterior Door Thresholds: Set thresholds in butyl sealant.
- E. Between Roof Curbs and Mechanical Units : Use butyl polyisobutylene tape sealer.
- F. Typical Interior Joints:
  - 1. Including, but not limited to:
    - a. Between walls or partitions and adjacent casework, fixed shelving, fixed equipment, lighting fixtures.
    - b. Between concrete or masonry or other material and the perimeters of frames of doors, windows, access panels, etc. (Note: Sealing of gypsum panel/metal stud construction is specified in Section 09 2116.)
    - c. Between hollow metal jambs and resilient flooring.
    - d. Between concrete or masonry walls or partitions and adjacent columns, pilasters, walls, partitions, floors, ceilings, or other construction.
    - e. Interior joints for which no other sealer is indicated.
  - 2. Use the following sealant:
    - a. One part, nonsag urethane sealant.

END OF SECTION



## SECTION 08 6223 - TUBULAR SKYLIGHTS

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Tubular skylights, consisting of skylight dome, reflective tube, and diffuser assembly.
- B. Accessories

#### 1.02 REFERENCE STANDARDS

- A. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/Specification for windows, doors, and skylights; 2011.
- B. ASTM E108 - Standard Test Methods for Fire Tests of Roof Coverings; 2011.
- C. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2004 (Reapproved 2012).
- D. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2009).
- E. UL 790 - Standard for Standard Test Methods for Fire Tests of Roof Coverings; Current Edition, Including All Revisions.

#### 1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings: Indicate configurations, dimensions, locations, fastening methods, and installation details.
- D. Grade Substantiation: Prior to submitting shop drawings or starting fabrication, submit one of the following showing compliance with specified grade:
  - 1. Evidence of AAMA Certification.
  - 2. Evidence of WDMA Certification.
  - 3. Evidence of CSA Certification.
  - 4. Test report(s) by independent testing agency itemizing compliance and acceptable to authorities having jurisdiction.

#### 1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with not less than ten years documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

#### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.



## 1.06 FIELD CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

## 1.07 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Skylights: Manufacturer's standard warranty for 10 years.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS

- A. Basis of Design: Solatube International Inc; SolaMaster Series, Model 750DS-C, Closed Ceiling, 21 inch (530mm) daylighting system.
- B. Other Acceptable Manufacturers:
  - 1. Sunoptics Prismatic Skylights, a Division of Acuity Brands: [www.sunoptics.com/#sle](http://www.sunoptics.com/#sle).
  - 2. Velux America, Inc: [www.veluxusa.com/#sle](http://www.veluxusa.com/#sle).
- C. Substitutions: See Section 01 6000 - Product Requirements.

### 2.02 TUBULAR DAYLIGHTING DEVICES

- A. Tubular Skylights: Transparent roof-mounted skylight dome and curb, reflective tube, and ceiling level diffuser assembly, transferring sunlight to interior spaces.
  - 1. Fabrication and assembly of components is by single manufacturer.
  - 2. Non-Metal Parts: Flammability less than the following.
    - a. Roof-Top Components: Class B when tested in accordance with ASTM E108 or UL 790.
- B. SolaMaster Series: Solatube 750 DS, 21 inch (530 mm) Daylighting System:
  - 1. Model:
    - a. Solatube Model 750 DS-C Closed Ceiling. AAMA Type TDDCC.
  - 2. Capture Zone:
    - a. Roof Dome Assembly: Transparent, UV and impact resistant dome with flashing base supporting dome and top of tube.
    - b. Outer Dome Glazing: Type DA, 0.125 inch (3.2 mm) minimum thickness injection molded acrylic classified as CC2 material; UV inhibiting (100 percent UV C, 100 percent UV B and 98.5 percent UV A), impact modified acrylic blend.
    - c. Inner Dome Glazing: Type DAI, 0.115 inch (3 mm) minimum thickness acrylic classified as CC2 material.
    - d. Tube Ring: 0.090 inch (2.3 mm) nominal thickness injection molded high impact PVC. Prevents thermal bridging between base flashing and tubing and channel condensed moisture. Attached to base of dome ring with butyl glazing rope 0.24 inch (6 mm) diameter; to minimize air infiltration.
    - e. Dome Seal: Adhesive backed weatherstrip, 0.63 inch (16 mm) tall by 0.28 inch (7 mm) wide.
  - 3. Flashings:
    - a. Roof Flashing Base:
      - 1) Base Style: Type FC, Curb cap, with inside dimensions of 27 inches by 27 inches (685 mm by 685 mm) to cover curb provided by others.
  - 4. Transfer Zone:
    - a. Extension Tubes: Aluminum sheet, thickness 0.018 inch (0.5 mm) conforming to ASTM B 209.

- 1) Reflective Tubes:
    - (a) Reflective extension tube, 24 inches in length.
  - 2) Tube Options
    - (a) Extension Tube Angle Adapter: Provide manufacturer's standard adapters for applications requiring:
    - (b) Type A1 one 0 to 90 degree extension tube angle adapter.
5. Delivery Zone:
- a. Diffuser Assemblies for Tubes Penetrating Ceilings: Solatube Model 750 DS-C. Ceiling mounted box transitioning from round tube to square ceiling assembly, supporting light transmitting surface at bottom termination of tube; 23.8 inches by 23.8 inches (605 mm by 605 mm) square frame to fit standard suspended ceiling grids or hard ceilings.
    - 1) Polymeric Transition Box: Type TP, round-to-square transition box made of opaque polymeric material, classified as CC2, Class C, 0.110 inch (2.8 mm) thick.
    - 2) Lens: Type L1, OptiView Fresnel lens design to maximize light output and diffusion with extruded aluminum frame and EPDM foam seal to minimize condensation and bug, dirt and air infiltration per ASTM E 283. Visible Light Transmission shall be greater than 90 percent at 0.022 inch (0.6 mm) thick. Classified as CC2.

## 2.03 PERFORMANCE REQUIREMENTS

- A. Grade: AAMA/WDMA/CSA 101/I.S.2/A440 requirements for specific tubular skylight:
  1. Product Type: Tubular Daylighting Device, Closed Ceiling (TDDCC).
- B. Design Pressure (DP): In accordance with applicable codes.

## 2.04 ACCESSORIES

- A. Fasteners: Same material as metals being fastened, non-magnetic steel, non-corrosive metal of type recommended by manufacturer, or injection molded nylon.
- B. Sealant: Elastomeric, silicone or polyurethane; compatible with materials being sealed.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.02 INSTALLATION

- A. Install in accordance with manufacturer's written instructions.
- B. Set roof assembly flashing in continuous bead of sealant.
- C. Seal joints exposed to weather in accordance with sealant manufacturer's written instructions.
- D. Conduct field test for water tightness; conduct water test in presence of Architect. Correct defective work and re-test until satisfactory.

### 3.03 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION



## SECTION 09 9600 - HIGH PERFORMANCE COATINGS

### PART 1 GENERAL

#### 1.01 SUMMARY

- A. Section Includes:
  - 1. Surface preparation.
  - 2. Application of primers, intermediate coats, and top coats for each coating system.
- B. Coating Systems Include:
  - 09 9600.LUMLow Gloss Urethane Metal Finish

#### 1.02 REFERENCES

- A. Steel Structures Painting Manual, Vol. 2; Systems and Specifications; Steel Structures Painting Council (SSPC); 2008 Edition.

#### 1.03 SUBMITTALS

- A. Product Data: Manufacturer's technical data sheets for each coating.
  - 1. Material analysis including vehicle type and percentage by weight and by volume of vehicle, resin, and pigment.
  - 2. Application instructions including mixing, surface preparation, compatible primers and topcoats, recommended wet and dry film thickness, recommended application methods.
- B. Color and Texture Samples:
  - 1. Provide for each coating system, color, and texture and applied to representative substrate samples.
  - 2. Label each sample with coating name and color.
  - 3. Prepare samples to show bare, prepared surface and each successive coat.

#### 1.04 QUALITY ASSURANCE

- A. Installer: A company skilled in the application of special coatings whose installations have performed in a satisfactory manner under comparable conditions.
- B. Coordination with Work Specified in Other Sections: Where primers will be applied in the shop, apply the primers listed in the schedule at the end of this section.
  - 1. Exception: Shop primed steel doors and frames shall receive fabricator's standard shop primer, followed by one full field coat of the primer specified in the schedule at the end of this section.
- C. Mock-up:
  - 1. Apply coatings to mock-ups in the presence of the coating manufacturer's technical representative.
  - 2. Metals: Mock up one element of each coating system and color. Apply to mock up specified in the respective fabrication section, or if no mock up is specified therein, apply to an on-site mock-up as directed by the Architect.
  - 3. Apply full coating systems, including required textures and colors, to mock-up. In interior spaces, provide completed lighting, or similar, for viewing of mock-up.
  - 4. Remove and reapply coatings until texture, color, and gloss are approved by the Architect.
  - 5. Final approval of colors will be based on mock-up; obtain full job quantities of tinted materials only after obtaining final approval.
  - 6. Apply coatings to mock-ups in locations as directed by the Architect.

### 1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in manufacturer's original containers bearing coating name and color, material composition data, date of manufacture, legal notices if applicable, and mixing, thinning, and application instructions.
- B. Storage:
  - 1. Store materials in an orderly fashion and in clean, well-closed containers with labels intact.
  - 2. Maintain above 40 degrees F. Do not allow materials to freeze.

### 1.06 PROJECT CONDITIONS

- A. Apply coatings only under the following environmental conditions:
  - 1. Air and surface temperatures are between 50 and 120 degrees F, or more restrictive when recommended by coatings manufacturer.
  - 2. Surface temperature is at least 5 degrees F above dew point, or more restrictive when recommended by coatings manufacturer.
  - 3. Relative humidity is less than 85 percent, or more restrictive when recommended by coatings manufacturer.
- B. Do not apply coatings during inclement weather except within enclosed, conditioned spaces.
- C. Provide temporary lighting to achieve a well-lit surface with a level of not less than 80 footcandles measured mid-height.
- D. Provide continuous ventilation and heating to prevent accumulation of hazardous fumes, and maintain surface and ambient temperatures as specified above for 24 hours before, during, and for 48 hours after application of finishes (or longer if required to obtain full cure as indicated by manufacturer's instructions).

### 1.07 MAINTENANCE STOCK

- A. At time of completing application, deliver stock of maintenance material to the Owner.
- B. Furnish not less than one properly labeled and sealed gallon can of each type of finish coat of each color, taken from batch mix furnished for the work.

## PART 2 PRODUCTS

### 2.01 SUBSTITUTIONS

- A. Refer to Section 01 6000 - Product Requirements.

### 2.02 MANUFACTURERS

- A. Provide all products of this section from a single manufacturer.
- B. The brand-name products listed in the schedule at the end of this section and made by the following are the basis of the contract documents.
  - 1. Tnemec Company, Inc.
  - 2. Carboline.
  - 3. PPG Architectural Finishes.
- C. Provide the products listed.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify that surfaces and conditions are ready for work in accordance with the contract documents and coating manufacturer's recommendations.
- B. Prior to commencement of work, examine surfaces scheduled to be finished.
  - 1. Report any unsatisfactory conditions in writing.

2. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to the applicator.
3. Beginning work on an area will be deemed acceptance of surfaces in that area.

### 3.02 PREPARATION

- A. Do not apply coatings to labels that identify equipment, fire-resistance ratings, etc.
- B. Remove hardware, switch and outlet plates, lighting fixtures, etc., before applying coatings. After application of coatings, reinstall removed items. Employ only skilled workmen for removal and replacement of such items.
- C. Provide protection for non-removable items not scheduled for coating.
- D. Protect surfaces not scheduled for coating. Clean, repair, or replace to the satisfaction of the Architect any surfaces inadvertently spattered or coated.

### 3.03 SURFACE PREPARATION

- A. General: Clean and prepare surfaces as specified. Achieve the surface profile recommended by the coating manufacturer for optimum adhesion and proper appearance.
- B. All Surfaces: Ensure surfaces are clean, dry and free of oil, grease and other contaminants.
- C. Ferrous Metal:
  1. Clean and prepare surface profile in accordance with applicable SSPC specifications:
    - a. Interior metal: SSPC-SP 2 Hand Tool Cleaning, SSPC-SP 3 Power Tool Cleaning.
    - b. Exterior metal: SSPC-SP 6 Commercial Blast Cleaning,
    - c. Exterior metal (field touch-up): SSPC-SP 11 Power Tool Cleaning to Bare Metal.
    - d. Intricate fabricated shapes may be pickled (SSPC-SP 8) in lieu of blast cleaning when approved by the Architect.
  2. Before hand or power tool cleaning, remove visible oil, grease, soluble welding residue, and salts by SSPC-SP 1 Solvent Cleaning. After hand or power tool cleaning, reclean surfaces if necessary.
  3. Where commercial, near-white, or white metal abrasive blast cleaning is employed, apply first coat before rust-back occurs. Do not allow prepared surfaces to sit overnight without coating.
  4. Before touching up coatings damaged by handling or welding, re-prepare damaged surfaces to original specification.
    - a. Where abrasive blast cleaning or pickling was used for original preparation, either blast clean to original specification or prepare surface to SSPC-SP 11 Power Tool Cleaning to Bare Metal.
- D. Nonferrous Metal: Solvent clean new surfaces in accordance with SSPC-SP 1 Solvent Cleaning specifications. If recommended by coating manufacturer to ensure adhesion, brush off blast clean in accordance with SSPC-SP 7. Prepare and prime any rusted existing surfaces in accordance with coating manufacturer's instructions.

### 3.04 MIXING AND THINNING

- A. Remove and discard any skin formed on surface of coatings in containers. Discard any containers where skin comprises 2 percent or more of the remaining material.
- B. Combine multi-component paints in quantities needed for use within the manufacturer's recommended pot life at the anticipated application temperatures. Discard remaining mixed material after pot life has expired.
- C. Do not add thinner except as specifically recommended (not merely permitted) by the coating manufacturer for proper coating application under the circumstances prevailing at the project

site when application equipment recommended by the coating manufacturer is employed. Use only the quantities and the types of thinner recommended.

- D. Mix materials using mechanical mixers in accordance with coating manufacturer's instructions. Agitate mixed materials during application if recommended by manufacturer.
- E. Strain pigmented coatings after mixing except where mechanical application equipment is provided with effective strainers.

### 3.05 APPLICATION

#### A. General:

- 1. Metal Surfaces Exposed to View: Apply coatings using brush or spray, only. Roller application not permitted.
- 2. Full, uniform coverage is required.
- 3. Employ only application equipment that is clean, properly adjusted, in good working order, and of the type recommended by the coating manufacturer.
- 4. Apply successive coats after adequate cure of the preceding coat and within the recommended recoating time.

#### B. Film Thickness: Apply each coat to achieve the dry film mil (DFM) thickness per coat indicated in the schedule at the end of this section. Application rates of excess thickness and fewer numbers of coats than specified will not be accepted.

- 1. The dry film mil thicknesses shown in the schedule are per each coat.
- 2. Where a thickness range is specified, the dry film thickness actually applied shall fall within the specified range when measured at any point, and the average dry film thickness actually applied to the entire surface shall be equal to the midpoint of the range specified plus or minus 10 percent.
- 3. Where a single thickness value is specified, the dry film thickness actually applied, when measured at any point, shall be equal to the specified value plus or minus 10 percent.

#### C. Prime, First, or Bottom Coats:

- 1. Ferrous and Nonferrous Surfaces:
  - a. Unless specifically indicated otherwise (in this section or in the respective metal section of the Specification), the first coat of material may be either shop or field applied.
  - b. Shop or field applied coatings, including primers, intermediate coats, and finish coats, shall be as specified in this section. Unless specifically indicated otherwise, fabricator's standard shop coats will not be accepted, and if applied, shall be removed, the surface prepared anew, and the coatings specified herein applied.
  - c. Where fabricator's standard shop primer is permitted to remain (e.g. steel doors and frames), apply one full field coat of the primer specified in this section.
  - d. Ferrous metals that have not been shop primed shall be field primed promptly after arrival at the site or shall be stored away from the effects of weather.
- 2. Either before or after applying prime coat but before applying successive coats, stripe paint edges, corners, mechanical fasteners, and welds using specified primer.
- 3. Before applying successive coats, touch-up connections, fasteners, and damaged areas using specified primer.
- 4. Where first coat shows signs of suction spots or poorly sealed areas, reapply first coat material to adequately seal surface before proceeding with intermediate and top coats.

#### D. Miscellaneous:

- 1. Completed coatings shall be free of defects such as runs, sags, lap or brush marks, holidays, and skips.

2. Apply coatings according to the schedule at the end of this section and as otherwise indicated. Coat all similar surfaces not specifically mentioned unless specifically exempted.
- E. Apply coatings to match approved mock-ups.
- F. Remove coatings not in compliance with this specification, reclean and re-prepare surfaces as specified, and apply coatings to comply with the contract documents.

### 3.06 JOINTS

- A. Control and Expansion Joints in Floors, Walls, and Ceilings: Before installing backer rod and joint sealant specified in Division 7, apply coating to the joint face, approximately 1/2 inch deep, and allow to cure.
- B. Fillet Joints between Hollow Metal Door Frames and Adjacent Walls (and similar locations): Apply coatings and allow to cure before installing joint sealant (and backers) specified in Division 7.

### 3.07 CLEANING

- A. Clean work area on a daily basis; dispose of spent materials and empty containers. If requested, turn over to the Architect all empty coatings containers used during the course of each day.
- B. Remove all trace of coatings inadvertently applied to adjacent surfaces not scheduled to be coated. Remove by appropriate methods that do not damage surfaces.

### 3.08 DEMONSTRATION AND INSTRUCTION

- A. Instruct Owner's personnel in methods of touch up painting of interior epoxy coatings.

### 3.09 PROTECTION

- A. Protect work against damage until fully cured. Provide signs identifying wet surfaces until surfaces are adequately cured.
- B. Shortly before final completion of the project, examine surfaces for damage to coatings and restore coatings to new, undamaged condition.
  1. Touch-up of minor damage will be acceptable where, in the opinion of the Architect, the result is not visibly different from surrounding surfaces. Recoat entire surface where result is different either in color, sheen, or texture.

### 3.10 SCHEDULE

- A. PRIMER, INTERMEDIATE, AND TOP COAT COLORS
  1. Except where coating materials cannot be tinted, tint each successive (primer, intermediate, top) coat of paint a sufficiently contrasting color to facilitate identification of complete coating coverage. The preceding coat may be in the same color family, but shall be noticeably different. Provide additional top coats without change in Contract Price if necessary to achieve complete hiding and uniform sheen.
  2. Top coat colors are indicated on the drawings and schedules. For approval of actual colors, see sample and mock-up requirements specified above.
  3. Top coat colors of manufacturers listed on the Finish Schedule (or elsewhere) indicate the required color, only, and do not indicate the required brand name product, which shall be as specified below.
- B. URETHANE COATINGS ON METALS
  1. System Description:
    - a. Epoxy primer.
    - b. Epoxy intermediate.
    - c. Urethane top coat.



2. Tnemec:
  - a. Wash Primer for Non Ferrous Metals: Oakite 747.
  - b. Primer: Series N69 Hi-Build Epoxoline II, DFT 2.0 to 3.0 mils. (285 g/l)
  - c. Intermediate Coat: Series N69 Hi-Build Epoxoline II, DFT 2.0 to 3.0 mils. (285 g/l)
  - d. Low Gloss (semi-gloss) Finish Coat: LUM material designation on Finish Schedule.
    - 1) Series 1075 Endura-Shield II; DFT 2.0 to 3.0 mils. (220 g/l)
  - e. Low Gloss (semi-gloss) Metallic Finish Coat: LUM material designation on Finish Schedule (metallic color as scheduled).
    - 1) Series 1077 Enduralume; DFT 2.0 - 3.0 mils. (400 g/l)
3. Carboline:
  - a. Wash Primer for Non-Ferrous Metals: Galoseal WB Wash Primer, DFT 0.5 to 1.0 mils. (98 g/l)
  - b. Primer: Carboguard 893SG; DFT 3.0 to 5.0 mils. (336 g/l)
  - c. Intermediate: Carboguard 893SG; DFT 3.0 to 5.0 mils. (336 g/l)
  - d. Low Gloss (satin) Finish Coat: LUM material designation on Finish Schedule.
    - 1) Carbothane 133 LH; DFT 3.0 - 5.0 mils. (324 g/l)
4. PPG:
  - a. Wash Primer for Non Ferrous Metals: Poly Clutch Wash Primer 97-687, DFT {\_\_\_\_} mils. (728 g/l)
  - b. Primer: Pitt-Guard Rapid Coat Epoxy coating 95-245, DFT 2.0 3.0 mils. (263 g/l)
  - c. Intermediate Coat: Pitt-Guard Rapid Coat Epoxy coating 95-245, DFT 2.0 3.0 mils. (263 g/l)
  - d. Low Gloss (semi-gloss) Finish Coat: LUM material designation on finish schedule.
    - 1) Pitthane HB Semi-Gloss Urethane 95-8800, DFT 2.0 to 5.0 mils. (291.6 g/l)

END OF SECTION

## SECTION 09 9727 - DRY ERASE COATING OVER MAGNETIC BASE

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES:

- A. This Section specifies field-applied dry erase coatings over magnetic wall covering.

#### 1.02 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- B. Maintenance Instructions: Provide precautions against cleaning materials and methods that may be detrimental to finish and performance.
- C. Samples: Submit verification sample of specified color on manufacturer's standard sample card.

#### 1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 3 years manufacturing dry erase coatings.
- B. Mock-ups: Prepare mock-ups for Architect's review and to establish requirements for substrate finish and final coating application, texture and color.
  - 1. Install dry erase coatings mock-up in area designated by Architect.
  - 2. Correct areas, modify method of application/installation, or adjust finish texture as directed by Architect to comply with specified requirements.
  - 3. Maintain mock-ups accessible to serve as a standard of quality for this Section.
  - 4. Accepted mock-ups may remain in place.
- C. Sustainable Design:
  - 1. Indoor Air Quality: UL GREENGUARD Gold Certified product.

#### 1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in original factory wrappings and containers, clearly labeled with manufacturer, product name, and fire hazard classification.
- B. Store materials in original undamaged packages and containers inside a well ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity. Store at temperatures above 40 degrees F. Do not allow product to freeze.

#### 1.05 PROJECT CONDITIONS

- A. Maintain ambient temperature not less than 50 deg F minimum and 85 deg F maximum 72 hours prior to beginning of installation.
  - 1. Do not install dry erase coatings unless substrate temperature is above 60 degrees F.
  - 2. Do not install dry erase coatings until the space is enclosed and weatherproof.
  - 3. Do not install dry erase coatings until temperature is stabilized and permanent lighting is in place.

#### 1.06 WARRANTY

- A. Warranty: Manufacturer's 10 year limited material warranty.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURER

- A. Manufacturer: IdeaPaint, 40 Broad Street, 1st Floor, Boston, MA 02109, telephone 617-714-1050, fax 617-714-1080, website [www.ideapaint.com](http://www.ideapaint.com).

## 2.02 PRODUCTS

- A. Dry Erase Coating: CREATE by IdeaPaint, providing a surface suitable for use of dry erase markers.
  - 1. Color: Manufacturer's standard color as follows:
    - a. Color: Clear
  - 2. Fire Rating (ASTM E84): Class A, flame spread index 5, smoke developed index 30.
  - 3. VOC (EPA Method 24): 21 g/L Part A and B mixed, 25 g/L Part A only, 0 g/L Part B only
  - 4. Solids (ASTM D2369): 96 percent Part A, 10 percent Part B.
  - 5. Density (ASTM D1475): 8.82 lbs/gal mixed, 9.39 lbs/gal Part A, 7.88 lbs/gal Part B.
  - 6. Sag Resistance (ASTM D4400 Method 6.5.6): 2mils.
  - 7. Flow and Leveling (ASTM D2801): 2.
  - 8. Crack Resistance (ASTM D522): 1/8 inch.
  - 9. Finish/Gloss (ASTM D523) on Leneta Card – White Background:
    - a. 20 degrees: 81.
    - b. 60 degrees: 91.
    - c. 85 degrees: 95.
  - 10. Scrub Resistance (ASTM D2486): Greater than 10,000 scrub cycles
  - 11. Stain Removal/Washability (ASTM D3450): 92%
  - 12. Flashpoint (ASTM D92 Open Cup): Greater than or equal to 200 degrees F as mixed, or each part separately.
  - 13. QUV (following 500 hours of exposure, samples prepared on Kilz primed drywall)  
Control panel: L = 14.14, a = 12.84, b = -42.24. Test panel: L = 16.71, a = 11.32, b = -40.41: Delta E = 2.77.
  - 14. Chemistry Type: A non isocyanate based coating.
- B. IdeaPaint PULL Magnetic Wall Covering.
- C. Adhesive: type recommended by Magnetic Wall Covering Manufacturer.
- D. Latex Paint: Use high quality non-flat latex topcoat if a new color surface is preferred prior to applying IdeaPaint CREATE CLEAR.
- E. Roller Covers: Provided by manufacturer. No substitutions.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. A. Examine areas and conditions in which dry erase coatings will be installed.
  - 1. Complete finishing operations, including painting and magnetic wall covering before beginning installation of dry erase coatings.
  - 2. Wall surfaces to receive dry erase coatings shall be dry and free from dirt, grease, loose paint, and scale.
  - 3. Do not proceed with installations until unsatisfactory conditions have been corrected.

### 3.02 SURFACE PREPARATION

- A. Remove hardware, accessories, plates and similar items to allow dry erase coatings to be installed.
- B. Inspect to make certain surface is acceptable and then wipe all dust. Paint product is a high gloss coating; imperfections and visible seams will telegraph.
- C. Apply adhesive and HiTech Magnetic glass fleece in accordance with Instructions
- D. Paint (if applicable): If changing surface color, apply preferred high quality Architectural latex base coat to a dry, clean primed surface. Visit <http://learn.ideapaint.com/preferred-products> for

a complete list of preferred base coats and primers. Allow latex top coat to dry for at least 24 hours prior to applying IdeaPaint CREATE Clear.

- E. Clean: Wipe surface with a clean, damp cloth to remove dust and environmental debris. Allow surface to completely dry.
- F. Ventilate area thoroughly to aid in curing process and to dissipate mild odor. Allow a high percentage of outside air into current ventilation.

### 3.03 APPLICATION

- A. Comply with manufacturers printed installation instructions. Mix components in strict accordance with manufacturer's instructions. Pot life is 1 hour maximum.
- B. Apply dry erase coating with specified roller only. Comply with the following:
  - 1. Apply heavy single coat only, using method as described. Do not recoat or touch up applied coating once 15-minute return time has passed.
  - 2. Divide your entire planned surface into areas up to 50 SQFT.
  - 3. Use a 4-inch foam roller to cut in all edges and light switches within the current area.
  - 4. Visually divide your 50 SQFT section in half, so that you are working in two 25 SQFT sections.
  - 5. Using the included 9 inch roller, apply to the top half of your first 25 SQFT section using up and down strokes until the section is coated.
  - 6. Once this section is complete, roll the full length of the wall to cover the entire 25 SQFT section.
  - 7. Reloading the roller, repeat this process for the next 25 SQFT section.
  - 8. Wet your roller from the paint tray and roll through the entire 50 SQFT area to ensure that the two 25 SQFT sections are blended. Only roll up and down full lengths of the wall.
  - 9. Watch for roller marks, drip marks, debris and missed spots. In order to eliminate these, re-roll these areas as they occur using light pressure.
  - 10. Do not wait more than 15 minutes to perform "touch-ups" or re-roll an area.
  - 11. Repeat this entire process in 50 SQFT sections until your wall is painted. Replace the roller cover after every 200 SQFT of product applied.
  - 12. Remove masking tape within 1 hour of painting.
- C. Dry erase coating may be applied directly onto clean, dry, smooth surfaces which are:
  - 1. A finished drywall surface
  - 2. A high quality non-flat latex paint topcoat
  - 3. Contact IdeaPaint for information on application onto alternative substrates
- D. Coating shall cure for a minimum of 7 days after application before use.
- E. Application Rate: 4 mils wet film thickness as measured with a wet film gauge; maximum 50 square feet per quart or 200 square feet per gallon.

### 3.04 CLEANING AND MAINTENANCE

- A. Regular erasing and cleaning should be done with a standard dry erase eraser or a dry microfiber towel. For more thorough cleaning, a damp microfiber towel may be used or IdeaPaint Cleaner. If damaged, the original surface shall be deglossed by sanding surface and priming before recoating.

### 3.05 PROTECTION

- A. Protect installed product and finished surfaces from damage during construction.

END OF SECTION



The Museum School | Phase 6

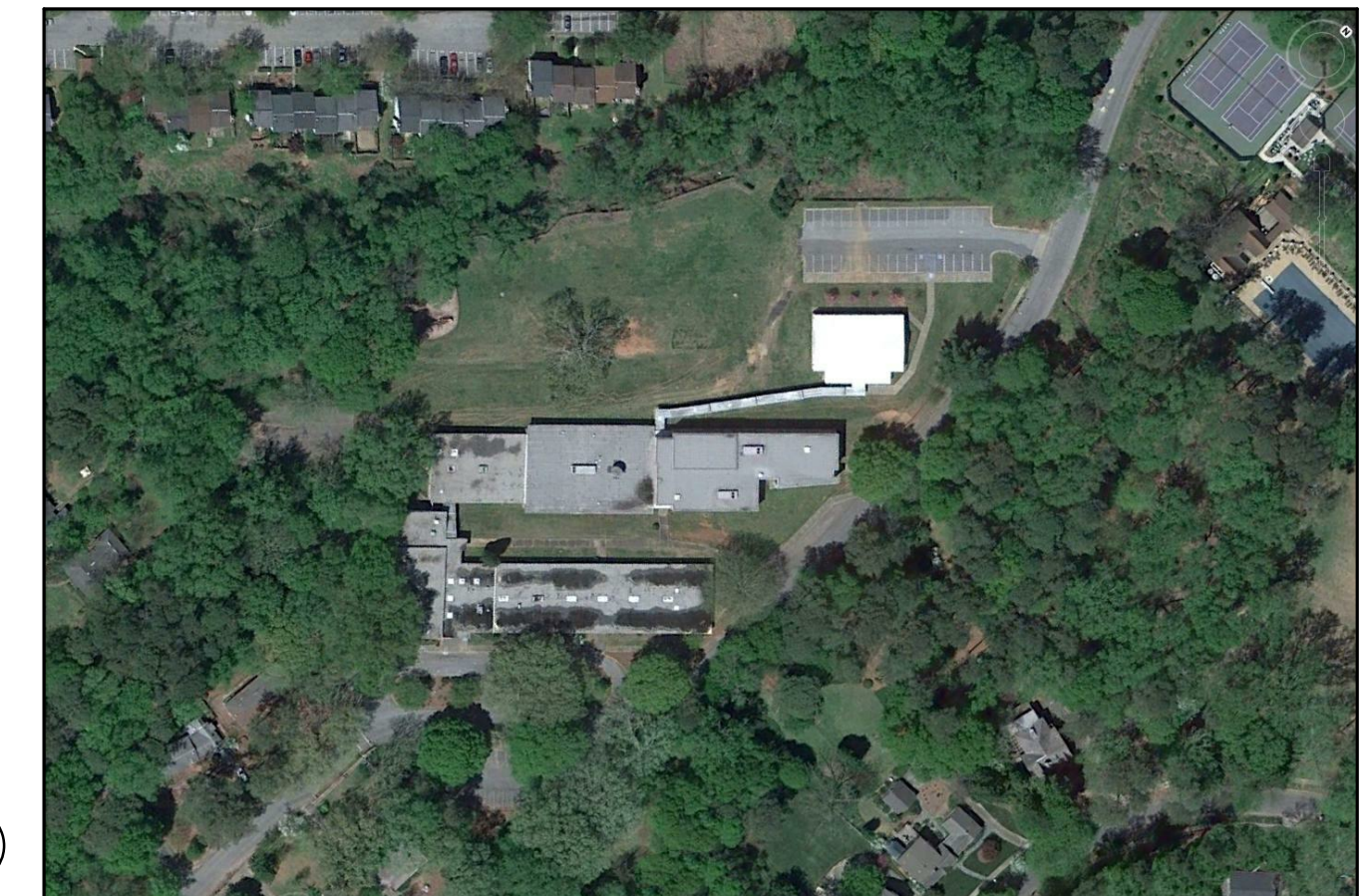
# The Museum School of Avondale Estates, Facility Code: 0411 A Dekalb Co. School System Charter Construction Documents

04/30/2018

LAS Project No. 10130-02

INSTRUCTIONAL DATA	
FTE - 564	
INSTRUCTIONAL UNITS -26	

TOTAL SQUARE FOOTAGE (PH 6)	
TOTAL RENOVATION:	2,056
TOTAL NEW:	4,363
TOTAL PROJECT:	6,419



AERIAL

# LORD AECK SARGENT

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REVISION:	
1	Add #02 07/31/2018

Lord, Aeck & Sargent, Inc.  
Architect

1175 Peachtree Street NE  
100 Colony Square  
Suite 2400  
Atlanta, GA 30361  
(404) 253-1400  
(404) 253-1401 - Fax

Eberly & Associates, Inc.  
Civil

1852 Century Place  
Suite 202  
Atlanta, GA 30345  
(770)452-7849  
(770)452-0086 - Fax

Uzun & Case, LLC  
Structural

1230 Peachtree Street, NE  
Suite 2500  
Atlanta, GA 30309  
(678)553-5200

Covalent Consulting, LLC  
Mechanical, Electrical & Plumbing

1708 Peachtree Street  
Suite 210  
Atlanta, GA 30309  
(404)355-9334

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- S111 SLAB ON GRADE AND FOUNDATION PLAN - MEDIA CENTER
- S112 ROOF FRAMING PLAN - MEDIA CENTER
- S201 TYPICAL DETAILS
- S202 TYPICAL DETAILS
- S203 TYPICAL DETAILS
- S204 TYPICAL ROOF FRAMING DETAILS
- S301 FOUNDATION SECTIONS AND DETAILS
- S310 BRACED FRAME DETAILS AND ELEVATIONS
- S321 FRAMING SECTIONS AND DETAILS - PHASE 6

#### MECHANICAL/ ELECTRICAL/ PLUMBING

- M001 MECHANICAL LEGEND, NOTES, AND DETAILS
- M002 MECHANICAL LEGEND, NOTES, AND SCHEDULES
- M101 MECHANICAL - CONTROLS
- M102 MECHANICAL - CONTROLS
- E001 ELECTRICAL LEGEND, NOTES, AND SCHEDULES
- E002 ELECTRICAL DETAILS AND SCHEDULES
- E111 ELECTRICAL FLOOR PLANS - POWER
- E121 ELECTRICAL FLOOR PLANS - LIGHTING
- P001 PLUMBING LEGEND, DETAIL, AND PLAN

### PROJECT DESCRIPTION FOR PHASE 6:

This project is for the Sixth Phase of the adaptive reuse of the existing Forrest Hills Elementary School building (closed in 2009), for the new location of The Museum School - a Charter elementary school operating within the DeKalb County School System.

