

ADDENDUM No. 01

DATE: March 16, 2022

PROJECT: C22-01 SAVANNAH ARTS ACADEMY ADDITION & RENOVATION  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM, SAVANNAH, GA

BY: COGDELL & MENDRALA ARCHITECTS, PC (Architect)  
517 East Congress Street  
Savannah, GA 31401

This Addendum forms a part of the Contract Documents and modifies the original Drawings and Project Manual dated February 2022 and identified as (GMP Documents).

I. GENERAL INFORMATION:

A. Not applicable for Addendum No. 01.

II. SUBSTITUTION REQUESTS:

- A. 12 61 00 Fixed Audience Seating
1. Manufacturer: KI; Model: Lancaster
    - a. Model and manufacturer are approved

III. RFI RESPONSE:

- A. Specification calls for the Hussey "Fusion" and other specified manufacturers have chair models that closely resemble the Hussey "Classic". Please confirm which style chair you are looking for
1. Response: Hussey "Classic" is the desired chair and specification has been modified per this addendum to reflect this clarification.
- B. I looked in the specifications but did not see termite or soil treatment. My question is does Savannah Arts Academy want a 5-year termite warranty on the existing building as well as the addition or just for the addition.
1. Response: 31 31 16 Termite Control specification has been added with regard to any new work.
- C. The description of Alternate #6 for Savannah Arts Academy Addition states that the doors at Opening #500A in the Base Bid are Wood. The Door Schedule shows them as Hollow Metal. Which material is correct for the Base Bid?
1. Response: Opening is intended to be Wood. Please see revised Vol II – A8.01 for clarification.
- D. Openings 102.E and 127.2 are not scheduled with a Hardware Set and they do not occur in specified hardware sets in Division 087100. Do these openings require new hardware or is all hardware at these two openings existing to be reused?
1. Response: Door 102.E is to have hardware set 12.0. Door 127.2 is noted with remark 5, which is to replace existing glazing. Inclusion in the door schedule is specifying the type of glazing to be replaced. The door and hardware are to remain as existing. Note this glazing is changed as part of this addendum to ILG-2 instead of LG-2. Per Note 1, frame is to be modified as required to receive insulated glass.

IV. PROJECT MANUAL:

- A. Section 08 71 00 DOOR HARDWARE
  - 1. In sub-section 3.8 HARDWARE SCHEDULE add door number 102.E to hardware set 12.0
- B. Section 12 61 00 FIXED AUDIENCE SEATING
  - 1. In sub-paragraph 2.3.A.1.: Change "Hussey Seating Company Fusion™" to "Hussey Seating Company Quatro Classic."
  - 2. In sub-paragraph 2.3.A.1.a.: Change "KI Concerto Auditorium Chair" to "KI Lancaster"
  - 3. In sub-paragraph 2.3.I.1: Change "Self-Rising Seat Mechanism: Torsion Springs, full fold." to "Self-Rising Seat Mechanism: Torsion Springs, full fold or gravity lift seat return to full-fold position."
- C. Section 26 60 11 EMERGENCY POWER SYSTEM – NATURAL GAS
  - 1. Replace this specification in its entirety
- D. Section 27 41 16 INTEGRATED AUDIO-VIDEO COMMUNICATIONS & THEATER EQUIPMENT
  - 1. Replace this specification in its entirety
- E. Section 31 31 16 TERMITE CONTROL
  - 1. Add this specification in its entirety

V. Drawings:

- A. Vol I - RENOVATION:
  - 1. General:
    - a. T1.0 – Volume I Title Sheet
  - 2. Architectural:
    - a. A8.01 – DOOR SCHEDULE & ELEVATIONS: Replace this sheet entirely.
  - 3. Plumbing:
    - a. P1.04 – PLUMBING PLAN – MECHANICAL ROOM: Replace this sheet entirely.
  - 4. Mechanical:
    - a. M1.25 – MECHANICAL PLAN – MECHANICAL ROOM: Replace this sheet entirely.
  - 5. Electrical:
    - a. E2.04 – POWER PLAN – MECHANICAL ROOM: Replace this sheet entirely.
    - b. E3.04 – FIRE ALARM PLAN – MECHANICAL ROOM: Replace this sheet entirely.
  - 6. Lighting:
    - a. L2.04 – LIGHTING PLAN – MECHANICAL ROOM: Replace this sheet entirely.
  - 7. EPS:
    - a. EPS-1.2 – 1<sup>ST</sup> FLOOR ACOUSTIC SYSTEM PLAN: Replace this sheet entirely.
    - b. EPS-2.5 – CURTAIN LAYOUT: Replace this sheet entirely.
    - c. EPS-3.1 – AUDITORIUM SECTION: Replace this sheet entirely.
  - 8. PS:
    - a. PS-1.1 – AUDIO FLOW DIAGRAM: This sheet added as part of this addendum
    - b. PS-1.2 – AUDIO FLOW DIAGRAM (CONT.): This sheet added as part of this addendum
    - c. PS-1.3 – AUDIO FLOW DIAGRAM (CONT.): This sheet added as part of this addendum
    - d. PS-1.4 – AUDIO FLOW DIAGRAM (CONT.): This sheet added as part of this addendum
    - e. PS-1.5 – VIDEO FLOW DIAGRAM: This sheet added as part of this addendum
    - f. PS-1.6 – CONTROL FLOW DIAGRAM: This sheet added as part of this addendum
    - g. PS-1.7 – LIGHTING FLOW DIAGRAM: This sheet added as part of this addendum
    - h. PS-1.8 – POWER FLOW DIAGRAM: This sheet added as part of this addendum
- B. Vol II - ADDITION:
  - 1. Civil:
    - a. C2.0 – PROPOSED SITE LAYOUT: Replace this sheet entirely.
    - b. C2.1 – FIRE ACCESS PLAN: Replace this sheet entirely.
    - c. C3.0 – INITIAL SOIL EROSION CONTROL PLAN: Replace this sheet entirely.
    - d. C3.1 – INTERMEDIATE SOIL EROSION CONTROL PLAN: Replace this sheet entirely.

- e. C3.2 – FINAL SOIL EROSION CONTROL PLAN: Replace this sheet entirely.
- f. C4.1 – GRADING PLAN – B: Replace this sheet entirely.
- 2. Structural:
  - a. S1.01 – FOUNDATION SECTIONS: Replace this sheet entirely.
- 3. Architectural:
  - a. A4.03 – ENLARGED PARTIAL FLOOR PLANS: Replace this sheet entirely.
  - b. A8.01 – DOOR SCHEDULE, DOOR TYPES, & HM FRAME ELEVATIONS: Replace this sheet entirely.
- 4. Fire Protection:
  - a. FC1.01 – FIRE PROTECTION PLAN – CAFETERIA ADDITION: Replace this sheet entirely.
- 5. Electrical:
  - a. EC2.01 – POWER PLAN – CAFETERIA ADDITION: Replace this sheet entirely.

**END OF ADDENDUM No. 01**

SECTION 26 60 11 - EMERGENCY POWER SYSTEM - NATURAL GAS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 1 Specification Sections, apply to this Section.
- B. Refer to Section 26 20 42 and 26 20 43 for information on the required selective coordination for emergency power system overcurrent devices. The coordination study is a requirement of NFPA 70 Articles 700 and 701.

1.2 SCOPE OF WORK:

- A. The Emergency Power Systems shall provide alternate AC power source for designated loads in the event there is an interruption of normal utility power. When required, the units shall automatically transfer the full rated load from the normal power source to the standby emergency generator. Upon return of normal power, the loads shall be automatically transferred back to the normal power source and the emergency generator shall automatically shut off, after a cool down period.
- B. The extent of Emergency Power Systems (EPS) work is indicated by drawings and by the requirements of this Section. Provide a complete automatically operated electric generating set of the size, type and operating characteristics described hereinafter, completely installed, tested and operative. All equipment, labor and materials necessary to accomplish this end shall be included, and the coordination of all required equipment and material shall be the responsibility of one manufacturer, who has an approved experience record in furnishing similar equipment.

1.3 QUALITY ASSURANCE:

- A. Manufacturers: The following manufacturers are acceptable provided they meet all requirements of the specifications:
  - 1. Onan/Cummings
  - 2. MTU Onsite Energy (Detroit Diesel)
  - 3. Generac
  - 4. Caterpillar
- B. Geographic Location:
  - 1. The installation / service center shall be located within 75 miles.
- C. Requirements:
  - 1. The installation / service center shall be factory authorized and shall be certified, in writing, by the manufacturer, as being responsible for installation and warranty work and shall be capable of performing work on the engine, generator, battery charger, fuel system, automatic transfer switch and all accessories which make up the complete emergency power system.
  - 2. The installation / service center shall provide on-site service within 4 hours of receipt of

service request.

3. The installation / service center shall maintain adequate levels of repair parts inventory.

D. Compliance / Labels:

1. Where a conflict between this document and NFPA 110 should arise, NFPA 110 shall govern.
2. Manufacturer Testing:
  - a. Design prototype testing - Shall be performed on similar models of the unit furnished on this project.
  - b. Final production testing of the engine/generator and automatic transfer switch - provide certified test reports.
  - c. Field testing, by manufacturer's local representative

1.4 SERVICE / MAINTENANCE AGREEMENT:

- A. The *engine / generator supplier* shall provide a service / maintenance contract covering one year of operation, from the date of Substantial Completion. There shall be no deductible costs, or other costs, to the Owner for these services. All costs shall be included in the bid for this project. *The agreement shall be made in the name of the Owner.* The service / maintenance agreement applies to the following items of equipment:

1. Engine-Generator Set.
2. Automatic Transfer Switch.

- B. The *Maintenance agreement* shall include the following and also shall include services per the equipment manufacturer's applicable instruction manual:

1. Lube, oil, and filter change
2. Fuel filter change
3. Engine tune-up with parts
4. Service/replace air cleaner
5. Check coolant level
6. Test anti-freeze and adj.
7. Inspect cooling system hoses
8. Service/replace belts as required
9. Check engine heater operation
10. Check generator set for fuel, oil, and coolant leaks
11. Check air intakes and outlets
12. Drain exhaust line
13. Inspect silencer
14. Check battery charger operation and charge rate
15. Check battery electrolyte levels and specific gravity
16. Emergency system operation with load applied for one hour period
17. Frequency check/governor adj.
18. Check transfer switch and accessory operation
19. Check engine alternator charge rate
20. Check engine-generator gauge and indicator operation
21. Check generator set controller operation including shutdown functions and emergency stop
22. Check generator output voltage and adjust as necessary

- C. Maintenance shall be performed at intervals stated in equipment manufacturer's applicable instruction manuals except that the minimum service visits shall be four per year, and they shall be in Jan., Apr., July, and Oct.
- D. Maintenance shall be performed near the middle of the month during the owners normal working hours. Arrangements will be made with the owner prior to each service call in order to secure access to the equipment.
- E. The servicing agent will supply labor, supplies, parts and test equipment, as necessary to perform the service and preventative maintenance, at no additional cost.
- F. *The service agreement shall include labor, supplies and replacement parts to restore the system to operating condition, whether due to normal wear and tear or defects in workmanship or materials.*
  - 1. Response to *service* calls shall be made within 4 hours.
- G. Owner will maintain a regular recommended service procedure as recommended by the servicing agent. A record of these maintenance procedures will be maintained for reference.
- H. The servicing agent shall maintain a complete service history and necessary drawings and service procedure data for reference in service of the equipment. The agreement does not include any expense to repair damage caused by abuse, accident, theft, acts of a third person, forces of nature, alteration of equipment, or improper operation. The servicing agent shall maintain a representative stock of replacement parts for the complete emergency system and a competent factory-trained service organization.
- I. After each inspection, the owner will be furnished a written report detailing any conditions found and advising further service required, if any, to assure operating dependability of the equipment under contract.

1.01 COMPREHENSIVE WARRANTY:

- A. The standby electric generating system components, complete genset and instrumentation panel shall be warranted by the manufacturer against defective materials and factory workmanship for a period of five (5) years. Such defective parts shall be repaired or replaced at the manufacturer's option, free of charge for parts, labor, and travel. The warranty period shall commence when the standby power system is first placed into service. Multiple warranties for individual components (engine, alternator, controls, etc.) will not be acceptable. Satisfactory warranty documents must be provided. Also, in the judgment of the specifying authority, the manufacturer supplying the warranty for the complete system must have the necessary financial strength and technical expertise with all components supplied to provide adequate warranty support.

1.5 SUBMITTALS:

- A. Refer to Section 26 01 20 for requirements.

PART 2 - PRODUCTS

2.1 GENERAL:

A. The system shall have the following characteristics:

1. 100 kW / 125 kVA @ 0.8PF for Continuous Standby Service; based on use in outdoor housing - geographic location – Savannah, GA, USA.
2. 3 phase, 4W, 480/277 Volts.
3. Provide monitoring and controls necessary to achieve the following sequence of operation:
  - a. Transfer the emergency system load within the 10 second interval required by NFPA 110.
  - b. After the emergency load has been stabilized, transfer the optional standby load. Time delay shall be field selectable, 1-5 minutes. Set for 1 minute.
  - c. The emergency system loads shall take precedence over all other loads. An overload condition shall dump loads on the optional load standby system.

2.2 ENGINE:

- A. 1800 RPM.
- B. Design: 8- cylinder, water cooled, naturally aspirated.
- C. Bore: 5.31" Stroke: 6.50"
- D. Piston displacement: 864.71 cubic inches.
- E. Valves: per cylinder, single springs
- F. Crankshaft: Forged steel, counterweight-type.
- G. Connecting Rods: Forged steel with I-beam design.
- H. Compression ratio: 9.5:1
- I. Starting: 24V negative ground
- J. Cylinder block: Cast Iron.
- K. 40A battery charging alternator.
- L. Fuel System: Fueled by natural gas and supplied with a unit-mounted electric solenoid fuel shut-off valve, flexible fuel line and secondary fuel pressure regulator.
- M. Isochronous governor capable of +.25% steady-state frequency regulation.
- N. Air Cleaner: Dry element with restriction indicator.
- O. Lube Oil Capacity: 12 US Quarts, API CD 15W-40
- P. Lube Oil Filter: Single spin-on, full flow.
- Q. Positive displacement, full pressure lubrication oil pump, cartridge oil filters, dipstick and oil drain.
- R. Cooling system: High ambient 122 deg F unit mounted radiator, blower fan, water pump and thermostat.

2.3 GENERATOR:

- A. Salient-pole, brushless, 12 lead reconnectable type; self-ventilated, drip proof housing; amortisseur rotor windings and skewed for smooth voltage waveform. NEMA Class H insulation with fungus-resistant epoxy varnish.
- B. Brushless excitation system controlled by solid-state, anti-tracking voltage regulator capable of maintaining +/- 2% for any constant load from 0 to 100% of rating. Provide individual adjustments for voltage range, stability and volts/hertz operations.
- C. Voltage dip not to exceed 20% with one-second recovery within 2% of rated voltage, for one-step loads 0 to 90% of rating.

- D. Shall sustain at least 250% rated current for minimum of 10 seconds, based on a 3-phase symmetrical fault.
- E. Integral thermal-magnetic circuit breaker on output, coordinated not to trip under the conditions described above.