Phase 6 of the work includes two main components that are identified as following:

- o A new, approximately 4,300sf addition, Media Center. Included within the Media Center are several small rooms for group study and project work.
- o The existing Media Center in Building 3 will be vacated and renovated to provide two classrooms and a smaller faculty space.
- o Some site work is needed to incorporate a new Fire Truck access lane, site drainage and minor sidewalk work with ADA accessible curb cuts/ramps.
- o The existing transformer and dumpsters will be relocated and new pads provided.
- o A new exterior Courtyard between the Media Center addition and the existing Cafeterium to include: Gabion site walls and seat walls, rainwater garden, several exterior gathering spaces (incorporating: Unit Pavers, Synthetic Playground and Natural Surfacing materials).
- o A new concrete slab at the Main Building entrance with additional connecting walks and ramps

SHEET TITLE  
COVER SHEET

SCALE (N/A)

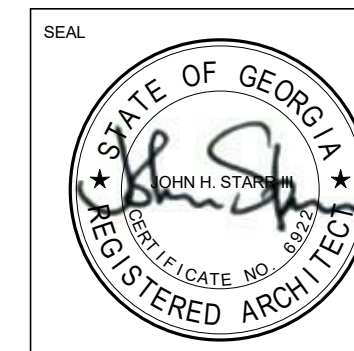
JOB NAME  
The Museum School | Phase 6  
The Museum School of Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter  
LOCATION  
923 FORREST BLVD  
DECATUR, GA 30030

ISSUE DATE  
04/30/2018

JOB NO.  
10130-02

DWG. NO.

# G001



# FOR CONSTRUCTION

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REVISION:  
 7/31/18 ADD #02



RE: 770.452.7649 FAX: 770.452.0088  
 1852 CENTURY PLACE, SUITE 202  
 ATLANTA, GEORGIA 30345  
 WWW.EBERLY.NET

- LAND PLANNING
- CIVIL ENGINEERING
- LANDSCAPE ARCHITECTURE

EAI JOB# 15-101

AP# 20607

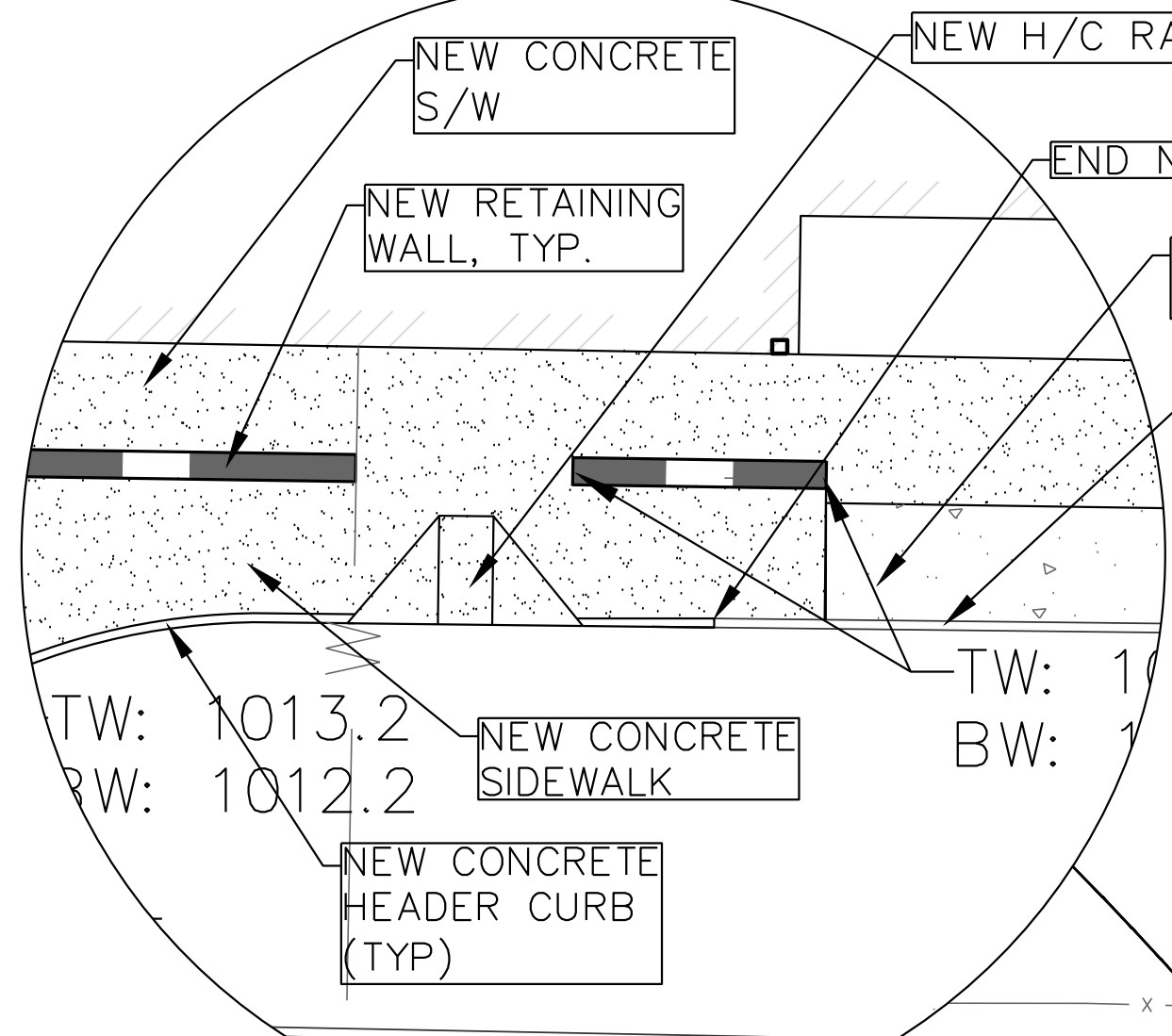
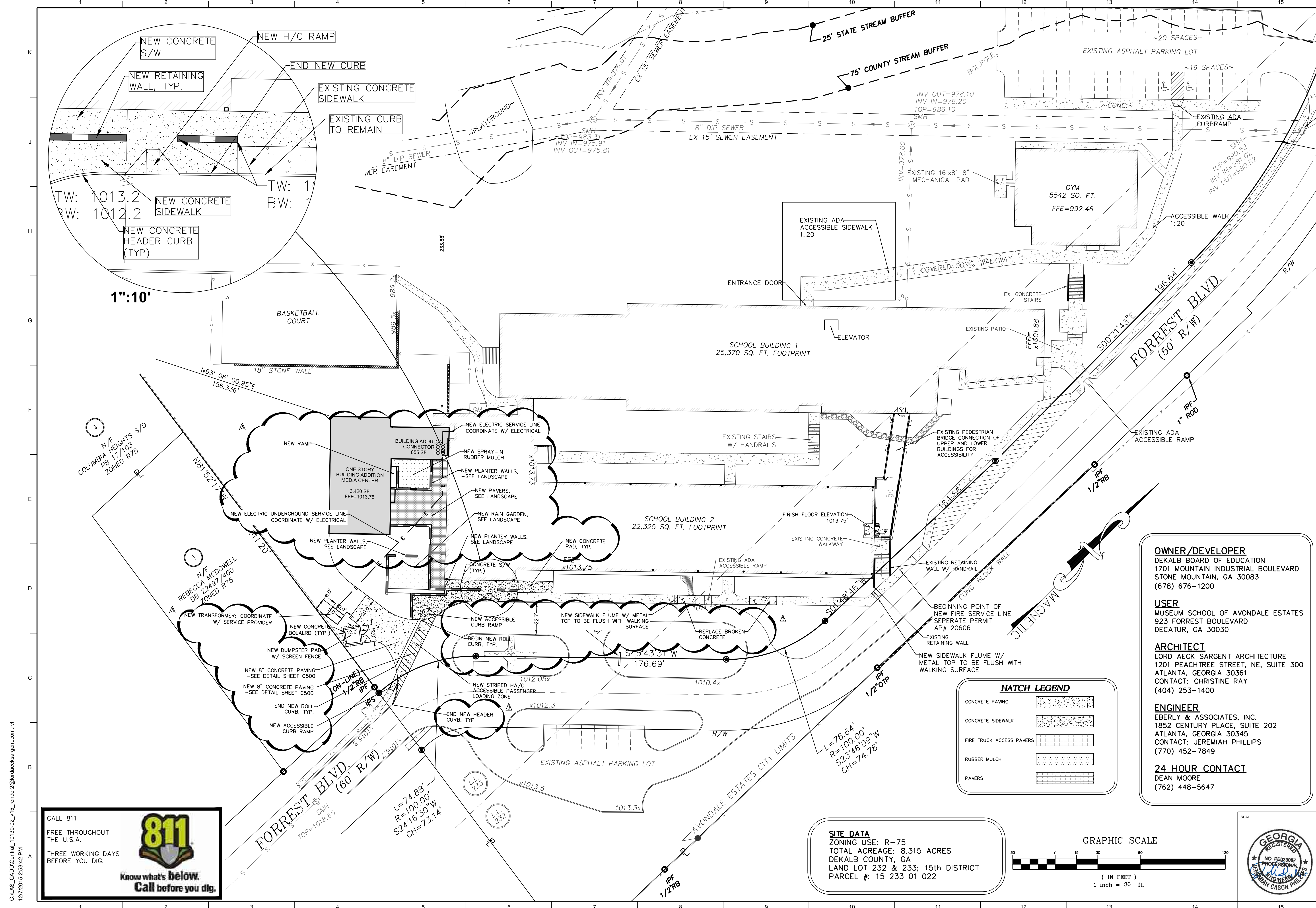
SHEET TITLE  
**LAYOUT & STAKING PLAN  
 PHASE 6**

PROJECT NAME  
 The Museum School of Avondale Estates,  
 Facility Code: 0411 A DeKalb Co. School  
 System Charter

ISSUE DATE  
 02/26/2016

JOB NO.  
 10130-02

EWG. NO.  
 C300



**OWNER/DEVELOPER**  
 DEKALB BOARD OF EDUCATION  
 1701 MOUNTAIN INDUSTRIAL BOULEVARD  
 STONE MOUNTAIN, GA 30083  
 (678) 676-1200

**USER**  
 MUSEUM SCHOOL OF AVONDALE ESTATES  
 923 FORREST BOULEVARD  
 DECATUR, GA 30030

**ARCHITECT**  
 LORD AECK SARGENT ARCHITECTURE  
 1201 PEACHTREE STREET, NE, SUITE 300  
 ATLANTA, GEORGIA 30361  
 CONTACT: CHRISTINE RAY  
 (404) 253-1400

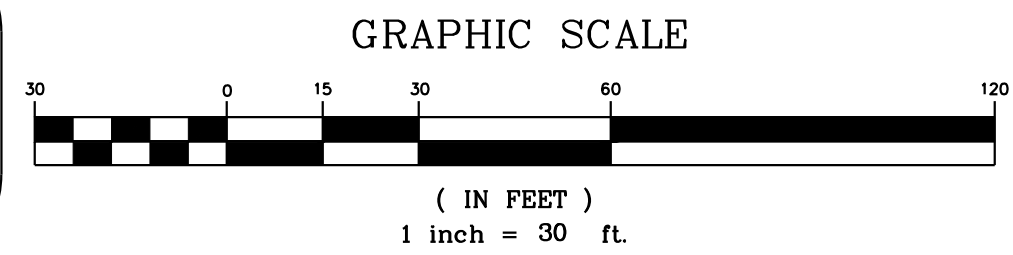
**ENGINEER**  
 EBERLY & ASSOCIATES, INC.  
 1852 CENTURY PLACE, SUITE 202  
 ATLANTA, GEORGIA 30345  
 CONTACT: JEREMIAH PHILLIPS  
 (770) 452-7849

**24 HOUR CONTACT**  
 DEAN MOORE  
 (762) 448-5647

**HATCH LEGEND**

CONCRETE PAVING	
CONCRETE SIDEWALK	
FIRE TRUCK ACCESS PAVERS	
RUBBER MULCH	
PAVERS	

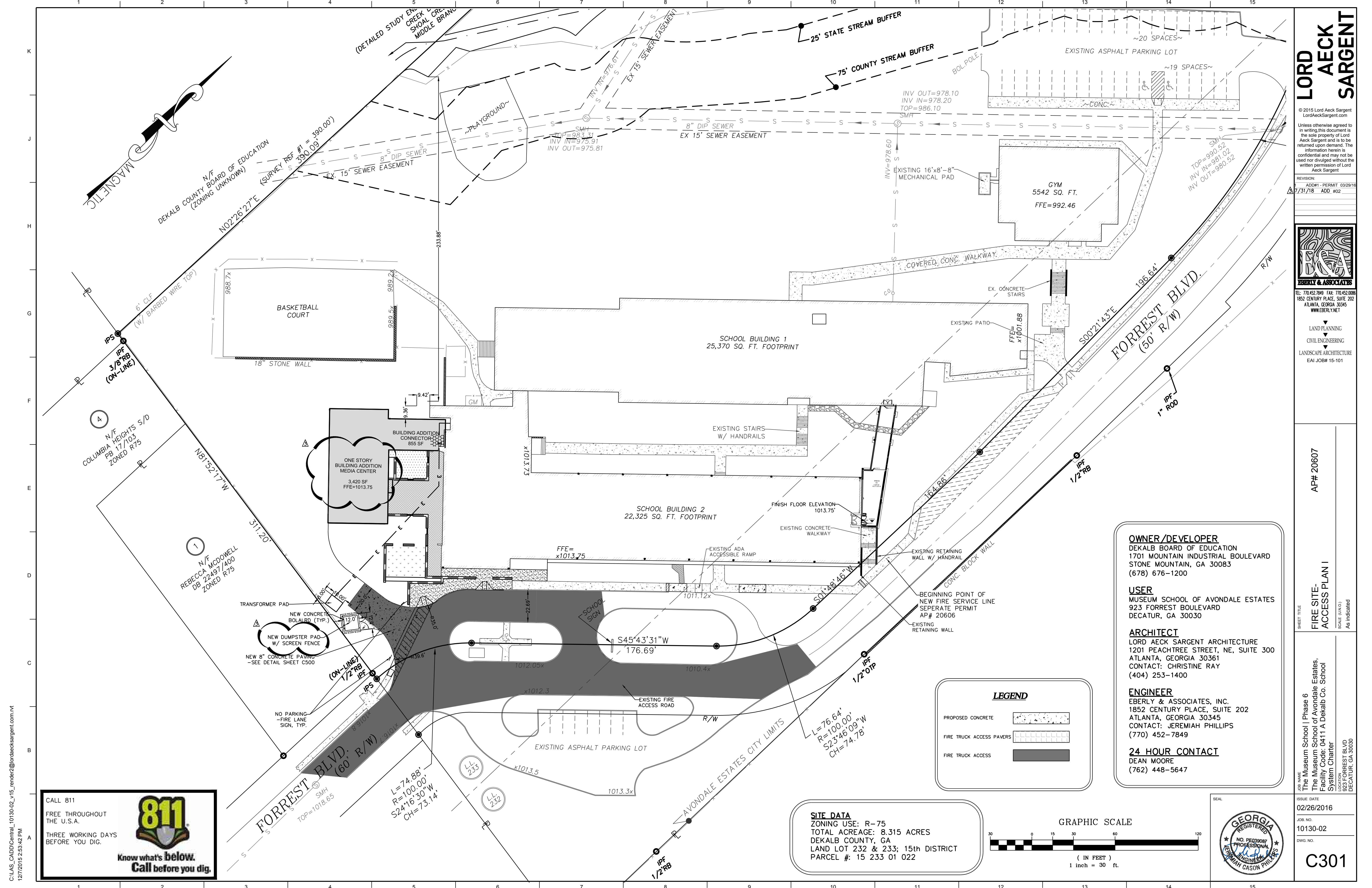
**SITE DATA**  
 ZONING USE: R-75  
 TOTAL ACREAGE: 8.315 ACRES  
 DEKALB COUNTY, GA  
 LAND LOT 232 & 233; 15th DISTRICT  
 PARCEL #: 15 233 01 022



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 7/31/18 ADD #02



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- CIVIL ENGINEERING
- LANDSCAPE ARCHITECTURE
- EAI JOB# 15-101

AP# 20607

SHEET TITLE  
**FIRE SITE ACCESS PLAN I**  
 SCALE (AS SHOWN)  
 As indicated

OWNER NAME  
 The Museum School of Avondale Estates,  
 Facility Code: 0411 A Dekalb Co. School System Charter  
 LOCATION  
 923 FORREST BLVD  
 DECATUR, GA 30030

**OWNER/DEVELOPER**  
 DEKALB BOARD OF EDUCATION  
 1701 MOUNTAIN INDUSTRIAL BOULEVARD  
 STONE MOUNTAIN, GA 30083  
 (678) 676-1200

**USER**  
 MUSEUM SCHOOL OF AVONDALE ESTATES  
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 DECATUR, GA 30030

**ARCHITECT**  
 LORD AECK SARGENT ARCHITECTURE  
 1201 PEACHTREE STREET, NE, SUITE 300  
 ATLANTA, GEORGIA 30361  
 CONTACT: CHRISTINE RAY  
 (404) 253-1400

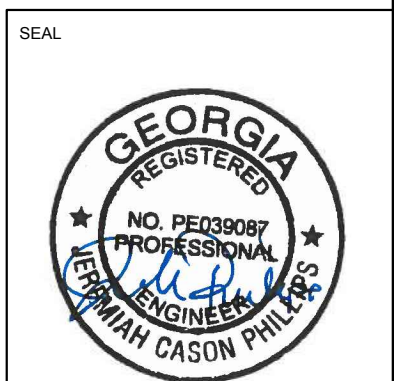
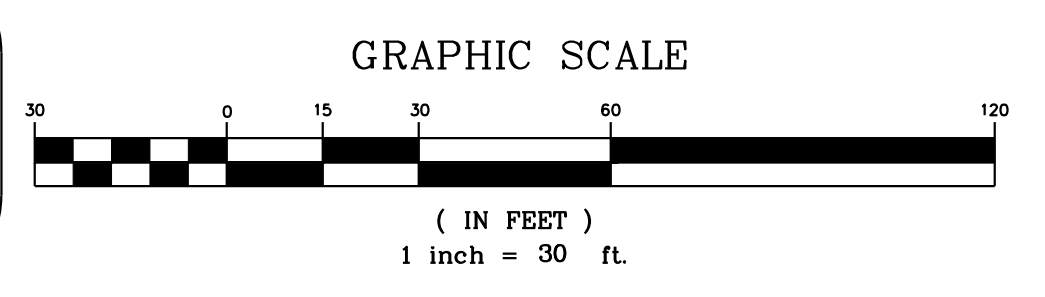
**ENGINEER**  
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 CONTACT: JEREMIAH PHILLIPS  
 (770) 452-7849

**24 HOUR CONTACT**  
 DEAN MOORE  
 (762) 448-5647

**LEGEND**

PROPOSED CONCRETE	
FIRE TRUCK ACCESS PAVERS	
FIRE TRUCK ACCESS	

**SITE DATA**  
 ZONING USE: R-75  
 TOTAL ACREAGE: 8.315 ACRES  
 DEKALB COUNTY, GA  
 LAND LOT 232 & 233; 15th DISTRICT  
 PARCEL #: 15 233 01 022



ISSUE DATE  
 02/26/2016

JOB NO.  
 10130-02

EWG. NO.  
 C301

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**Waterquality Work Sheet**

Project Name **Museum School Phase 5 & 6**  
 Pond Name

**Calculations for Required WQV:**

$WQV = 1.2 (0.05 + (0.009)) As / 12$

Total Drainage Area (As) = 0.39  
 Total Impervious Area = 0.18  
 Percent Impervious(I) = 46.15%

$WQV = 1.2(0.5 + (46.15 \times 0.009))(0.18 \times 43560) / 12$

Required WQV = **791 c.f.**  
 Provided WQV = **840 c.f.**

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- LAND PLANNING
- CIVIL ENGINEERING
- LANDSCAPE ARCHITECTURE

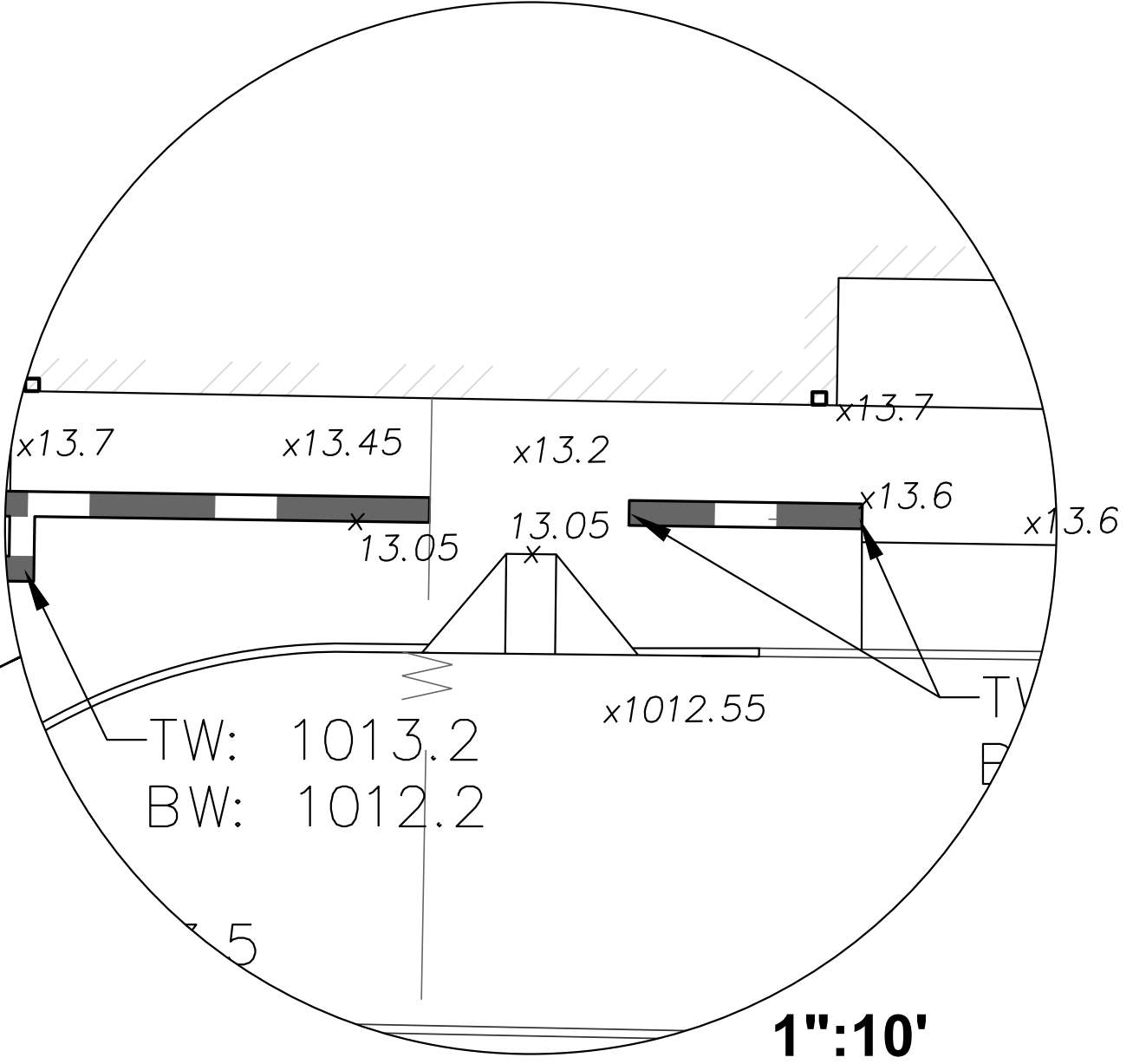
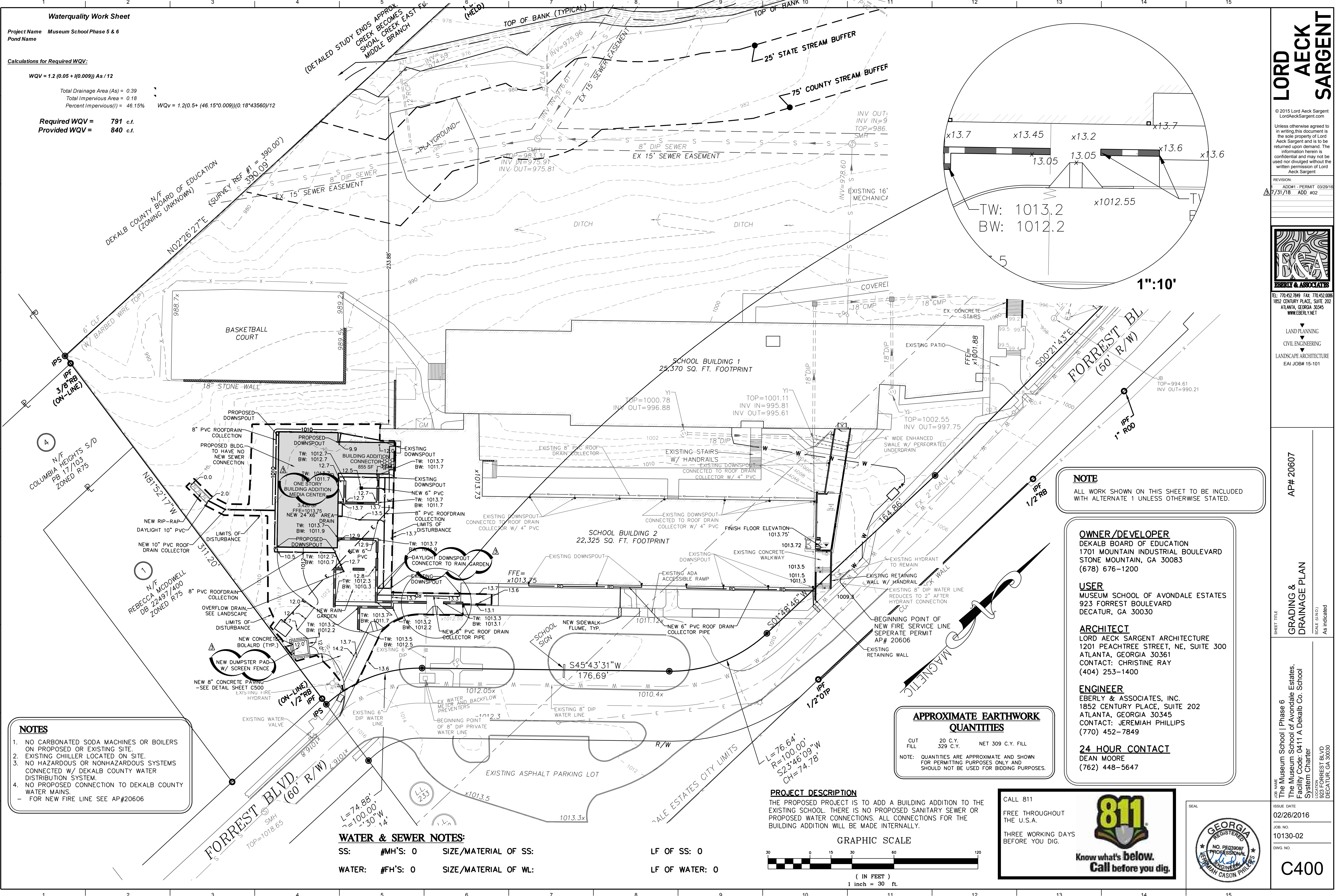
EAI JOB# 15-101

AP# 20607

GRADING & DRAINAGE PLAN

PROJECT NAME:  
 The Museum School of Avondale Estates,  
 Facility Code: 0411 A Dekalb Co. School System Charter

ISSUE DATE:  
 02/26/2016  
 JOB NO:  
 10130-02  
 DWG. NO:  
 C400



**NOTE**  
 ALL WORK SHOWN ON THIS SHEET TO BE INCLUDED WITH ALTERNATE 1 UNLESS OTHERWISE STATED.

**OWNER/DEVELOPER**  
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 1701 MOUNTAIN INDUSTRIAL BOULEVARD  
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 (678) 676-1200

**USER**  
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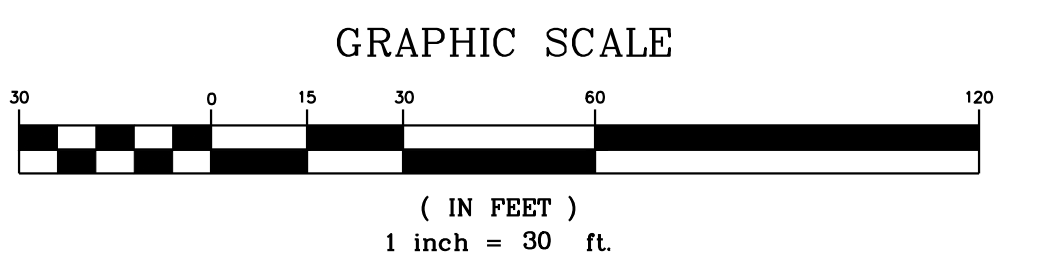
**24 HOUR CONTACT**  
 DEAN MOORE  
 (762) 448-5647

**APPROXIMATE EARTHWORK QUANTITIES**

CUT	20 C.Y.	NET 309 C.Y. FILL
FILL	329 C.Y.	

NOTE: QUANTITIES ARE APPROXIMATE AND SHOWN FOR PERMITTING PURPOSES ONLY AND SHOULD NOT BE USED FOR BIDDING PURPOSES.

**PROJECT DESCRIPTION**  
 THE PROPOSED PROJECT IS TO ADD A BUILDING ADDITION TO THE EXISTING SCHOOL. THERE IS NO PROPOSED SANITARY SEWER OR PROPOSED WATER CONNECTIONS. ALL CONNECTIONS FOR THE BUILDING ADDITION WILL BE MADE INTERNALLY.



- NOTES**
- NO CARBONATED SODA MACHINES OR BOILERS ON PROPOSED OR EXISTING SITE.
  - EXISTING CHILLER LOCATED ON SITE.
  - NO HAZARDOUS OR NONHAZARDOUS SYSTEMS CONNECTED W/ DEKALB COUNTY WATER DISTRIBUTION SYSTEM.
  - NO PROPOSED CONNECTION TO DEKALB COUNTY WATER MAINS.  
 - FOR NEW FIRE LINE SEE AP#20606

**WATER & SEWER NOTES:**

SS: #MH'S: 0 SIZE/MATERIAL OF SS: LF OF SS: 0  
 WATER: #FH'S: 0 SIZE/MATERIAL OF WL: LF OF WATER: 0

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**EROSION CONTROL NOTES**

1. SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY.
2. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
3. CUT AND FILL SLOPES SHALL NOT EXCEED 2H:1V.
4. USE NORTH AMERICAN GREEN S150 OR EQUIVALENT FOR ALL CUT AND FILL SLOPES TO RECEIVE EROSION CONTROL BLANKET.
5. WITHIN THE CLEARING LIMITS, THE SITE IS TO BE TIMBERED.
6. ALL STUMPS, LIMBS, AND TOPS ARE TO BE DISPOSED OF OFF-SITE AND THE SOIL IS TO BE CLEANED BY USE OF A ROOT RAKE OR SIMILAR IMPLEMENT.
7. ALL TOPSOIL IS TO BE MOVED TO A STOCKPILE LOCATION.
8. AFTER ROUGH GRADING IS COMPLETE, THE TOPSOIL IS TO BE RE-SPREAD IN THE FRONT AND REAR YARDS, SLOPES, AND OTHER NON-LOAD BEARING LOCATIONS. CARE MUST BE TAKEN TO REMOVE THE TOPSOIL FROM AREAS WHERE DRIVEWAYS AND PATIOS OCCUR.
9. ALL TOPSOIL IS TO BE COMPACTED AND WALKED-IN PRIOR TO APPLICATION OF SEED OR SOD.
10. ALTERNATIVE TECHNOLOGIES STATEMENT: ALTERNATIVE TECHNOLOGIES AS IDENTIFIED IN THE OPI-36, MAY BE SUBSTITUTED FOR THE TYPE "C" SILT FENCE ON PLANS IF APPROVED BY DESIGN ENGINEER.
11. STATE WATERS ARE NOT LOCATED WITHIN 200' OF THE SITE DISTURBANCE.
12. THERE ARE NO WETLANDS LOCATED ON THE SITE PER INVESTIGATION.

**NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A 404 PERMIT**

**WASTE MATERIALS**  
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON SITE.

**HAZARDOUS WASTE**  
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR MAKING SURE THAT THESE PRACTICES ARE FOLLOWED WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

**SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPOC) PLAN**  
THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPOC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPOC PLAN.

**SANITARY WASTES**  
A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

**HAZARDOUS WASTE**  
ALL HAZARDOUS WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE SHEET EC3.0 BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

**SEWER SYSTEM**  
SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT. THE ES&PC PLAN MUST BE IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

**MAINTENANCE STATEMENT:**  
**EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY**

**APPROXIMATE EARTHWORK QUANTITIES**

CUT	20 C.Y.	NET 309 C.Y. FILL
FILL	329 C.Y.	

NOTE: QUANTITIES ARE APPROXIMATE AND SHOWN FOR PERMITTING PURPOSES ONLY AND SHOULD NOT BE USED FOR BIDDING PURPOSES.

**TOTAL SITE AREA = 835 ACRES  
DISTURBED AREA = 0.39 ACRES**

**THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.**

**RESTORE DETENTION PONDS TO ORIGINAL DESIGN CONDITIONS ONCE SITE HAS BEEN STABILIZED AND THE TEMPORARY SEDIMENT PONDS AND RETROFITS HAVE BEEN REMOVED. THIS INCLUDES REMOVING SILT AND MUCK FROM THE BOTTOM OF THE PONDS AND INSTALLING PERMANENT GRASS.**

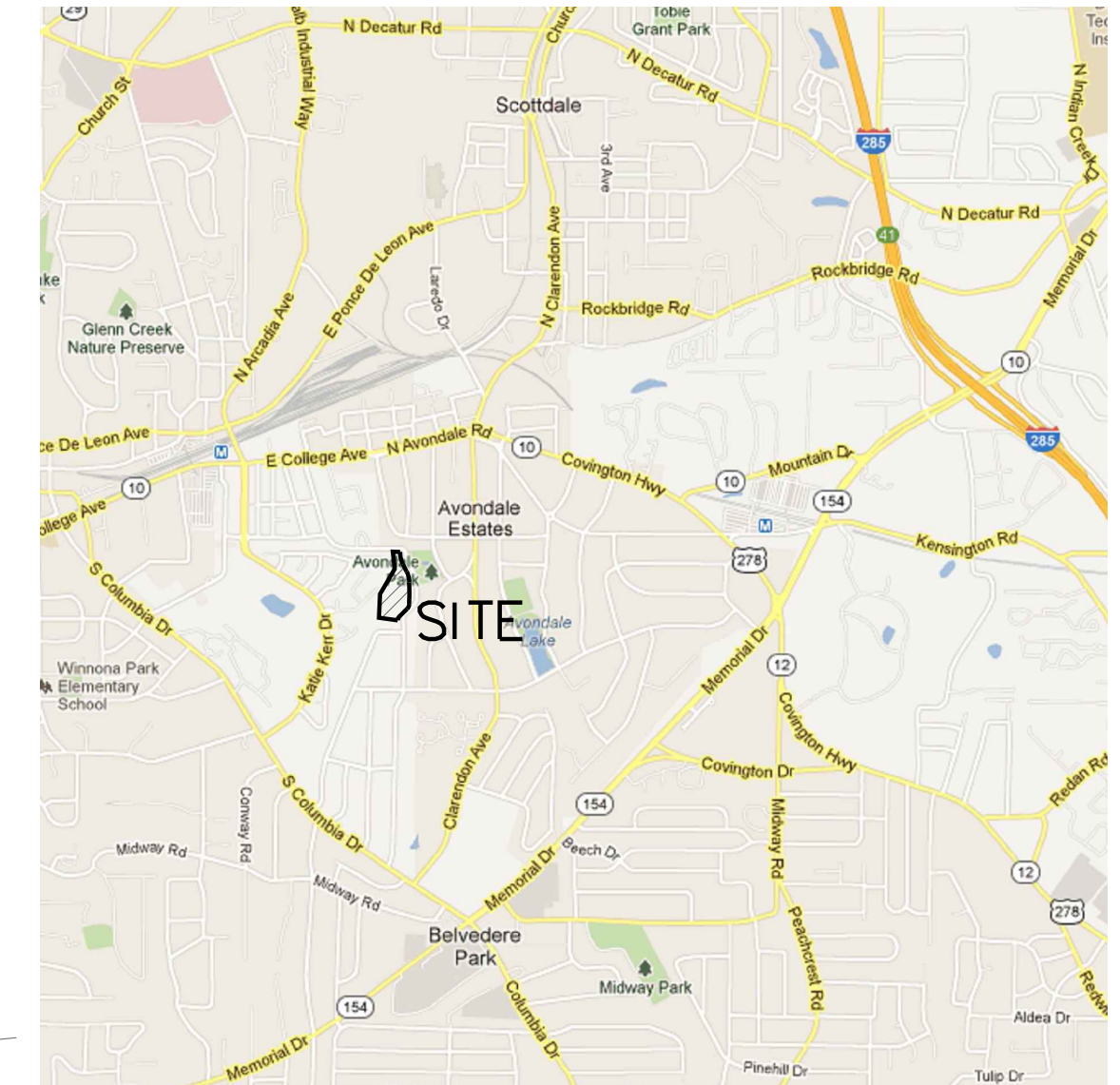
**GEORGIA SOIL AND WATER CONSERVATION COMMISSION**

JEREMIAH PHILLIPS  
LEVEL II CERTIFIED DESIGN PROFESSIONAL

*Jeremiah Phillips*  
CERTIFICATION NUMBER 0000072147  
ISSUED: 08/29/2014  
EXPIRES: 08/29/2020

**UTILITY DISCLAIMER**

UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEM RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.



**LOCATION MAP**  
N.T.S.

**PRODUCT SPECIFIC PRACTICES**  
**PETROLEUM BASED PRODUCTS** - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

**PAINTS/FINISHES/SOLVENTS** - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

**CONCRETE TRUCK WASHING** - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE.

**FERTILIZER/HERBICIDES** - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IF GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

**BUILDING MATERIALS** - NO BUILDING MATERIALS OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

**OWNER/DEVELOPER**  
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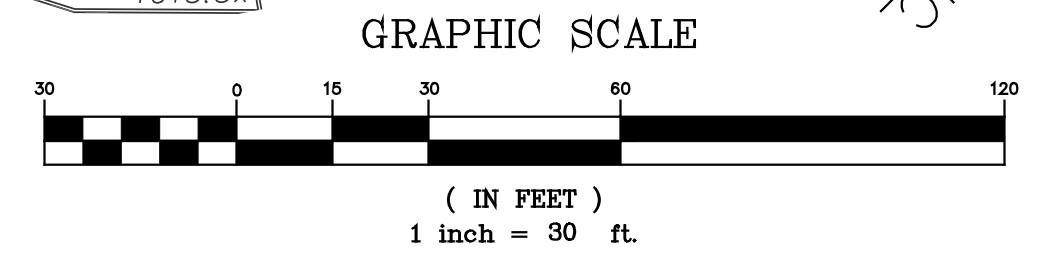
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7/31/18 ADD #02



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LAND PLANNING  
CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
EAI JOB# 15-101

SHEET TITLE: INTERMEDIATE ES&PC PLAN AP# 20607  
SCALE (R/W): As indicated

USER NAME: The Museum School | Phase 6  
The Museum School of Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter  
LOCATION: 923 FORREST BLVD  
DECATUR, GA 30030

ISSUE DATE: 02/26/2016  
JOB NO.: 10130-02  
DWG NO.:

**EC101**

**EROSION CONTROL NOTES**

1. SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY.
2. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
3. CUT AND FILL SLOPES SHALL NOT EXCEED 2H:1V.
4. USE NORTH AMERICAN EQUIVALENT FOR ALL CUT AND FILL SLOPES TO RECEIVE EROSION CONTROL BLANKET.
5. WITHIN THE CLEARING LIMITS, THE SITE IS TO BE TIMBERED.
6. ALL STUMPS, LIMBS, AND TOPS ARE TO BE DISPOSED OF OFF-SITE AND THE SOIL IS TO BE CLEANED BY USE OF A ROOT RAKE OR SIMILAR IMPLEMENT.
7. ALL TOPSOIL IS TO BE MOVED TO A STOCKPILE LOCATION.
8. AFTER ROUGH GRADING IS COMPLETE, THE TOPSOIL IS TO BE RE-SPREAD IN THE FRONT AND REAR YARDS, SLOPES, AND OTHER NON-LOAD BEARING LOCATIONS. CARE MUST BE TAKEN TO REMOVE THE TOPSOIL FROM AREAS WHERE DRIVEWAYS AND PATIOS ARE TO BE LOCATED.
9. ALL TOPSOIL IS TO BE COMPACTED AND WALKED-IN PRIOR TO APPLICATION OF SEED OR SOD.
10. ALTERNATIVE TECHNOLOGIES STATEMENT: ALTERNATIVE TECHNOLOGIES AS IDENTIFIED IN THE OPL-36, MAY BE SUBSTITUTED FOR THE TYPE "C" SILT FENCE ON PLANS IF APPROVED BY DESIGN ENGINEER.
11. STATE WATERS ARE NOT LOCATED WITHIN 200' OF THE SITE DISTURBANCE.
12. THERE ARE NO WETLANDS LOCATED ON THE SITE PER INVESTIGATION.

**NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A 404 PERMIT**

**WASTE MATERIALS**  
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULLED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON SITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

**HAZARDOUS WASTE**  
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR MAKING SURE THAT THESE PRACTICES ARE FOLLOWED WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE. CONSTRUCTION TRAILER OFFICE EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

**SANITARY WASTES**  
A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING SHEET EC3.0 BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT. THE ES&PC PLAN MUST BE IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

**APPROXIMATE EARTHWORK QUANTITIES**

CUT	20 C.Y.	NET 309 C.Y. FILL
FILL	329 C.Y.	

NOTE: QUANTITIES ARE APPROXIMATE AND SHOWN FOR PERMITTING PURPOSES ONLY AND SHOULD NOT BE USED FOR BIDDING PURPOSES.

**TOTAL SITE AREA = 8.35 ACRES  
DISTURBED AREA = 0.39 ACRES**

**THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.**

**RESTORE DETENTION PONDS TO ORIGINAL DESIGN CONDITIONS ONCE SITE HAS BEEN STABILIZED AND THE TEMPORARY SEDIMENT PONDS AND RETROFITS HAVE BEEN REMOVED. THIS INCLUDES REMOVING SILT AND MUCK FROM THE BOTTOM OF THE PONDS AND INSTALLING PERMANENT GRASS.**

**UTILITY DISCLAIMER**

UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEM RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.

**MAINTENANCE STATEMENT:**

**EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY**

**PRODUCT SPECIFIC PRACTICES**

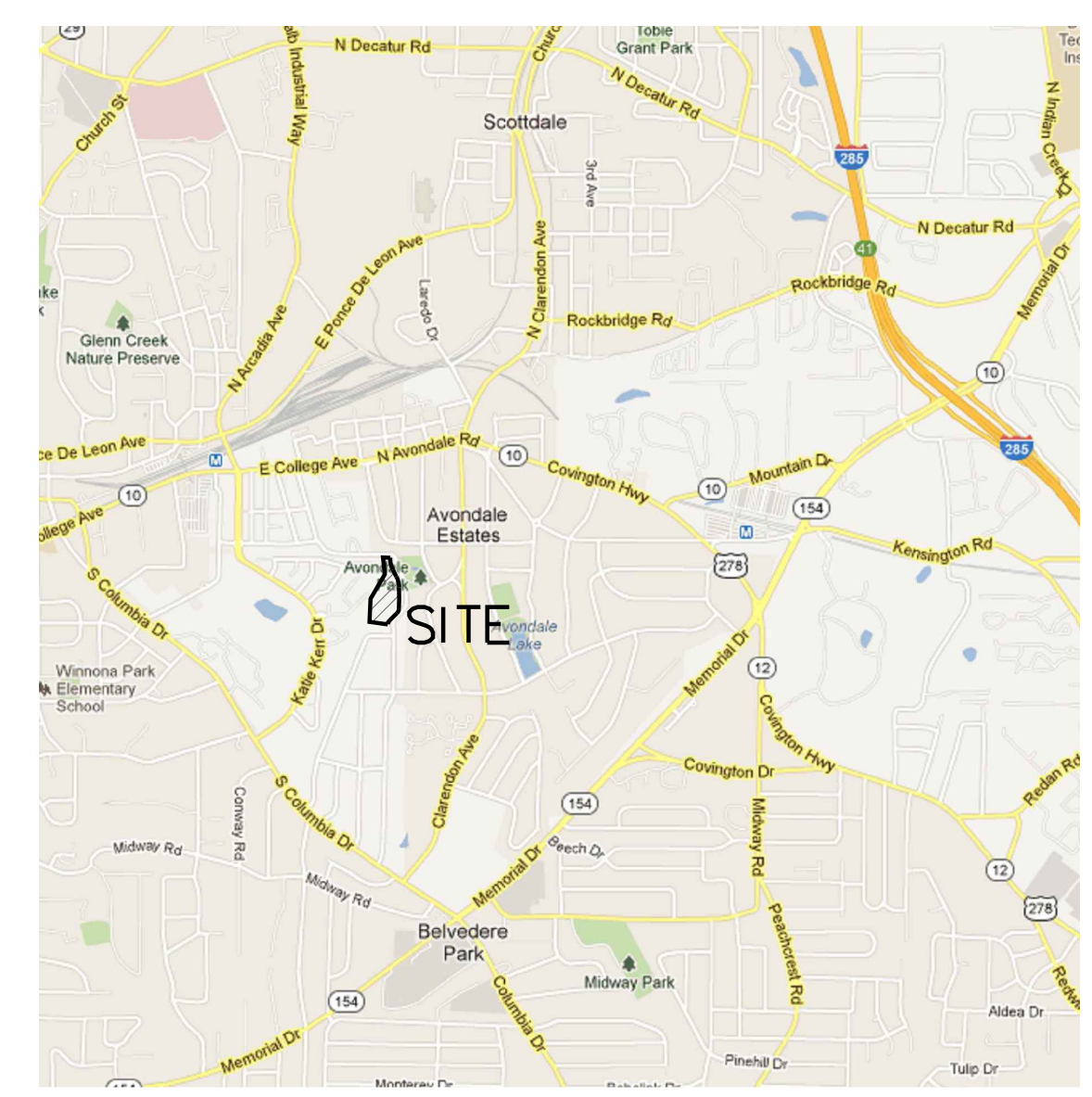
**PETROLEUM BASED PRODUCTS** - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

**PAINTS/FINISHES/SOLVENTS** - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

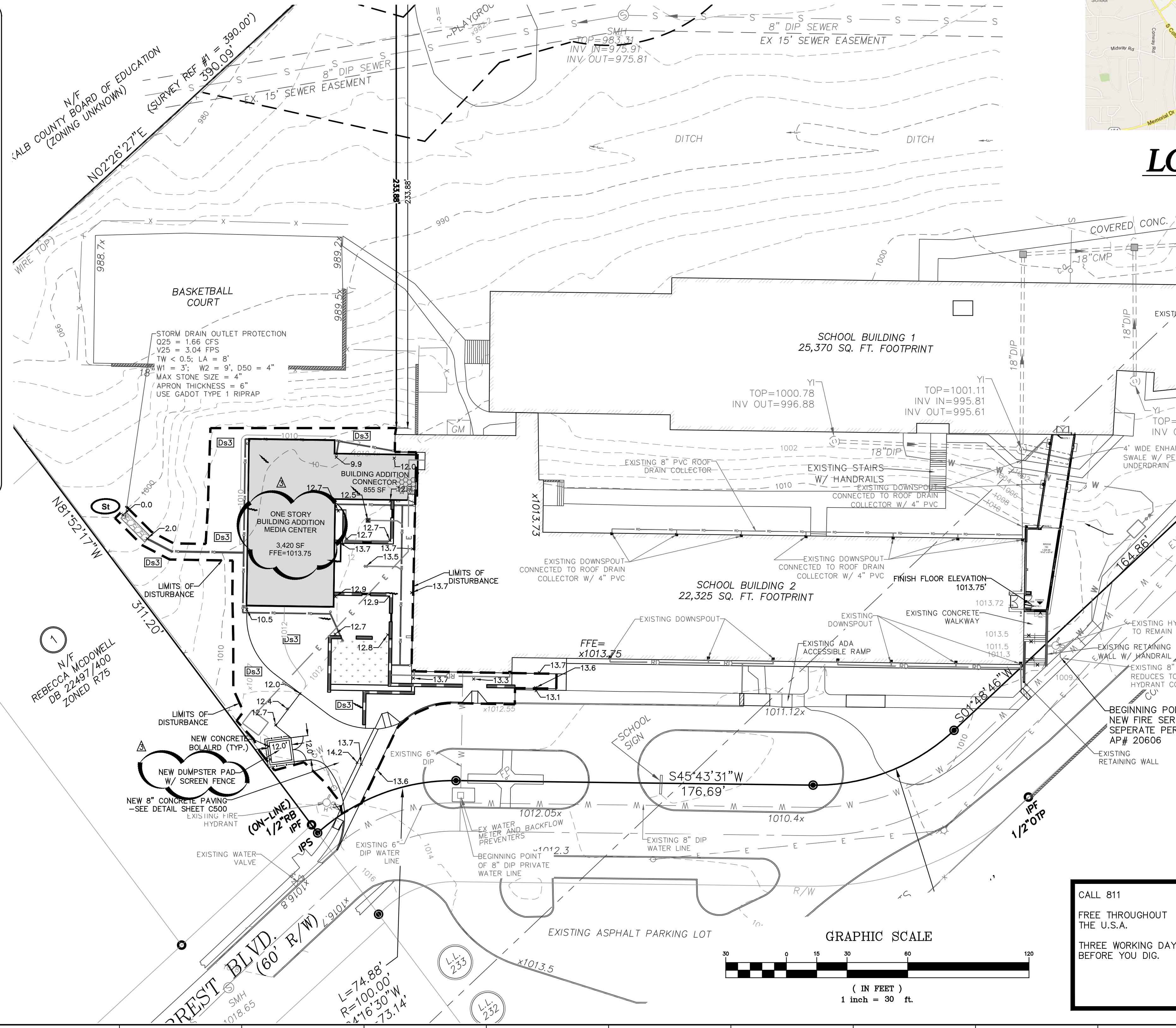
**CONCRETE TRUCK WASHING** - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OF DRUM WASH WATER ONSITE.

**FERTILIZER/HERBICIDES** - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE CSWC MANUAL FOR EROSION AND SEDIMENT CONTROL IF GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

**BUILDING MATERIALS** - NO BUILDING MATERIALS OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.



**LOCATION MAP**  
N.T.S.



**GEORGIA SOIL AND WATER CONSERVATION COMMISSION**  
JEREMIAH PHILLIPS  
LEVEL II CERTIFIED DESIGN PROFESSIONAL  
CERTIFICATION NUMBER 000007214Z  
ISSUED: 08/29/2014  
EXPIRES: 08/29/2020

**OWNER/DEVELOPER**  
DEKALB BOARD OF EDUCATION  
1701 MOUNTAIN INDUSTRIAL BOULEVARD  
STONE MOUNTAIN, GA 30083  
(678) 676-1200

**USER**  
MUSEUM SCHOOL OF AVONDALE ESTATES  
923 FORREST BOULEVARD  
DECATUR, GA 30030

**ARCHITECT**  
LORD AECK SARGENT ARCHITECTURE  
1201 PEACHTREE STREET, NE, SUITE 300  
ATLANTA, GEORGIA 30361  
CONTACT: CHRISTINE RAY  
(404) 253-1400

**ENGINEER**  
EBERLY & ASSOCIATES, INC.  
1852 CENTURY PLACE, SUITE 202  
ATLANTA, GEORGIA 30345  
CONTACT: JEREMIAH PHILLIPS  
(770) 452-7849

**24 HOUR CONTACT**  
DEAN MOORE  
(762) 448-5647

CALL 811  
FREE THROUGHOUT THE U.S.A.  
THREE WORKING DAYS BEFORE YOU DIG.



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REVISION:  
ADD#1 - PERMIT 03/29/18  
7/31/18 ADD #02



TEL: 770.462.7849 FAX: 770.462.0088  
1852 CENTURY PLACE, SUITE 202  
ATLANTA, GEORGIA 30345  
WWW.EBERLY.NET

- LAND PLANNING
- CIVIL ENGINEERING
- LANDSCAPE ARCHITECTURE

EAI JOB# 15-101

AP# 20607

FINAL ES&PC PLAN

PROJECT NAME:  
The Museum School of Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter

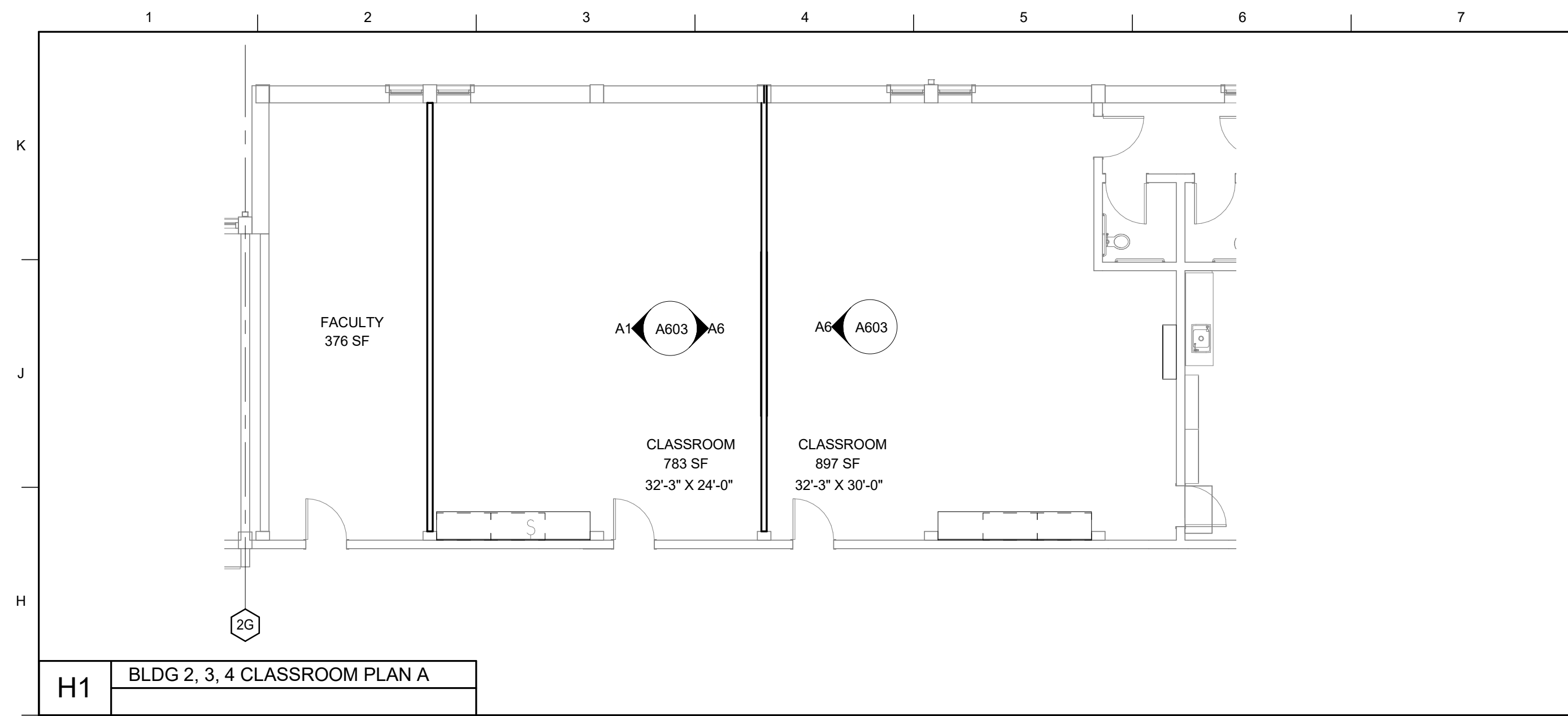
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JOB NO.:

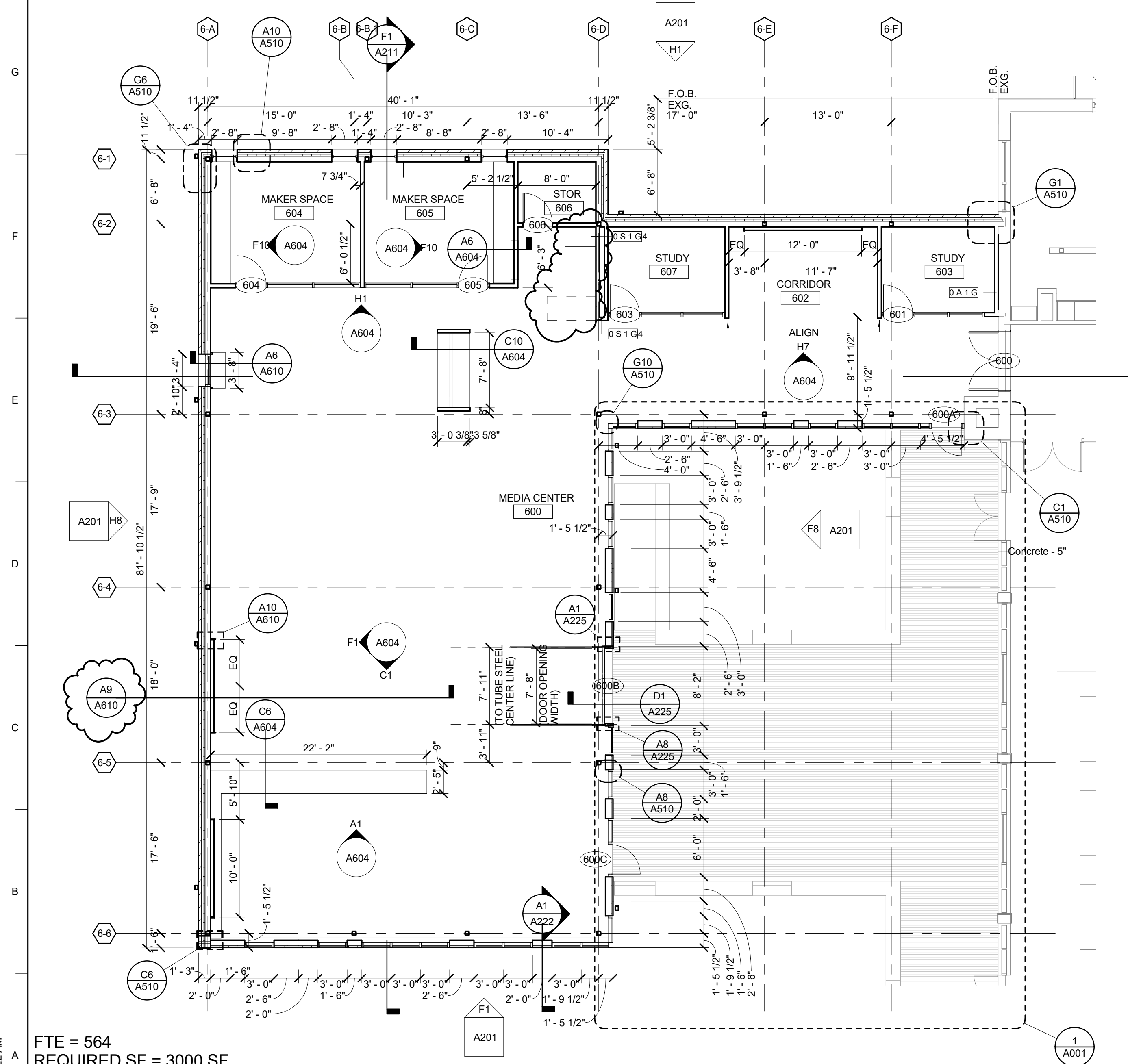
10130-02

DWG. NO.:

EC102



H1 BLDG 2, 3, 4 CLASSROOM PLAN A



FTE = 564  
REQUIRED SF = 3000 SF  
PROVIDED SF = 3380 SF

A1 MEDIA CENTER ADDITION PLAN

MATERIAL KEYNOTES

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE 0 S 49 G U.N.O.

SHEET SPECIFIC NOTES

KEY PLAN

1B 1A BRIDGE

PROJECT NORTH

SCALE (IN/FT)

0 4 8 12 16 FT

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REVISION:

1	Add #02	7/31/2018
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SHEET TITLE

**ENLARGED PLAN**

SCALE (IN/FT)

0 4 8 12 16 FT

JOB NAME

The Museum School | Phase 6  
The Museum School on Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter

LOCATION

823 FORREST BLVD  
DECATUR, GA 30030

ISSUE DATE

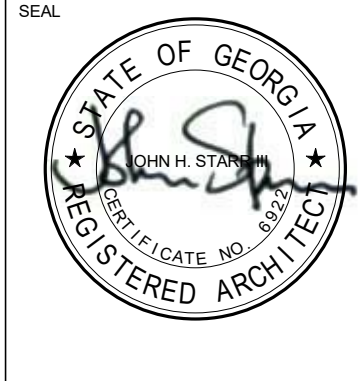
04/30/2018

JOB NO.