#### 2.4 CONTROLLER:

- A. Set-mounted, microprocessor-based, with vibration isolation. Modular construction to allow field replacement and for field testing without starting the generator. Controller shall include:
  - 1. Fused DC circuit
  - 2. Complete two-wire start/stop control which shall operate on closure of remote contact device(s).
  - 3. Speed sensing and a second independent starter motor disengagement systems shall protect against starter engagement with a moving flywheel. Battery charging alternator voltage will not be acceptable for this purpose.
  - 4. The starting system shall be designed for restarting in the event of a false engine start, by permitting the engine to completely stop and then re-engage the starter.
  - 5. Cranking cyler with 15-second ON and OFF cranking periods. Crank control shall provide at least two cranking periods. Each cranking attempts shall be separated by appropriate rest periods. A sensing device shall automatically disconnect the starting circuit when the engine has started. If the engine has not started at completion of the starting program, the over cranking signal shall so indicated. The engine starting controls shall be locked out and no further starting controls shall be locked out and no further starting attempts shall take place until the overcranking device has been manually reset. A selector switch shall be incorporated in the automatic engine start and stop controls. It shall include an "off" position that prevents manual or automatic starting of the engine; a "manual" or "handcrank" position that permits the engine to be started manually by the pushbutton on the control cabinet and an "automatic" position which readies the system for automatic start or stop on demand of the control system.
  - 6. Overcrank protection designed to open the cranking circuit after 75 seconds if the engine fails to start.
  - 7. Circuitry to shut down the engine when signal for high coolant temperature, low oil pressure, or overspeed are received.
  - 8. Engine cooldown timer factory set at 5 minutes to permit unloaded running of the standby set after transfer of the load to normal.
  - 9. Three-position (Automatic-OFF-TEST) selector switch. In the TEST position, the engine shall start and run regardless of the position of the remote starting contacts. In the Automatic position, the engine shall start when contact in the remote-control circuit close and stop 5 minutes after these contacts open. In the OFF position, the engine shall not start even though the remote start contacts close. This position shall also provide for immediate shutdown in case of an emergency. Rest of any fault shall also be accomplished by putting the switch to OFF position.
  - 10. Indicating lights to signal:
    - a. Auxiliary Prealarm (Yellow)
    - b. Auxiliary Safety Shutdown (Red)
    - c. Switch "OFF" (Flashing Red)
    - d. Overcrank (Red)
    - e. Emergency Stop (Red)
    - f. High Water Temperature (Red)
    - g. Overspeed (Red)



- h. Low Oil Pressure (Red)
  - i. Battery Charger Fault (Red)
  - j. Low Battery Voltage (Red)
  - k. Low Fuel (Red)
  - l. System Ready (Green)
  - m. Anti-High-Water Temperature (Yellow)
  - n. Anti-Low Oil Pressure (Yellow)
  - o. Low Coolant Temperature (Red)
- 11. Test button for indicating lights.
  - 12. Alarm Horn with silencer switch per NFPA 110.
  - 13. Terminals shall be provided for each signal in 8.10 above, plus additional terminals for common fault and common prealarm.

## 2.5 INSTRUMENT PANEL:

### A. The instrument panel shall include:

- 1. Dual range voltmeter 3-1/2 inch, 2% accuracy.
- 2. Dual range ammeter phase selector switch.
- 3. Voltmeter-ammeter phase selector switch.
- 4. Lights to indicate high or low meter scale.
- 5. Direct reading pointer-type frequency meter 3-1/2 inch, .5% accuracy, 45 to 65 Hz scale.
- 6. Panel illuminating lights.
- 7. Battery charging voltmeter.
- 8. Coolant temperature gauge.
- 9. Oil pressure gauge.
- 10. Running time meter.
- 11. Voltage adjust rheostat.

## 2.6 MOUNTING BASE:

- A. The engine-generator shall be skid-mounted on two, iron "I" or "C" type channels. The design shall provide vibration isolation between the genset and the mounting base.
- B. The frame design shall not inhibit easy access to the oil pan, after genset has been installed. Installations which require the use of a pump to drain the oil are not acceptable.

## 2.7 ACCESSORIES:

### A. The following accessories shall be installed:

- 1. Block Heater, 120 Volt AC. Thermostatically controlled and sized to maintain engine coolant at 90°F (32°C) to meet the start-up requirements of NFPA 110, Level 1.
- 2. Generator strip heater, 120-volt, single phase for high humidity applications.
- 3. Over voltage protection will shut down the unit after one second of 15% or more overvoltage. Note: Sensitive equipment may suffer damage in less than one second of an overvoltage condition. On-line equipment requiring faster shutdown should have its own overvoltage protection.
- 4. Weather housing, constructed of rugged steel, cleaned, phosphated, and electrocoat painted inside and out with rust inhibiting primer and exterior coat of the manufacturer's standard color. Provide hinged, double doors on each side to give easy access to the genset, and a rear door to allow access to the control panel. All door handles shall be

key-lock type. Skid and floor design shall include a removable panel below the engine oil pan. All shelters shall come ready for job-installation. Top-mounted exhaust silencer with rain shield over the exhaust opening. Note: A 120-volt battery box heater shall be included.

5. Battery rack, battery cables, 12-volt batteries capable of delivering the required minimum cold-cranking amps required at 0°F.
6. 10-Ampere automatic float and equalize battery charger with +/- 1% constant voltage regulation from no load to full load over +/- 10% AC input line variation, current limited during engine cranking and short circuit conditions, temperature compensated for ambients from -40°C to +60°C, 5% accurate voltmeter and ammeter, fused, reverse polarity and transient protected. Provide alarm circuit board to meet the requirements of NFPA 110 for low battery voltage, high battery voltage, and battery charger malfunction.
7. Gas-proof, seamless, stainless steel, flexible exhaust connection, and engine exhaust silencer rated for critical application. Exhaust noise shall be limited to 85 dBA as measured at 10 feet in a free-field environment.
8. 16-Light remote annunciator shall monitor all controller functions described in paragraph 2.4.A.10 of the controller section, line power and generator power monitoring, and docking station power monitoring. An integral lamp test and horn silencer switch shall be included, as required to meet NFPA 110. Provide all wiring between remote annunciator and generator set / docking station.

## 2.8 AUTOMATIC TRANSFER SWITCH:

- A. The automatic transfer switch shall consist of a power transfer module and a control module, interconnected to provided complete automatic operation. Enclosure type shall be NEMA 1. The automatic transfer switch shall be mechanically held and electrically operated by a single solenoid mechanism energized from the source to which the load is to be transferred. The switch shall be rated for continuous duty and be inherently double throw. The switch shall be open transition (break before make) and be mechanically interlocked to ensure only one of two possible positions - normal or emergency. The automatic transfer switch shall be suitable for use with and supplied by the manufacturer of the standby generator to be furnished for this project. The switch shall be 4-pole, rated for use on a 480Y/277, 3-phase, 4-wire system. *Withstand rating shall be at least the same as the interrupting rating as the feeder breaker on the normal power input.* Basis of design: ASCO Series 300.
- B. Automatic transfer switches utilizing components of molded-case circuit breakers, contactors, or parts thereof which have not been intended for continuous duty or repetitive load transfer switching are not acceptable.
- C. All main contacts shall be of silver composition. The operating transfer time in either directions shall not exceed one-sixth (1/6) of a second.
- D. The control module shall be supplied with a protective cover and be mounted separately from the transfer switch for ease of maintenance. The interconnecting wiring harness shall include a disconnect plug to disconnect all wires including both sources of control power for routine maintenance.
- E. Sensing and control logic shall be solid-state and mounted on plug-in printed circuit boards. Printed circuit boards shall be keyed to prevent incorrect installation. Interfacing relays shall be industrial control grade plug-in type with dust covers.
- F. All standard control features shall be contained in this control module and will be equal to

ASCO Group G for 3 phase service. This group contains all of the following:

1. Voltage and Frequency Sensing
  2. Time Delays
  3. Engine Control Contacts
  4. Test Switch
  5. Indicators
- G. Provide the following accessories:
1. Engine generator exercising timer with toggle switch to select load, no-load operation. Adjustable in 15-minute increments. Factory set at 20 minutes minimum each week unless otherwise specified. Equivalent to ASCO 11BE.
  2. Switched neutral transfer contact.
- H. Inspection of all contacts (movable and stationary) shall be possible from the front of the switch without disassembly of operating linkages and without disconnections of power conductors. A manual operating handle shall be provided for maintenance purposes.
- I. The automatic transfer switch shall conform to the requirements of NEMA Standard ICS2-447 and Underwriters Laboratories UL 1008.
- J. The complete automatic transfer switch shall be tested as to ensure proper operation of the individual components and correct overall sequence of operation and to ensure that the operating transfer time, voltage, frequency and time delay settings are in compliance with the specification requirements. Submittals for approval shall include wiring diagrams, dimensional data, and complete description of operation.
- K. The transfer switch shall be furnished with an operator's manual providing installation and operating instructions.

## 2.9 GENERATOR DOCKING STATION

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
1. TRYSTAR, or prior approved equal.
- B. Docking station shall include 16 Series Camlok Panel Mounts for use as connection to Portable Generator.
- C. Entire package must be listed to ETL or UL 1008 Standards. UL listing of individual components is not acceptable.
- D. Enclosures:
1. NEMA 3R rain-tight, 304 GA aluminum enclosure
    - a. Pad-lockable front door shall include a hinged access plate at the bottom for entry of cables from portable generator or portable load bank. NEMA 3R integrity shall be maintained with access plate open for cable entry.
    - b. Front and side through a front access panel shall be accessible for maintenance.
    - c. Top, side, and bottom through a front access panel shall be accessible for

- permanent cabling.
- 2. Finishes:
  - a. Paint after fabrication. Powder coated Hammertone Gray.
- E. Phase, Neutral, and Ground Buses:
  - 1. Material: Silver-plated Copper
  - 2. Equipment Ground Bus: bonded to box.
  - 3. Isolated Ground Bus: insulated from box.
  - 4. Ground Bus: 50% of phase size.
  - 5. Neutral Bus: Neutral bus rated 100 percent of phase bus.
  - 6. Round edges on bus.
- F. Temporary generator connectors shall be Camlok style mounted on gland plate.
  - 1. Camlok shall be color coded according to system voltage
    - a. A phase – Brown
    - b. B phase – Orange
    - c. C phase – Yellow
    - d. N Neutral – White
    - e. G Ground – Green
- G. Temporary connectors shall include protective flip lids to prevent accidental contact.
- H. Permanent connectors shall be broad range set-screw type, located behind an aluminum barrier.
- I. Short Circuit & Withstand Rating
  - 1. Shall be minimum 65KAIC unless otherwise indicated on drawings.
- J. Voltage & Amperage:
  - 1. 150A, 480Y/277V
- K. Phase Rotation Monitor Device:
  - 1. Phase monitoring relay to be Siemens 3U4512-1AR20 or equal.
- L. Breaker Disconnect:
  - 1. Must be UL 489 Listed Breaker
  - 2. Breakers shall be removable for service and maintenance.
  - 3. Breaker shall have a pair of NO/NC auxiliary contacts to connect back to permanent generator remote annunciator panel.
- M. Additional accessories shall be included in submittal drawings as follows:
  - 1. Two Wire Auto Start
  - 2. Battery Charger Receptacle 20A GFCI 125V
  - 3. Block Heater Receptacle 30A L5-30 125V
  - 4. Extra Depth for Bottom Conduit Access
  - 5. Kirk Key Door Interlock

PART 3 - EXECUTION

3.1 INSTALLATION:

- A. Install genset on concrete pad whose dimensions exceed the weatherproof housing by at least six inches, all sides. Pad thickness shall be 12". Concrete shall be 2500 psi , reinforced with 8 ga wire fabric. Anchor genset to concrete pad as recommended by the manufacturer.
- B. Provide branch circuit wiring and necessary breakers for generator accessories.
- C. Wall mount the automatic transfer switch where indicated.
- D. Provide factory representative to conduct startup and testing. Testing shall comply with the requirements of NFPA 110, paragraph 5-13, "Installation Acceptance". Provide resistive load bank to conduct the tests.
- E. Upon completion of testing, the factory representative shall provide 8-hours of on-site training of the Owner's designated personnel.
- F. All wiring and interconnections shall be in accordance with commercial electrical standards. Installation drawings and complete wiring diagrams shall be furnished to the Owner.

END OF SECTION 26 60 11

SECTION 274116 – INTEGRATED AUDIO-VIDEO COMMUNICATIONS & THEATER EQUIPMENT

**PART 1 - GENERAL**

1.1.1 GENERAL

- A. This specification outlines Presentation Systems Contractor (PSC) requirements to furnish and install presentation systems and all low voltage wiring required for completely operational auditorium production systems in the Savannah Arts Academy Addition and Renovation project. All necessary equipment for sound, theater lighting, rigging, curtains, video, and control systems shall be required and provided by the PSC for a completely operational theater production and presentation system. A separate bid for all work required in conjunction with the stated A/V package for a complete and functioning electrical package.
- B. The systems shall not be considered complete until the completion of as-built documentation, final system commissioning, and facility personnel training. This facet of the services to be provided by the PSC is deemed very important to the satisfactory completion of the contract. To that end a final payment reserve of 10% of the system purchase price shall be held from payment until the documentation package and training described in Part III are delivered.

1.1.2 RELATED SECTIONS

- A. Architectural
- B. Electrical
- C. Fire Protection
- D. Mechanical

1.1.3 INTENT AND INTERPRETATIONS

- A. It is the intent of the Construction Documents that the PSC shall include all items necessary for the proper execution and completion of the project, resulting in complete and fully operational system(s) ready for the Owner's use, in full compliance with all applicable standards, codes and ordinances.
  - 1. Work or product not specifically indicated in the Construction Documents, but which are necessary to result in complete and fully operational system(s) ready for the Owner's use, shall be provided by the PSC.
  - 2. The specification of certain products in the Construction Documents shall not be construed as a release from furnishing such additional products and materials necessary to furnish complete and fully operational system(s) ready for the Owner's use.
- B. In the event that discrepancies exist or required items or details have been omitted in the Construction Documents, the PSC shall notify the Owner/Consultant in writing ten (10) days prior to the bid date. Failure to do so shall be construed as willingness to provide a complete and fully operational system within the amount bid by the PSC. Where such discrepancies are not brought to the attention of the Owner/Consultant, the most stringent (costly) requirements shall be construed to be the basis for the PSC's bid.
- C. Drawings and Specifications are complementary. Items required by either are binding as though they are required by both. In the event of conflict between the requirements of the Drawings and the Specifications:
  - 1. With regards to the preparation of proposals and/or bids, the PSC shall assume the more stringent (costly) condition shall prevail. The PSC shall notify the Owner/Consultant of such a minimum ten (10) days prior to the bid date.
  - 2. With regards to actual construction, the PSC shall notify the Owner/Consultant and await the Owner's/Consultant's instruction prior to proceeding with procurement and installation.
- D. Drawings:

**ADDENDUM NO. 1**

1. Drawings are diagrammatic and approximate in character, are not intended to show all features of required work, and do not necessarily indicate every required component.
2. Symbols used on the Drawings are defined in the legend on the Drawings. Symbols indicated on the legend may not necessarily be required.

#### 1.1.4 DEFINITIONS

- A. The term “Contractor”, “Supplier”, or “Presentation Systems Contractor (PSC)” as used herein refers to the party responsible for supplying all services and equipment covered herein and on related drawings.
- B. The term “Owner” shall refer to Savannah Chatham Public School System.
- C. The term “Consultant” shall refer to the consultant who is responsible for the design of the audio, video, and control systems.
- D. The term “Electrical Contractor” shall refer to the Division 26 contractor.
- E. The term “provide” will mean to supply, install, verify performance and coordinate interconnection and power.
- F. Specialized terms particular to technical systems and related work shall be used in the following manner, in accordance with:
  1. Captions on related drawings.
  2. Generally recognized audio engineering and production usage.
  3. Relevant usage and definitions of handbooks, guidebooks or trade group recommendations by manufacturers' associations or professional and engineering societies such as SMPTE, ICIA, UL, and NEMA.