10130-02

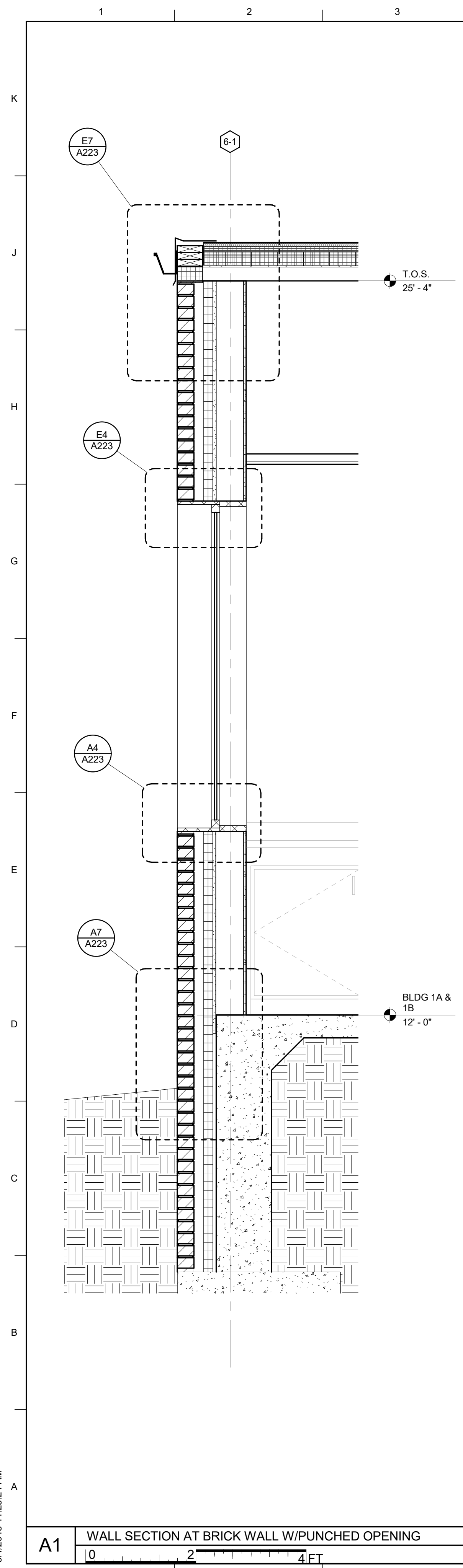
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**A111**

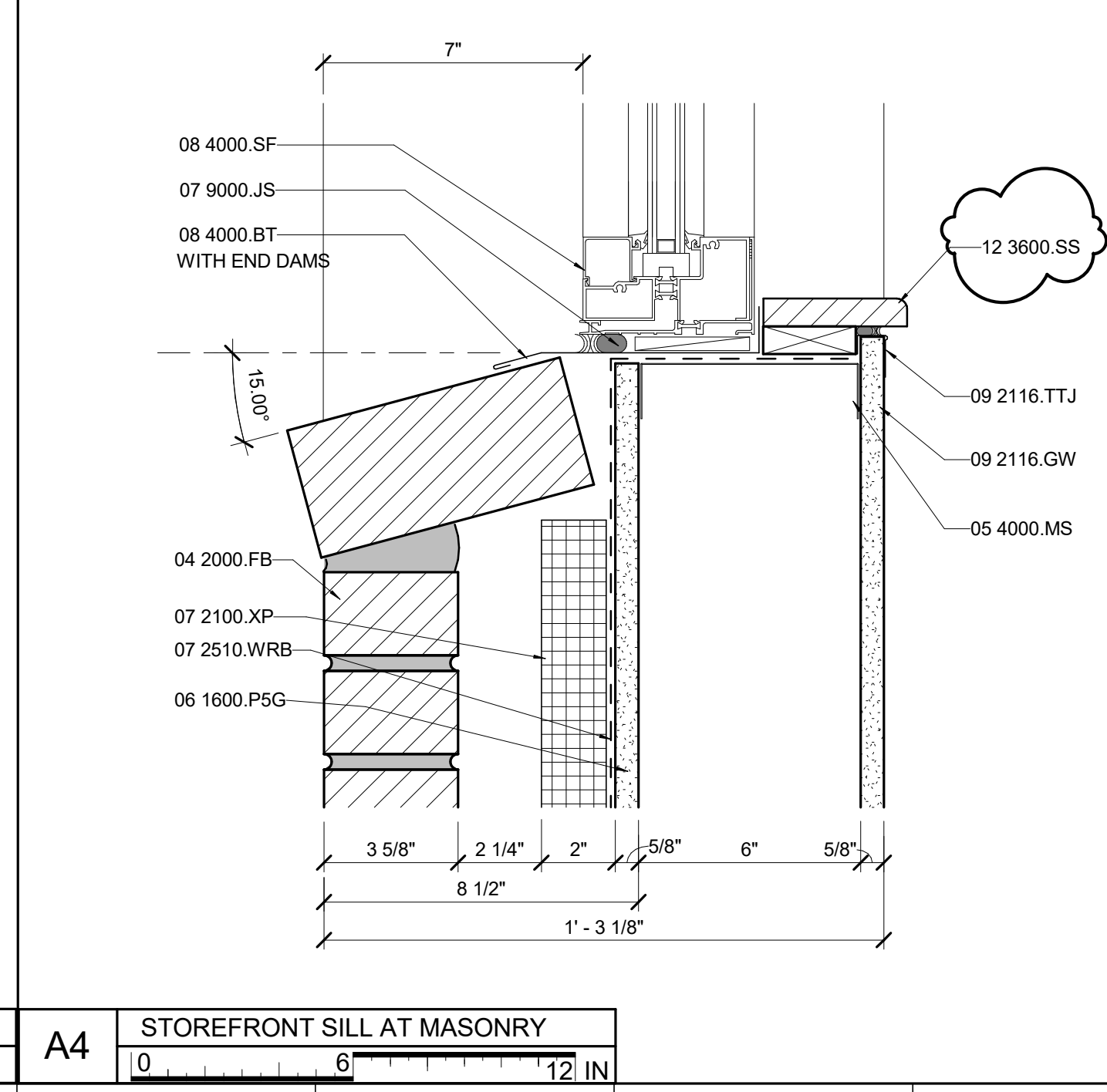
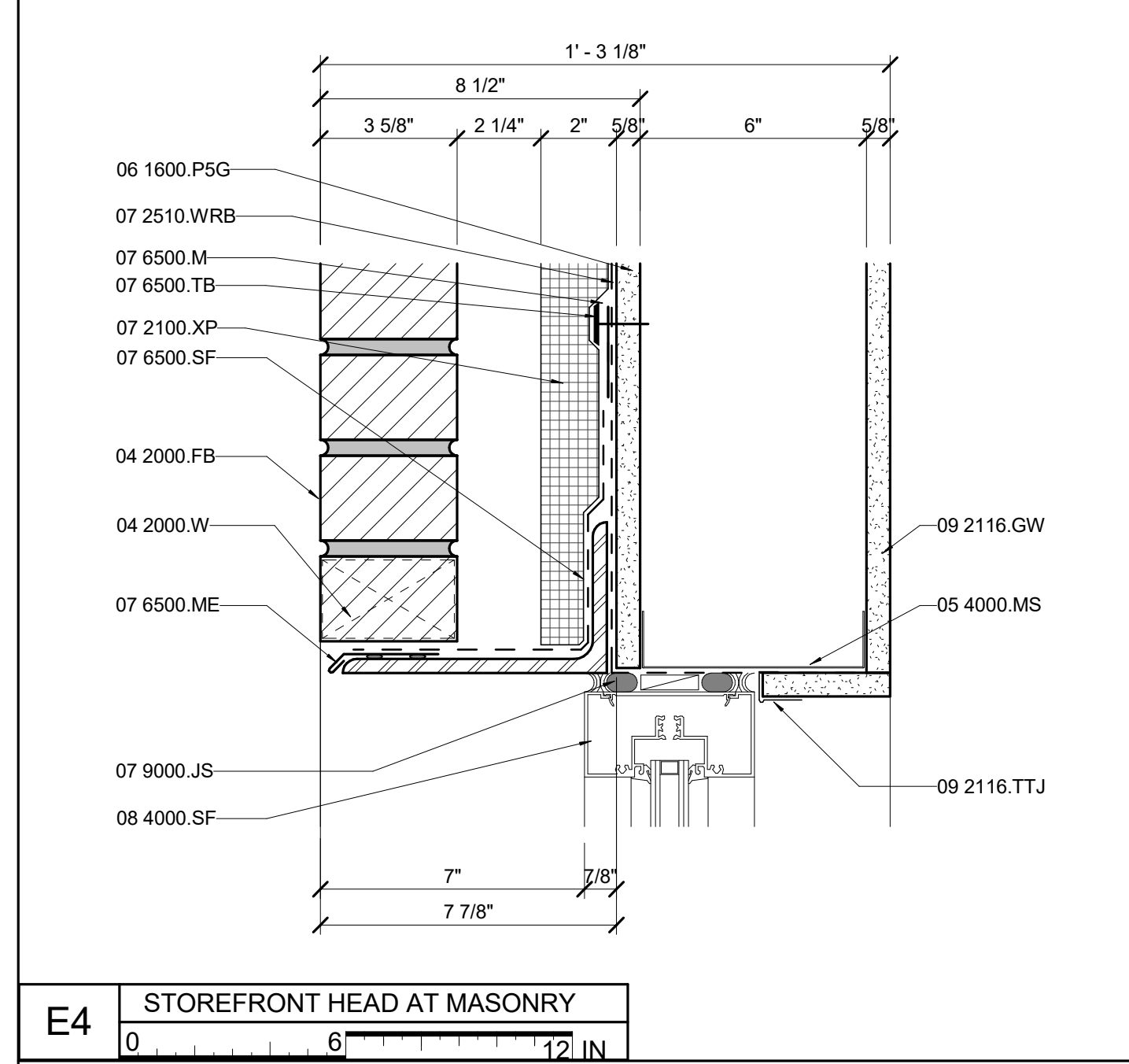
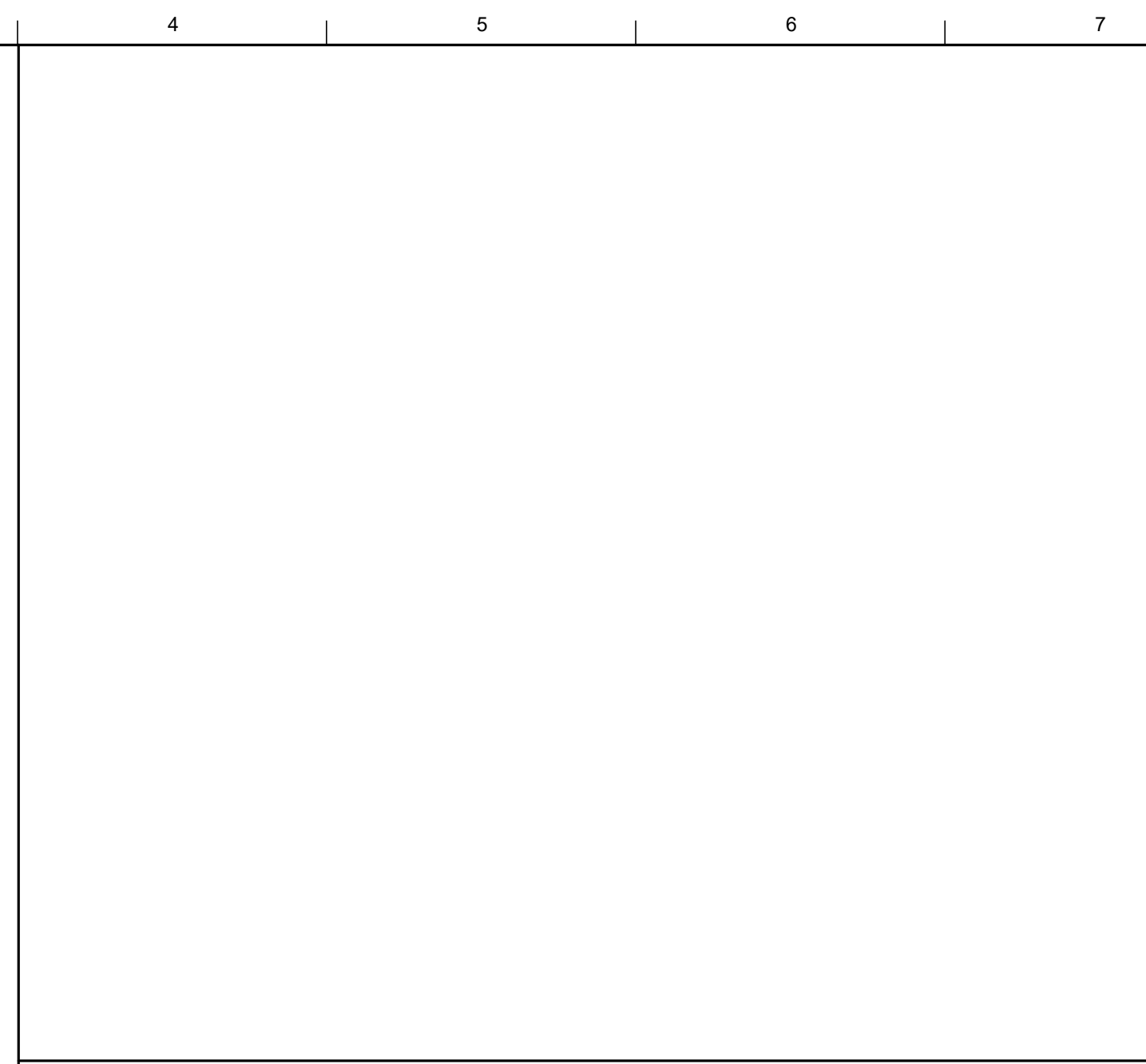


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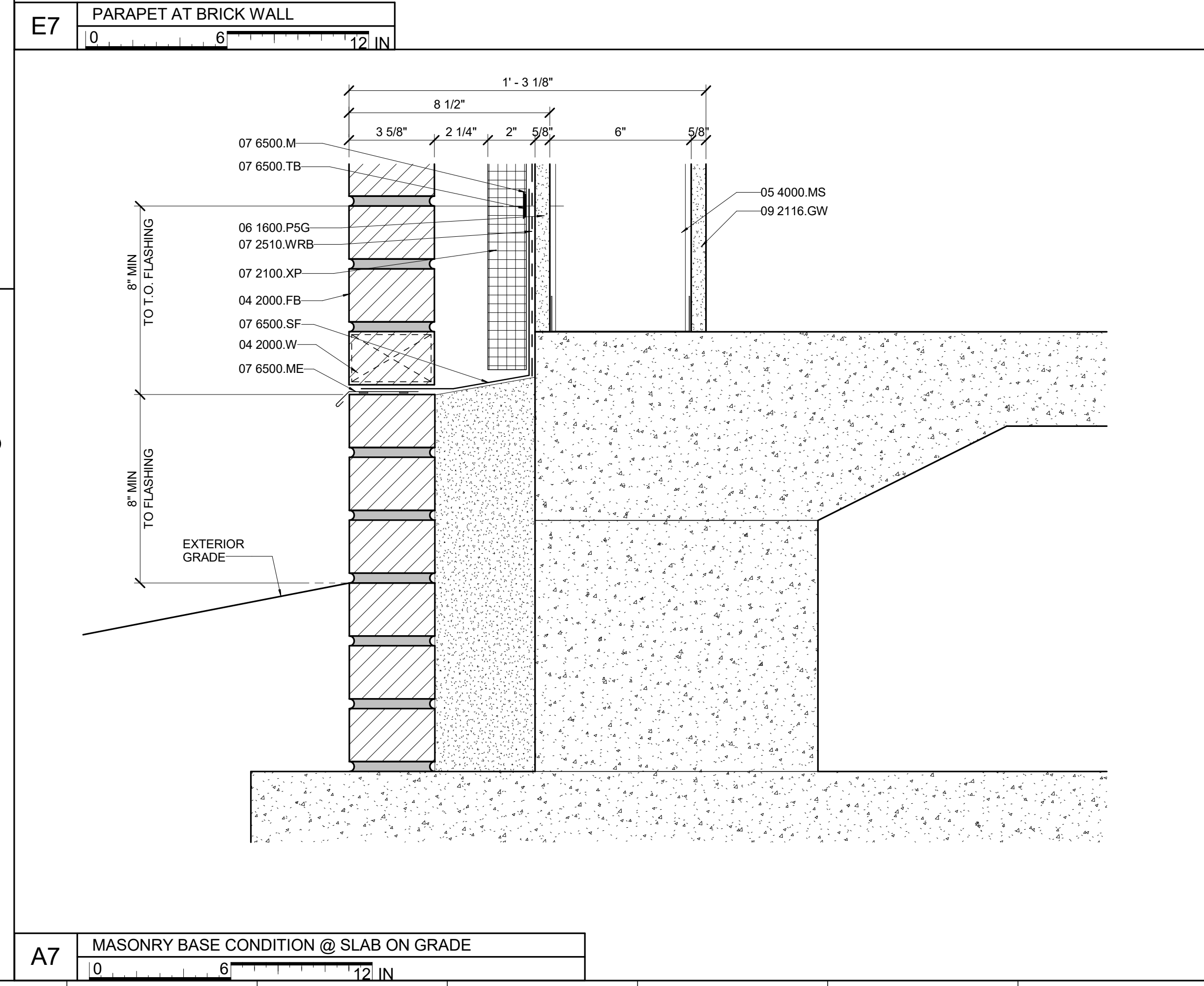
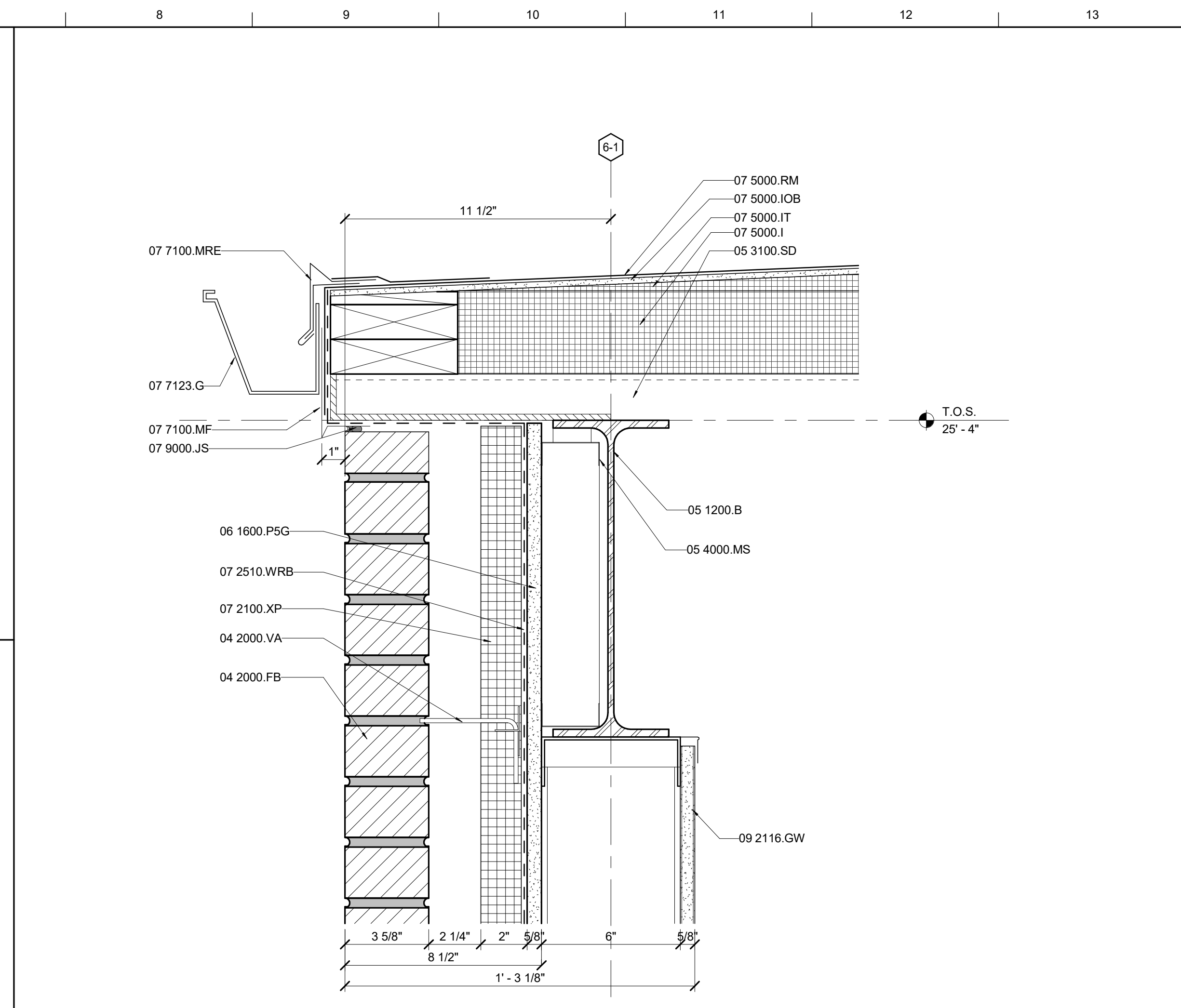
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**A1** WALL SECTION AT BRICK WALL W/PUNCHED OPENING  
0 2 4 FT



**A4** STOREFRONT SILL AT MASONRY  
0 6 12 IN



**A7** MASONRY BASE CONDITION @ SLAB ON GRADE  
0 6 12 IN

MATERIAL KEYNOTES	
04 2000.FB	Face Brick
04 2000.VA	Veneer Anchors
04 2000.W	Weeps
05 1200.B	Steel Beam
05 3100.SD	Steel Decking
05 4000.MS	Metal Stud Framing
06 1600.P5G	5/8" Gypsum Sheathing
07 2100.XP	2" Extruded Polystyrene Insulation
07 2510.WRB	Weather-Resistant Barrier
07 5000.I	Isocyanurate insulation
07 5000.IOB	Overlay board
07 5000.IT	Tapered isocyanurate insulation
07 5000.RM	Roof Membrane
07 6500.M	Mastic
07 6500.ME	Metal Edge
07 6500.SF	Sheet flashing
07 6500.TB	Termination bar
07 7100.MF	Metal Fascia
07 7100.MRE	Metal Roof Edge (Gravel Stop)
07 7123.G	Gutter
07 9000.JS	Joint Sealant
08 4000.BT	Aluminum Break Metal Trim/Flashing
08 4000.SF	Storefront
09 2116.GW	Gypsum Wallboard
09 2116.TTJ	"J" Trim
12 3600.SS	Solid Surface

GENERAL NOTES	
<p>REVISION:</p> <p>1 Add #02 7/31/2018</p>	
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<p>12 3600.SS</p>	

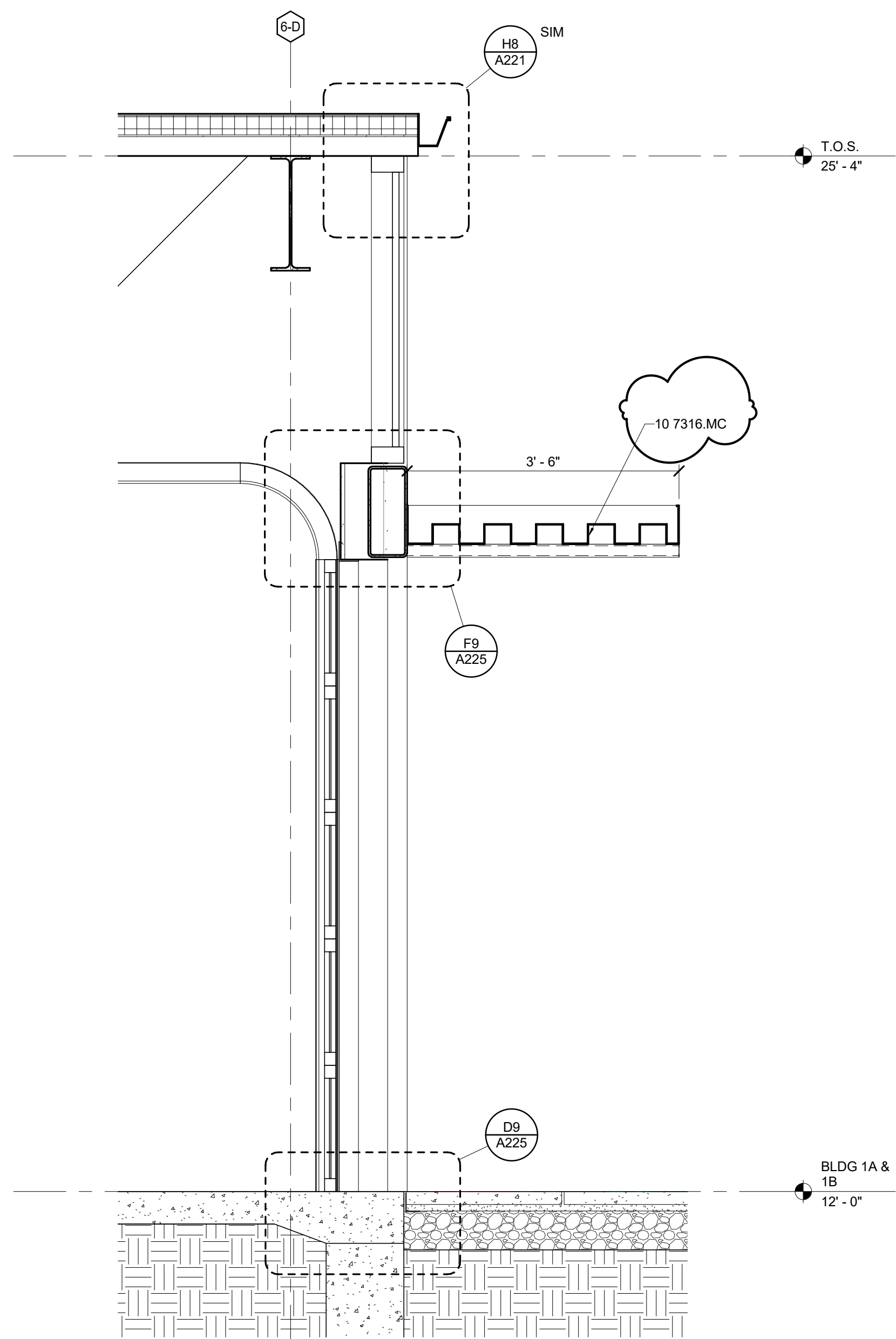
SHEET SPECIFIC NOTES	
1. 1/2" MINIMUM, 1" MAXIMUM.	
KEY PLAN	SEAL
<p>JOB NAME The Museum School   Phase 6 The Museum School or Avondale Estates, Facility Code: 0411 A Detail Co. School System Charter</p> <p>LOCATION 823 FORREST BLVD DECATUR, GA 30030</p> <p>ISSUE DATE 04/30/2018</p> <p>JOB NO. 10130-02</p> <p>DWG. NO. A223</p>	

**LORD  
AECK  
SARGENT**

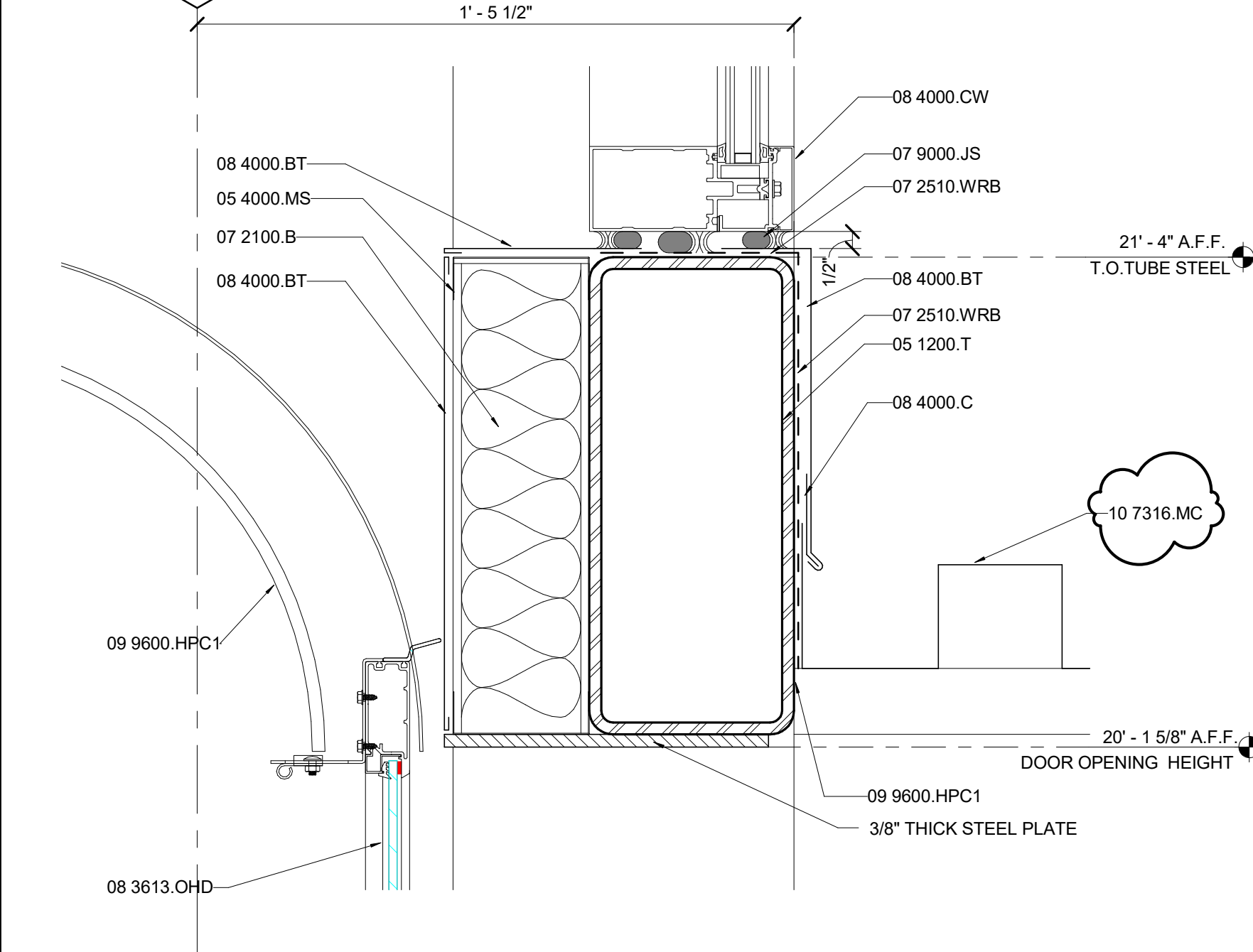
SHEET TITLE  
**WALL SECTION AT BRICK**  
SCALE (IN/IN)