#### 1.1.5 RELATED DOCUMENTS

- A. The PSC shall read, review and understand all documents listed below prior to bidding or proceeding with work. The PSC shall also refer to and understand all other related documents indicated herein. Failure to familiarize itself with the construction documents will not relieve the PSC of its responsibility to complete the work in accordance with the construction documents.
- B. Division 1: Applicable provisions of Division 1 shall govern all work under this section.
- C. Contract: In addition to the conditions and work described herein, all conditions of the Contract shall apply.
- D. Presentation System Drawings
  1. EPS-L LEGEND
  2. EPS-1.1 FIRST FLOOR AV PLAN
  3. EPS-1.2 FIRST FLOOR ACOUSTIC SYSTEM PLAN **REVISE ADDENDUM 1**
  4. EPS-1.3 FIRST FLOOR LIGHTING PLAN
  5. EPS-1.4 SECOND FLOOR LIGHTING PLAN
  6. EPS-1.5 THIRD FLOOR AV PLAN
  7. EPS-1.6 THIRD FLOOR ACOUSTIC SYSTEM PLAN
  8. EPS-2.1 FIRST FLOOR RCP
  9. EPS-2.2 FIRST FLOOR ACOUSTIC SYSTEM RCP
  10. EPS-2.3 THIRD FLOOR RCP
  11. EPS-2.4 LIGHTING RCP
  12. EPS-2.5 CURTAIN LAYOUT **REVISE ADDENDUM 1**
  13. EPS-3.1 AUDITORIUM SECTION **REVISE ADDENDUM 1**
  14. EPS-3.2 MOTORIZED HOIST RCP
  15. EPS-4.1 PRODUCTION PANEL DETAILS
  16. EPS-4.2 FACE PLATE DETAILS
  17. EPS-4.3 LOUDSPEAKER DETAILS
  18. EPS-4.4 EQUIPMENT RACK DETAILS
  19. EPS-4.5 HOIST DETAILS

### **ADDENDUM NO. 1**

- 20. EPS-4.6 LIGHTING DETAILS
- 21. EPS 4.7 VIDEO SYSTEM DETAILS
- 22. PS-1.1 AUDITORIUM AUDIO FLOW DIAGRAM ADDED ADDENDUM 1
- 23. PS-1.2 AUDITORIUM AUDIO FLOW DIAGRAM ADDED ADDENDUM 1
- 24.** PS-1.3 AUDITORIUM AUDIO FLOW DIAGRAM ADDED ADDENDUM 1
- 25. PS-1.4 AUDITORIUM AUDIO FLOW DIAGRAM ADDED ADDENDUM 1
- 26. PS-1.5 AUDITORIUM VIDEO FLOW DIAGRAM ADDED ADDENDUM 1
- 27. PS-1.6 AUDITORIUM CONTROL FLOW DIAGRAM ADDED ADDENDUM 1
- 28. PS-1.7 AUDITORIUM LIGHTING CONTROL FLOW DIAGRAM ADDED ADDENDUM 1
- 29. PS-1.7 AUDITORIUM POWER CONTROL FLOW DIAGRAM ADDED ADDENDUM 1

## 1.6 DESCRIPTION OF SYSTEMS

### A. AUDITORIUM SOUND SYSTEM

1. The auditorium shall be equipped to support presentations and productions of all sizes with high quality amplification of speech, program material content playback, and presentation audio for video playback. There will be 2 primary operational modes of the sound system.
2. The first mode will be the *Production Mode*. In this mode, primarily for theatrical productions or band / concert performances, the operator will have constant hands-on manual control of the mix and levels.
3. The second mode will be the *Presentation Mode*. In this mode, the audio levels from the laptop or other content and the presenter's microphone level will be controlled from the control system's touch panel. This system operates independently from the production equipment.
4. In the event there is a fire alarm instance, the sound system shall mute. Coordination with the fire alarm subcontractor is key to obtain a contact closure or other signal to engage the audio system accordingly.
5. The main mixing console shall have a minimum of 64 channel mixing capability. Inputs on stage shall be plugged into the mixers stage racks that are located in the equipment racks on each side of the stage. There shall be 2 locations from which to mix from, one in the control room and the other at the FOH position in the back of house. MADi connections from stage rack(s) shall be available at both locations.
6. The auditorium main loudspeaker system shall consist of a left/right configuration with subwoofers. Programmed settings such as equalization, limiting, and delay in the DSP, shall be done in a way as to keep the final room tuning settings away from normal operation and operators and shall be password protected.
7. There shall be audio inputs and outputs available on stage left, stage right, upstage and down stage floor boxes. There will be 2 wall boxes in the orchestra pit containing I/O as detailed on the drawings.
8. There shall be 4 discreet monitor mix feeds for floor wedges, side fills, or passive hotspots. Distribute the 4 monitor mix outputs to I/O plates around the stage according to flow drawings.
9. There shall be (connectivity) for wired personal in-ear mixing. In-ear to be added later by adding an optional card to the console to feed the in-ear mixers.
10. There shall be (2) audience ambient microphones to be used for live feeds to in-ear, ALS, record purposes, etc.
11. There shall be a RF based assisted listening system for the auditorium. The appropriate number of receivers shall be included in accordance with ADA regulations. Receivers shall have the ability to transmit audio to T-coil hearing aids and conventional ear-phones as well.
12. There shall be a distributed background and paging system. This system will serve lobbies, restrooms, green room, control room, foyers / lobbies, offices, workrooms, and dressing rooms. Additional content for these areas shall be a chime / tone generator to correspond to the amount of time left before curtain goes up. There shall be a paging microphone at the stage managers position and the control room.

### **ADDENDUM NO. 1**



13. A 2-channel production intercom system shall provide comfortable, intelligible communication between the various technicians, director, stage manager, and talent. Headset stations are located at the sound & lighting control positions, stage left, catwalk positions (4 ea), and will have press to talk wall-mounted stations in each dressing room. The main station will be located in the Stage Manager's Panel. In addition to these locations of intercom, there shall be intercom drops located in the dimmer rack room, stage, catwalk, and green/lobby area. Refer to drawings for all intercom drops.

#### B. AUDITORIUM VIDEO/PROJECTION SYSTEM

1. The auditorium shall be equipped to support lectures and productions with high definition imaging of computer and media playback sources. The projector shall be mounted on the upstage wall. There shall be a floor boxes down stage for the presenter to connect. There shall also be a feed in this floor box or stage wall panel to feed a roll-around LCD confidence monitor for the presenter. This will allow the presenter to see what's on the screen without the need to turn around.
2. There shall be a rear projection, electric screen suspended from a batten as shown on the drawings. The aspect ratio of the screen shall be 16:10.
3. Computer presentations to be conducted from both the control booth and the stage. Media playback includes a Blu-Ray, computer, or BluRay / DVD, located in control booth. System is to allow all digital inputs, HDMI, and is HDCP compliant.
4. A dedicated HD PTZ camera located on the face of the balcony will supply video to the IPTV system, (IPTV by others). IPTV will include displays in locations like the dressing rooms, offices, backstage, etc. The camera shall feed the AV system to be used for overflow, recording, or other production needs.
5. There shall be a rack mounted HD LCD monitor in the stage manager rack for previewing content and for seeing the stage from the balcony PTZ camera.

#### C. AUDITORIUM CONTROL SYSTEM

1. The remote-control system shall provide integration and control of key components using wired touch panels. Programming shall focus on operation of the presentation system ranging from simple podium events to manual operated productions. Menu shall include, but not limited to the following.
  - 1) Presentation or Production Mode
  - 2) Lighting pre-set recall
    - a. Contractor to provide 6 lighting presets per the owners guidance.
  - 3) System power cycle screen
    - a. All AV
    - b. Projector power
  - 4) A/V switcher screen
    - a. Source selection
      - i. Stage Laptop
      - ii. Booth Sources
      - iii. Stage Video
      - iv. Stage audio (MP3/CD)
    - b. Source audio volume in presentation mode
  - 5) PTZ camera control
  - 6) Media player commands
    - a. Bluray transport commands and menu functions
  - 7) Audio Control Screen
    - a. Level and mute for House mic A
    - b. Level and mute for House wireless B

### **ADDENDUM NO. 1**

- c. Route mic A to house, route mic A to backstage
- d. Route wireless B to house, route wireless B to backstage

#### D. AUDITORIUM LIGHTING

1. The auditorium shall be equipped with a state-of-the-art lighting system to support theatrical productions, projection presentations, and presenter meetings. Refer to lighting drawings for details on placements of lighting instruments.
2. The lighting console and dimming system shall be used to control the theatrical lights and the architectural house lights in and around the auditorium area. **(DELETE-The lighting system in the Conference Center shall be a stand-alone system and not tied to the auditorium system)** All fixtures shall be supplied complete with safety cable, c-clamp, lamp, lenses, DMX, power cables and extension cables as needed.
3. **The existing ETC SR48 dimmer rack shall be Upgraded with the latest control electronics retrofit kit with new CEM3, backplane, fan and all new dim/relay modules. House lights shall be controllable from walk-through entry stations at specified auditorium entrances and controls in the control booth. Control will be via ACN Network out to DMX Nodes for stage lighting and 0-10V Gateways for house lighting.**
4. **Stage lighting electric distribution shall be a connector strip at FOH and plug boxes at formentor locations. Overstage shall have 6 – 60' multi circuit drop cables with Veam 6-circuit fan-outs with stage pin connectors. Each drop cable will have counterweighted pick lines to lift the cable stack out of sight line.**
5. **There shall be wall box locations on stage for lighting receptacles for portable side lights, groundrows, and practicals. Refer to drawings for exact location.**
6. The Contractor is responsible for programming the following production scenes for initial commissioning.
  - 1) Band/Choral (full stage wash)
  - 2) Podium or Presentation Event
  - 3) House lights and presets for remote control system to recall
  - 4) Owner specified #1

#### E. CURTAINS

1. Stage curtains that travel shall be on motorized battens. **50%** fullness, **25oz.**, synthetic material, color **TBD.**
2. Material shall be the Charisma fabric
3. Rear flat muslin cyc on a motorized batten to move when the rear projector is in use.
4. Material to be flame resistant
5. **Curtain motor for Grand Drape.**
  - a. **Track mounted**
  - b. **LV control to wall switch and Stage Managers AV Rack.**

#### F. RIGGING SYSTEMS- Consult rigging drawing set. The rigging shall consist of line sets with:

1. Rigging systems contractor to remove all existing stage rigging systems, battens, curtain tracks, curtains for clear stage, grid, and stage house.
2. Motorized Rigging Set Requirements
  - a. Provide 10 line-shaft winch sets, each set consisting of (but not limited to) the following:
    - i. Capacity -- 1000 LBS.
    - ii. Speed -- 20 FPM
    - iii. Truss Batten Travel -- 34 feet
    - iv. Drum Diameter -- 8 inches
    - v. Cable Size -- ¼"
    - vi. Number of Drums -- 4
    - vii. Type of Limit Switches -- 4 Position

### ADDENDUM NO. 1

- b. General Standards
  - c. Paint as required under this section shall be the manufacturer's standard finish and Color as noted.
  - d. All equipment items shall be new and conform with applicable provisions of Underwriters' Laboratories and American Standards Association.
  - e. Where acceptable equipment items are specified by catalog number only, device shall meet all published manufacturer's specifications. Where quantities are not given, refer to drawings. Where two or more products are listed, contractor may use either, at his discretion. Equipment shall not be substituted without specific written approval by the Architect/Architect's Representative under the substitution paragraphs of these specifications.
3. Materials
- a. All turnbuckles, clips, tracks, chains and other items of incidental hardware shall be furnished plated or painted. Wire rope shall be galvanized. Fasteners, chains and other miscellaneous hardware shall be either cadmium or zinc plated.
  - b. All materials used in this project shall be new, unused and of the latest design. Refurbished materials are not permitted.
  - c. In order to establish minimum standards of safety, a minimum factor of 8 shall be used for all equipment and hardware used on this project. In addition, the following factors shall be used:
    - i. Cables and fittings: 8 Safety Factor
    - ii. Cable blending ratio: 30 times diameter
    - iii. Max: fleet angle 1 ½ degrees
    - iv. Steel: 1/5 of yield
    - v. Bearings: Two times required load at full for 2000 hours
4. MOTORIZED LINESHAFT RIGGING REQUIREMENTS:
- a. Furnish and install Motorized Line-shaft winches to raise and lower the stage battens and other stage equipment as specified herein.
  - b. Each winch shall operate at a fixed speed.
  - c. The batten shall travel from a low trim of 4'-0" above stage floor to approximately 1'-6" below the winch assemble.
  - d. Each line-shaft winch shall have drums alternately grooved for right- and left-hand winding to prevent the batten from traveling.
  - e. Drums shall be supported on each side with a flange block assembly.
  - f. Miscellaneous hardware such as battens, cable, etc. shall follow ANSI standards and specifications.
5. WINCH SYSTEM
- a. The gear reducer shall be a double reduction worm gear or a combination right angle helical worm gear reducer. Reducer shall have a minimum service factor of 1.25.
  - b. The AC brake-motor shall be 1750 RPM horsepower as required, three phase, 60 Hz with an integral brake. The brake shall be rated for 200% of the motor torque and be sized to stop and hold the moving load within four inches. Brake shall automatically be applied in case of power failure. Motor shall have a 1.0 service factor.
  - c. The cable drum diameter shall be a minimum of 32 times the cable diameter. The cable drums shall be of the proper length to hold all of the cable in a single layer. The cables shall be prevented from jumping out of the grooves by two 3/8 cable retainers. The drum shall hold a minimum of the cable required for travel plus three dead wraps. Drums are to be helically grooved for the appropriately sized cable and have key-slots for the easy connection of cables. The drum hub shall be keyed directly to the continuous shaft off the reducer. Chain or belt drives are not acceptable.
  - d. The winch frame shall be constructed of structural steel members, compactly designed to support the winch components and load in a minimum amount of space. In the frame shall be incorporated a cable keeper bar that is located next to the

**ADDENDUM NO. 1**

- grooves in each drum to prevent lines from jumping grooves and slack lines from unwinding.
- e. Shaft will be a steel drive sized and of material to prevent excess twisting due to load torque. Maximum twist to be 0.25 degrees per linear foot.
  - f. Shaft coupling to be flange type gear, or solid couplings. Chain couplings are not acceptable.
  - g. The integral line-shaft frame designed to support and align each drum, shall be made of structural channel, tubing, or wide flange beams. Systems without these integral members shall not be acceptable.
  - h. An internal brake shall be installed to stop a runaway system at 1 ½ times the rated speed.
  - i. Each winch shall have an adjustable four element limit switch which stops the winch at the upper and lower extremes of travel. Two of the elements shall be back-up or over travel limits, wired such that the winch cannot be operated until the cause of normal limit failure is determined and repaired.
6. LOW VOLTAGE MOTOR CONTROL PANEL:
- a. Push Button Wall Mounted 24volt Controller.
  - b. Push Button Control Station.
  - c. Control stations shall be wall mounted NEMA 1 enclosure, containing hold-to-run Up and Down pushbuttons for each hoist. A key operated On/Off switch with green LED indicating "Power On" shall be provided.
  - d. Provide main circuit breaker for the panel that must interlock with the panel door. Circuit breaker shall be sized to operate all motors at one time.
  - e. A red, mushroom head emergency stop pushbutton shall be provided, which shall disconnect power to the hoist through a circuit meeting NFPA-79 (Electrical Standards for Industrial Machinery) requirement.
  - f. Panel components including pushbuttons, key switches, switches, E-stop switches, and the like shall be industrial grade, heavy-duty components with 7/8 inch (22 mm) operators. Indicators shall be 5/16 inch (8 mm) minimum diameter.
  - g. Motor drives shall be Eurodrive
7. PIPE BATTENS:
- a. Truss Pipe Battens shall be 1-1/2" in diameter schedule 40 pipe fabricated into "ladder battens" as indicated on the drawings.
  - b. All battens shall be painted black to prevent rusting.
  - c. Where splicing in required, an internal sleeve 21 inches long and the same diameter as the inside diameter as the pipe shall be used. This sleeve shall be held in place with no less than four (4) 3/8" diameter grade 5 bolts.
  - d. Mark the center of each batten with a 1" wide yellow stripe.
  - e. Paint the last 1'-0" of each end of each pipe batten yellow.
- G. ACOUSTICAL ENHANCEMENT SYSTEM – BASIS OF DESIGN
- 1. Productions plans include drama, musical theater, dance, piano recitals, choral events, chamber music, jazz ensembles and fashion shows.
  - 2. Given the variety of events in the space, and knowing they would benefit from different acoustic conditions, require the option of an acoustic enhancement system.
  - 3. Yamaha has been designing and installing variable acoustic systems since the late 1980's. Yamaha's 4th generation of dedicated firmware / hardware / software designed specifically for these types of systems.
  - 4. AFC Sub-System Elements
    - i. House Early Reflection, or ER, System Elements
    - ii. 4 x Cardioid microphones distributed in a line to provide coverage of the front of stage feeding one AFC engine.

## ADDENDUM NO. 1

- iii. ER mics mounted with capsules having line of sight as far upstage as reasonable.
  - iv. ER mic height should be positioned as low as possible. Ideally, mics are within Dc of performers and the travel time to the microphones is as short as possible.
  - v. ER system output will be distributed among loudspeakers distributed along the side and rear walls as well as around the proscenium opening.
  - vi. The ER System output will also feed subwoofers. These subwoofers add warmth to the system, extending its bandwidth for full range enhancement.
  - vii. The ER System can also matrix in signals from the stage mics and REV signals.
  - viii. The sidewall ER system loudspeakers will also have movie surround signals merged with AFC signals for dual use of loudspeakers.
5. House Reverberation, or REV, System Elements
    - i. 4 x Omnidirectional microphones placed at or beyond Dc from the stage feeding one AFC engine.
    - ii. REV system output will be distributed among loudspeakers distributed near the ceiling, at or above the level of the clouds. REV signal may also be blended back to ER and Stage speakers.
  6. Stage System Elements
    - i. 4 x Cardioid microphones distributed over stage feeding one AFC4 engine.
    - ii. Stage System Outputs will be distributed among loudspeakers suspended over the stage to replace the function of an orchestra shell roof.

#### 1.7 SCOPE OF WORK

- A. Provide all labor and material for the complete installation of the presentation systems as hereafter specified and shown.
- B. PSC shall review the entire project package, including drawings and notes for other trades that may impact the Presentation Systems work, and make provision for such.
- C. Equipment shall be new, current production, with original warranty. Demo, refurbished, used or B-stock equipment shall not be acceptable.
- D. Quantities are listed for reference only. It is the PSC responsibility to verify quantities of all components.
- E. All equipment must be installed in a neat and orderly fashion by competent workmen according to the manufacturer's instructions.
- F. All system components shall be completely prewired with all field connections clearly labeled. All equipment shall be UL and or CE listed and shall comply with the National Electrical Code or equivalent authority and all applicable regulations of serving utilities and governmental bodies having jurisdiction.
- G. Presentation equipment shall not be stored at the job site. Equipment shall be moved to the job site from a conditioned space only when scheduled for installation.

#### 1.8 CONTRACTOR'S QUALIFICATIONS

- A. The PSC shall be a company that regularly engages in the furnishing and installation of systems similar in complexity to those required for this project and meet the following requirements.
  1. The primary business of the PSC shall be the sale and installation of professional performance related sound and video systems.
  2. No less than five years of experience with equipment and systems of the specified types.
  3. Proof of successful completion, with present key staff, of five projects of the type or magnitude of that specified herein.

### **ADDENDUM NO. 1**

4. Regular business under the same name and/or address for a period of five years.
  5. Be a franchised dealer and service facility for the major products furnished.
  6. Have technicians trained in the specific installation and maintenance of the equipment supplied.
  7. Have suitable service facilities and test equipment for providing competent service for all types of professional dimming, sound and A/V equipment.
  8. Maintain shop and office facilities within a 125-mile radius of the project site.
  9. Employ a minimum of 1 full time engineer with InfoComm International Certified Technology Specialist - Design (CTS-D) certification.
  10. Employ a minimum of 1 full time installer with InfoComm International Certified Technology Specialist - Installation (CTS-I) certification.
  11. Employ a minimum of 1 full time programmer that is a Crestron Certified Programmer.
  12. Employ a qualified "sound system and A/V production expert" with sufficient experience in production to providing training and assistance to the Owner during the initial system use period.
  13. Certifications for permanent staff members:
    - a. BiAmp Audio senior level programmer
    - b. Dante Level 3 Master Certification
    - c. InfoComm International Certified Technology Specialist - Design (CTS-D)
    - d. InfoComm International Certified Technology Specialist - Installation (CTS-I)
    - e. Crestron Master Programmer
    - f. Crestron Digital Media Engineer
    - g. EASE training
    - h. Extron AV Associate certification
    - i. Extron Advanced School AV Technologies
- B. At the request of the Owner, the PSC shall demonstrate to the satisfaction of the Architect and Consultant that the PSC has:
1. Adequate facilities and equipment to complete the work.
  2. Adequate staff with commensurate technical experience.
  3. Suitable financial status to meet the obligations of the work.
- C. Any other Contractor/Supplier who intends to bid this work as the prime Contractor/Supplier and does not meet the required qualifications shall employ the services of a single "Presentation Systems Contractor" who does meet the requirements noted above and is approved by the Owner. This "Presentation Systems Contractor" shall:
1. Furnish the equipment.
  2. Shop fabricate the equipment racks and subassemblies.
  3. Make all audio, video and control connections to equipment racks, each piece of equipment, and connection panels.
  4. Continuously supervise the installation and connections of cable and equipment.
  5. Program the digital signal processor, video processing systems and control system.
- D. A subcontractor so employed as the "Presentation Systems Contractor" must be acceptable to the Architect and the Consultant and shall be identified on the Bid Proposal Form.

#### 1.9 BID SUBMITTALS

- A. Along with the bid price, the PSC shall include the following:
1. Proposed team member names, certifications and biographies for each. Include names and biographies of service and technical support personnel who will be responsible for this project after completion.
  2. Equipment list noting equipment quantities, manufacturer, brief description and specification number.
  3. Statement that the bid is based on specified products.

### ADDENDUM NO. 1

4. Address of staffed office within 125 miles of the job site.
5. Statement that the Contractor has an established toll-free hot-line and will provide 24-hour/7-day-a-week phone support and on-site emergency service as necessary to correct technical failures.
6. List of five installations completed within the last three years, which are similar in size, type and scope to the work specified in this Section. Include project name, date of installation, name of contact and phone number.
7. Examples of typical design drawings (elevations, mounting details, millwork details, etc.)
8. A minimum of five touch panel menu templates from projects completed by the PSC.
9. Examples of training materials (PowerPoint slides, quick-start guide).
10. Target project schedule with timeline, skills and labor requirements.
11. Client reference letters.
12. Any proposed subcontractors, their qualifications, and scope of work.

#### 1.10 PROJECT SUBMITTALS

- A. Upon award of the contract, PSC shall provide:
1. Preliminary project schedule with timeline, skills and labor requirements.
  2. Name and qualifications of PSC personnel who shall be supervising the installation of the system. This person shall be a full-time employee of the PSC. The PSC shall submit a minimum of three (3) suitable bound sets, or electronic documents, of the following for review by the Architect and the Consultant. Refer to the General and Special Conditions for additional set(s) which may be required. All documents shall be submitted prior to ordering any materials.
  3. A complete list of all equipment and materials which are to be furnished. Accompanying the list shall be manufacturers' specification or cut sheets for all equipment.
  4. Shop drawings generated by the Contractor. The Contractor shall be provided with electronic copies of the floor plans, device layouts and room sections only for use in preparing their shop drawings. The Contractor is responsible for editing these sheets as required by these submittal requirements. The Contractor is required to generate all other sheets as required by these submittal requirements.
    - a. Detailed wiring diagrams showing interconnection of components and products, wiring and cabling diagrams depicting cable types and wire numbers, and device designators.
    - b. Plan view showing locations of all equipment. Plan(s) shall be properly dimensioned and all equipment labeled.
    - c. Wall elevations and room sections showing all installed equipment. Elevations and sections shall be properly dimensioned, and all equipment labeled.
    - d. Equipment rack layout details, including power, grounding, ventilation, and conduit/cable entry as applicable.
    - e. Loudspeaker system suspension schematic including hardware types and load capacity.
    - f. Complete drawings of custom-fabricated plates or panels. Drawings shall include dimensioned locations of components, component types, engraving information, plate material and color, and bill of material.
    - g. Power requirements, one-line riser diagrams, and installation circuit diagrams for electrical equipment. Show all required wire sizes and counts between all components.
    - h. Manufacturer's detailed shop drawings of all dimming, control and distribution equipment, and published literature for all equipment.

#### 1.11 FINAL INSPECTION AND TESTING

- A. In addition to supplying and installing the equipment as part of this contract the PSC is to aid the owner's consultant during on site observations, systems commission/performance verification, video system proof and owner training and production assistance.

### ADDENDUM NO. 1

- B. The process of testing the system may necessitate moving and adjusting certain components such as loudspeakers and video projectors. Movement and replacement as required is to be performed at no additional expense to the Owner.
- C. In the event further adjustment or Work becomes evident during testing, the Contractor shall continue his work until the system is acceptable at no additional expense to the Owner. If approval is delayed because of defective equipment, or failure of equipment or installation to meet the requirements of these specifications, the Contractor shall pay for additional time and expenses of the Consultant and Owner at the standard rate in effect at that time.

#### 1.12 WARRANTY

- A. All equipment is to be new and warranted free of faulty workmanship and damage.
- B. The total system (parts and labor) is to be warranted free of defects for a period of one year from date of final acceptance.
- C. The entire system (excluding lamps and fuses) shall be fully factory tested prior to shipment and shall be guaranteed against defects in material and workmanship for one year from date of acceptance by the Owner or (18) eighteen months from the date of shipment, whichever occurs first.
- D. No equipment having a shorter warranty shall be considered and equipment purchased shall be covered by this warranty. Unspecified length of warranties shall not be acceptable.
- E. Contractor shall provide for replacement of defective materials and repair of faulty workmanship within (48) forty-eight hours of notification by owner guaranteed at no cost to the owner during the warranty period.
- F. Contractor shall provide emergency service and support 24 hours a day and 7 days a week. This service is intended as emergency response to failures that require immediate help from a qualified systems technician. The Contractor shall provide this service through an established toll-free line. This emergency service must include a return call from a qualified systems technician within 2 hours. This emergency service must also provide an on-site visit from a qualified systems technician within 12 hours of the initial phone call, should it be deemed necessary by both parties to resolve the service issue. This emergency service and support shall be made available throughout the warranty period at no additional charge to the owner.
- G. Paint and exterior finishes, fuses and lamps are excluded from the above warranties except when damage or failure results from defective materials or workmanship covered by warranty.
- H. The minimum warranty provisions specified above shall not diminish the terms of individual equipment manufacturer warranties.

#### 1.13 INSTRUCTION OF OWNER PERSONNEL

- A. PSC is to provide at least ten hours (2 each five-hour sessions) of training to person(s) selected by the Owner on operation and basic maintenance of all systems and equipment. In addition to training, a representative of the Contractor knowledgeable of the system installation and operation is to be present for the first special events selected by the Owner that all or any part of the sound and video systems is used. The training and event attendance is to take place during the 30-day period after system completion.

### **PART 2 - PRODUCTS**

#### 2.0 GENERAL

- A. It is the intention of these specifications to provide a complete and properly operating system. The major items of equipment shall be furnished in the quantity indicated by the project drawings or in the quantity specified herein. In the event of a quantity discrepancy between the drawings and specifications for an item, the PSC shall provide the greater. PSC is responsible for

### **ADDENDUM NO. 1**



providing all accessories and miscellaneous equipment required to form a complete and operational system, including, but not limited to, power supplies, cabling, mounts, attachment hardware and software licenses.

- B. Provide only new products, and include the manufacturer's original factory warranty, product documentation and the latest version of any software required for configuration and/or operation.
- C. Where the specifications list several manufacturers for a particular major item of equipment, such as power amplifiers, the PSC shall supply all of that item of equipment from one manufacturer.
- D. Equivalent products can be proposed with appropriate documentation to show equivalent specifications. Items listed below in Schedule 1 are the models used in the Basis of Design.

Minimum Specifications for Equipment – Quantity per equipment list or drawings.

#### 2.1 DIGITAL MIXER STAGE BOXES – BASIS OF DESIGN

- A. The stage box shall be a 2RU rack mountable device
- B. The stage box shall connect to mixer by way of a Primary and Secondary DANTE connections
- C. The stage box shall have (16) mono analog inputs
- D. Acceptable manufacturers

##### 1. Yamaha RIO1608-D2 BASIS OF DESIGN

#### 2.2 DIGITAL AUDIO MIXER– BASIS OF DESIGN

- A. The mixer shall be capable of mixing 64 mono and 8 stereo channels
- B. The mixer shall have the capability to be controlled from an iPad with the proper application loaded.
- C. **The mixer shall have (32) local mono inputs and (16) outputs**
- D. The mixer shall have (3) slots for optional modules
- E. The mixer shall have as standard connections, I/O a Primary and Secondary DANTE, Ethernet, Word Clock, and AES/EBU output
- F. Acceptable manufacturers

##### 1. Yamaha QL-5 BASIS OF DESIGN

#### 2.3 NETWORK SWITCHES - DANTE– BASIS OF DESIGN

- A. The switch shall have 16 ports minimum
- B. The switch shall be an unmanaged switch
- C. The switch shall be at least 1Gb speed
- D. There shall be 8 ports of PoE
- E. Acceptable manufacturer/model, or better than:
  - 1. CISCO
  - 2. NetGear

#### 2.4 NETWORK SWITCHES - DANTE– BASIS OF DESIGN

- A. The switch shall have 16 ports minimum
- B. The switch shall be an unmanaged switch
- C. The switch shall be at least 1Gb speed
- D. There shall be 8 ports of PoE
- E. Acceptable manufacturer/model, or better than:
  - 1. CISCO
  - 2. NetGear
  - 3. Yamaha

#### 2.5 AUDIO SPEAKERS – MAIN FOH PERFORMANCE FULL RANGE (Qty per equipment list)

- A. Speakers to perform and mount in a line array coverage pattern
- B. Main loudspeakers are to be passive type

### ADDENDUM NO. 1

- C. Speakers shall be flown along with subwoofers
- D. Freq response of 59hz – 20khz minimum
- E. Acceptable manufacturer
  - 1. NEXO– BASIS OF DESIGN
  - 2. JBL
  - 3. L Acoustics

2.6 AUDIO SPEAKERS – MAIN FOH SUBWOOFERS (Qty per equipment list)

- A. Subwoofers to be flown next to full range speakers behind first reflector
- B. Subwoofer cabinets to be a single 18” driver
- C. Cabinet shall have necessary hardware necessary for flying speaker
- D. Freq response of 35hz – 120hz
- E. Acceptable Manufacturer
  - 1. NEXO– BASIS OF DESIGN
  - 2. JBL
  - 3. L Acoustics

2.7 AUDIO SPEAKERS – STAGE WEDGE MONITORS (Qty per equipment list)

- A. Speakers to be passive 2-way type
- B. Freq response 55hz-18khz or better
- C. The speaker shall have a 12” low freq. driver
- D. The speaker shall be rated at 550W continuous
- E. Provide NL4 to NL4 cables, per equipment list
- F. Acceptable manufacturers
  - 1. Yamaha– BASIS OF DESIGN
  - 2. JBL
  - 3. L Acoustics

2.8 AUDIO SPEAKERS – SURFACE MOUNT

- A. Mount with manufacture’s bracket at locations on drawings
- B. Speakers to be 70V with easy access to wattage tap selector switch
- C. Speakers to have nominal pattern coverage of 110°
- D. Speaker shall have continuous program power rating of 75W
- E. Acceptable manufacturers
  - 1. Community
  - 2. Yamaha– BASIS OF DESIGN
  - 3. JBL

2.9 AUDIO POWER AMPLIFIER – HOUSE

- A. Amplifiers shall have either a barrier strip or XLR connector for their balanced input connections.
- B. Amplifier to have 4 independent channels or bridgeable 2x2
- C. Output wattage to be 900W per channel into 4Ω
- D. Shall have no greater than 1% THD at 1Khz at maximum power
- E. Provide adequate electrical service for max output
- F. Acceptable manufacturers
  - 1. **NEXO – Basis of Design**
  - 2. Per main loudspeaker system requirements

2.10 AUDIO POWER AMPLIFIER – MONITORS

- A. Amplifier to have 4 separate channels, with built-in DSP
- B. Amplifiers shall have a 3-pin phoenix strip for each of the (4) balanced input connections.
- C. Amplifier to have phoenix strip connections for outputs