**FOR CONSTRUCTION**

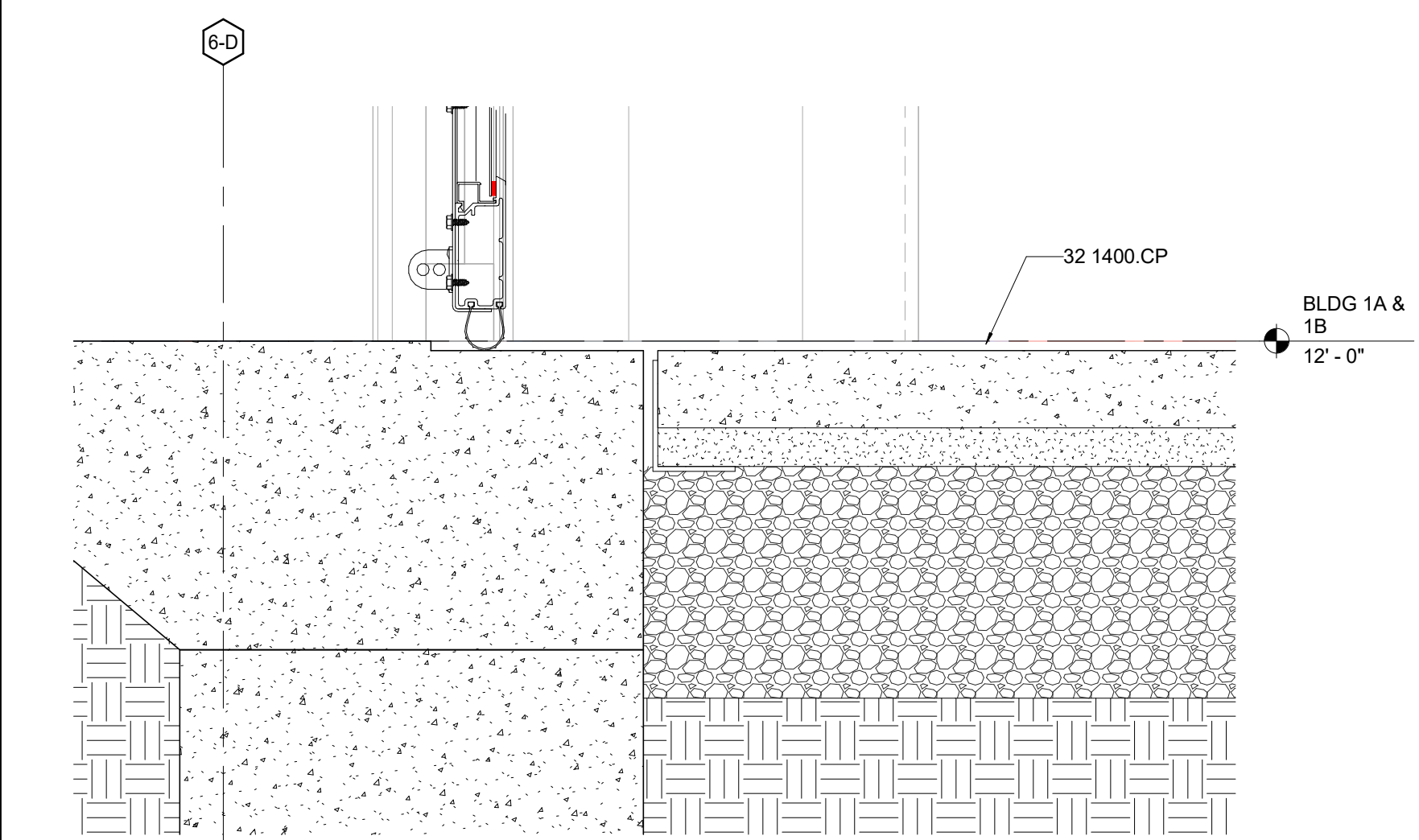
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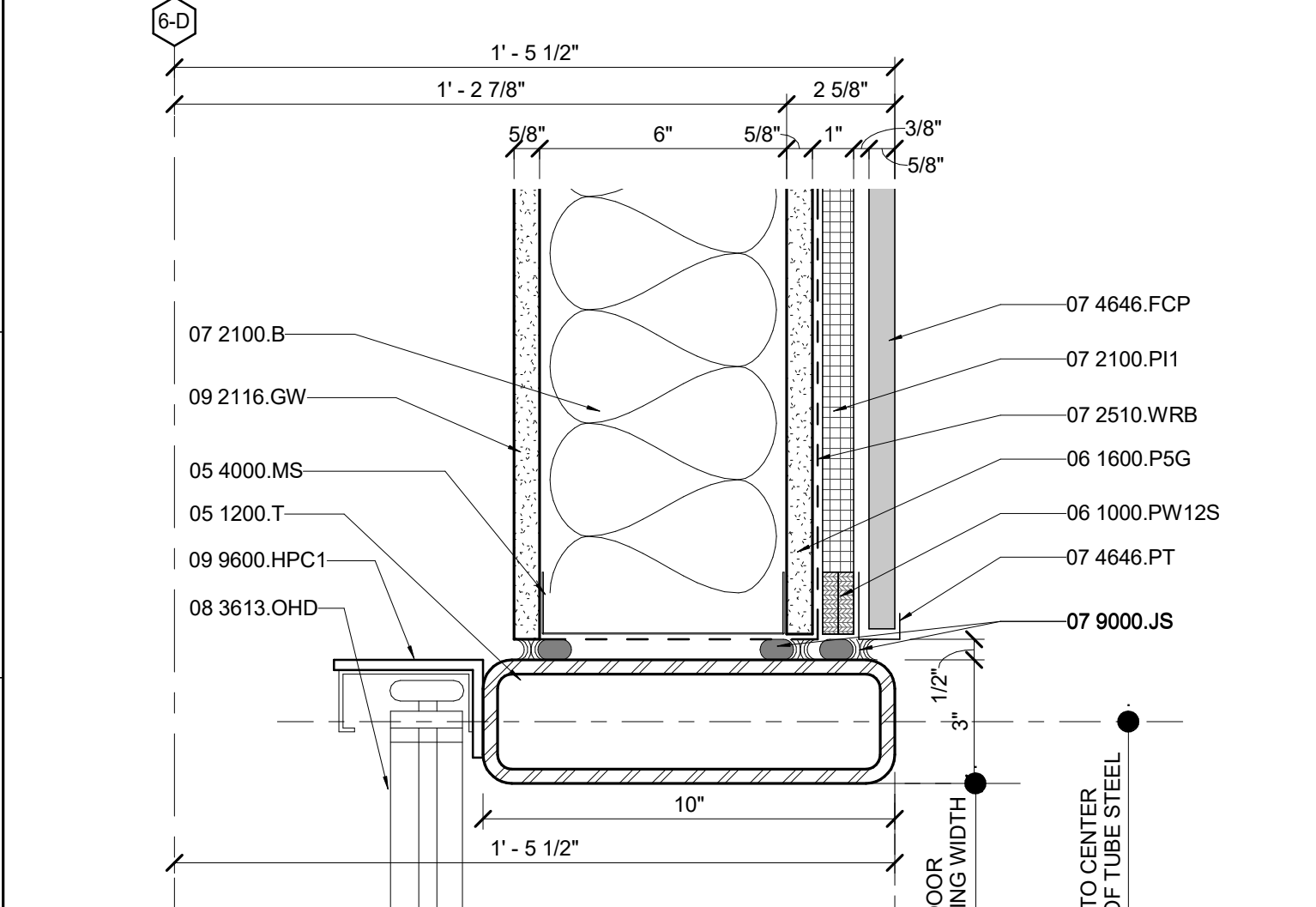
**D1** OVERHEAD DOOR SECTION  
0 2 4 FT



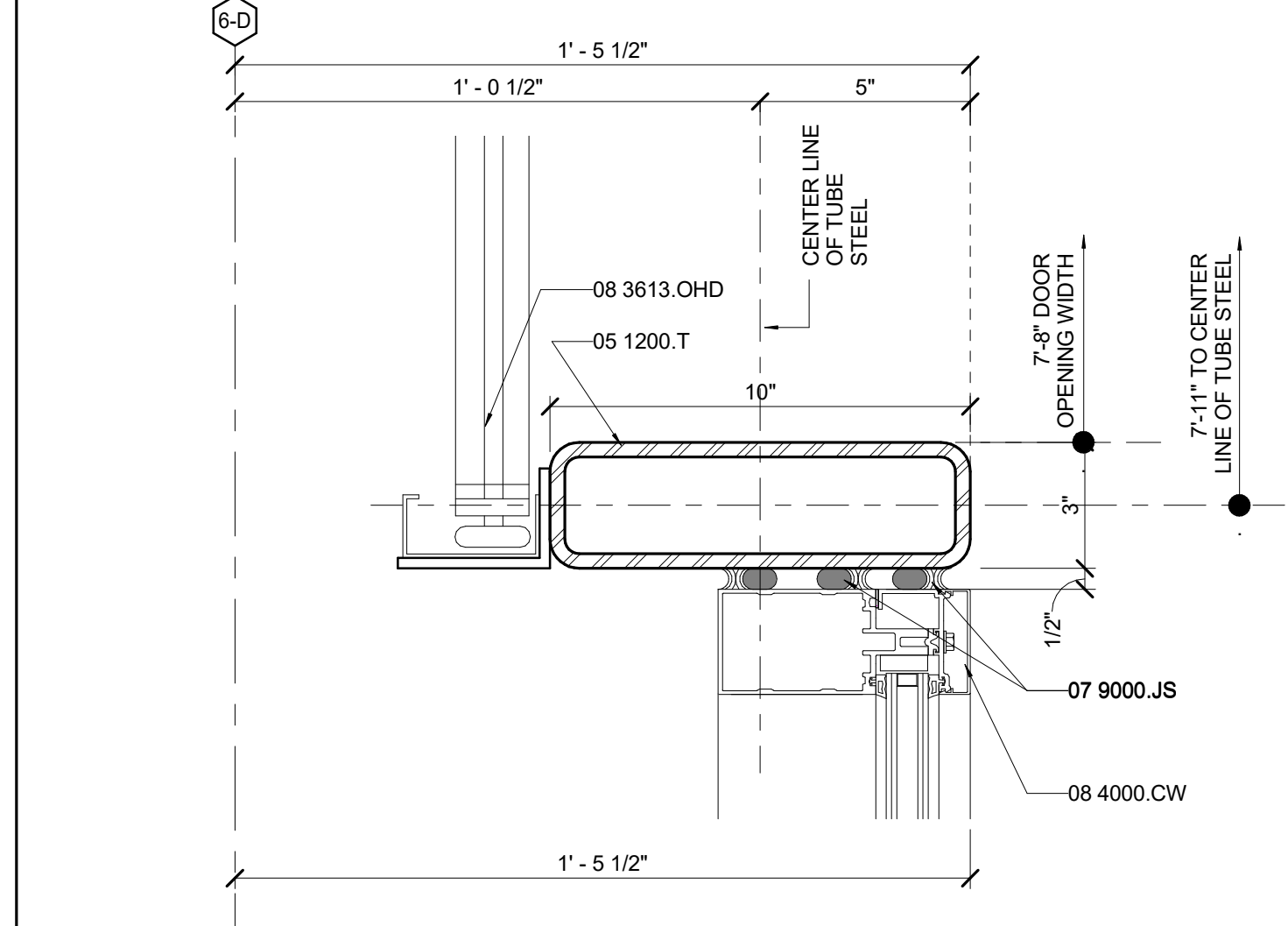
**F9** OVERHEAD DOOR HEAD  
0 6 12 IN



**D9** OVERHEAD DOOR BASE  
0 6 12 IN



**A1** OVERHEAD DOOR JAMB AT FC  
0 6 12 IN



**A8** OVERHEAD DOOR JAMB AT CURTAIN WALL  
0 6 12 IN

**MATERIAL KEYNOTES**

05 1200.T	Steel Tube
05 4000.MS	Metal Stud Framing
06 1000.PW12S	1/2" Plywood Sheathing
06 1800.P5G	5/8" Gypsum Sheathing
07 2100.B	Batt Insulation
07 2100.P1	1" Polyisocyanurate Insulation
07 2510.WRB	Weather-Resistant Barrier
07 4646.FCP	Fiber Cement Panel
07 4646.PT	Panel Trim
07 9000.JS	Joint Sealant
08 3613.OHD	Overhead Sectional Door
08 4000.BT	Aluminum Break Metal Trim/Flashing
08 4000.C	Clip
08 4000.CW	Curtainwall
09 2116.GW	Gypsum Wallboard
09 9600.HPC1	High Performance Color 1
10 7316.MC	Metal Canopy
32 1400.CP	Concrete Paver

**GENERAL NOTES**

**SHEET SPECIFIC NOTES**

KEY PLAN

ISSUE DATE: 04/30/2018

JOB NO: 10130-02

DWG NO: A225

PROJECT NORTH

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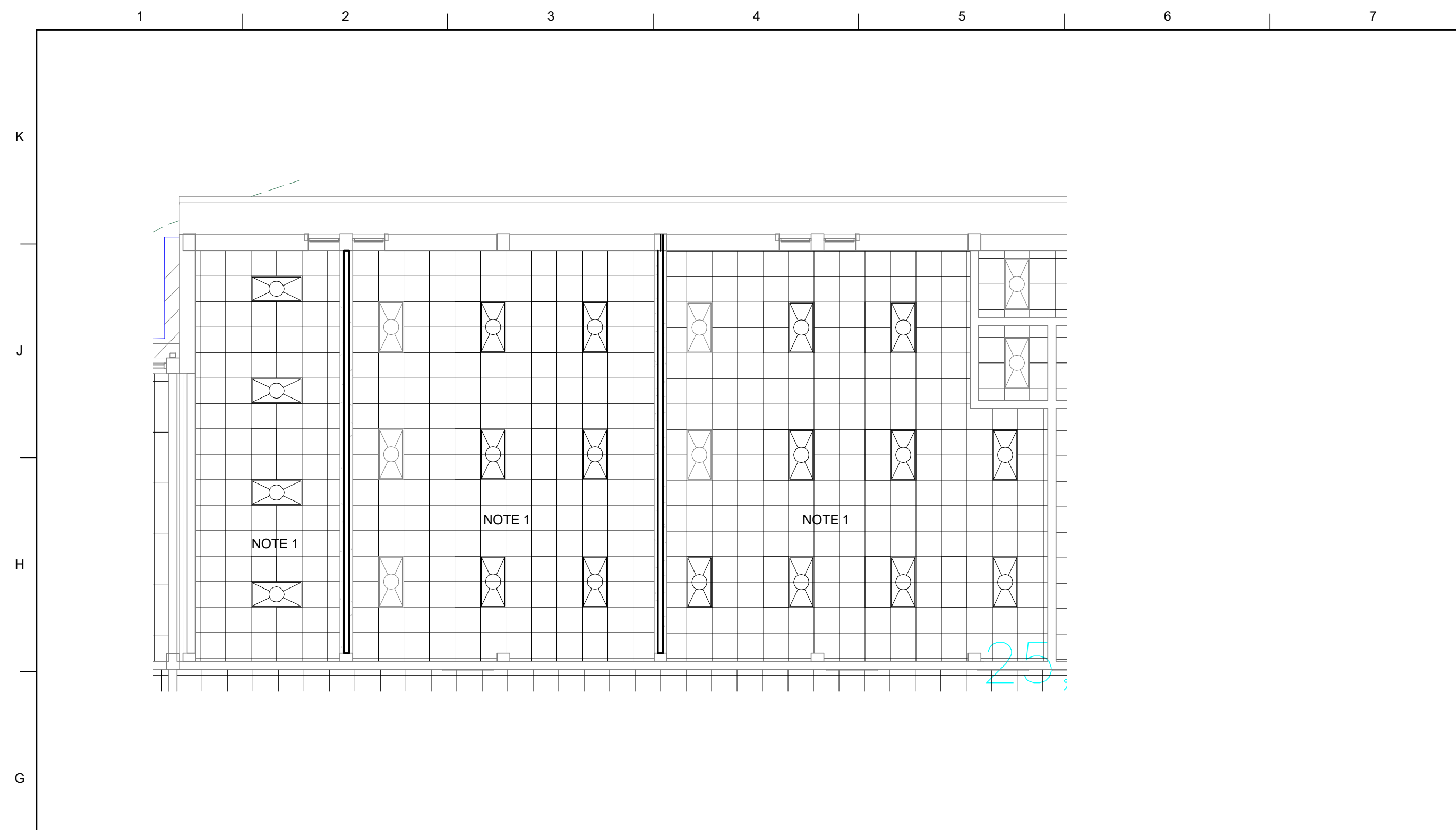
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**WALL SECTION AT OVERHEAD DOOR**

SCALE (IN/FOOT)

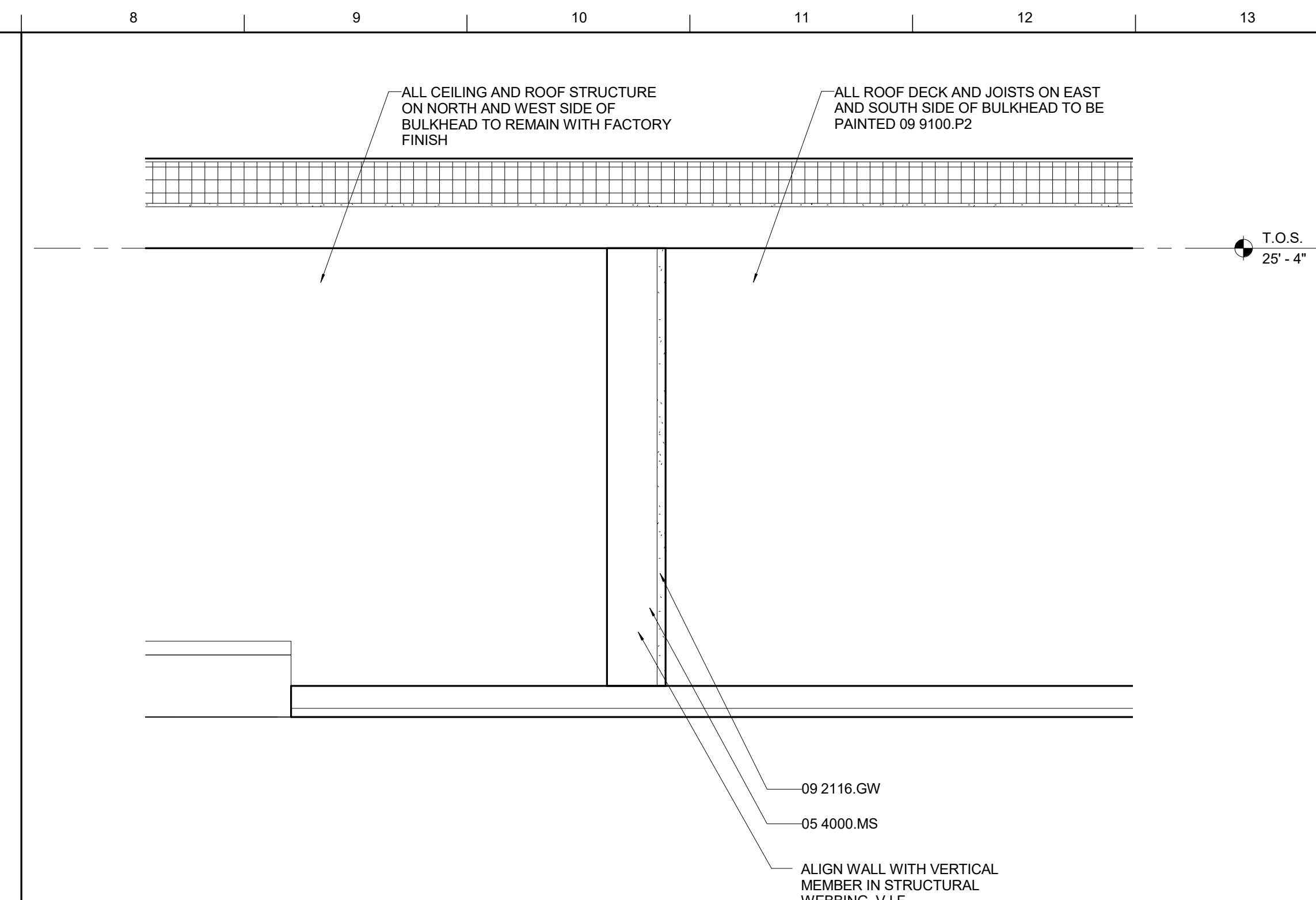
JOB NAME  
The Museum School | Phase 6  
The Museum School at Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter

LOCATION  
823 FORREST BLVD  
DECATUR, GA 30030

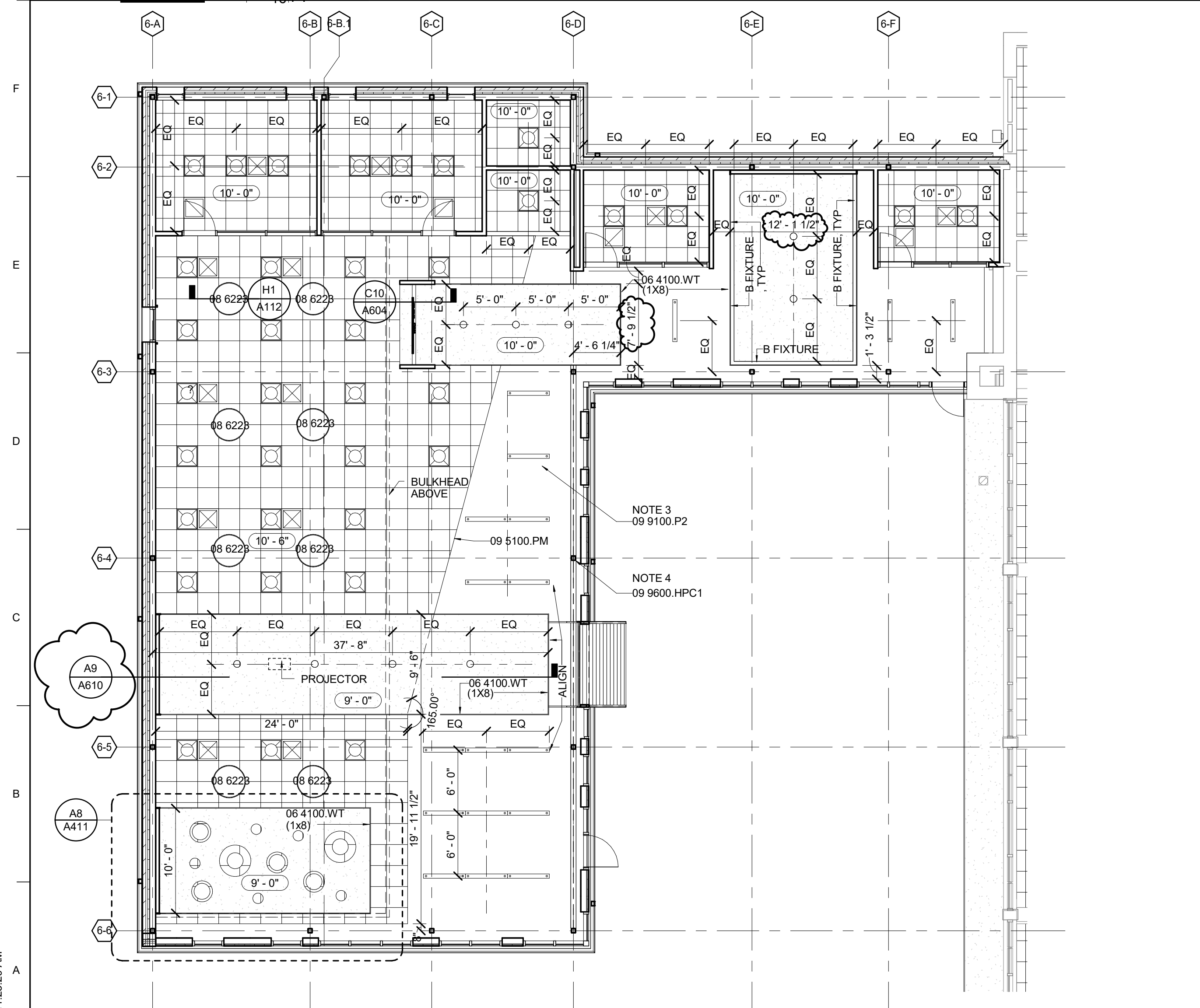
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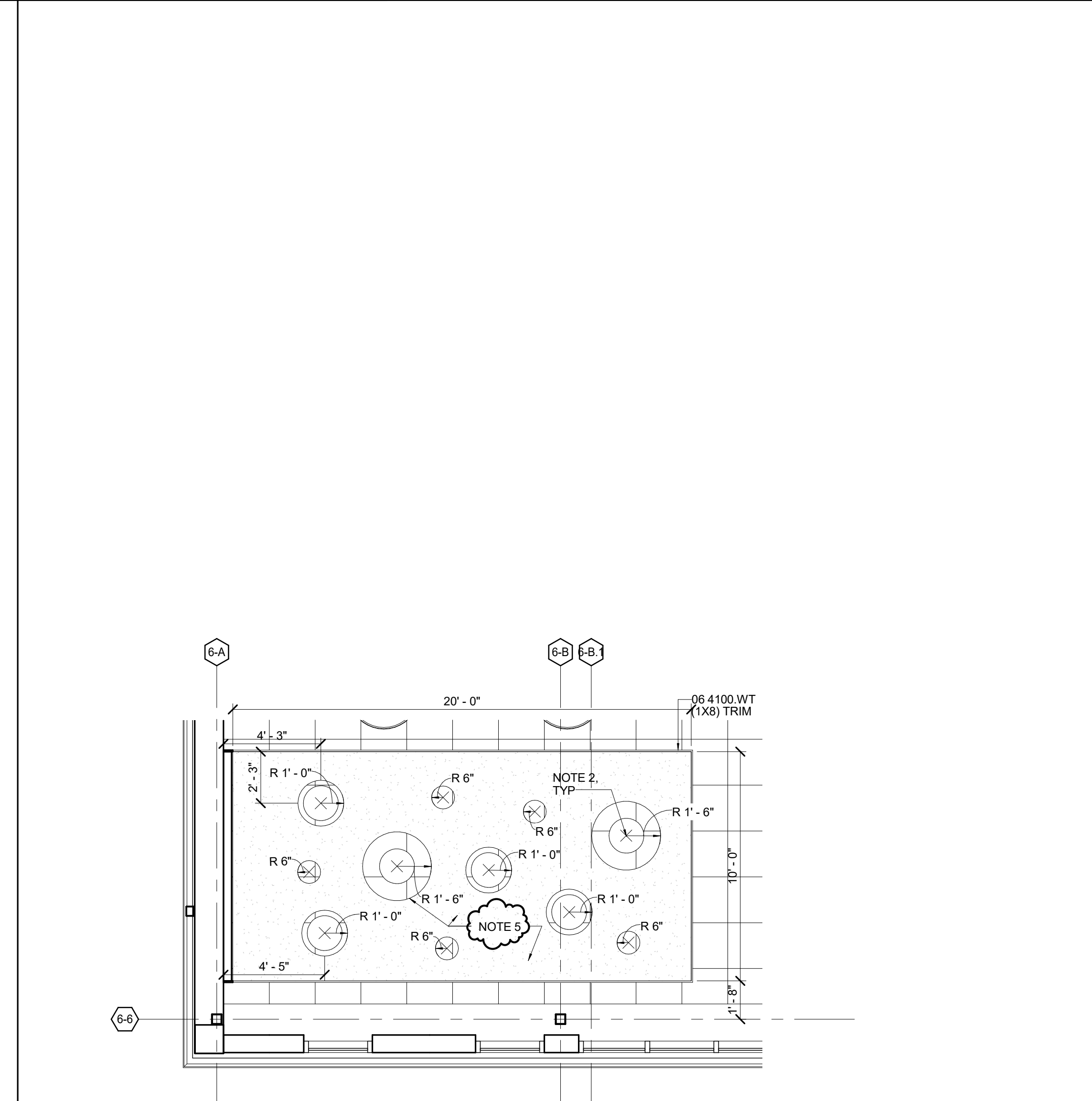
**G1** ENLARGED CLASSROOM RCP  
0 8 16 FT



**G8** ACT BULKHEAD SECTION  
0 8 16 FT



**A1** ENLARGED MEDIA CENTER RCP  
0 8 16 FT



**A8** ENLARGED CEILING PLAN  
0 4 8 FT

**MATERIAL KEYNOTES**

05 4000.MS	Metal Stud Framing
06 4100.WT	Wood Trim
08 6223	Tubular Skylights
09 2116.GW	Gypsum Wallboard
09 5100.AC1	Acoustic Ceiling 1
09 5100.PM	Perimeter Molding
09 9100.P2	Paint Color 2
09 9600.HPC1	High Performance Color 1

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**REVISION:**

1	Add #02	7/31/2018
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**GENERAL NOTES**

**CEILING LEGEND**

- GYPSUM CEILING
- NEW ACT CEILING (09 5100.AC1, U.N.O)
- NO CEILING
- RECESSED DOWNLIGHT
- PENDANT LIGHT
- PENDANT LINEAR LIGHT
- RECESSED LINEAR LIGHT
- LINEAR WALL WASHER
- WALL WASHER
- 2' X 2' GRID LIGHT
- 2' X 2' GRID LIGHT
- 2' X 4' GRID LIGHT
- SOLAR TUBE
- 2' X 2' SUPPLY DIFFUSER
- 2' X 2' RETURN DIFFUSER

**SHEET SPECIFIC NOTES**

- LIGHTING FIXTURE LAYOUT ADJUSTED FROM EXISTING. KEEP SAME FIXTURES.
- CENTER LIGHT FIXTURE IN CEILING CUTOUT
- PAIN EXPOSED ROOF DECK AND JOISTS 09 9100.P2
- PAINT COLUMNS, BEAMS, AND GARAGE DOOR 09 9600.HPC1
- SEE A1/A702 FOR PAINT COLORS OF CEILING AND INSIDE OF CEILING CUTOUT

**JOB NAME:**  
The Museum School | Phase 6  
The Museum School on Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter

**LOCATION:**  
823 FORREST BLVD  
DECATUR, GA 30030

**ISSUE DATE:**  
04/30/2018

**JOB NO.:**  
10130-02

**DWG. NO.:**  
A411

**KEY PLAN**

**SEAL:**

**LORD  
AECK  
SARGENT**

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**REVISION:**

1	Add #02	7/31/2018
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**GENERAL NOTES**

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- PENDANT LIGHT
- PENDANT LINEAR LIGHT
- RECESSED LINEAR LIGHT
- LINEAR WALL WASHER
- WALL WASHER
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- PAINT COLUMNS, BEAMS, AND GARAGE DOOR 09 9600.HPC1
- SEE A1/A702 FOR PAINT COLORS OF CEILING AND INSIDE OF CEILING CUTOUT

**JOB NAME:**  
The Museum School | Phase 6  
The Museum School on Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter

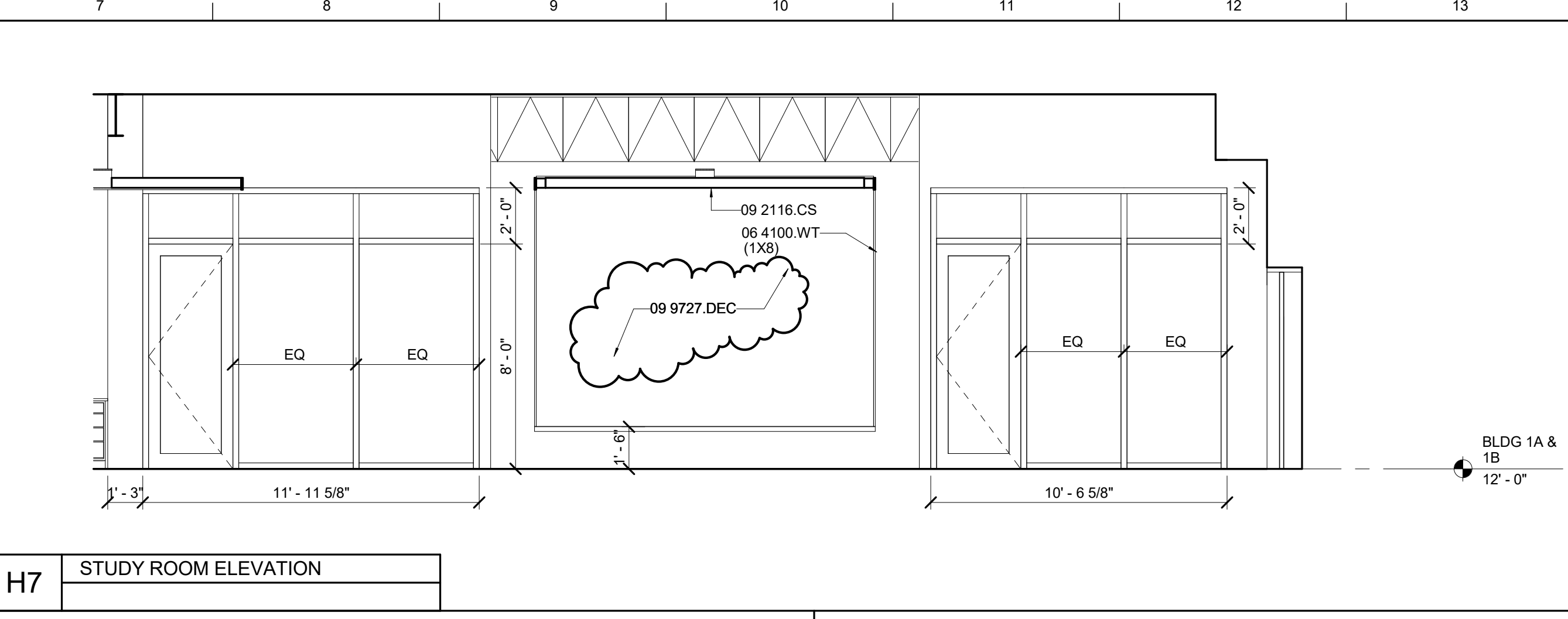
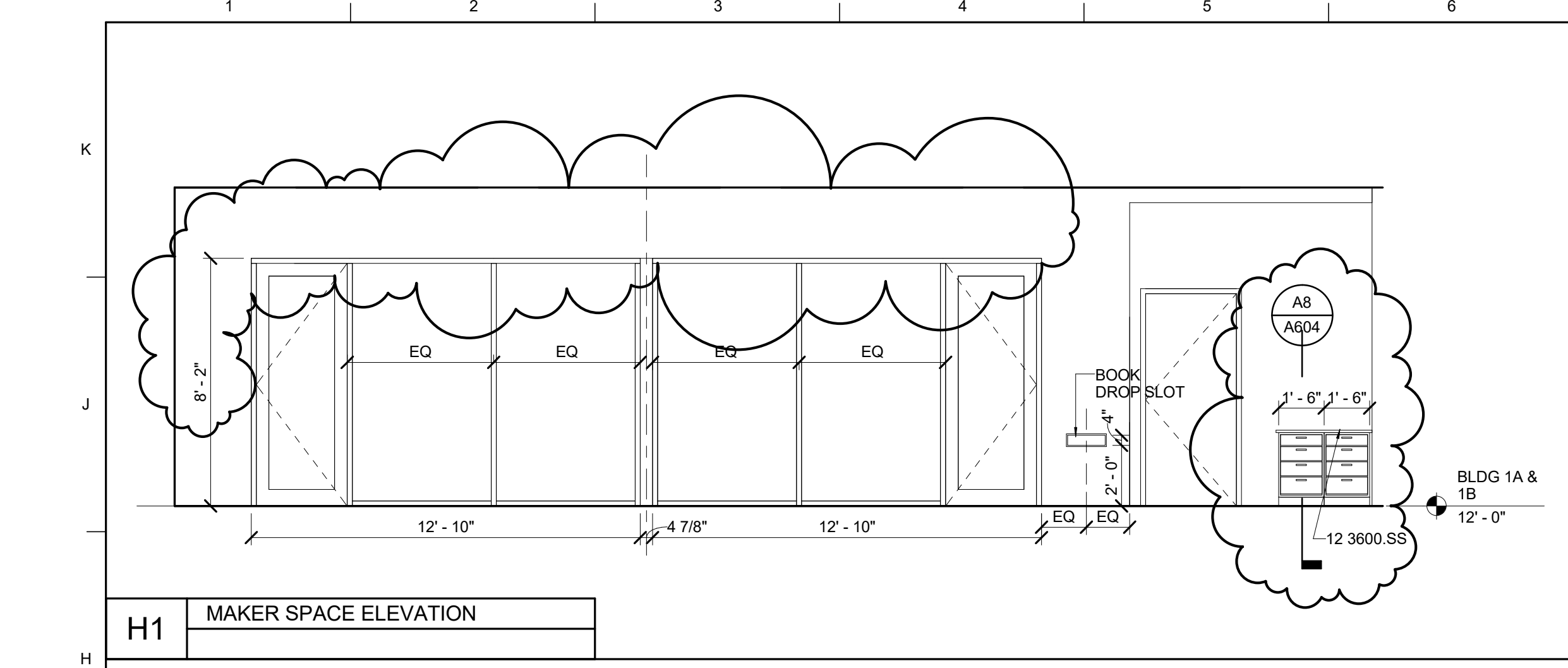
**LOCATION:**  
823 FORREST BLVD  
DECATUR, GA 30030

**ISSUE DATE:**  
04/30/2018

**JOB NO.:**  
10130-02

**DWG. NO.:**  
A411

**FOR CONSTRUCTION**



**MATERIAL KEYNOTES**

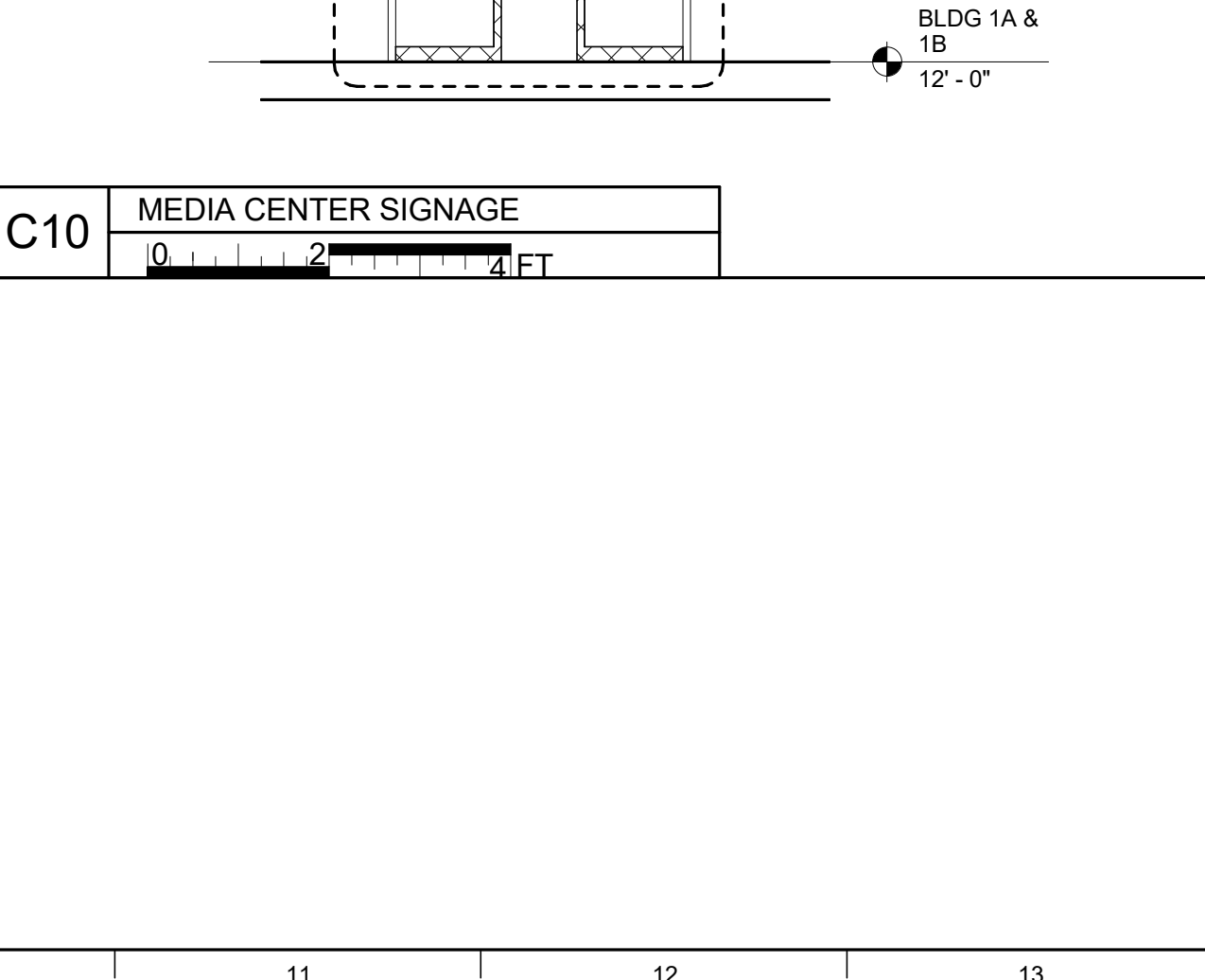
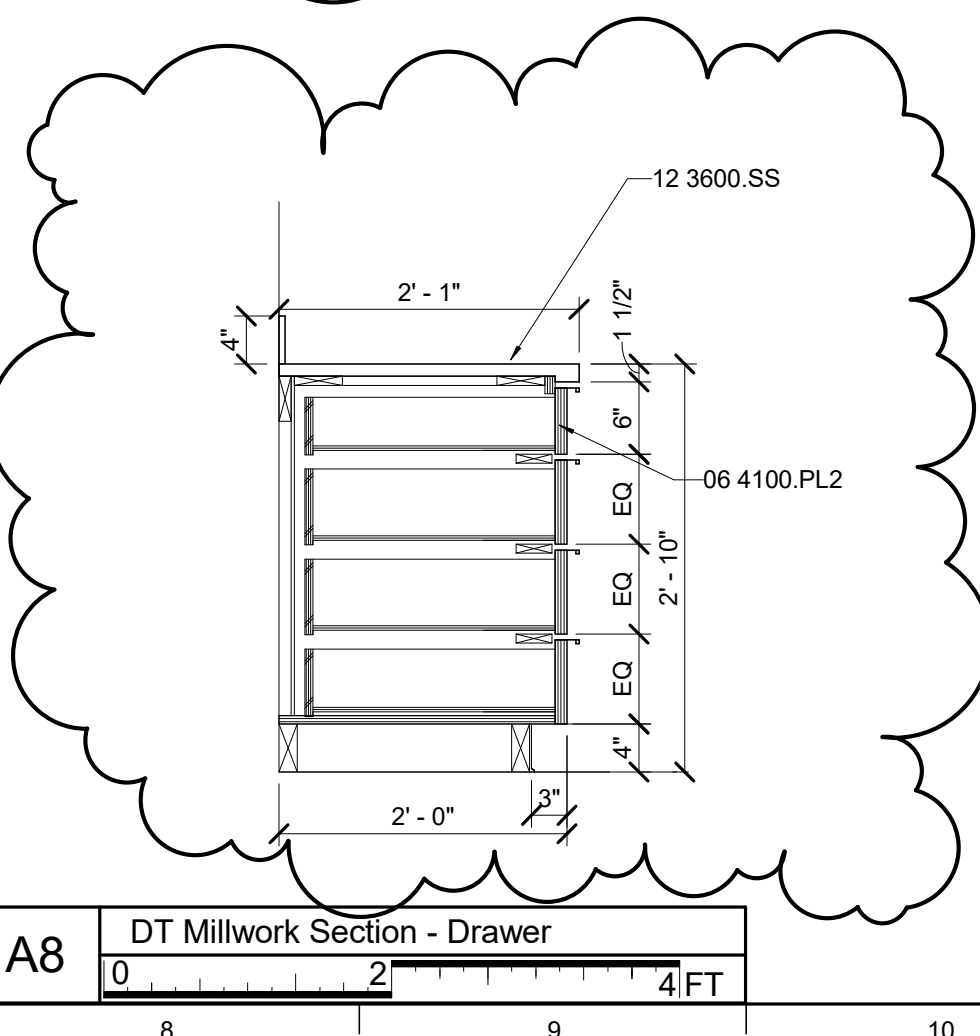
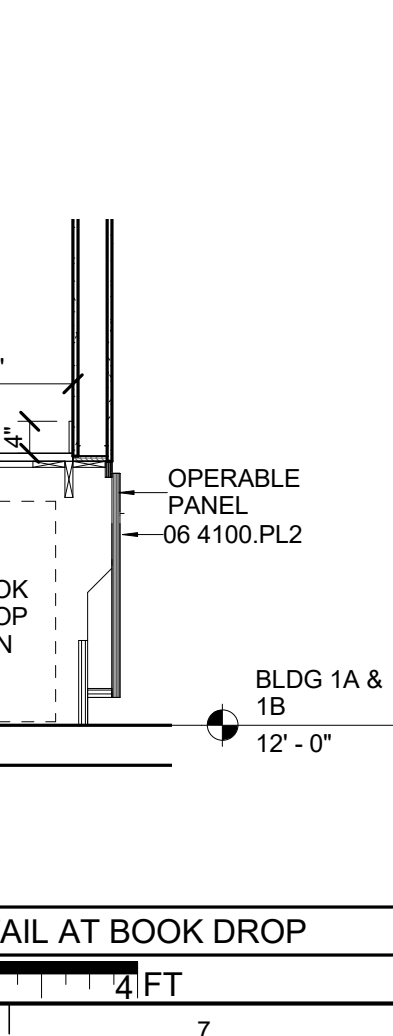
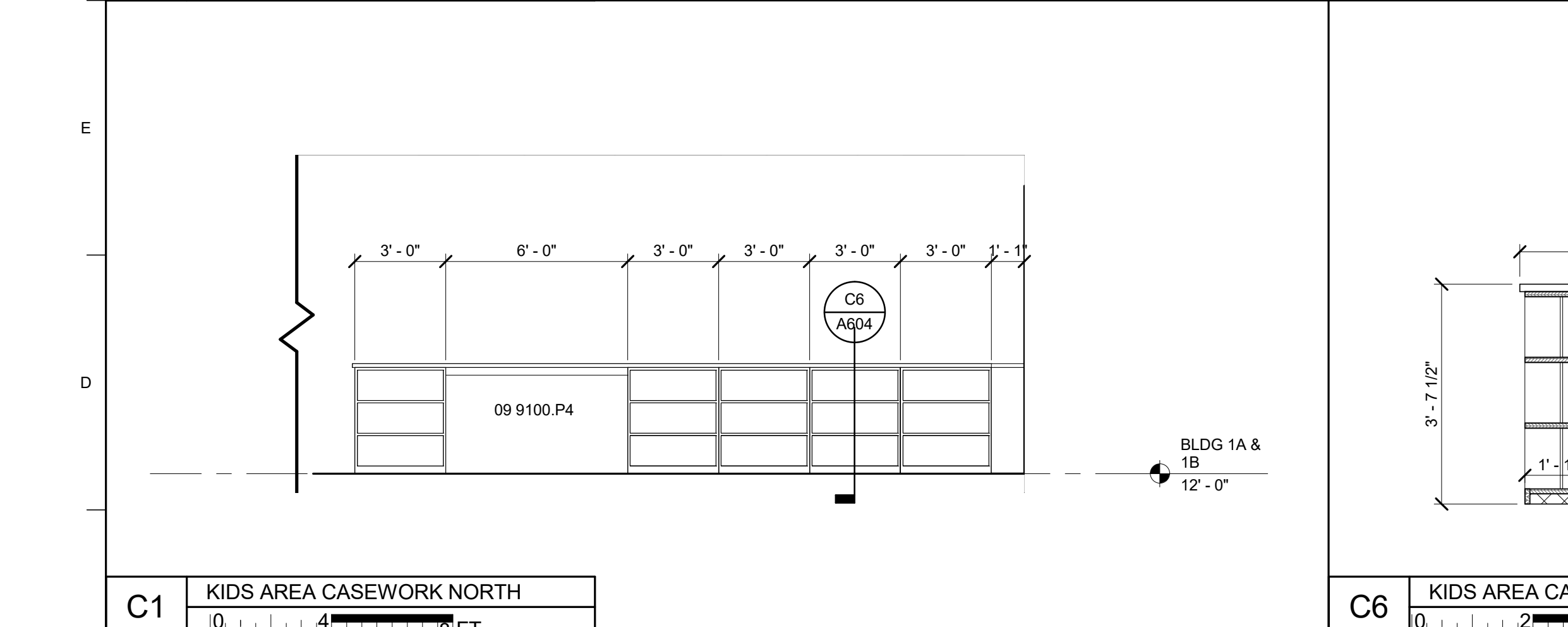
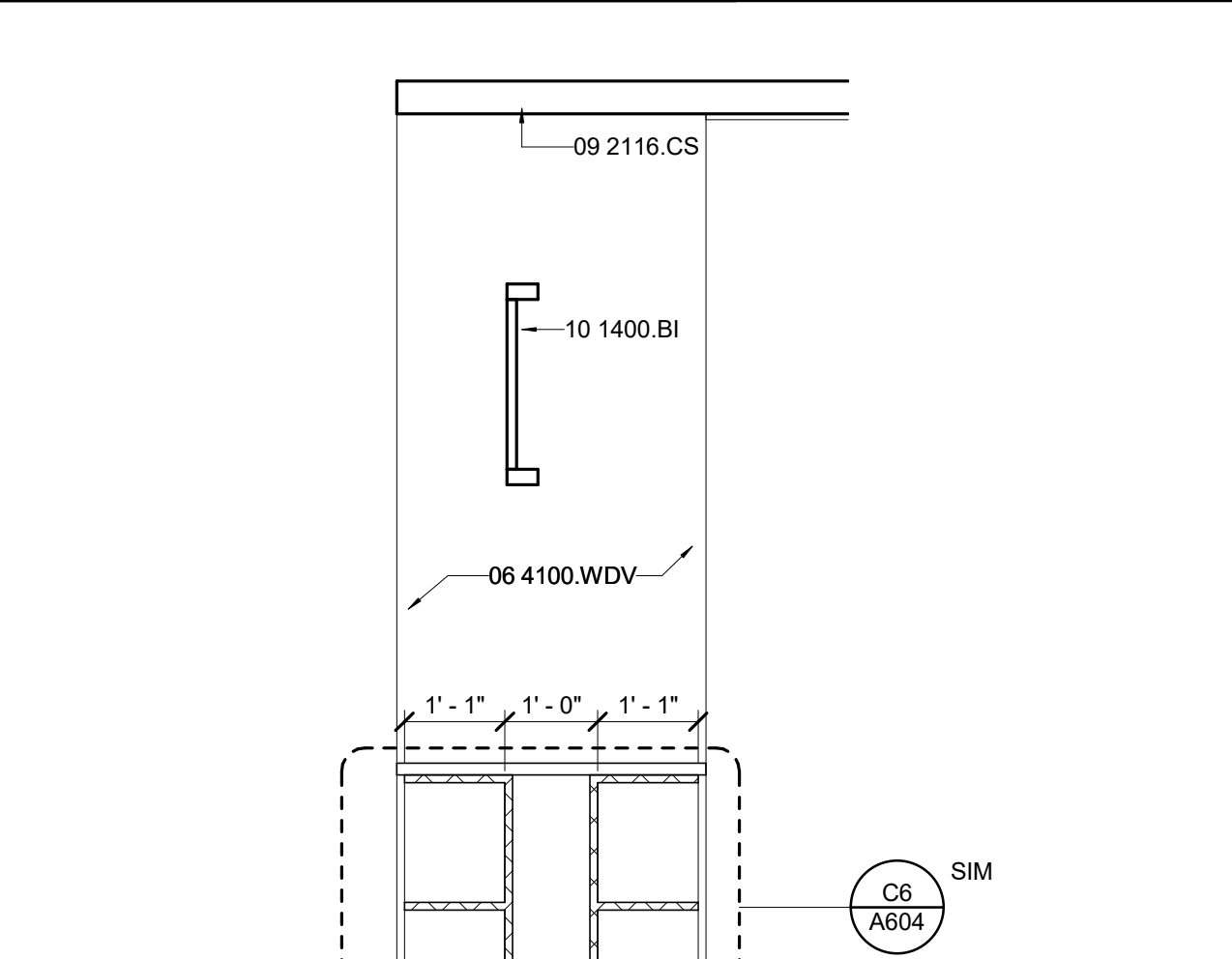
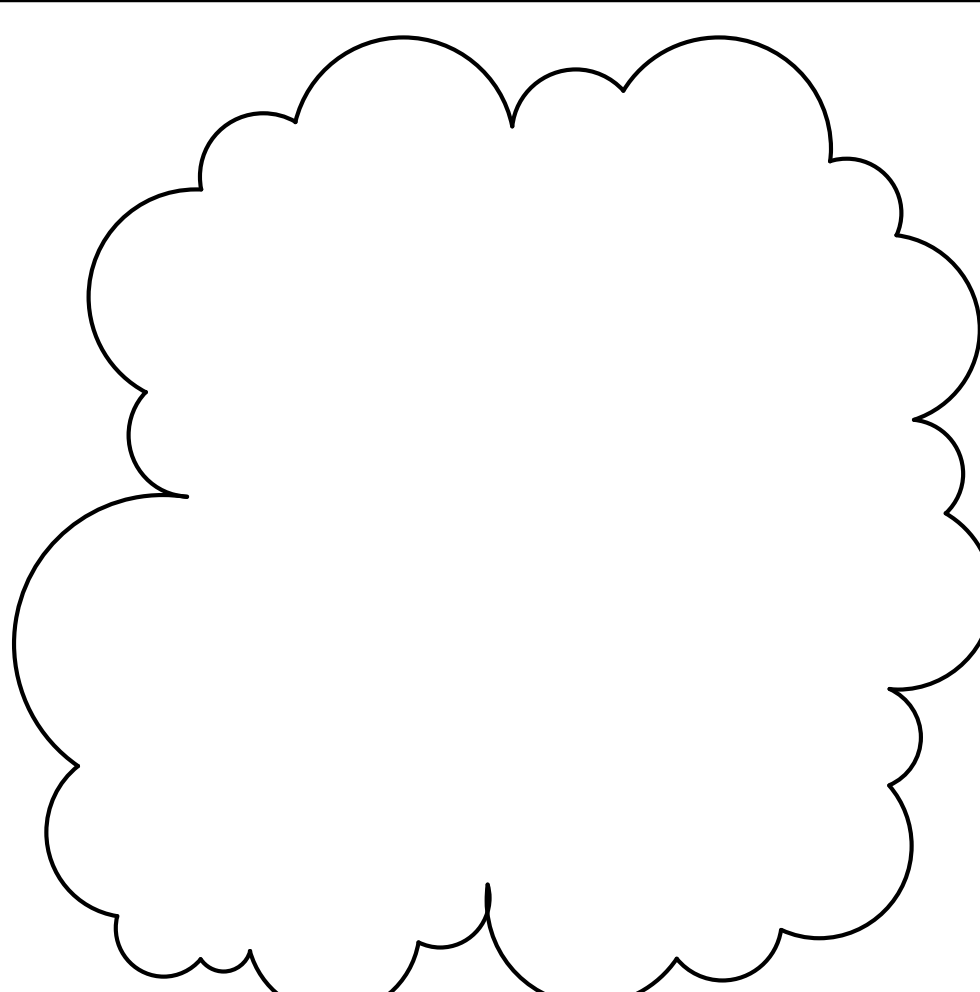
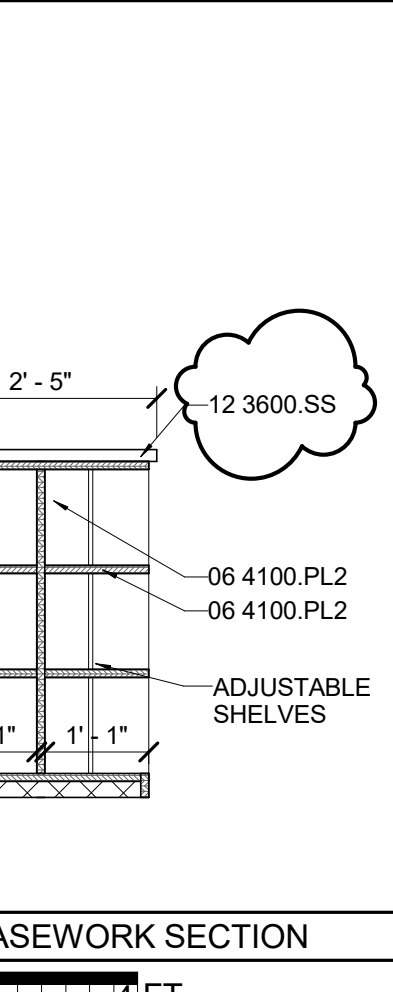
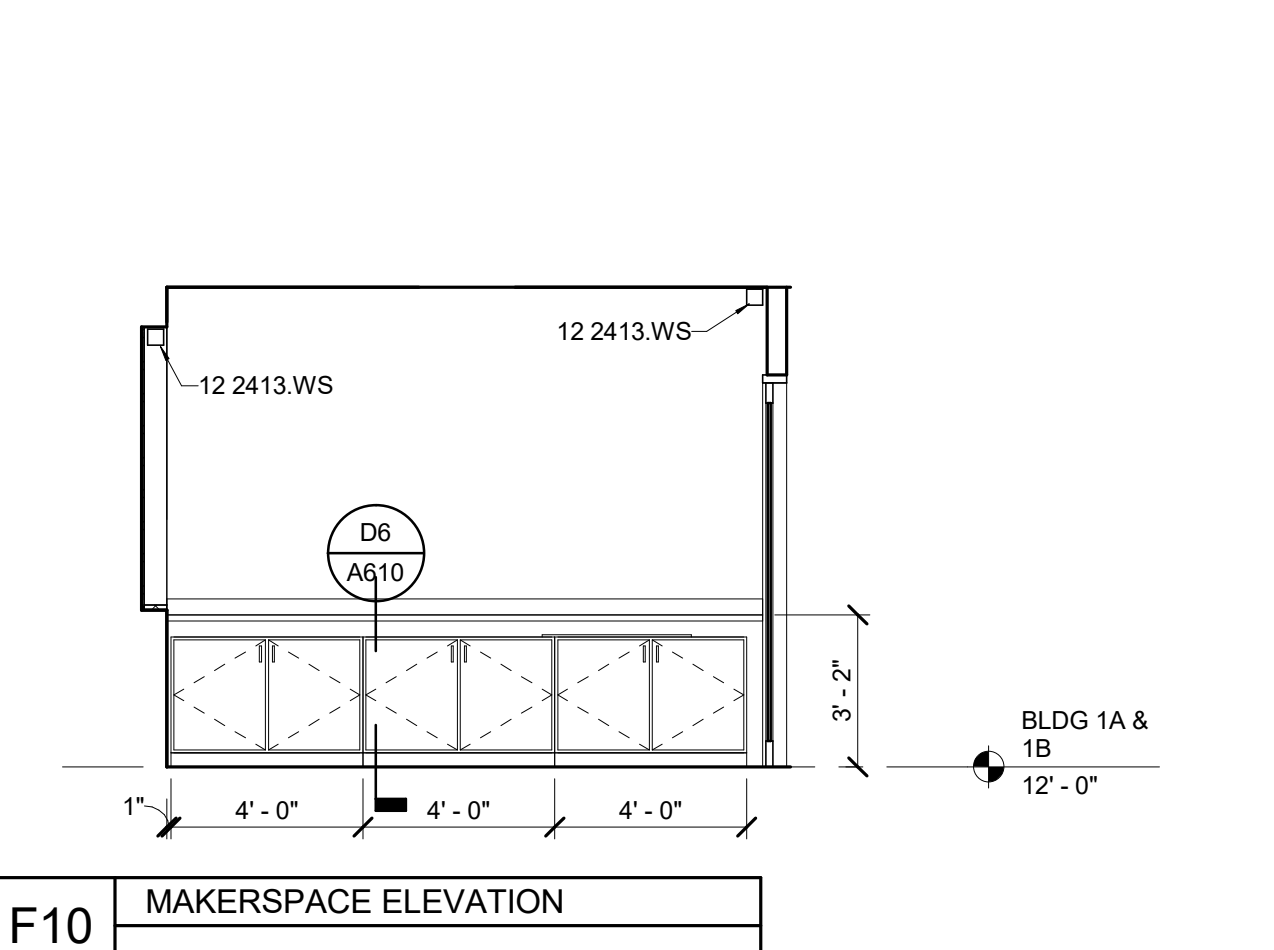
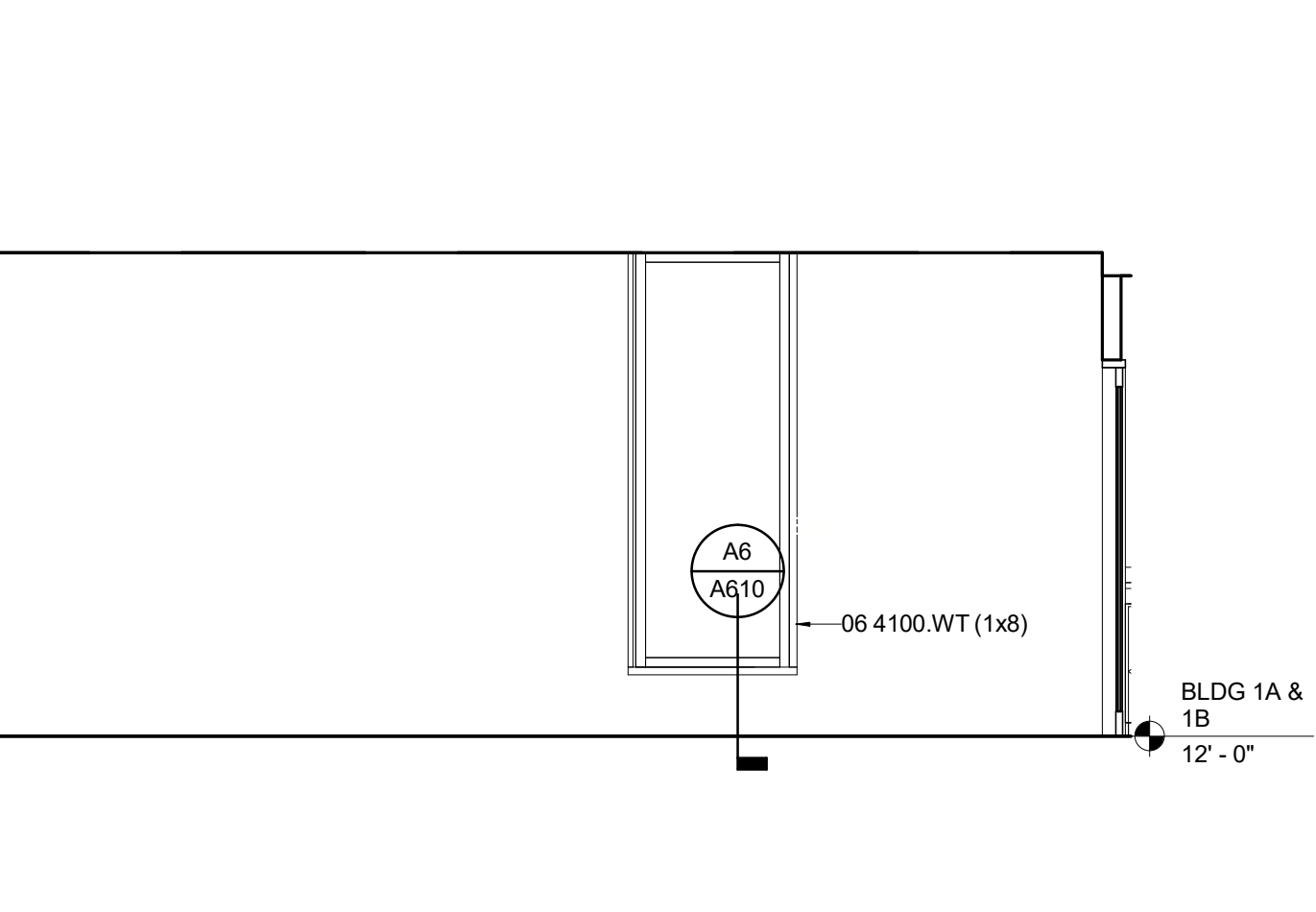
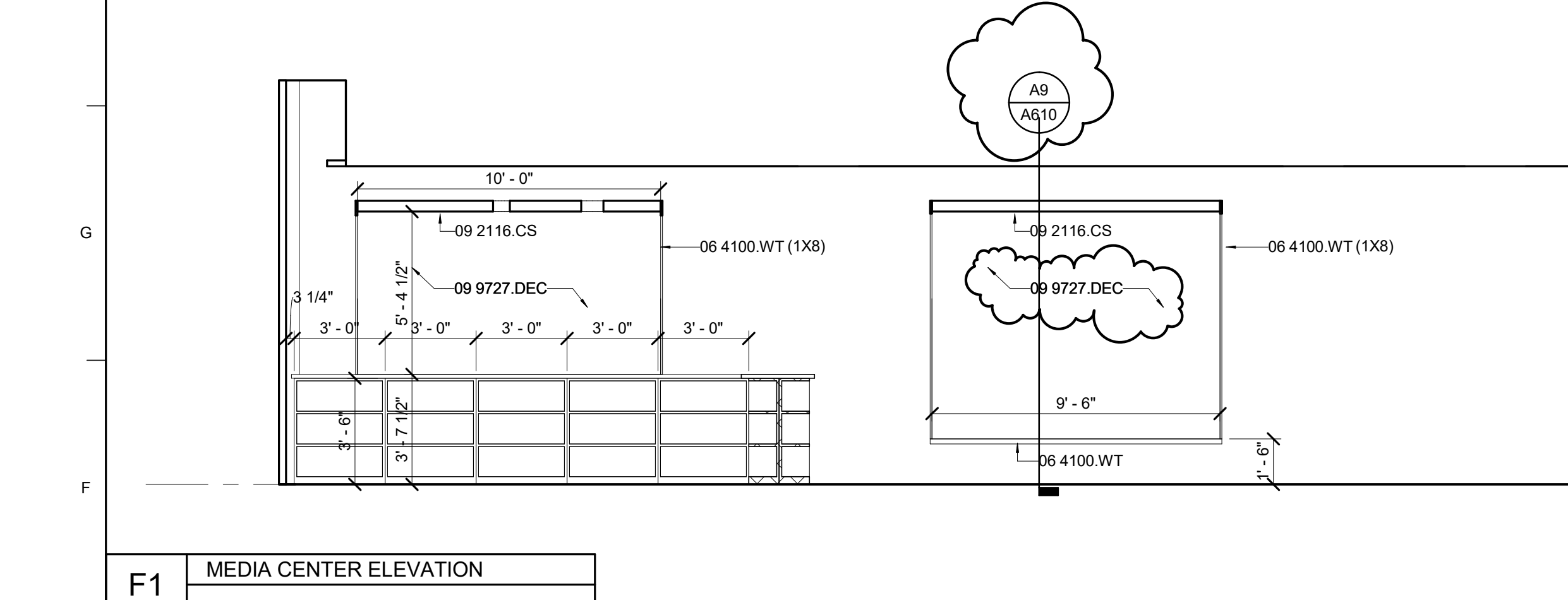
06 4100.PL2	Plastic Laminate 2
06 4100.WDV	Wood Veneer
06 4100.WT	Wood Trim
09 2116.CS	Interior Gypsum Ceiling/Soffit
09 9100.P4	Paint Color 4
09 9727.DEC	Dry Erase/Magnetic Coating System
10 1400.BI	Building Identification Signage
12 2413.WS	Window Shade
12 3600.SS	Solid Surface