**ADDENDUM NO. 1**

- D. Output peak wattage to be 1400W per channel into 4Ω
- E. Provide adequate electrical service for max output
- F. Acceptable manufacturers
  - 1. Yamaha
  - 2. QSC
  - 3. Crown

#### 2.11 AUDIO AMPLIFIER – PAGING / BACKGROUND

- A. Amplifier shall have balanced inputs on barrier strip.
- B. Amplifier to have 8 independent 70V output channels
- C. Output wattage of each channel to be 500W minimum.
- D. Acceptable manufacturer
  - 1. Yamaha– BASIS OF DESIGN
  - 2. QSC
  - 3. Crown

#### 2.12 AUDIO DIGITAL SIGNAL PROCESSOR (DSP)

- A. DSP's shall meet the following minimum criteria
  - 1. Ability to be networked to allow for expansion and control
  - 2. Shall be able to configure with the necessary input and output quantity as required per drawings.
  - 3. Supports standard DSP functions such as but not limited to, auto-mixing, parametric EQ, compressing, Hi-Lo band pass, muting, routing, etc.
- B. Acceptable manufacturer
  - 1. Yamaha MX– BASIS OF DESIGN
  - 2. BiAmp TesiraServer
  - 3. BSS London
  - 4. QSC Core

#### 2.13 AUDIO MICROPHONES – WIRELESS PERFORMANCE

- A. The wireless microphones shall have the added capability of 64Mhz bandwidth of digital tuning
- B. There shall be 24-bit digital audio
- C. Over 120db of dynamic range
- D. Shall be easy pairing with IR scan and sync
- E. Provide the necessary antenna / power distribution for all receivers
- F. (Qty T.B.D.) systems; price each system with allowance for a head worn microphone for theater.
- G. Acceptable manufacturer
  - 1. Shure
  - 2. Sennheiser
  - 3. AKG

#### 2.14 AUDIO MICROPHONES – WIRED PERFORMANCE (Qty per equipment list)

- A. Provide handheld wired vocal microphones such as Shure SM58 or SM87
- B. Provide instrument microphones such as Shure SM57 or SM81
- C. Provide drum microphone kit such as a Shure DMK57-52
- D. Provide piano mic such as a BETA 91A or SM81
- E. Provide Choir microphones such as Audix Microboom 8450
- F. Acceptable manufacturers
  - 1. Shure
  - 2. Audix
  - 3. AKG

### ADDENDUM NO. 1

#### 2.15 AUDIO MEDIA PLAYBACK

- A. The audio player shall have a CD player
- B. The player shall have a Bluetooth receiver to allow playback through the system from user's phones, iPad, etc.
- C. The player shall have an 1/8" Aux input jack
- D. Audio player shall have stereo unbalanced analog outputs
- E. The player shall be remote control via Infrared control
- F. Acceptable manufacturers
  - 1. Tascam
  - 2. Denon
  - 3. Yamaha

#### 2.16 PRODUCTION INTERCOM

- A. The production intercom system shall be the analog party line solution
- B. The system master station shall be a 2-channel system
- C. The master station shall be able to power up to 55 single channel beltacks or 10 speaker stations or 12 headset stations distributed over both channels
- D. The master station shall accept a line level program input
- E. See associated schematic drawing to identify the type of user stations and locations
- F. Provide lightweight single muff headsets with all beltacks.
- G. Acceptable manufacturer
  - 1. Clearcom– BASIS OF DESIGN

#### 2.17 ASSISTIVE LISTENING SYSTEM

- A. ALS transmitter to be an RF based system
- B. The number of channels to be 17 wide band, 40 narrow band
- C. Provide appropriate number of receivers in accordance to ADA specification.
- D. The receivers shall be equipped to use the loop/lanyard for t-coil hearing aid users or the standard 3.5mm standard earphone output.
- E. Acceptable manufacturer
  - 1. Listen Technologies– BASIS OF DESIGN
  - 2. Williams

#### 2.18 VIDEO PROJECTOR – MAIN PRESENTATION

- A. The main presentation projector shall meet or exceed the following specifications.
  - 1. Native resolution: WUXGA, 1920x1200 (x3) LCD TFT Active Matrix
  - 2. Solid-state laser-diode light source
  - 3. Brightness: 12000 Lumens
  - 4. Contrast Ratio: 2,500,000:1
  - 5. Horiz and Vert Keystone correction
- B. Acceptable manufacturers
  - 1. Epson– BASIS OF DESIGN
  - 2. Christie
  - 3. Digital Projection

#### 2.19 PROJECTION SCREEN - AUDITORIUM

- A. The screens shall meet the following specifications.
  - 1. The aspect ratio is to be 16:10
  - 2. Electric screen with 24" black drop and LV control interface
  - 3. The image size shall be **180"H x 288"W**
  - 4. Screen material to be Dual Vision for rear screen Rear projector mounted on upstage wall

### ADDENDUM NO. 1

- B. Acceptable manufacturers
  - 1. Dalite– BASIS OF DESIGN
  - 2. Draper

#### 2.20 AUDITORIUM VIDEO PRESENTATION SWITCHER

- A. Video switching and routing must be able to transmit and receive a 4K signal up to 300'
- B. This signal must pass control protocol and audio. Audio to be able to be broken away separately from video path
- C. The switcher to be modular and configurable depending on the size and types of formats
- D. Switcher communications to support ethernet, USB, DigitalMedia, HDBaseT, HDMI
- E. Acceptable manufacturer
  - 1. Crestron– BASIS OF DESIGN
  - 2. AMX
  - 3. Extron

#### 2.21 CAMERA – PTZ USB

- A. The camera shall have a remote controllable 12X zoom lens
- B. The camera shall have a 73° field of view
- C. The output resolution shall be 1080p
- D. The camera shall have simultaneous uncompressed USB 3.0, HDMI, and IP (H.264) streaming.
- E. Remote management by IR, Web interface, Telnet, and RS232
- F. Power to be with 12VDC power supply or PoE+
- G. Acceptable manufacturer / model
  - 1. Vaddio RoboSHOT System– BASIS OF DESIGN

#### 2.22 BLU-RAY PLAYER

- A. Shall play back Blu-ray, DVD, and CD media
- B. Playback WAV, MP3, WMA, and other audio formats
- C. RS-232C serial control
- D. Infrared remote control included
- E. Acceptable manufacturer
  - 1. Tascam
  - 2. Dennon
  - 3. Sony

#### 2.23 RIGGING

- A. Refer to drawings for line set mounting locations.
- B. **(10) 1000lb. fixed speed hoists (electrics)**
  - 1. Acceptable manufactures
    - a. SRS– **Custom line shaft stage rigging system - BASIS OF DESIGN**
    - b. ETC
    - c. J R Clancy
- C. Controller for hoists / rigging
  - 1. Acceptable
    - a. Per Manufacture

#### 2.24 CONTROL SYSTEM – PROCESSORS

- A. The control processor shall include the necessary power supply
- B. The processor shall have a Ethernet LAN connection as well as an Ethernet Control Subnet connection
- C. The control processor shall have these available I/O options
  - 1. (8) Relay contact closures
  - 2. (8) Digital I/O connections

### ADDENDUM NO. 1

3. (8) IR / Serial outputs
  4. (1) RS-232/422 bi-directional output
  5. (2) RS-232 Bi-directional
  6. (1) USB connection
  7. (1) Cresnet connection
- D. Acceptable manufacturer
1. Crestron– BASIS OF DESIGN

#### 2.25 WIRED TOUCH PANELS

- A. Refer to drawings to verify the location, size, and type of touch panel.
  - B. Display type shall be a TFT active matrix color LCD, 5-point multi-touch
  - C. Provide necessary mounting hardware/box for wall mounted touch panels.
  - D. Provide a PoE connection for power for wall mounted touch panels
  - E. Acceptable manufacturer
1. Crestron– BASIS OF DESIGN

#### 2.26 PERFORMANCE LIGHTING CONSOLE

- A. The lighting console shall have internal solid-state memory
  - B. It shall have a 15.6" primary touch screen and a 7" secondary touch screen for control
  - C. 40 precision playback faders in 3 pageable groups
  - D. 20 programmable macro executor buttons
  - E. Includes 4-port managed Gigabit network switch
  - F. Acceptable manufacture
1. ETC High End Systems

#### 2.27 LIGHTING WALL BUTTON PANELS

- A. Provide 1-gang 5-button panels at designated locations in the auditorium for lighting control
  - B. Provide 1-gang 10 button panels at designated locations in the auditorium for lighting control
  - C. Acceptable manufacturer
1. ETC Heritage– BASIS OF DESIGN

#### 2.28 LIGHTING TOUCH SCREEN CONTROL

- A. Provide a 7" Link Connected touch-screen station
  - B. Acceptable manufacturer
1. ETC EchoTouch– BASIS OF DESIGN

#### 2.29 LIGHTING DIMMER RACK

- A. Existing dimming rack to control auditorium house and theatrical lights.
  - B. Factory upgrade retrofit kit to make existing dimmer function as new.
  - C. Include necessary network and 0-10V control gateways for stage and house lighting.
  - D. Dimmer rack to be populated with an assortment of dual 20A dimming modules and dual 20A relay modules.
  - E. Emergency transfer switches to be provided.
  - F. Acceptable manufacturer
1. ETC– BASIS OF DESIGN

#### 2.30 PERFORMANCE LIGHTING – LED PAR FIXTURES

- A. The performance lighting par fixtures shall use LED technology
- B. Light Source: 40 LUXEON Z LEDs (quad color RGBL)
- C. The fixtures shall have 50,000 Hr. life expectancy
- D. Max Lumens 3,039
- E. Include three lens per fixture
- F. Include one 10' PowerCON Jumper per fixture

### ADDENDUM NO. 1

**G. Quantity: per equipment list.**

**H. Acceptable manufacturer**

1. Chauvet
2. ETC

2.31 PERFORMANCE LIGHTING – LED ELLIPSOIDAL FIXTURES

**A. The performance lighting ellipsoidal fixtures shall use LED technology**

**B. Light Source: 60 LUXEON Z LEDs (quad color RGBL)**

**C. The fixtures shall have 50,000 Hr. life expectancy**

**D. Max Lumens 6,932**

**E. Supply assortment of 19°, 26°, and 36° lens tubes as needed**

**F. Include one 10' PowerCON Jumper per fixture**

**G. Quantity: per equipment list.**

H. Acceptable manufacturer

1. Chauvet
2. ETC

2.32 PERFORMANCE LIGHTING – CYC FIXTURES

A. The performance lighting cyc fixtures shall use LED technology

**B. Light Source: 40 LUXEON C LEDs (Red, Green, Blue, Indigo & Green)**

**C. Variable effects engine; strobe, strobe on top, strobe random**

**D. Max Lumen 4,117**

**E. The fixtures shall have 50,000 Hr. life expectancy**

**F. Include one 10' PowerCON Jumper per fixture**

**G. Quantity: per equipment list.**

H. Acceptable manufacturer

1. Chroma-Q
2. ETC

2.33 PERFORMANCE LIGHTING – SPOTLIGHTS

A. The spotlight shall have a throw of 30'-150'

B. The beam angle shall be from 8° to 22°

C. Input voltages – 100V, 120V, 230V, and 250V

D. Include framing shutter option

E. Quantity: 2

F. Acceptable Manufacturer

1. Canto USA

2.34 LIGHTING FLOOR BOXES

A. Acceptable manufacturer

1. ETC
2. SSRC

2.35 STAGE CURTAINS

A. Shall be classified as Class A compliant for areas of assembly

B. Stage Curtains consist of:

1. **Front Grand Drape (2) Size Per drawings and equipment list**
2. **Grand Valance (1) Size Size Per drawings and equipment list**
3. **Pleated Legs (8) Size Per drawings and equipment list**
4. **Mid Stage traveler (2) Size Per drawings and equipment list**
5. **Cyclorama (1) Size Per drawings and equipment list**
6. **Borders – (3) Size Per drawings and equipment list**

**ADDENDUM NO. 1**

- C. Curtain fabric to be **25oz.** Charisma fabric
- D. Curtains shall be **50%** fullness
- E. 5" Bottom hems with lead weight tape encased in separate muslin for added durability
- F. (3) 70' manual curtain tracks.
- G. Acceptable manufacturers
  - 1. Charisma (Fabric)
  - 2. Stage Decorations
  - 3. Greenville Stage (Curtains)

#### 2.36AV FLOOR BOXES –UPSTAGE

- A. Provide large floor boxes as indicated on drawings.
- B. Acceptable manufacture
  - 1. Ace Backstage
  - 2. FSR

#### 2.37AV FLOOR BOXES – DOWN STAGE CENTER

- A. Provide floor boxes as indicated on drawings.
- B. Acceptable manufacture
  - 1. Ace Backstage
  - 2. FSR

#### 2.38MISC SUPPORT EQUIPMENT

- A. Equipment Racks
  - 1. Refer to drawings for location and size of equipment racks.
  - 2. Provide rack panel blanks and vents to best fill in unused rack spaces.
  - 3. Freestanding and Wall racks shall provide standard 19"W space to mount equipment.
  - 4. The number of rack units shall be enough to house all equipment based on the system design. Population of rack to be 75%-80% with the remainder open for future growth.
  - 5. Where rear access is not possible to rack, provide a sliding and swiveling rack instead.
    - a. Acceptable Manufacturer
      - 1) Middle Atlantic
      - 2) Gator

#### **2.39 ORCHESTRA SHELL (REVISE ADDENDUM 1 SEE APPENDIX 1.O)**

- 1. **Portable Orchestra Shell Towers:**
  - iii. **\* Standard Wenger Construction**
  - iv. **\* Price includes 2022 delivery and installation.**
- 2. **Legacy Towers w/Painted Finish:**
- 3. **Consists of:**
  - v. **(12) LEGACY TOWERS,**
  - vi. **6' Wide, 13'6" Tall**
  - vii. **Face Finish - Sherwin Williams Kem Aqua**
  - viii. **Paint (Class 'A')**
- 7. **Acoustic Ceiling Clouds with paint finish**
  - i. **Single row of 8'x8' curved reflective ceiling diffusers.**

### **ADDENDUM NO. 1**



**2.40 SCHEDULE OF BASIS OF DESIGN EQUIPMENT**

**This is a list of the major items used in the design. The integrator is responsible for all ancillary and accessory items needed to integrate a fully operational system as intended.**

<b>2.40.1 Audio Mixing Systems</b>				
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>AM1</u>	<u>Yamaha</u>	<u>Rio-1608D2</u>	<u>16 input x 8 output mic/line interface with Dante</u>	<u>3</u>
<u>AM2</u>	<u>Yamaha</u>	<u>QL-5</u>	<u>64 input x 16 output digital mixing console with Dante</u>	<u>1</u>
<u>AM3</u>	<u>Yamaha</u>	<u>LA1L</u>	<u>LED Gooseneck Console Lamp</u>	<u>2</u>
<u>AM4</u>	<u>Yamaha</u>	-	<u>Cover for QL-5</u>	<u>1</u>
<u>AM5</u>	<u>Gator</u>	-	<u>Portable rack case for Rio-1608D</u>	<u>1</u>
<u>AM6</u>	<u>Tascam</u>	<u>CD-200iL</u>	<u>Professional Single CD Player iPod Dock (30-Pin &amp; Lighting Connection) Unbalanced RCA Audio Outputs MP3 &amp; WAV Playback, 2RU</u>	<u>1</u>
<b>2.40.2 Audio Drive Systems</b>				
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>AD1</u>	<u>Yamaha</u>	<u>MRX7-D</u>	<u>Digital signal processor with Dante</u>	<u>1</u>
<u>AD2</u>	<u>Yamaha</u>	<u>XVM4280D</u>	<u>4 channel x 280W power amp (stage monitors)</u>	<u>1</u>
<u>AD3</u>	<u>Yamaha</u>	<u>XVM4280D</u>	<u>4 channel x 280W power amp (backstage, control booth)</u>	<u>1</u>
<u>AD4</u>	<u>Nexo</u>	<u>NXAMP4X2MK2</u>	<u>4 channelx2000W power amp (Main Loudspeakers)</u>	<u>2</u>
<u>AD5</u>	<u>Nexo</u>	<u>NXDT104MK2</u>	<u>Nexo, Dante Card for NXAMP - MK 2</u>	<u>2</u>
<u>AD6</u>	<u>Cisco</u>	<u>Cisco SG300-10PP</u>	<u>Network switch for Dante #1,#2,#3-Primary in ER2.1, ER2.2, ER3.1</u>	<u>3</u>
<u>AD7</u>	<u>Netgear</u>	<u>WNDR3400-11NAS</u>	<u>Wireless access point for AV systems</u>	<u>1</u>
<u>AD8</u>	<u>Listen Technologies</u>	<u>LS-54-072</u>	<u>Listen iDSP Prime Level II Stationary RF System (72 MHz) (LT-800/LR-4200 included)</u>	<u>1</u>
<u>AD9</u>	<u>ListenTech</u>	<u>LR-4200-072</u>	<u>ALS receivers</u>	<u>20</u>
<u>AD10</u>	<u>ListenTech</u>	<u>LA-430</u>	<u>ALS Headphone/t-coil lanyard</u>	<u>5</u>
<u>AD11</u>	<u>ListenTech</u>	<u>LA-401</u>	<u>Universal ear speaker</u>	<u>20</u>
<b>2.40.3 Audio Loudspeaker Systems</b>				
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>AS1</u>	<u>Yamaha</u>	<u>VXS5W</u>	<u>(Pair) 5" 2-way surface mount loudspeaker with 70V Transformer (backstage)</u>	<u>2 pair</u>
<u>AS2</u>	<u>Yamaha</u>	<u>VXS8B</u>	<u>(Pair) 8" 2-way surface mount loudspeaker with 8Ohm (control booth)</u>	<u>1 pair</u>
<u>AS3</u>	<u>Lowell</u>	<u>25LVX-DW</u>	<u>25W wall mount volume control (backstage)</u>	<u>4</u>
<u>AS4</u>	<u>Lowell</u>	<u>150LVCS-DSB</u>	<u>150W wall mount volume control</u>	<u>1</u>

**ADDENDUM NO. 1**

			(control booth)	
<u>AS5</u>	<u>Yamaha</u>	<u>CBR-12</u>	<u>12" 2-Way stage monitor loudspeaker</u>	<u>6</u>
<u>AS6</u>	<u>Rapco</u>	<u>H14-25N2N2</u>	<u>25' NL-2 stage monitor loudspeaker cable</u>	<u>6</u>
<u>AS7</u>	<u>Rapco</u>	<u>H14-10N2N2</u>	<u>10' NL-2 stage monitor loudspeaker cable</u>	<u>6</u>
<u>AS8</u>	<u>Neutrix</u>	<u>NL4-MMX</u>	<u>NL-2/4 coupler</u>	<u>8</u>
<u>AS9</u>	<u>Nexo</u>	<u>GEOM1012-I</u>	<u>Nexo Geo M, Geo M1012 Install Cabinet</u>	<u>8</u>
<u>AS10</u>	<u>Nexo</u>	<u>GEOM1025-I</u>	<u>Nexo Geo M, Geo M1025 Install Cabinet</u>	<u>4</u>
<u>AS11</u>	<u>Nexo</u>	<u>GMT-FLGM10</u>	<u>Nexo Acc, Pair of 120 Degree Dispersion Flanges Geo M10</u>	<u>4</u>
<u>AS12</u>	<u>Nexo</u>	<u>GMT-LBUMPM10</u>	<u>Nexo Acc, Light Bumper for Geo M10</u>	<u>2</u>
<u>AS13</u>	<u>P.S.C.</u>	<u>as required</u>	<u>Rigging accessories for Geo M10 loudspeaker arrays</u>	<u>TBD</u>
<u>AS14</u>	<u>Nexo</u>	<u>LS18</u>	<u>Nexo PS, 18" Subwoofer Sub Bass for PS15/GeoS12 Flyable</u>	<u>4</u>
<b>2.40.4 Audio Wireless Microphone Systems</b>				-
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>AW1</u>	<u>Shure</u>	<u>QLXD124/85</u>	<u>24-bit Digital Combo System, w/QLXD4 Single Receiver, QLXD1 Bodypack, QLXD2 Handheld SM58 Mic Transmitter, and WL185 Cardioid Lavalier Mic, J50 Band (572-636 MHz)</u>	<u>1</u>
<u>AW2</u>	<u>Shure</u>	<u>ULXD1-G50</u>	<u>Digital Wireless Bodypack Transmitter w/Mini 4-Pin Connector, G50 Band (470-534 MHz)</u>	<u>16</u>
<u>AW3</u>	<u>Galaxy</u>	<u>ESM8-OB*-4SHU</u>	<u>headworn wireless microphone – *provide 16 beige (G) and 16 black (K).</u>	<u>32</u>
<u>AW4</u>	<u>Shure</u>	<u>ULXD4Q-G50</u>	<u>ULX-D Quad Digital Wireless Receiver, (470-534MHz) Includes Rackmount, 1/2 Wave Antenna, 1RU</u>	<u>4</u>
<u>AW5</u>	<u>Shure</u>	<u>Shure ULXD2/BETA87A</u>	<u>Handheld transmitter</u>	<u>8</u>
<u>AW6</u>	<u>Shure</u>	<u>UA844+SWB</u>	<u>Wideband UHF (470-952 MHz) Five-Way Active Antenna Splitter and Power Distribution System, external power supply. For QLX-D®, ULX®, ULX-D®, SLX®, and BLX® (BLX4R only) receivers. 1RU</u>	<u>2</u>
<u>AW7</u>	<u>Shure</u>	<u>UA834WB</u>	<u>In-Line Antenna Amplifier for Remote-Mounting 470-902 MHz</u>	<u>2</u>
<u>AW8</u>	<u>Shure</u>	<u>UA864US</u>	<u>Wall-Mounted Wideband Antenna (470-698 MHz)</u>	<u>2</u>
<u>AW9</u>	<u>Shure</u>	<u>Shure MX150b/C-tgg</u>	<u>Cardioid Lavalier Mic</u>	<u>16</u>
<b>2.40.5 Audio Microphone Systems</b>				-
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>

**ADDENDUM NO. 1**

<u>AM1</u>	<u>Shure</u>	<u>SM58-LC</u>	<u>Dynamic Handheld Cardioid Vocal Microphone. (Less Cable)</u>	<u>8</u>
<u>AM2</u>	<u>Shure</u>	<u>SM57-LC</u>	<u>Dynamic Handheld Cardioid Vocal Microphone. (Less Cable)</u>	<u>4</u>
<u>AM3</u>	<u>Shure</u>	<u>DMK57-52</u>	<u>Drum kit</u>	<u>1</u>
<u>AM4</u>	<u>Shure</u>	<u>SM81</u>	<u>Condenser instrument mic</u>	<u>2</u>
<u>AM5</u>	<u>Shure</u>	<u>Beta 87</u>	<u>Handheld condenser mic</u>	<u>6</u>
<u>AM6</u>	<u>Audix</u>	<u>MICROBOOM50</u>	<u>50-inch (1270mm) carbon fiber boom and clutch assembly only - no mic, no cable</u>	<u>4</u>
<u>AM7</u>	<u>Rapco Horizon</u>	<u>NBM5-10</u>	<u>10' Concert Series Microphone Cable - Neutrik Connectors</u>	<u>8</u>
<u>AM8</u>	<u>Rapco Horizon</u>	<u>NBM5-25</u>	<u>25' Concert Series Microphone Cable - Neutrik Connectors</u>	<u>20</u>
<u>AM9</u>	<u>Rapco Horizon</u>	<u>M5-50</u>	<u>Professional M5 Series Shielded Microphone Cable, w/ A3 (F/M) Connectors, 50' Long</u>	<u>12</u>
<u>AM10</u>	<u>Rapco</u>	<u>SP4-25</u>	<u>Concert Series Neutrik NL4FC to NL4FC Speaker Cable, w/Speakon Connectors, 25' Long</u>	<u>8</u>
<u>AM11</u>	<u>Rapco</u>	<u>SP4-50</u>	<u>Concert Series Neutrik NL4FC to NL4FC Speaker Cable, w/Speakon Connectors, 50' Long</u>	<u>2</u>
<u>AM12</u>	<u>ProCo Sound</u>	<u>DB1</u>	<u>Passive Direct Box, 1/4 in. Phone Input w/Loop Thru, Balance</u>	<u>1</u>
<u>AM13</u>	<u>Atlas Sound</u>	<u>MS-10CE</u>	<u>Mic Floor Stand Ebony Finish (Must Buy 4)</u>	<u>26</u>
<u>AM14</u>	<u>Atlas Sound</u>	<u>PB21XEB</u>	<u>Performer Series Microphone Boom, Adjustable Length: 25.25"-38.5", Ebony</u>	<u>26</u>
<b><u>2.40.6 Equipment Racks and Wall Plates</u></b>				<u>-</u>
<u>AR1</u>	<u>Middle Atlantic</u>	<u>SR-40-28</u>	<u>40-Space (70" Racking Height) Swinging Wall Rack, 26" Useable Depth</u>	<u>AS REQ</u>
<u>AR2</u>	<u>Middle Atlantic</u>	<u>VFD-40</u>	<u>Universal Front Door for 40-Space Rack - Vented</u>	<u>AS REQ</u>
<u>AR3</u>	<u>Middle Atlantic</u>	<u>Lace-P</u>	<u>6PC,45SP CABLE LACE STRIP</u>	<u>AS REQ</u>
<u>AR4</u>	<u>Panduit</u>	<u>PADC2BL6</u>	<u>PVC Wiring Duct Cover (2.25"W) Black, 6' Length</u>	<u>AS REQ</u>
<u>AR5</u>	<u>Middle Atlantic</u>	<u>PADG2X3BL6</u>	<u>Slot Wiring Duct (2.25"W x 3.12"H) Black, 6' Length</u>	<u>AS REQ</u>
<u>AR6</u>	<u>Middle Atlantic</u>	<u>MAP-HP</u>	<u>Rack Mount Phillips Screws w/Washers (100 Pcs.)</u>	<u>AS REQ</u>
<u>AR7</u>	<u>Middle Atlantic</u>	<u>EB-1 LOGO</u>	<u>1-Space Econo Flanged Blank Panel--SFPS Logo</u>	<u>AS REQ</u>
<u>AR8</u>	<u>Middle Atlantic</u>	<u>EB-1</u>	<u>1-Space Econo Flanged Blank Panel--Smooth Finish.</u>	<u>AS REQ</u>
<u>AR9</u>	<u>P.S.C.</u>	<u>Misc .5</u>	<u>Necessary Cables, Connectors, Accessories</u>	<u>AS REQ</u>
<u>AR10</u>	<u>Middle Atlantic</u>	<u>BR1</u>	<u>1U Brush Grommet Panel</u>	<u>AS REQ</u>
<u>AR11</u>	<u>Middle Atlantic</u>	<u>KB-SS</u>	<u>Keyboard Sliding Shelf with Cable</u>	<u>AS</u>

**ADDENDUM NO. 1**

			<u>Management, 1RU</u>	<u>REQ</u>
<u>AR12</u>	<u>Middle Atlantic</u>	<u>D3</u>	<u>3-Space (5.25 in.) Rack Drawer, Black Anodized Finish</u>	<u>AS REQ</u>
<u>AR13</u>	<u>Middle Atlantic</u>	<u>D2</u>	<u>2-Space (3 in.) Rack Drawer, Black Anodized Finish</u>	<u>AS REQ</u>
<u>AR14</u>	<u>Middle Atlantic</u>	<u>EB-4</u>	<u>4-Space Econo Flanged Blank Panel-- Smooth Finish.</u>	<u>AS REQ</u>
<u>AR15</u>	<u>P.S.C.</u>	<u>PLACEHOLDE R - Generic</u>	<u>LT-GN-PNL Rack Light</u>	<u>4</u>
<u>AR16</u>	<u>P.S.C.</u>	<u>PLACEHOLDE R - Generic</u>	<u>Panelcrafters Custom Rack Panel for Touch Panel &amp; Lighting Panel</u>	<u>2</u>
<u>AR17</u>	<u>P.S.C.</u>	<u>PLACEHOLDE R - Generic</u>	<u>Panelcrafters Custom Paging Station Rack Panel</u>	<u>2</u>
<u>AR18</u>	<u>Lowell Mfg.</u>	<u>RPC-4-CD</u>	<u>15A Remote Power Control Rack-Mount w/4 Duplex RU2 Panel, 6Ft. Cord &amp; Plug</u>	<u>4</u>
<u>AR19</u>	<u>Lowell Mfg.</u>	<u>RPC-1-20A-CD</u>	<u>20 Amp (1-Duplex) Remote Controlled Power Relay with 6 Ft. Power Cord</u>	<u>18</u>
<u>AR20</u>	<u>P.S.C.</u>	<u>PLACEHOLDE R - Generic</u>	<u>Gator Cases G-Tour-14-CAST</u>	<u>1</u>
<u>AR21</u>	<u>Middle Atlantic</u>	<u>D2</u>	<u>2-Space (3 in.) Rack Drawer, Black Anodized Finish</u>	<u>1</u>
<u>AR22</u>	<u>Middle Atlantic</u>	<u>EB-1 LOGO</u>	<u>1-Space Econo Flanged Blank Panel-- SFPS Logo</u>	<u>1</u>
<u>AR23</u>	<u>P.S.C.</u>	<u>Misc .25</u>	<u>Necessary Fastening Hardware, Accessories</u>	<u>1</u>
<u>AR24</u>	<u>Panduit</u>	<u>PADC2BL6</u>	<u>PVC Wiring Duct Cover (2.25"W) Black, 6' Length</u>	<u>1</u>
<u>AR25</u>	<u>Panduit</u>	<u>PADG2X3BL6</u>	<u>Slot Wiring Duct (2.25"W x 3.12"H) Black, 6' Length</u>	<u>1</u>
<u>AR26</u>	<u>Middle Atlantic</u>	<u>BRK6</u>	<u>6-Space (10.5in.) KD Laminated Equipment Rack, 18In.Depth, Black Finish</u>	<u>1</u>
<u>AR27</u>	<u>Middle Atlantic</u>	<u>EB-1 LOGO</u>	<u>1-Space Econo Flanged Blank Panel-- SFPS Logo</u>	<u>1</u>
<u>AR28</u>	<u>Middle Atlantic</u>	<u>D2</u>	<u>2-Space (3 in.) Rack Drawer, Black Anodized Finish</u>	<u>1</u>
<u>AR29</u>	<u>P.S.C.</u>	<u>Misc .25</u>	<u>Necessary Fastening Hardware, Accessories</u>	<u>1</u>
<u>AR30</u>	<u>Panduit</u>	<u>PADC2BL6</u>	<u>PVC Wiring Duct Cover (2.25"W) Black, 6' Length</u>	<u>1</u>
<u>AR31</u>	<u>Panduit</u>	<u>PADG2X3BL6</u>	<u>Slot Wiring Duct (2.25"W x 3.12"H) Black, 6' Length</u>	<u>1</u>
<u>AR32</u>	<u>Hosa Technology</u>	<u>XLR-805</u>	<u>8-channel XLR3F to XLR3M balanced audio snake, 5 meters in length, fan to fan.</u>	<u>1</u>
<u>AR33</u>	<u>Hosa Technology</u>	<u>XLR-805</u>	<u>8-channel XLR3F to XLR3M balanced audio snake, 5 meters in length, fan to fan.</u>	<u>2</u>
<u>AR34</u>	<u>P.S.C.</u>	<u>PP1.1</u>	<u>Rack space custom panel – panels and connectors per EPS4.1</u>	<u>1</u>
<u>AR35</u>	<u>P.S.C.</u>	<u>PP1.2</u>	<u>Rack space custom panel – panels</u>	<u>1</u>