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REVISION:  
1 Add #02 7/31/2018



**GENERAL NOTES**

**SHEET SPECIFIC NOTES**

**INTERIOR ELEVATIONS AND DETAILS**

SCALE (IN/FT)  
0 4 8 FT

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8/1/2018 11:25:32 AM

JOB NAME  
The Museum School | Phase 6  
The Museum School of Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter

LOCATION  
823 FORREST BLVD  
DECATUR, GA 30030

ISSUE DATE  
04/30/2018

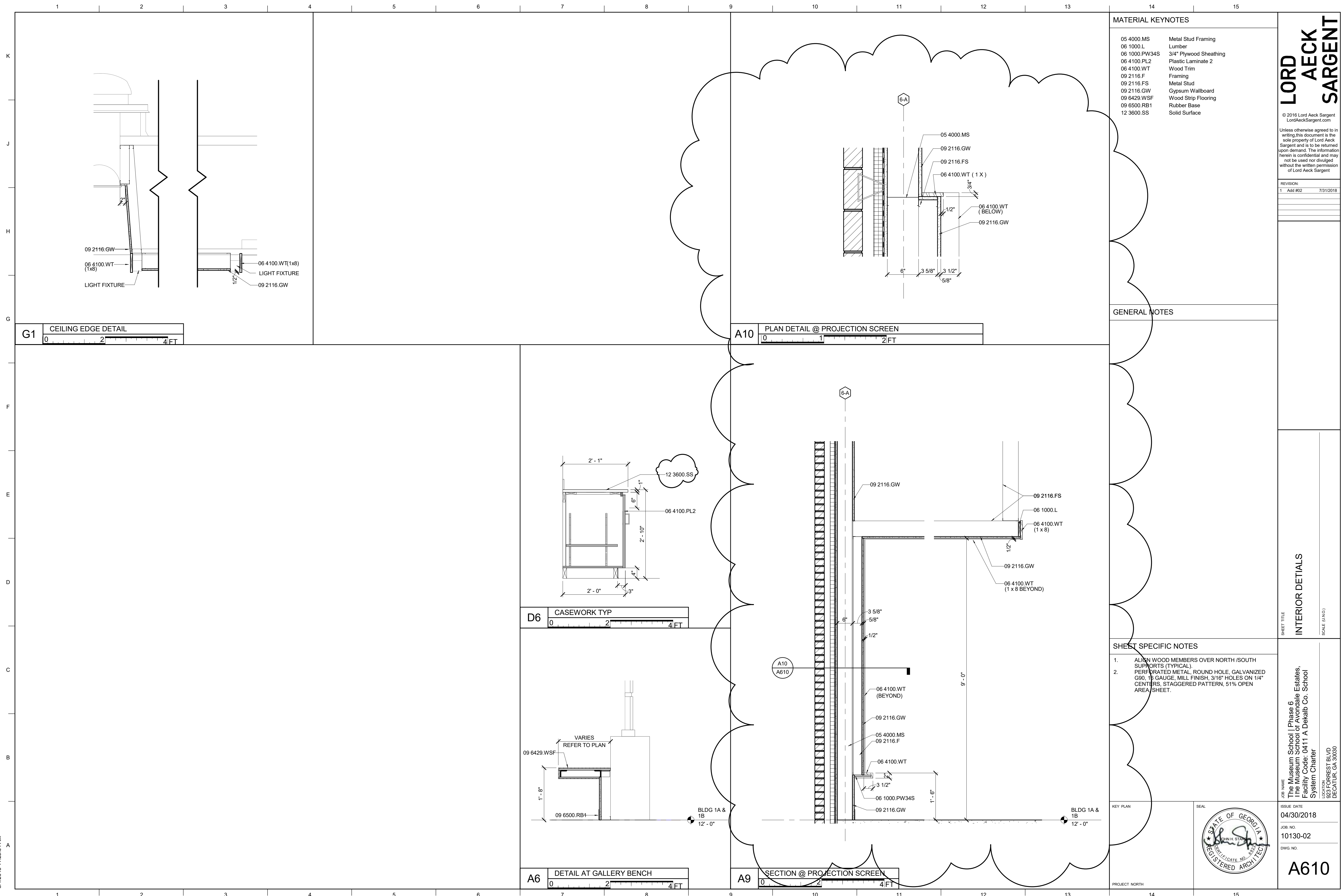
JOB NO.  
10130-02

DWG. NO.  
A604

STATE OF GEORGIA  
REGISTERED ARCHITECT

FOR CONSTRUCTION





**MATERIAL KEYNOTES**

05 4000.MS	Metal Stud Framing
06 1000.L	Lumber
06 1000.PW34S	3/4" Plywood Sheathing
06 4100.PL2	Plastic Laminate 2
06 4100.WT	Wood Trim
09 2116.F	Framing
09 2116.FS	Metal Stud
09 2116.GW	Gypsum Wallboard
09 6429.WSF	Wood Strip Flooring
09 6500.RB1	Rubber Base
12 3600.SS	Solid Surface

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**REVISION:**

1	Add #02	7/31/2018
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**GENERAL NOTES**

- SHEET SPECIFIC NOTES**
- ALIGN WOOD MEMBERS OVER NORTH/SOUTH SUPPORTS (TYPICAL).
  - PERFORATED METAL, ROUND HOLE, GALVANIZED G80, 1/8" GAUGE, MILL FINISH, 3/16" HOLES ON 1/4" CENTERS, STAGGERED PATTERN, 51% OPEN AREA SHEET.

**KEY PLAN**

PROJECT NORTH

SEAL

**ISSUE DATE:** 04/30/2018  
**JOB NO.:** 10130-02  
**DWG. NO.:** A610

**SHEET TITLE**  
INTERIOR DETAILS  
SCALE (UNO)

**JOB NAME**  
The Museum School | Phase 6  
The Museum School at Avondale Estates,  
Facility Code: 0411 A Detail Co. School  
System Charter

**LOCATION**  
823 FORREST BLVD  
DECATUR, GA 30030

**FOR CONSTRUCTION**

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8/1/2018 11:25:35 AM

033550- Stained Concrete	Manufacturer & Product	Product	Color	Finish	Remarks
<del>066550-OF1 Concrete Stain</del>	<del>To match existing</del>	<del>To match existing</del>	<del>To match existing</del>	<del>To match existing</del>	
064100- Custom Cabinets and Woodwork Laminate	Manufacturer & Product	Product	Color	Finish	Remarks
<del>064100.PL1 Plastic Laminate 1</del>	<del>Formica</del>	<del>999-SP</del>	<del>Flamy Grid</del>	<del>Matte</del>	<del>Classroom Cabinetry</del>
064100.PL2 Plastic Laminate 2	Formica	927-SP	Folkstone	Sculpted	Classroom Cabinetry
<del>064100.PL3 Plastic Laminate 3</del>	<del>Formica</del>	<del>459-SP</del>	<del>Drift White</del>	<del>Matte</del>	
064100- Custom Cabinets and Woodwork	Species	Grade	Cut	Finish	Remarks
<del>064100.WDV Wood Veneer</del>	<del>Red Oak</del>	<del>Grade A</del>	<del>Plain Sliced</del>	<del>Satin</del>	<del>To match Doors</del>
093000- Tile	Manuf.	Product Name & Number	Color	Size	Remarks
<del>093000.T1 Floor Tile</del>	<del>DelTile</del>	<del>Keystone Mosaic</del>	<del>Castlesch D618</del>	<del>2" x 2"</del>	<del>Epoxy Grout</del>
<del>093000.T2 Wall Tile</del>	<del>DelTile</del>	<del>Rittenhouse</del>	<del>Arctic White</del>	<del>2" x 6"</del>	<del>Border source install with bullnose top cap 48" AFF</del>
<del>093000.T3 Tile Base</del>	<del>DelTile</del>	<del>Rittenhouse</del>	<del>Arctic White</del>	<del>6" x 8" Cove Base</del>	
095100- Suspended Acoustical Ceilings	Manuf.	Panel Name	Panel Size/Color	Grid Name	Remarks
095100.AC1 Acoustical Ceiling 1	Armstrong	Georgian 1752 tegular	24" x 24" / white	Prelude	
<del>095100.AC2 Acoustical Ceiling 2</del>	<del>Armstrong</del>	<del>Georgian 704 lay in</del>	<del>24" x 24" / white</del>	<del>Prelude</del>	<del>Scrubable</del>
096500 - Resilient Flooring	Manuf.	Product Name & Number	Color	Size	Remarks
096500.RB1 Rubber Base 1	Johnsonite	Cove Base	20 Charcoal	4"/ 120" coils	Without pre-formed corners
096500.VCT1 Vinyl Composite Tile 1	Azrock	Textile VCT "Select"	V-280 Raw Silk	12" x 12"	Monolithic Installation
<del>096500.VCT2 Vinyl Composite Tile 2</del>	<del>Mannington</del>	<del>Essentials</del>	<del>409 Stone Grey</del>	<del>12" x 12"</del>	<del>Monolithic installation</del>
096429 - Wood Strip and Plank Flooring	Species	Grade	Size	Finish	Remarks
096429.WSF	Red Oak	Select	5" Wide	Satin	To match Doors
096813 - Carpet	Manuf.	Product Name & Number	Color	Size	Remarks
096813.CPT 1 Carpet Tile 1	Interface	Rags to Riches 23Z 123240250H	7057 Cinder	50cm x 50cm	Existing Admin Suite carpet / to be reused. Ashlar Installation
096813.CPT 2 Carpet Tile 2	Interface	Rags to Riches 23Z 123240250H	7057 Cinder	50cm x 50cm	Ashlar Installation. Reference plan for direction
096813.CPT 3 Carpet Tile 3	Interface	CT102 Common Theme/ 142570250H	103981 Onyx	50cm x 50cm	Ashlar Installation. Reference plan for direction
<del>096813.CPT 4 Carpet Tile 4</del>	<del>Interface</del>	<del>Bevo Rib 92894</del>	<del>092874 Anthracite</del>	<del>50cm x 50cm</del>	<del>Walk off Mat</del>
097200 - Tackable Wall Covering	Manuf.	Product	Color	Size	Remarks
<del>097200.TWC1 Tackable Wallcovering 1</del>	<del>Kerocoat</del>	<del>Wallcover/ ToolWall</del>	<del>02 Quamy</del>	<del>4" wide x 66" tall 1/4" thick</del>	<del>Grey</del>
<del>097200.TWC2 Tackable Wallcovering 2</del>	<del>Kerocoat</del>	<del>Wallcover/ ToolWall</del>	<del>07 Sandalwood</del>	<del>Reference Elevations</del>	<del>Beige</del>
<del>097200.TWC3 Tackable Wallcovering 3</del>	<del>Kerocoat</del>	<del>Wallcover/ ToolWall</del>	<del>04 Stone</del>	<del>Reference Elevations</del>	<del>Charcoal</del>
<del>097200.TWC4 Tackable Wallcovering 4</del>	<del>Kerocoat</del>	<del>Wallcover/ ToolWall</del>	<del>12 Botanical</del>	<del>Reference Elevations</del>	<del>Green</del>
099000 - Painting	Manuf.	Color Name	Color Number	Color	Remarks
099100.P1 Paint Color 1	ICI	Obsidian Glass	A2014/00NN 13/000	Charcoal	Door frames and all metal painted surfaces
099100.P2 Paint Color 2	Benjamin Moore	Timber Wolf	1600	Light Grey	Interior Accent/ Metal Decking and Steel Joist
099100.P3 Paint Color 3	ICI	Shaded Ice	L0161/30GG 72/008	White	Standard Wall paint color

099100.P4 Paint Color 4	ICI	Blue Chip	A1302/60BG 17/341	Blue	Accent
099100.P5 Paint Color 5	ICI	Apple Green	A0959/90YY/48/650	Green	Accent
099100.P6 Paint Color 6	ICI	Omega Yellow	A0775/37YY/61/867	Yellow	Accent
099100.P7 Paint Color 7	TBD	To Match Ceiling Tile	Custom	Ceiling White	Ceilings and Soffits
<del>099100.P8 Paint Color 8</del>	<del>TBD</del>	<del>To Match</del>	<del>Custom</del>	<del>Ceiling White</del>	
099600 - High Performance Coating	Manuf.	Color Name	Color Number	Color	Remarks
099600.HPC1 High Performance Color 1	To Match ICI	Obsidian Glass	L2014/00NN 13/000	Charcoal	Railings & AESS (Columns and Beams)
099737 - Dry Erase Coating	Manuf.	Color Name	Color Number	Color	Remarks
099737.DEC Dry Erase coating	IdeaPaint	Create Clear	NA	Clear	
122113 Horizontal Blinds	Manuf.	Product	Size	Finish	Remarks
122113.HB1.HB1 Horizontal Blinds 1	To match existing	To match existing	To match existing	To match existing	

MATERIAL KEYNOTES

GENERAL NOTES

SHEET SPECIFIC NOTES

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REVISION:

1	Add R02	7/31/2018
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SHEET TITLE  
**FINISH LEGEND**  
SCALE (IN/1)

JOB NAME  
The Museum School | Phase 6  
The Museum School on Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter  
LOCATION  
823 FORREST BLVD  
DECATUR, GA 30030

KEY PLAN

ISSUE DATE  
04/30/2018

JOB NO.  
10130-02

DWG. NO.  
**A700**

PROJECT NORTH

SEAL  
STATE OF GEORGIA  
ARCHITECT  
REGISTERED ARCHITECT  
DATE: 04/30/2018

**FOR CONSTRUCTION**



1.1 Description

- A. General: The control system shall consist of a high-speed, peer-to-peer network of DDC controllers.
B. System shall be by CCI, the current system provider for the Owner, under this contract.
C. Coordinate installation of mechanical systems with controls interface, including integrated control boards and components within RTU and Terminal Units.
D. CCI shall provide a complete system of controls to enact the sequence of operation, and interface to the Owner's existing control system.

3.1 Smoke Damper Installation

- A. The contractor shall coordinate all smoke and smoke/fire damper installation, wiring, and checkout to ensure that these dampers function properly and that they respond to the proper fire alarm system general, zone, and/or detector trips.
B. Provide complete submittal data to controls system subcontractor for coordination of duct smoke detector interface to HVAC systems.

3.2 Duct Smoke Detection

- A. Submit data for coordination of duct smoke detector interface to HVAC systems
B. This Contractor shall provide a dry-contact alarm output in the same room as the HVAC equipment to be controlled.

3.3 Variable Air Volume - RTU-1

Run Conditions - Requested:
The unit shall run whenever:

- Any zone is occupied.
OR a definable number of unoccupied zones need heating or cooling.

Freeze Protection:
The unit shall shut down and generate an alarm upon receiving a freezestat status.

High Static Shutdown:
The unit shall shut down and generate an alarm upon receiving an high static shutdown signal.

Supply Air Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a supply air smoke detector status.

Supply Fan:
The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime.

- Supply Fan Failure: Commanded on, but the status is off.
Supply Fan in Hand: Commanded off, but the status is on.
Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.).

Supply Air Duct Static Pressure Control:
The controller shall measure duct static pressure and modulate the supply fan VFD speed to maintain a duct static pressure setpoint. The speed shall not drop below 30% (adj.). The static pressure setpoint shall be reset based upon the position of the zone dampers, with a goal of reducing the static pressure until at least one zone damper is nearly wide open.

- The initial duct static pressure setpoint shall be 1.5in H2O (adj.).
If no zone damper is nearly wide open, the setpoint shall incrementally reset down to a minimum of 1.3in H2O (adj.).
As one or more dampers nears the wide open position, the setpoint shall incrementally reset up to a maximum of 1.8in H2O (adj.).

- High Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) greater than setpoint.
Low Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) less than setpoint.
Supply Fan VFD Fault.

Supply Air Temperature Setpoint - Optimized:
The controller shall monitor the supply air temperature and shall maintain a supply air temperature setpoint reset based on zone cooling and heating requirements

The supply air temperature setpoint shall be reset for cooling based on zone cooling requirements as follows:

- The initial supply air temperature setpoint shall be 55°F (adj.).
As cooling demand increases, the setpoint shall incrementally reset down to a minimum of 53°F (adj.).
As cooling demand decreases, the setpoint shall incrementally reset up to a maximum of 72°F (adj.).
If more zones need heating than cooling, then the supply air temperature setpoint shall be reset for heating as follows:
The initial supply air temperature setpoint shall be 82°F (adj.).
As heating demand increases, the setpoint shall incrementally reset up to a maximum of 85°F (adj.).
As heating demand decreases, the setpoint shall incrementally reset down to a minimum of 72°F (adj.).

Cooling Stages:
The controller shall measure the supply air temperature and stage the cooling to maintain its cooling setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.

- The cooling shall be enabled whenever:
Outside air temperature is greater than 60°F (adj.).
AND the economizer (if present) is disabled or fully open.
AND the supply fan status is on.
AND the heating (if present) is not active.

- Alarms shall be provided as follows:
High Supply Air Temp: If the supply air temperature is 5°F (adj.) greater than setpoint.

Gas Heating Stages:
The controller shall measure the supply air temperature and stage the heating to maintain its heating setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.

- The heating shall be enabled whenever:
Outside air temperature is less than 65°F (adj.).
AND the supply fan status is on.
AND the cooling (if present) is not active.

- The heating stages shall run for freeze protection whenever:
Supply air temperature drops from 40°F to 35°F (adj.).
AND the supply fan status is on.

- Alarms shall be provided as follows:
Low Supply Air Temp: If the supply air temperature is 5°F (adj.) less than setpoint.

Economizer:
The controller shall measure the mixed air temperature and modulate the economizer dampers in sequence to maintain a setpoint 2°F (adj.) less than the supply air temperature setpoint. The outside air dampers shall maintain a minimum adjustable position of 20% (adj.) open whenever occupied.

- The economizer shall be enabled whenever:
Outside air temperature is less than 65°F (adj.).
AND the outside air enthalpy is less than 22Btu/lb (adj.).
AND the outside air temperature is less than the return air temperature.
AND the outside air enthalpy is less than the return air enthalpy.
AND the supply fan status is on.

- The economizer shall close whenever:
Mixed air temperature drops from 40°F to 35°F (adj.).
OR the freezestat (if present) is on.
OR on loss of supply fan status.

The outside and exhaust air dampers shall close and the return air damper shall open when the unit is off. If Optimal Start Up is available the mixed air damper shall operate as described in the occupied mode except that the outside air damper shall modulate to fully closed.

Minimum Outside Air Ventilation - Carbon Dioxide (CO2) Control:
When in the occupied mode, the controller shall measure the return air CO2 concentration and modulate the outside air dampers open on rising CO2 concentrations, overriding normal damper operation to maintain a CO2 setpoint of 750 ppm (adj.).

Mixed Air Temperature:
The controller shall monitor the mixed air temperature and use as required for economizer control (if present) or preheating control (if present).

- Alarms shall be provided as follows:
High Mixed Air Temp: If the mixed air temperature is greater than 90°F (adj.).
Low Mixed Air Temp: If the mixed air temperature is less than 45°F (adj.).

Return Air Carbon Dioxide (CO2) Concentration Monitoring:
The controller shall measure the return air CO2 concentration.

- Alarms shall be provided as follows:
High Return Air Carbon Dioxide Concentration: If the return air CO2 concentration is greater than 1000ppm (adj.) when in the unit is running.

Return Air Humidity:
The controller shall monitor the return air humidity and use as required for economizer control (if present) or humidity control (if present).

- Alarms shall be provided as follows:
High Return Air Humidity: If the return air humidity is greater than 70% (adj.).
Low Return Air Humidity: If the return air humidity is less than 35% (adj.).

Return Air Temperature:
The controller shall monitor the return air temperature and use as required for setpoint control or economizer control (if present).

- Alarms shall be provided as follows:
High Return Air Temp: If the return air temperature is greater than 90°F (adj.).
Low Return Air Temp: If the return air temperature is less than 45°F (adj.).

Supply Air Temperature:
The controller shall monitor the supply air temperature.

- Alarms shall be provided as follows:
High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).
Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.).

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REVISION:
ADD #02 - 7/31/18

MECHANICAL - CONTROLS

SCALE (IN/FT)
1/8" = 1'-0"

PROJECT NORTH

MECHANICAL - CONTROLS

MECHANICAL - CONTROLS

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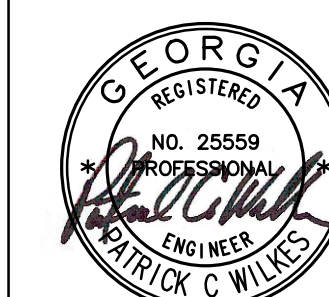
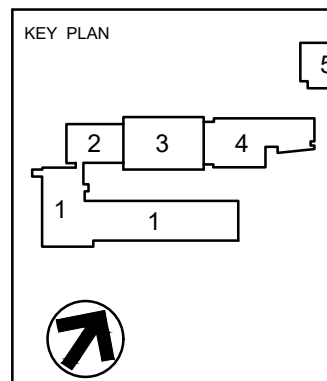
MECHANICAL - CONTROLS

MECHANICAL - CONTROLS

NEW SHEET - ADD.2

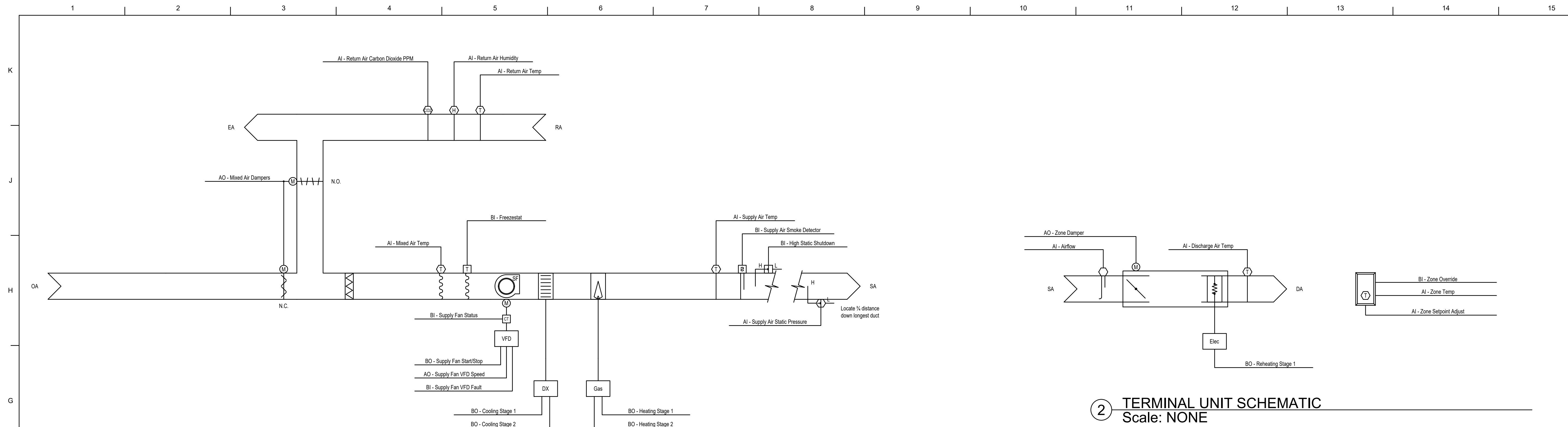


Covalent Consulting
1708 Peachtree St.
Suite 210
Atlanta, GA 30309
404/355-9334 main
covalentconsulting.com



ISSUE DATE: 04/30/2018
JOB NO.: 10130-02
DWG NO.: M101

ISSUED FOR CONSTRUCTION



1 RTU SCHEMATIC  
Scale: NONE

2 TERMINAL UNIT SCHEMATIC  
Scale: NONE

**3. Variable Air Volume - Terminal Units**

Run Conditions - Scheduled:  
The unit shall run according to a user definable time schedule in the following modes:

- Occupied Mode: The unit shall maintain
  - A 75°F (adj.) cooling setpoint
  - A 70°F (adj.) heating setpoint.
- Unoccupied Mode (night setback): The unit shall maintain
  - A 85°F (adj.) cooling setpoint.
  - A 55°F (adj.) heating setpoint.

Alarms shall be provided as follows:

- High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.).
- Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Zone Setpoint Adjust:  
The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.

Zone Optimal Start:  
The unit shall use an optimal start algorithm for morning start-up. This algorithm shall minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period.

Zone Unoccupied Override:  
A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.

Reversing Variable Volume Terminal Unit - Flow Control:  
The unit shall maintain zone setpoints by controlling the airflow through one of the following:

- Occupied:
- When zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.

- When the zone temperature is between the cooling setpoint and the heating setpoint, the zone damper shall maintain the minimum required zone ventilation (adj.).
- When zone temperature is less than its heating setpoint, the controller shall enable heating to maintain the zone temperature at its heating setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum heating airflow (adj.) until the zone is satisfied.

Unoccupied:

- When the zone is unoccupied the zone damper shall control to its minimum unoccupied airflow (adj.).
- When the zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
- When zone temperature is less than its unoccupied heating setpoint, the controller shall enable heating to maintain the zone temperature at the setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the auxiliary heating airflow (adj.) until the zone is satisfied.

Electric Reheating Stage:  
The controller shall measure the zone temperature and stage the reheating to maintain its setpoint. To prevent short cycling, the stage shall have a user definable (adj.) minimum runtime.

The reheating shall be enabled whenever:

- Outside air temperature is less than 65°F (adj.).
- AND the zone temperature is below setpoint.
- AND sufficient airflow is provided.

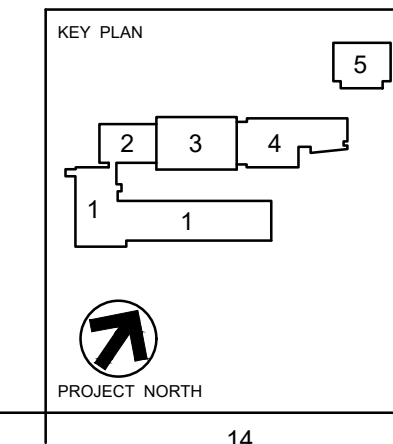
Discharge Air Temperature:  
The controller shall monitor the discharge air temperature.

Alarms shall be provided as follows:

- High Discharge Air Temp: If the discharge air temperature is greater than 120°F (adj.).
- Low Discharge Air Temp: If the discharge air temperature is less than 40°F (adj.).

NEW SHEET - ADD.2

**Covalent Consulting, LLC**  
Covalent Consulting  
1708 Peachtree St.  
Suite 210  
Atlanta, GA 30309  
404/355-9334 main  
covalentconsulting.com



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REVISION:  
ADD #02 - 7/31/18

SHEET TITLE  
**MECHANICAL - CONTROLS**

PROJECT NORTH

PROJECT: The Museum School | Phase 6  
The Museum School of Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School System Charter

LOCATION: 923 FORREST BLVD  
DECATUR, GA 30030

ISSUE DATE: 04/30/2018  
JOB NO.: 10130-02  
DWG NO.:

**M102**

**ISSUED FOR CONSTRUCTION**

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

UNIT	LOCATION	VOLTS	PHASE	HP	HEAT (KW)	CKT BREAKER	DISCONNECT	LOAD (KVA)	COND./WIRE	CIRCUIT	NOTE
RTU-1	AS SHOWN	208	3	-	-	35/3	60/3/3R/35A	9.6	3#8,#10(G),3/4"C	K-2,4,6	1,2
VAV-1	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	1.9	2#12,#12(G),1/2"C	HC-	1,2
VAV-2	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	1.2	2#12,#12(G),1/2"C	HC-	1,2
VAV-3	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	1.2	2#12,#12(G),1/2"C	HC-	1,2
VAV-4	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	1.2	2#12,#12(G),1/2"C	HC-	1,2
VAV-5	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	3.1	2#12,#12(G),1/2"C	HC-	1,2
VAV-6	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	3.1	2#12,#12(G),1/2"C	HC-	1,2
VAV-7	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	3.1	2#12,#12(G),1/2"C	HC-	1,2
VAV-8	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	3.1	2#12,#12(G),1/2"C	HC-	1,2
VAV-9	AS SHOWN	277	1	-	-	25/1	MTR. RATED SWITCH	5.6	2#10,#10(G),3/4"C	HC-	1,2
VAV-10	AS SHOWN	277	1	-	-	25/1	MTR. RATED SWITCH	5.6	2#10,#10(G),3/4"C	HC-	1,2
VAV-11	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	3.1	2#12,#12(G),1/2"C	HC-	1,2
VAV-12	AS SHOWN	277	1	-	-	15/1	MTR. RATED SWITCH	3.1	2#12,#12(G),1/2"C	HC-	1,2

NOTES: 1. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF EQUIPMENT DESCRIBED. REFER TO PANELBOARD SCHEDULES FOR CIRCUIT CONNECTIONS. WHERE FUSIBLE DISCONNECT SWITCHES ARE SPECIFIED, PROVIDE FUSING PER EQUIPMENT MANUFACTURER RECOMMENDATIONS OR U.L. LISTING REQUIREMENTS.  
2. COORDINATE DISCONNECT AND/OR STARTER REQUIREMENTS WITH MECHANICAL CONTRACTOR.

SCHEDULE OF PANEL HC (NEW)

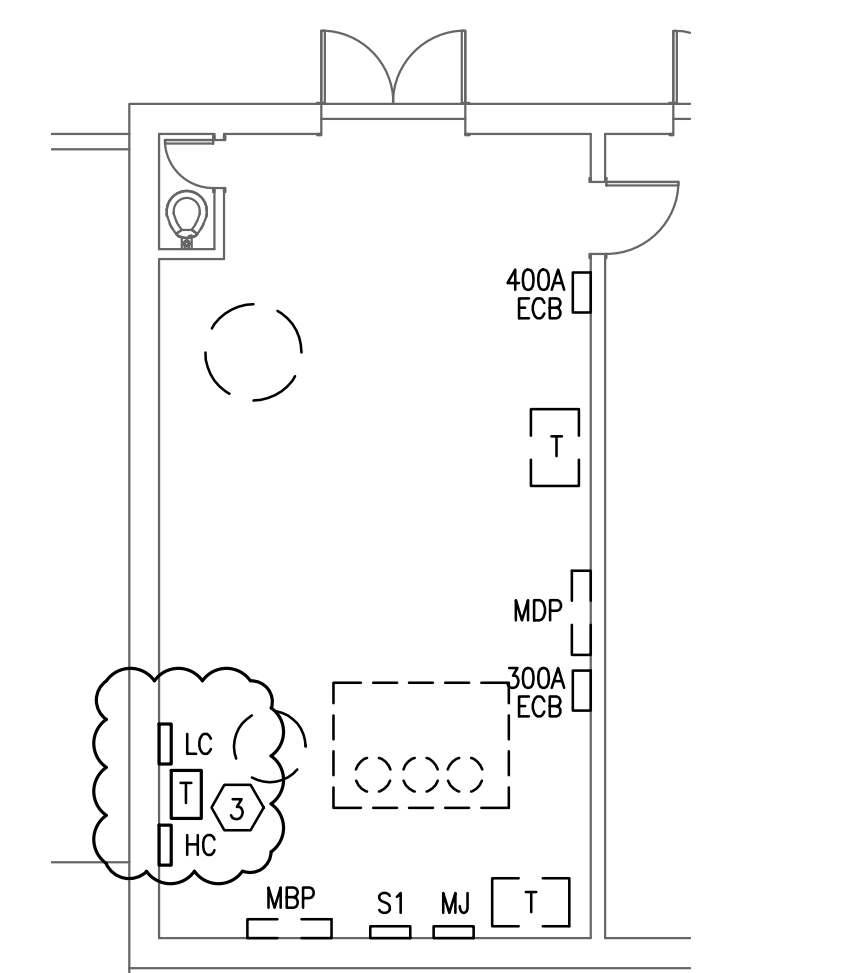
MAIN BUSS		M.L.O.: -		M.B.:200A		VOLTAGE & PHASE:277/480, 3#, 4W										MIN. A.I.C.: 42,000		MOUNTING: SURFACE		
CKT	SERVES	LOAD (KVA)							LOAD (KVA)							SERVES	CKT			
		LTS	REC	HTG	A/C	MTR	MISC	BKR	A	B	C	BKR	MISC	MTR	A/C			HTG	REC	LTS
1	TRANSFORMER	3.2	6.4	-	-	-	-	70											RTU-1	2
3																				4
5																				6
7	VAV-1																			8
9	VAV-2																			10
11	VAV-3																			12
13	VAV-4																			14
15	VAV-5																			16
17	VAV-6																			18
19	VAV-7																			20
21	VAV-8																			22
23	VAV-9																			24
25	VAV-10																			26
27	VAV-11																			28
29	VAV-12																			30
31	SPARE																			32
33	SPARE																			34
35	SPARE																			36
37	SPARE																			38
39	SPARE																			40
41	SPARE																			42
TOTALS		3.2	6.4	35.3	-	-	-													42

TOTAL CONNECTED: 77.4KVA  
TOTAL DEMAND: 78.2KVA (94.1AMPS)

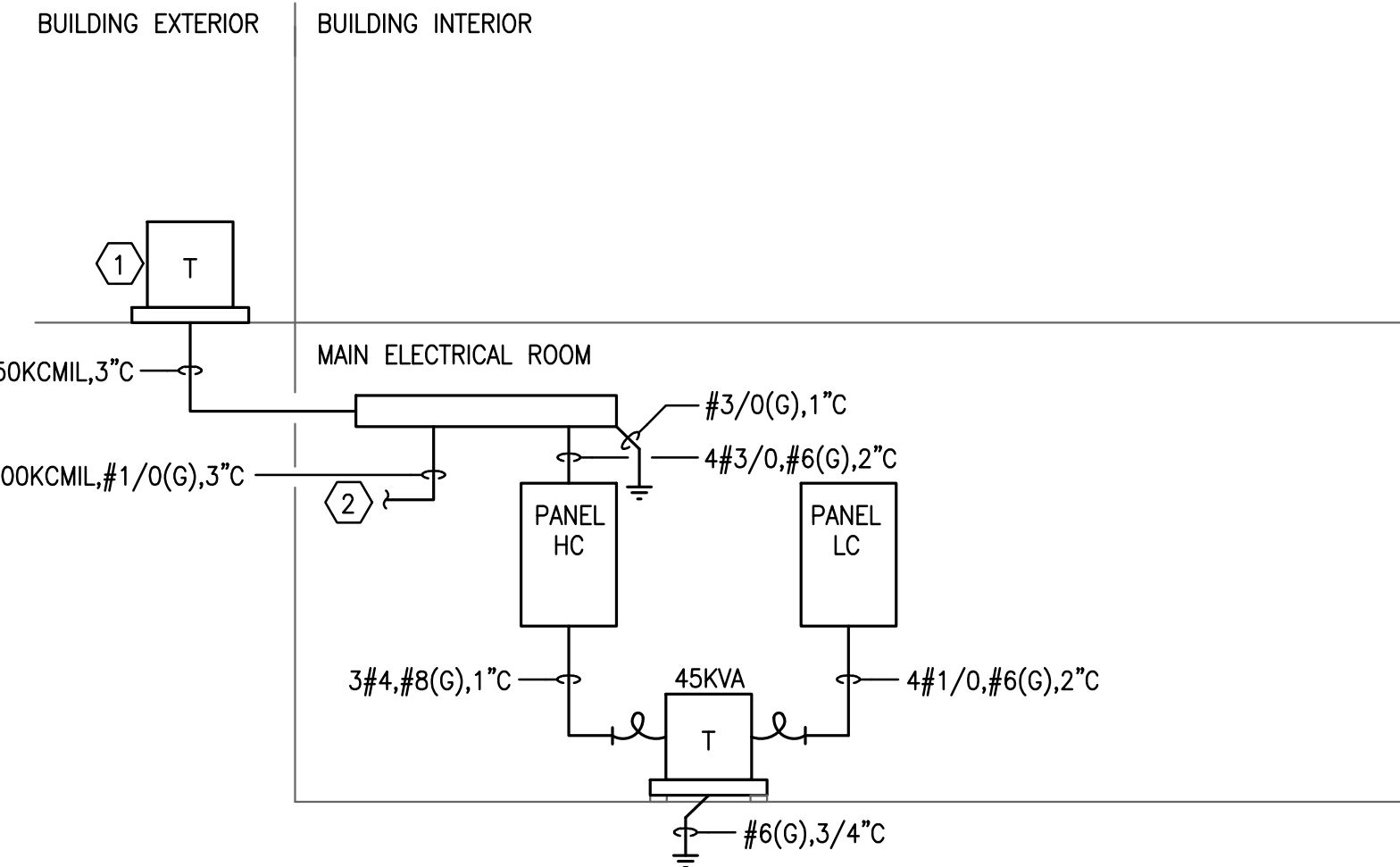
SCHEDULE OF PANEL LC (NEW)

MAIN BUSS		M.L.O.: -		M.B.:150A		VOLTAGE & PHASE:120/208, 3#, 4W										MIN. A.I.C.: 10,000		MOUNTING: SURFACE		
CKT	SERVES	LOAD (KVA)							LOAD (KVA)							SERVES	CKT			
		LTS	REC	HTG	A/C	MTR	MISC	BKR	A	B	C	BKR	MISC	MTR	A/C			HTG	REC	LTS
1	MAKER SPACE REC.	-	0.72	-	-	-	-	20												2
3	MAKER SPACE REC.		0.72					20												4
5	STUDY REC.		0.72					20												6
7	STUDY REC.		0.72					20												8
9	GENERAL REC.		0.36					20												10
11	GENERAL REC.		0.36					20												12
13	GENERAL REC.		0.36					20												14
15	FLOOR REC.		1.1					20												16
17	FLOOR REC.		1.1					20												18
19								20												20
21								20												22
23								20												24
25								20												26
27								20												28
29								20												30
31								20												32
33								20												34
35								20												36
37								20												38
39								20												40
41								20												42
TOTALS		-	6.2	-	-	-	-													42

TOTAL CONNECTED: 9.6KVA  
TOTAL DEMAND: 10.4KVA (28.9AMPS)



② ELECTRICAL - BUILDING 1 - LOWER LEVEL  
Scale: 1/4" = 1'-0"



① ONE LINE DIAGRAM  
Scale: N.T.S.

**KEY NOTES**

- NEW TRANSFORMER. COORDINATE NEW ELECTRICAL SERVICE AND METERING REQUIREMENTS WITH UTILITY COMPANY. COORDINATE FINAL LOCATION WITH THE UTILITY AND CIVIL. ESTIMATED AVAILABLE FAULT CURRENT AT THE SECONDARY OF THE TRANSFORMER 28,000A. COORDINATE FINAL AIC RATINGS OF ALL EQUIPMENT WITH TRANSFORMER PROVIDED.
- EXTEND TO EXISTING 800A MAIN DISTRIBUTION PANEL IN BOILER ROOM.
- REMOVE EXISTING ABANDONED EQUIPMENT AS NEEDED IN ORDER TO PROVIDE SPACE FOR NEW ELECTRICAL EQUIPMENT. MAINTAIN REQUIRED NEC CLEARANCES FOR NEW AND EXISTING ELECTRICAL EQUIPMENT.

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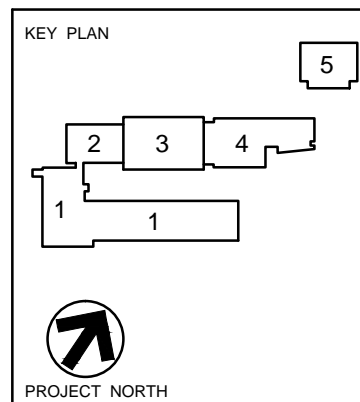
REVISION:  
ADD #02 - 7/31/18

SHEET TITLE  
ELECTRICAL - DETAILS, AND SCHEDULES  
SCALE (UNITS)  
1/8" = 1'-0"  
0 1 2 3 4 5 6 7 8 9 10 FEET

PROJECT NAME  
The Museum School of Avondale Estates,  
The Museum School of Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School System Charter  
LOCATION  
923 FORREST BLVD  
DECATUR, GA 30030

**Covalent Consulting, LLC**  
Covalent Consulting  
1708 Peachtree St.  
Suite 210  
Atlanta, GA 30309  
404/355-9334 main  
covalentconsulting.com

ISSUE DATE  
04/30/2018  
JOB NO.  
10130-02  
DWG NO.  
E002

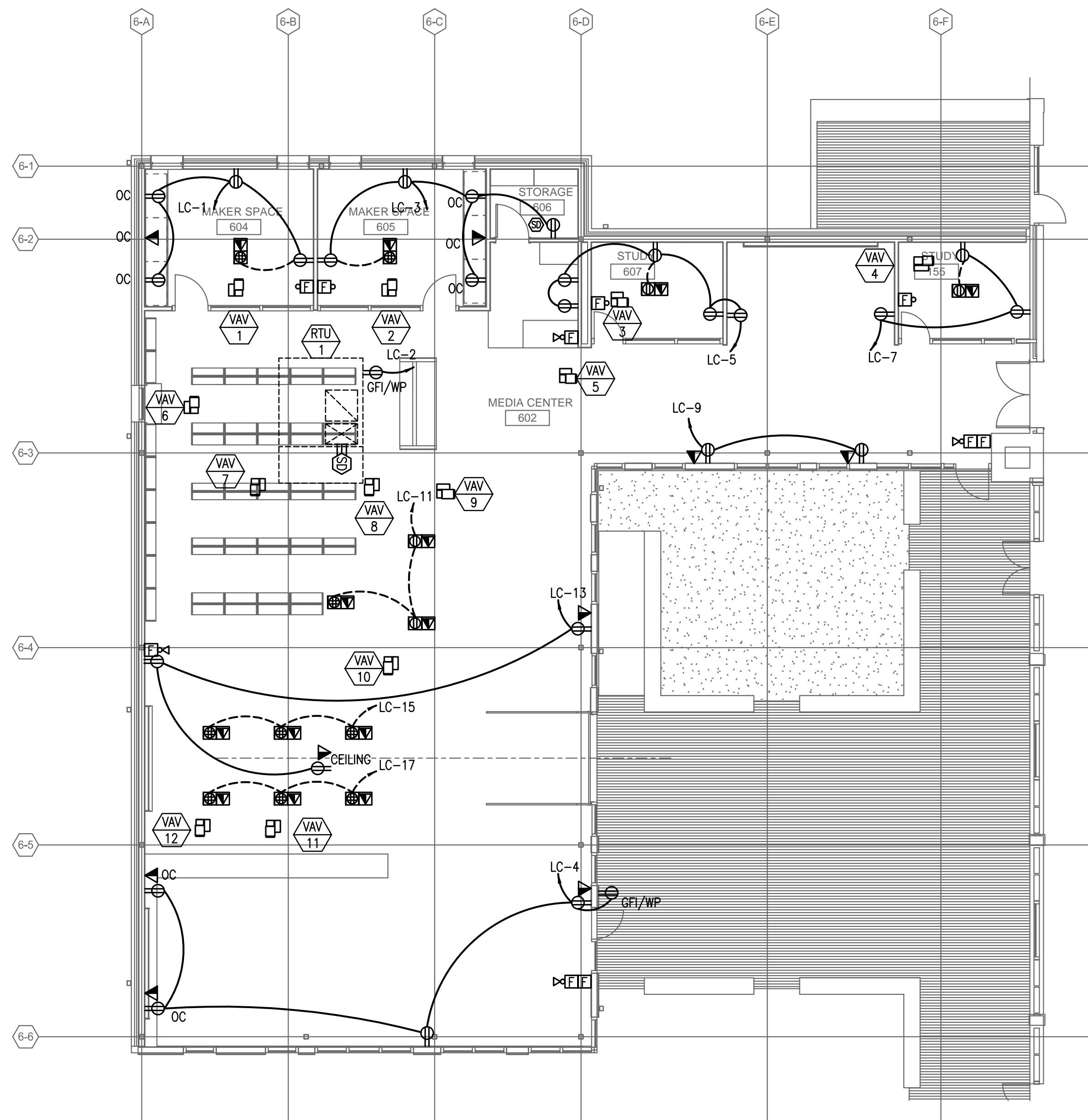


SEAL  
**GEORGIA REGISTERED PROFESSIONAL ENGINEER**  
NO. 34114  
CHRISTIAN R. AYDOR

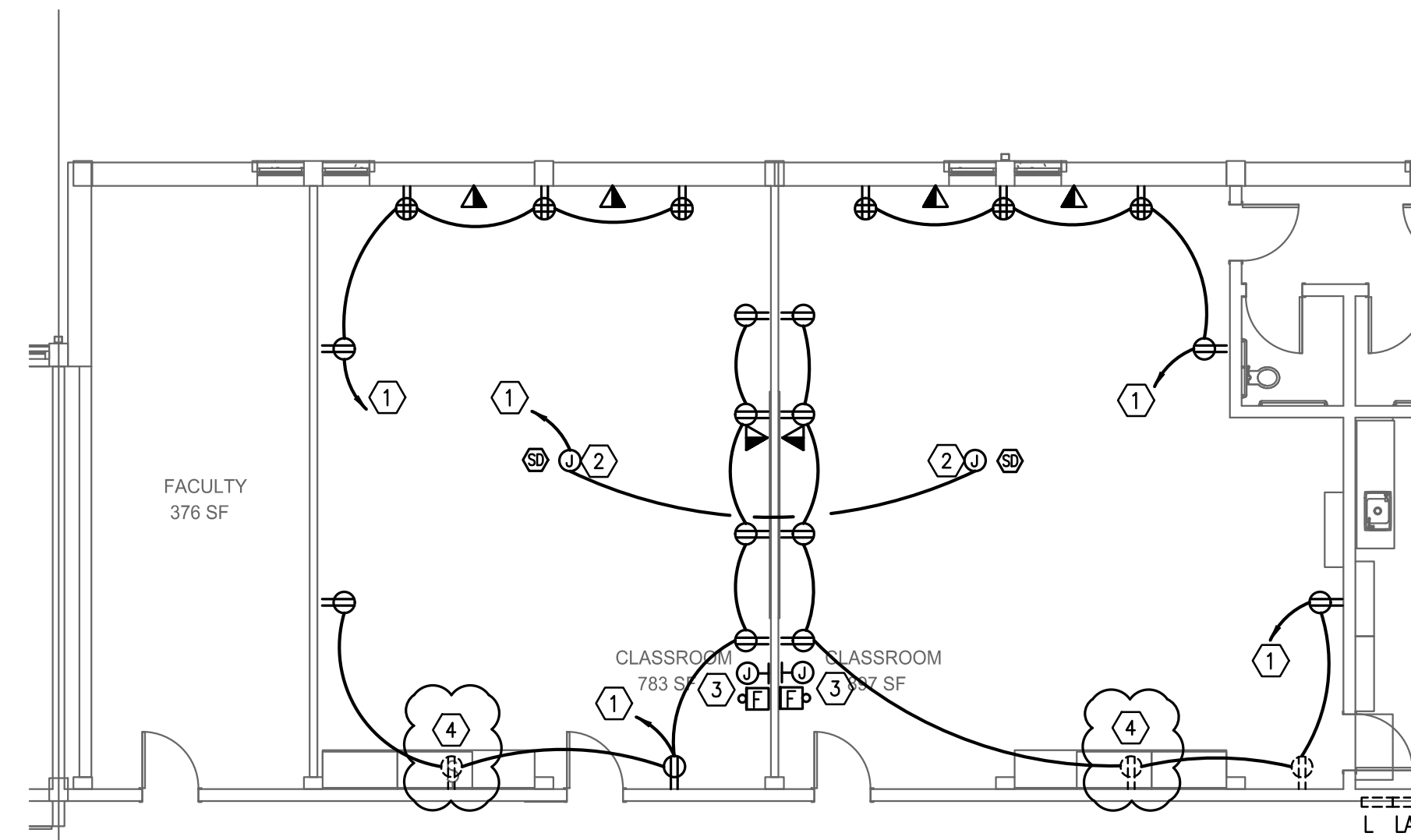
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**2** ELECTRICAL - MEDIA CENTER ADDITION PLAN - POWER  
Scale: 1/8" = 1'-0"



**1** ELECTRICAL - BUILDING 3 - CLASSROOMS - POWER  
Scale: 1/8" = 1'-0"

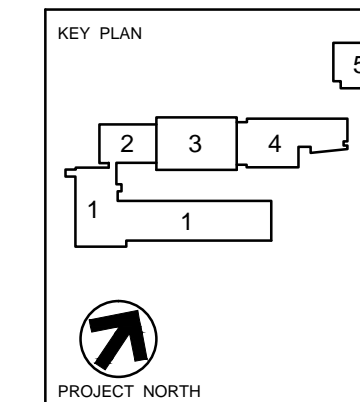
**GENERAL NOTES:**

1. REFER TO ARCHITECTURAL AND CASEWORK DRAWINGS FOR EXACT DEVICE LOCATIONS AND HEIGHTS.
2. FIELD VERIFY EQUIPMENT ELECTRICAL REQUIREMENTS WITH EXACT EQUIPMENT PROVIDED AND COORDINATE WITH EQUIPMENT SPECIFICATIONS PRIOR TO INSTALLATION. ADJUST DEVICES AND FEEDER SIZES AS REQUIRED.
3. COORDINATE WITH MECHANICAL AND PLUMBING FOR MECHANICAL EQUIPMENT LOCATION. COORDINATE WITH ARCHITECTURAL FOR ALL OTHER EQUIPMENT LOCATIONS.
4. MAKE FINAL CONNECTION TO ALL EQUIPMENT. CONTRACTOR SHALL PROVIDE CORD/PLUG WHERE EQUIPMENT NOT PROVIDED BY VENDOR.
5. COORDINATE ALL ROOF PENETRATIONS WITH OWNER PRIOR TO INSTALLATION. ROOF PENETRATIONS SHALL BE IN ACCORDANCE WITH ROOF MANUFACTURERS SPECIFICATIONS FOR PENETRATIONS TO MAINTAIN ROOF INTEGRITY AND/OR WARRANTIES.
6. COORDINATE WITH OWNER/ARCHITECTURAL FOR ACTUAL PROJECTOR & DATA LOCATIONS AND MOUNTING HEIGHTS IN AREAS PRIOR TO INSTALL DEVICE.
7. CONDUITS SHALL BE SURFACE MOUNTED ON EXISTING WALLS IN CLASSROOMS.
8. DEVICES AND COVERPLATES SHALL MATCH BASE BUILDING STANDARD TYPE.

**KEY NOTES**

1. CONNECT TO SPARE CIRCUIT FROM PANELS L AND LA1 PREVIOUSLY SERVING THE AREA.
2. PROVISIONS FOR CEILING MOUNTED PROJECTOR, CIRCUIT AS SHOWN. PROVIDE CORRECT NEMA DESIGNATED OUTLET TO MATCH EQUIPMENT PROVIDED, COORDINATE WITH OWNER.
3. PROVIDE WALL MOUNTED JUNCTION BOX FOR VGA DEVICE USE BY PROJECTION SYSTEM. EXTEND 1" FROM JUNCTION BOX TO ACCESSIBLE CEILING AREA.
4. RELOCATE EXISTING DEVICE TO COUNTER HEIGHT.

**Covalent Consulting, LLC**  
 Covalent Consulting  
 1708 Peachtree St.  
 Suite 210  
 Atlanta, GA 30309  
 404/355-9334 main  
 covalentconsulting.com



ISSUE DATE: 04/30/2018  
 JOB NO.: 10130-02  
 DWG. NO.: E111

REGISTERED PROFESSIONAL ENGINEER  
 CHRISTIAN R. AYDOR  
 NO. 34114

PROJECT NAME:  
 The Museum School of Avondale Estates,  
 The Museum School of Avondale Estates,  
 Facility Code: 0411 A Detkai Co. School  
 System Charter

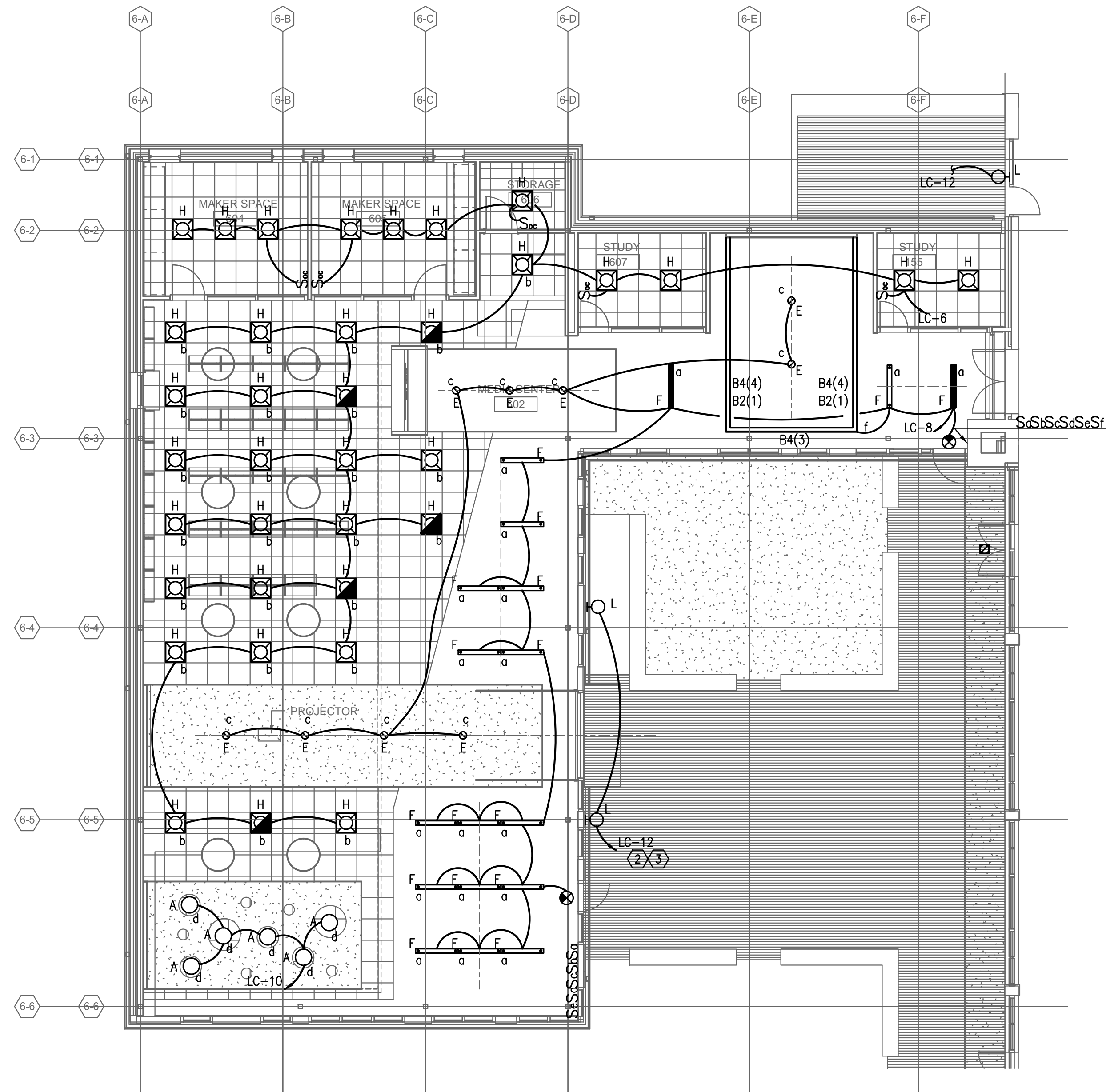
LOCATION:  
 923 FORREST BLVD  
 DECATUR, GA 30030

SHEET TITLE  
 ELECTRICAL - FLOOR PLANS - POWER

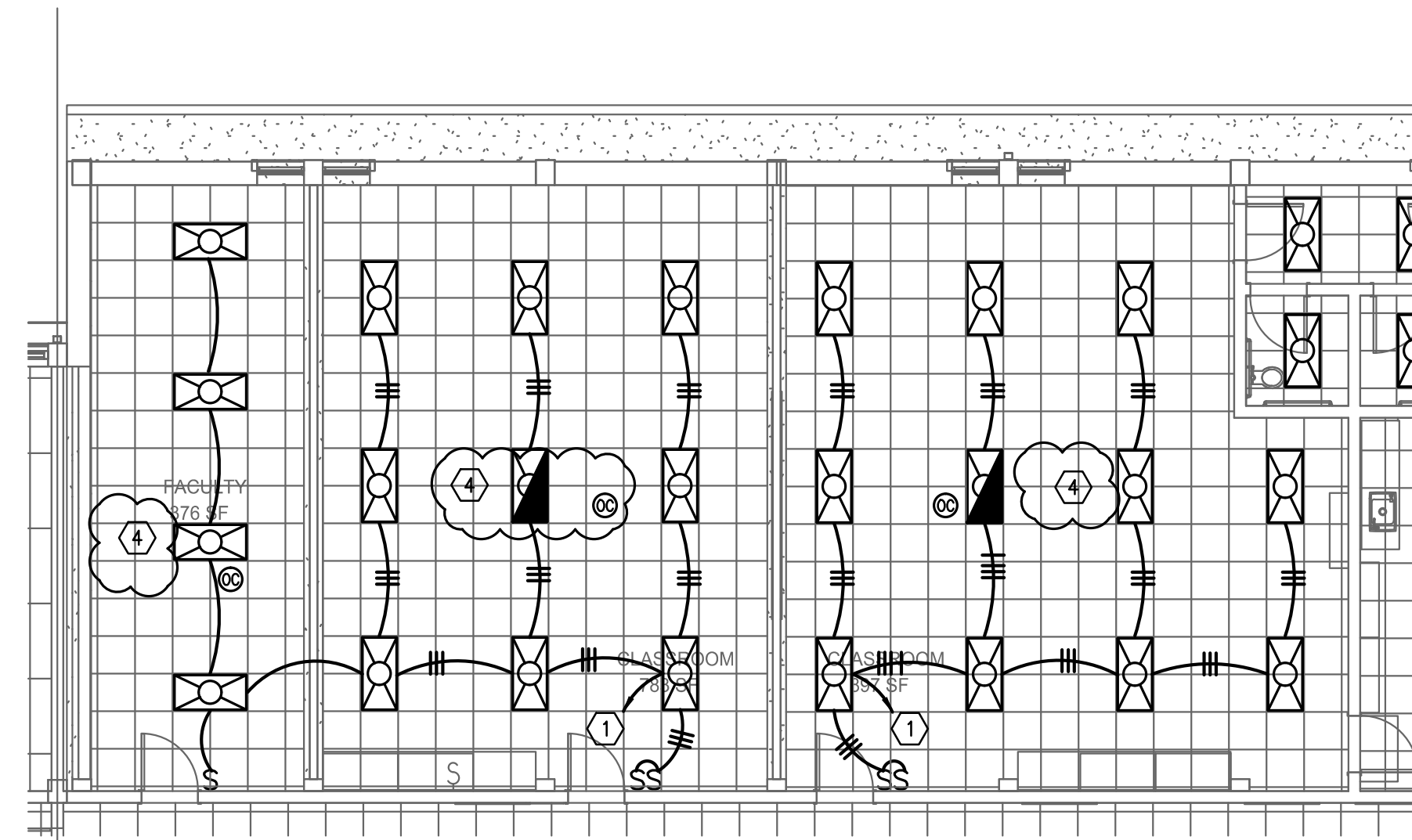
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**2** ELECTRICAL - MEDIA CENTER ADDITION PLAN - LIGHTING  
Scale: 1/8" = 1'-0"



**1** ELECTRICAL - BUILDING 3 - CLASSROOMS - LIGHTING  
Scale: 1/8" = 1'-0"

**GENERAL NOTES:**

1. PROVIDE UNSWITCHED CONDUCTORS TO EMERGENCY/EXIT FIXTURES.
2. ALL EXIT SIGNS SHALL BE TYPE X UNLESS NOTED OTHERWISE.
3. DEVICES AND COVERPLATES SHALL MATCH BASE BUILDING STANDARD TYPE.

**KEY NOTES**

1. CONNECT TO SPARE CIRCUIT FROM PANELS L AND LA1 PREVIOUSLY SERVING THE AREA.
2. PROVIDE INVERTER FOR CIRCUIT: DUALLITE LG-1-S-I. INSTALL INDOORS IN ACCESSIBLE AREA ABOVE THE CEILING. PROVIDE UNSWITCHED CONDUCTOR TO INVERTER.
3. PROVIDE PHOTOCELL FOR CONTROL OF CIRCUIT.
4. LIGHTING FIXTURES SHOWN ARE EXISTING TO BE RELOCATED AS SHOWN.

**Covalent Consulting, LLC**  
Covalent Consulting  
1708 Peachtree St.  
Suite 210  
Atlanta, GA 30309  
404/355-9334 main  
covalentconsulting.com

KEY PLAN  
PROJECT NORTH

REGISTERED PROFESSIONAL ENGINEER  
CHRISTIAN R. AYERS  
NO. 34114

ISSUE DATE  
**04/30/2018**  
JOB NO.  
10130-02  
DWG. NO.  
**E121**

PROJECT NAME  
The Museum School | Phase 6  
The Museum School of Avondale Estates,  
Facility Code: 0411 A Dekalb Co. School  
System Charter  
LOCATION  
923 FORREST BLVD  
DECATUR, GA 30030

SHEET TITLE  
ELECTRICAL - FLOOR PLANS - LIGHTING  
SCALE (UNO.)  
1/8" = 1'-0"  
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 FEET

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