**ADDENDUM NO. 1**

			<u>and connectors per EPS4.1</u>	
<u>AR36</u>	<u>P.S.C.</u>	<u>PP1.3</u>	<u>Rack space custom panel – panels and connectors per EPS4.1</u>	<u>1</u>
<u>AR37</u>	<u>P.S.C.</u>	<u>PP2.1</u>	<u>8"x8" custom panel – connectors per EPS 4.1 Lower Booth</u>	<u>1</u>
<u>AR38</u>	<u>P.S.C.</u>	<u>PP2.2</u>	<u>8"x8" custom panel – connectors per EPS 4.1 Under Balc.</u>	<u>1</u>
<u>AR40</u>	<u>P.S.C.</u>	<u>PP2.3</u>	<u>8"x8" custom panel – connectors per EPS 4.1 Stage Apron</u>	<u>1</u>
<u>AR40</u>	<u>P.S.C.</u>	<u>CAM 1.1</u>	<u>2G custom plate for camera connection</u>	<u>1</u>
<u>AR41</u>	<u>P.S.C.</u>	<u>D1.x</u>	<u>1G custom plate for lighting network</u>	<u>As req</u>
<u>AR42</u>	<u>P.S.C.</u>	<u>IC1.x</u>	<u>1G custom plate for production intercom</u>	<u>As req</u>
<u>AR43</u>	<u>P.S.C.</u>	<u>ST1.x</u>	<u>2G custom plate for loudspeaker connection</u>	<u>As req</u>
<u>AR44</u>	<u>P.S.C.</u>	<u>ST2.x</u>	<u>1G custom plate for loudspeaker connection</u>	<u>As req</u>
<b><u>2.40.7 Audio Equipment Production Intercom</u></b>				<u>-</u>
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>Icom 1</u>	<u>P.S.C.</u>	<u>PLACEHOLDER - Generic</u>	<u>Panelcrafters 1-Gang Plate w/ 2 XLR Intercom Connectors</u>	<u>5</u>
<u>Icom 2</u>	<u>Clear-Com</u>	<u>MS-702</u>	<u>Encore 2 Channel Headset/Speaker Main Station. Rack Mount 1RU.</u>	<u>1</u>
<u>Icom 3</u>	<u>Clear-Com</u>	<u>-</u>	<u>Clear-Com GM-9 Gooseneck Mic</u>	<u>1</u>
<u>Icom 4</u>	<u>Clear-Com</u>	<u>-</u>	<u>Clear-Com RS-702 Dual Listen Belt-pack</u>	<u>11</u>
<u>Icom 5</u>	<u>Clear-Com</u>	<u>-</u>	<u>Clear-Com CC-40 Economy Single Ear Headset</u>	<u>11</u>
<u>Icom 6</u>	<u>Clear-Com</u>	<u>-</u>	<u>Intercom Wall Plate</u>	<u>11</u>
<b><u>2.40.8 Audio Acoustic System</u></b>				<u>-</u>
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>AS1</u>	<u>Audix</u>	<u>SCX-1-C</u>	<u>Suspended cardioid microphone</u>	<u>8</u>
<u>AS2</u>	<u>Audix</u>	<u>SCX-1-O</u>	<u>Suspended omni microphone</u>	<u>4</u>
<u>AS3</u>	<u>Yamaha</u>	<u>AFC402-E</u>	<u>AFC ENHANCE Processor for projects with up to two sub-systems - TENTATIVE PRICING PENDING APPROVAL</u>	<u>1</u>
<u>AS4</u>	<u>Yamaha</u>	<u>TIO1608</u>	<u>16 input x 8 output mic/line interface with Dante</u>	<u>1</u>
<u>AS5</u>	<u>Yamaha</u>	<u>SWR2310-28GT</u>	<u>Dante Switch ER1.1 L2 Intelligent Network Switch (28 ports) with 10G uplink</u>	<u>1</u>
<u>AS6</u>	<u>Yamaha</u>	<u>XMV8280D</u>	<u>8-Channel Amplifier</u>	<u>12</u>
<u>AS7</u>	<u>Yamaha</u>	<u>VXS-8W</u>	<u>Surface mount loudspeaker (Proscenium) (Pair) 8" 2-Way Surface Mount Speakers, White Version (Pair) 8" 2-Way Surface Mount Speakers, White Version Custom paint per architect color selection</u>	<u>3 pair</u>

**ADDENDUM NO. 1**

<u>AS8</u>	<u>Yamaha</u>	<u>VXS-8W</u>	<u>Surface mount loudspeaker (Upper side walls) (Pair) 8" 2-Way Surface Mount Speakers, White Version (Pair) 8" 2-Way Surface Mount Speakers, White Version Custom paint per architect color selection</u>	<u>6 pair</u>
<u>AS9</u>	<u>Yamaha</u>	<u>VXS-8W</u>	<u>Surface mount over balcony (Pair) 8" 2-Way Surface Mount Speakers, White Version (Pair) 8" 2-Way Surface Mount Speakers, White Version Custom paint per architect color selection</u>	<u>4 pair</u>
<u>AS10</u>	<u>Yamaha</u>	<u>VXS-5W</u>	<u>Surface mount over balcony (Pair) 5" 2-Way Surface Mount Speakers, White Version Custom paint per architect color selection</u>	<u>5 pair</u>
<u>AS11</u>	<u>Yamaha</u>	<u>VXS-5W</u>	<u>Surface mount under balcony (Pair) 5" 2-Way Surface Mount Speakers, White Version custom paint per architect color selection</u>	<u>14 pair</u>
<u>AS12</u>	<u>Yamaha</u>	<u>VXL1W-8</u>	<u>Surface mount side walls - Line Source Loudspeaker, 8 Drivers, White Version. Custom paint per architect color selection</u>	<u>16</u>
<u>AS13</u>	<u>Yamaha</u>	<u>IS1112W</u>	<u>Surface mount subbass Custom paint per architect color selection</u>	<u>4</u>
<u>AS14</u>	<u>Yamaha</u>	<u>IF-2105</u>	<u>Over stage loudspeakers - supply with u-bracket</u>	<u>18</u>
<u>AS15</u>	-	<u>UB2205</u>	<u>U Bracket for IF2205</u>	<u>18</u>
<u>AS16</u>	<u>Yamaha</u>	<u>AFC TUNING</u>	<u>AFC Tuning Fee</u>	<u>1</u>
<u>AS17</u>	-	<u>AFC CHFEE</u>	<u>AFC TUNING Additional Fee per Channel</u>	<u>77</u>
<u>2.40.9 Video &amp; Control Equipment</u>			-	-
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>V1</u>	<u>Vaddio</u>	<u>Roboshot 30EQDVI</u>	<u>Camera</u>	<u>1</u>
<u>V2</u>	<u>Vaddio</u>	<u>Quick-Conn DVI</u>	<u>Camera Extension</u>	<u>1</u>
<u>V3</u>	<u>Draper Inc</u>	<u>121223</u>	<u>LVC-III/LVC-S Low Voltage Control Module w/Single Station</u>	<u>1</u>
<u>V4</u>	<u>Tascam</u>	<u>Tascam BD-01U Blu-Ray</u>	-	<u>1</u>
<u>V5</u>	<u>Crestron</u>	<u>AM-200</u>	<u>Media Player</u>	<u>1</u>
<u>V6</u>	<u>Comprehensive Video Group</u>	<u>BBD1694-25B</u>	<u>Premium Belden 1694A Digital Video RG6 Cable, BNC Plug to Plug, 25Ft</u>	<u>2</u>
<u>V7</u>	<u>Comprehensive</u>	<u>HD-HD-6PROBLK</u>	<u>Professional Series Commercial Grade CL3 Rated 26 AWG High Speed HDMI Cable with Ethernet 6' Long</u>	<u>5</u>
<u>V8</u>	<u>Comprehensive Video Group</u>	<u>HD-HD-15EST</u>	<u>Standard Series High Speed HDMI Cable 15Ft</u>	<u>2</u>
<u>V9</u>	<u>Comprehensive Video Group</u>	<u>MVGA15P-P-15HR/A</u>	<u>HR Pro Series Micro VGA HD15 Plug to Plug w/Audio Cable 15Ft</u>	<u>2</u>

**ADDENDUM NO. 1**

<u>V10</u>	<u>Comprehensive Video Group</u>	<u>CAT5-350-10BLK</u>	<u>Cat5e 350 Mhz Snagless Patch Cable 10ft Black</u>	<u>12</u>
<u>V11</u>	<u>Chief Manufacturing Inc</u>	<u>WMA2S</u>	<u>Heavy Duty Wall Mount Accessory Arm, Double Stud, Extends 13-21"</u>	<u>1</u>
<u>V12</u>	<u>P.S.C.</u>	<u>Necessary Fastening Hardware, Accessories</u>		<u>1</u>
<u>V13</u>	<u>P.S.C.</u>	<u>Epson Pro L1505UNL Projector</u>		<u>1</u>
<u>V14</u>	<u>P.S.C.</u>	<u>Epson Lens: ELPLW06/W04</u>		<u>1</u>
<u>V15</u>	<u>P.S.C.</u>	<u>Da-Lite Motorized Projection Screen 180" x 288" 27259C</u>		<u>1</u>
<u>V16</u>	<u>P.S.C.</u>	<u>Unistrut, Misc. 1-1/2In. NPS Pipe and Ceiling Mounting Hardware</u>		<u>1</u>
<u>V17</u>	<u>Windy City Wire</u>	<u>002370-WPW25234</u>	<u>18-03 UNS STR CMP Wht Jkt</u>	<u>250</u>
<u>V18</u>	<u>Platinum Tools</u>	<u>EZ-RJ45 Shielded Cat5e/6 Connector, 8-Cond. Modular Plug w/External Ground, Per/Unit Price</u>		<u>20</u>
<u>V19</u>	<u>P.S.C.</u>	<u>Vaddio RoboSHOT 30 Q-USB Camera System</u>		<u>1</u>
<u>V20</u>	<u>Crestron Electronics</u>	<u>DM-TX-4K-100</u>	<u>DigitalMedia 8G+® 4K60 4:4:4 HDR Wall Plate Transmitter, Black</u>	<u>3</u>
<u>V21</u>	<u>P.S.C.</u>	<u>Panelcrafters DM-TX Input Rack Panel</u>		<u>1</u>
<u>V22</u>	-	-	-	-
<u>V23</u>	<u>Crestron Electronics</u>	<u>DM-MD8X8</u>	<u>8x8 DigitalMedia Switcher Requires DMC Series Input Cards &amp; DMCO Series Output Cards 4RU</u>	<u>1</u>
<u>V24</u>	<u>Crestron Electronics</u>	<u>DMC-4KZ-CO-HD</u>	<u>2-Channel 4K DigitalMedia 8G+ Output Card for DM Switchers with support for HDCP 2.2</u>	<u>2</u>
<u>V25</u>	<u>Crestron Electronics</u>	<u>DMC-4K-HDO</u>	<u>2-Channel 4K Scaling HDMI Output Card for DM Switchers.</u>	<u>1</u>
<u>V26</u>	<u>Crestron Electronics</u>	<u>DMC-4KZ-HD-HDCP2</u>	<u>4K HDMI® HDCP2 Input Card for DM® Switchers</u>	<u>2</u>
<u>V27</u>	<u>Crestron Electronics</u>	<u>DMC-4K-C-HDCP2</u>	<u>HDBaseT Certified 4K DM 8G+ HDCP2 Input Card for DM Switcher</u>	<u>4</u>
<u>V28</u>	<u>Crestron Electronics</u>	<u>DM-RMC-4K-SCALER-C</u>	<u>4K DigitalMedia 8G+® Receiver &amp; Room Controller w/Scaler</u>	<u>3</u>
<u>V29</u>	-	-	-	-
<u>V30</u>	<u>DataVideo</u>	<u>TLM-102</u>	<u>Dual 10" Video Monitor</u>	<u>1</u>
<u>V31</u>	<u>P.S.C.</u>	<u>Panelcrafters Rack Panel for Monitor</u>		<u>1</u>
<u>V32</u>	<u>Extron</u>	<u>SMP351</u>	<u>60-1324-01 H.264 Streaming Media Processor</u>	<u>1</u>
<u>V33</u>	<u>Comprehensive</u>	<u>HD-HD-6PROBLK</u>	<u>Professional Series Commercial Grade CL3 Rated 26 AWG High Speed HDMI Cable with Ethernet 6' Long</u>	<u>5</u>
<u>V34</u>	<u>Comprehensive Video Group</u>	<u>HD-HD-15EST</u>	<u>Standard Series High Speed HDMI Cable 15Ft</u>	<u>3</u>
<u>V35</u>	<u>Comprehensive Video Group</u>	<u>MVGA15P-P-15HR/A</u>	<u>HR Pro Series Micro VGA HD15 Plug to Plug w/Audio Cable 15Ft</u>	<u>3</u>
<u>V36</u>	<u>BTX</u>	<u>CD-DB9M</u>	<u>DSUB 9-Pin Male sldr (requires hood)</u>	<u>1</u>
<u>V37</u>	<u>BTX</u>	<u>CD-MX915H</u>	<u>Hood for MaxBlox HD15 &amp; DB9</u>	<u>1</u>

**ADDENDUM NO. 1**

<u>V38</u>	<u>West Penn</u>	<u>WPW 254245F/WND 555630</u>	<u>24 AWG.- 4 PAIR Solid bare copper conductors, Shielded with an overall jacket, Plenum. &lt;br&gt;Black Jacket</u>	<u>1500</u>
<u>V40</u>	<u>Platinum Tools</u>	<u>PLT100023 X X</u>	<u>EZ-RJ45 Shielded Cat5e/6 Connector, 8-Cond. Modular Plug w/External Ground, Per/Unit Price</u>	<u>20</u>
<u>V40</u>	<u>Cisco</u>	<u>Cisco CBS350-XFP</u>	<u>Network switch #1,#2,#3 for control in ER2.1, ER2.2, ER1.1 - size ports as required</u>	<u>3</u>
<u>V41</u>	<u>Crestron</u>	<u>CP4N</u>	<u>control processor</u>	<u>1</u>
<u>V42</u>	<u>Crestron</u>	<u>TSW-760</u>	<u>Touch panel</u>	<u>3</u>
<u>V43</u>	<u>Netgear</u>	<u>WNDR3400- 11NAS</u>	<u>Wireless Access Point for audio</u>	<u>1</u>
<u>V44</u>	<u>Lowell</u>	<u>SEQ-4</u>	<u>4 step sequencer</u>	<u>1</u>
<u>V45</u>	<u>Lowell</u>	<u>SEQ-8</u>	<u>8 step sequencer</u>	<u>1</u>
<u>V46</u>	<u>Lowell</u>	<u>RCP-20</u>	<u>20A relay control receptical</u>	<u>10</u>
<u>V47</u>	<u>Lowell</u>	<u>ACR-1506-LTS</u>	<u>Power strip</u>	<u>2</u>
-	-	-	-	-
<u>2.40.10 Curtains</u>			-	-
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>C1</u>	<u>P.S.C.</u>	<u>PLACEHOLDE R - Generic</u>	<u>ADC 2928S Motor for Grand</u>	<u>1</u>
<u>C2</u>	<u>ADC</u>	<u>#280</u>	<u>Complete Steel Track, Per Ft., (20 Ft. Minimum)</u>	<u>as req</u>
<u>C3</u>	<u>ADC</u>	<u>#281</u>	<u>Complete Steel Track, Per Ft., (20 Ft. Minimum)</u>	<u>as req</u>
<u>C4</u>	<u>ADC</u>	<u>#2928S</u>	<u>Curtain Motor</u>	<u>1</u>
<u>C5</u>	<u>Stage Decora- tion</u>	<u>PLACEHOLDE R - Generic</u>	<u>50 x 8 Grand Valance 75% Fullness, IFR Charisma Fabric</u>	<u>1</u>
<u>C6</u>	<u>Stage Decora- tion</u>	<u>PLACEHOLDE R - Generic</u>	<u>2P - 18' x 28' Grand Drape 75% Full- ness Charisma Fabric</u>	<u>2</u>
<u>C7</u>	<u>Stage Decora- tion</u>	<u>PLACEHOLDE R - Generic</u>	<u>54 x 5 Borders 50% Fullness 20oz Crescent Fabric</u>	<u>4</u>
<u>C8</u>	<u>Stage Decora- tion</u>	<u>PLACEHOLDE R - Generic</u>	<u>8' x 19' Legs 50% Fullness 20oz. Crescent Fabric</u>	<u>6</u>
<u>C9</u>	<u>Stage Decora- tion</u>	<u>PLACEHOLDE R - Generic</u>	<u>2P - 28' x 19' Mid Stage 50% Fullness 20oz Crescent Fabric</u>	<u>2</u>
<u>C10</u>	<u>Stage Decora- tion</u>	<u>PLACEHOLDE R - Generic</u>	<u>2P - 28' x 19 Up Stage 50% Fullness 20oz. Crescnet Fabric</u>	<u>2</u>
<u>C11</u>	<u>Stage Decora- tion</u>	<u>PLACEHOLDE R - Generic</u>	<u>46' x 19' Seamless FR Cotton Muslin Cyc</u>	<u>1</u>
<u>2.40.11 Stage Lighting - Place Holder</u>			-	-
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>L1</u>	<u>P.S.C.</u>	<u>PLACEHOLDE R - Generic</u>	<u>12/32 SO Multi Cable</u>	<u>as req</u>
<u>L2</u>	<u>SSRC</u>	<u>517</u>	<u>Kellums Grip (1.5In. - 1.7In.)&lt;br&gt;</u>	<u>8</u>
<u>L3</u>	<u>SSRC</u>	<u>517-1</u>	<u>Eye Kellums Grip (1.5In. - 1.7In.)&lt;br&gt;</u>	<u>8</u>
<u>L4</u>	<u>West Penn</u>	<u>25236B WPW</u>	<u>Plenum 3-Cond. 14 AWG Cable (for non-powered Unison)</u>	<u>2300</u>

**ADDENDUM NO. 1**



<u>L5</u>	<u>West Penn</u>	<u>254246F</u>	<u>Plenum Rated STP, 100% Foil Shield, 4 Pair 23AWG, Cat6 Cable, Black</u>	<u>2400</u>
<u>L6</u>	<u>ETC</u>	-	<u>High End Systems Hedgehog 4</u>	<u>1</u>
<u>L7</u>	<u>Rapco</u>	<u>NBGDMX5-15</u>	<u>2 Pair 24 Gauge DMX Cable, Neutrik 5-pin Connector, 15Ft</u>	<u>as req</u>
<u>L8</u>	<u>Light Source</u>	<u>MAB</u>	<u>MegaClamp C-Clamp for 1"-2" Pipe, Black Anodized Finish</u>	<u>as req</u>
<u>L9</u>	<u>Rapco</u>	<u>NBGDMX5-15</u>	<u>2 Pair 24 Gauge DMX Cable, Neutrik 5-pin Connector, 15Ft</u>	<u>as req</u>
<u>L10</u>	<u>Light Source</u>	<u>MAB</u>	<u>MegaClamp C-Clamp for 1"-2" Pipe, Black Anodized Finish</u>	<u>as req</u>
<u>L11</u>	<u>Rapco</u>	<u>NBGDMX5-15</u>	<u>2 Pair 24 Gauge DMX Cable, Neutrik 5-pin Connector, 15Ft</u>	<u>as req</u>
<u>L12</u>	<u>ETC</u>	-	<u>CEM3 Retro Upgrade Kit</u>	<u>1</u>
<u>L13</u>	<u>ETC</u>	-	<u>R20 Relay Modules</u>	<u>48</u>
<u>L14</u>	<u>ETC</u>	-	<u>RSN-LV Response 0-10V Gateway</u>	<u>1</u>
<u>L15</u>	<u>ETC</u>	-	<u>RSN-DMX-0-P-4 Response MK2 Portable Gateway with C-clamp</u>	<u>12</u>
<u>L16</u>	<u>ETC</u>	-	<u>E1002 Echo Inspire 2- Button Wall Stations</u>	<u>2</u>
<u>L17</u>	<u>ETC</u>	-	<u>E1006 Echo Inspire 6 – Button Wall Station</u>	<u>2</u>
<u>L18</u>	<u>ETC</u>	-	<u>ETS EchoTouch Touch Panel Controller with Power Supply and Back Box</u>	<u>1</u>
<u>L19</u>	<u>Cisco</u>	-	<u>SG350-28MP Network Switch</u>	<u>1</u>
<u>L20</u>	<u>Necessary Patch Bay, Patch Cables, EtherCon Cables, DMX Cables and wall plates for working system</u>			<u>1</u>
<u>L21</u>	<u>Canto</u>	-	<u>200 MSR Followspots 11857180</u>	<u>1</u>
<u>L22</u>	<u>ETC</u>	-	<u>9940-12BP/6-R 40' Connector Strip</u>	<u>1</u>
<u>L23</u>	<u>SSRC</u>	-	<u>6 Cct. Grid Iron J-Box with 60'- 6 Cct. SO Cable w/ Kellums, Veam Connector, Cable Picks w/Pulley Blocks and Counter weight</u>	<u>6</u>
<u>L24</u>	<u>Veam</u>	-	<u>6 Cct., 6' Fan-out Cables with GSP Connectors</u>	<u>6</u>
<u>L25</u>	<u>ETC</u>	-	<u>9102B-OU 2 Cct. GSP Plug Box w/ U-Bolt and Offset Bracket</u>	<u>2</u>
<u>L26</u>	<u>Light Source</u>	<u>MAB</u>	<u>MegaClamp C-Clamp for 1"-2" Pipe, Black Anodized Finish</u>	<u>30</u>
<u>L27</u>	<u>ETC</u>	<u>Colorsource Spot</u>	<u>LED stage lighting fixture with DMX. Include one 10' PowerCON/DMX combo jumper cable per fixture</u>	<u>30</u>
<u>L28</u>	<u>ETC</u>	<u>Colorsource</u>	<u>10 Degree Lens Tube</u>	<u>10</u>
<u>L29</u>	<u>ETC</u>	-	<u>14 Degree Lens Tube</u>	<u>12</u>
<u>L30</u>	<u>ETC</u>	-	<u>26 Degree Lens Tube</u>	<u>4</u>
<u>L31</u>	<u>ETC</u>	-	<u>4 Degree Lens Tube</u>	<u>4</u>
<u>L32</u>	<u>ETC</u>	<u>Colorsource Par</u>	<u>LED stage lighting fixture with DMX. Include one 10' PowerCON/DMX combo jumper cable per fixture</u>	<u>42</u>

**ADDENDUM NO. 1**

<u>L33</u>	<u>ETC</u>	<u>Colorsource Cyc</u>	<u>LED stage lighting fixture with DMX. Include one 10' PowerCON/DMX com- bo jumper cable per fixture</u>	<u>12</u>
<b>2.40.12 Stage Rigging</b>			-	-
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>Rig 1</u>	-	-	<u>Turnkey system as shown on EPS Drawing Set from SRS Systems.</u>	<u>1</u>
<u>Rig 2</u>	-	-	<u>Custom Line Shaft batten lift system</u>	<u>1</u>
<u>Rig 3</u>	-	-	<u>Custom Dead Hung batten system</u>	<u>1</u>
<u>Rig 4</u>	-	-	<u>Removal of existing grid</u>	<u>1</u>
<u>Rig 5</u>	-	-	<u>Contact Les Martin: lmar- tin@srsrigging.com</u>	-
<b>2.40.13 General list of wire and connector types:</b>			-	-
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>G1</u>	<u>West Penn</u>	<u>25291B-BK</u>	<u>2-Cond. 22 Awg Plenum Shielded Au- dio Line Level Cable with black Jacket</u>	<u>as req</u>
<u>G2</u>	<u>West Penn</u>	<u>D25430</u>	<u>Plenum Two Individually Shielded Pairs of 22 Ga. Conductors with Drain Wire.</u>	<u>as req</u>
<u>G3</u>	<u>West Penn</u>	<u>25225B</u>	<u>2-Cond. 16 Awg Plenum-Rated Speaker Cable: 70V Loudspeakers</u>	<u>as req</u>
<u>G4</u>	<u>West Penn</u>	<u>25226B</u>	<u>2-Cond. 14 Awg Plenum-Rated Speaker Cable: Acoustic System Loudspeakers</u>	<u>as req</u>
<u>G5</u>	<u>West Penn</u>	<u>25227B</u>	<u>2-Cond. 12 Awg Plenum Speaker Ca- ble: Main Left and Right Arrays</u>	<u>as req</u>
<u>G6</u>	<u>West Penn</u>	<u>25210</u>	<u>2-Cond. 10 Awg Plenum-Rated Speaker Cable: Main Subbass</u>	<u>as req</u>
<u>G7</u>	<u>WPW</u>	<u>254245</u>	<u>Plenum-Rated Cat 5e Cable</u>	<u>as req</u>
<u>G8</u>	<u>Belden</u>	<u>9729</u>	<u>DMX Control Cable</u>	<u>as req</u>
<u>G9</u>	<u>Neutrik</u>	<u>NC3FDL-1- BAG-O</u>	<u>XLR Female Panel latchless</u>	<u>as req</u>
<u>G10</u>	<u>Neutrik</u>	<u>NC3MDL-1- BAG</u>	<u>XLR Male Panel</u>	<u>as req</u>
<u>G11</u>	<u>Neutrik</u>	<u>NC-3MX-BAG</u>	<u>XLR Female Cable</u>	<u>as req</u>
<u>G12</u>	<u>Neutrik</u>	<u>NC-3FX-BAG</u>	<u>XLR Male Cable</u>	<u>as req</u>
<u>G13</u>	<u>Switchcraft</u>	<u>3505F</u>	<u>Phono Panel</u>	<u>as req</u>
<u>G14</u>	<u>WECO</u>	-	<u>RJ45 Panel</u>	<u>as req</u>
<u>G15</u>	<u>Neutrik</u>	<u>NL4MP or NL4MPR</u>	<u>4 conductor speaker panel</u>	<u>as req</u>
<u>G16</u>	<u>Neutrik</u>	<u>NL4MX-BAG</u>	<u>4 conductor speaker cable</u>	<u>as req</u>
<u>G17</u>	<u>Proco</u>	<u>Platworks</u>	<u>Stainless Steel</u>	<u>as req</u>
<u>G18</u>	<u>WECO</u>	<u>323-HDS/12</u>	<u>Eurostyle Screw Terminal Strip, 12 Circuit, Accepts 20-12 AWG Wire</u>	<u>as req</u>
<b>2.40.14 Orchestra Shell Towers - Per Appendix 1</b>			-	-
<u>Item</u>	<u>Make</u>	<u>Model</u>	<u>Description</u>	<u>Qty</u>
<u>OT1</u>	<u>Wenger</u>	<u>Legacy</u>	<u>6'W x 13'6"H folding tower - painted</u>	<u>12</u>
<u>OT5</u>	<u>Wenger</u>	<u>Diva</u>	<u>8'x8' Curved reflective ceiling diffuser.</u>	<u>7</u>

**ADDENDUM NO. 1**

### **PART 3 – EXECUTION**

#### **3.1 ACCURACY OF DATA**

- A. It shall be the sole responsibility of the Contractor to verify all dimensions, take his own field measurements, and install all work to suit conditions encountered on the job site.
- B. The drawings are generally diagrammatic and except where dimensions are indicated are not intended to show exact locations of outlets, conduits, etc. All work shall be installed as nearly as possible in the locations indicated, with minor adjustments as required to avoid interferences with structure or the work of other trades.
- C. Prior to beginning work, the Contractor shall carefully examine all construction drawings and the job site and report to the Owner any discrepancies or interference that may be discovered. If, during the course of construction, any such discrepancies or interferences are noted, the Contractor shall promptly report them to the Owner. Failure to report such discrepancies or interferences shall result in the correction of the same at the Contractor's expense. All work under this specification, which either interferes with the architectural or any other work or deviates from the drawings and specifications without prior approval of the Owner, shall be altered by the Contractor at his expense. These alterations shall clear such interferences or shall comply with the drawings and specifications as directed by the Owner.

#### **3.2 MECHANICAL**

- A. Except for portable equipment, all other equipment must be permanently installed. This shall include equipment racks, speakers, cables, etc. Fastenings and supports must provide a safety factor of at least three times that required for safe support. Precautions must be taken to prevent electrostatic and electromagnetic hum and radio frequency interference. All electronic equipment must be easily accessible and have adequate ventilation.
- B. The rigging of loudspeaker arrays and speakers shall be performed by a rigging professional and hung and supported by approved industry standard equipment.

#### **3.3 CONNECTIONS**

- A. All low voltage wiring connections must be made with rosin core solder or mechanical connectors as specified. Terminations on all cable must be dressed properly with shrink tubing. All low voltage control level connections to terminal blocks are to be made with crimp on spade lugs. All crimp on connectors must be fastened with the proper tool as specified by the manufacturer. Improper crimping will be cause for rejection. All "drain" wires on microphone and line level terminations are to be properly dressed using transparent shrink tubing to avoid the possibility of shorting "whiskers".

#### **3.4 LABELS**

- A. All wiring is to be numbered on both ends with "EZ Code" type markers. Wire numbers are to be secured with transparent shrink tubing. Wire numbers are to follow a logical sequence and are to be listed on the proper document. "Brady" type labels are acceptable.

#### **3.5 DOCUMENTATION**

- A. Upon final completion of the system a documentation package is to be turned over to the Owner and include the following items:
  - 1. System signal flow diagrams (for audio, video, and control) showing all components, interconnections, and connector types and wire numbers. As-built revisions are to be noted on the submittal drawings.
  - 2. Manufacturer instruction manuals for all electronics.
  - 3. Product specification sheets for all equipment without instruction manuals such as microphones, loudspeakers and lighting instruments.

### **ADDENDUM NO. 1**

4. Copies of the proof of performance data. Provide one original (no photocopies) and one copy (photocopies are acceptable) of the total documentation package.
5. A single copy of the system signal flow diagram with wire numbers indicated is to be laminated and posted in the door of the sound equipment rack.
6. Special documentation is required as part of the Owner training and operation of the systems. This documentation is to consist of an instruction sheets that describe the operation of the system from the stage. Each instruction sheet is to be step by step “cookbook” with touchscreen panel screen shots with arrow indicators that describe step and function. A laminated poster version of this instruction sheet is to be mounted on the side of each equipment rack. The bullet points detailed on this sheet include:
  - a. Turning on system power.
  - b. Select desired source.
  - c. Adjust volume levels
  - d. Select lighting presets (where applicable)
  - e. Recording stop/start functions (where applicable)
  - f. VTC calling functions (where applicable)
  - g. Other functions of the Owner control panel.

### 3.6 CLEAN UP

- A. During construction periodically remove discarded containers and refuse from the job site. At the completion of the job the sound system components and equipment areas are to be left clean and neat and all refuse removed from the site.

### 3.7 SOUND SYSTEM TEST AND MEASUREMENT

- A. The contractor is to conduct a performance verification test for the Owner. The contractor must complete the installation and verify that it is in working order and conforms to the following performance criteria. These performance standards are set forth as an indication of a properly installed and functioning sound system. It is implied through his action of submitting a bid that the contractor has reviewed these documents and is in agreement with the concept and execution of the design of the specified sound system. No financial adjustments will be allowed for discrepancies discovered after bid is accepted.
  1. In rooms where voice lift or voice reinforcement is required, there is a programmable DSP in the system. The contractor is expected to tune the system to eliminate any hot frequencies in the room that would cause premature feedback as well as blemish the sound quality of the microphones.
  2. Microphone line resistance: Less than 1.7 Ohms with short at input jack. Measured from mixer end of microphone cable. Measure with Ohm meter.
  3. Maximum amp output: 100% of rated power at less than 0.25% THD. Measure with distortion analyzer.
  4. Signal to noise ratio: Better than 80 dB or an absolute noise level less than 62 dBm for systems with +18 dBm maximum line operating level. Measured at amplifier input with RMS voltmeter with dB scale.
  5. Audio frequency response: +/- 1 dB 50 Hz to 15 kHz control equalizer set flat and room equalizers switched out – Microphone input to amplifier output. Measure with RTA.
  6. Polarity: All microphones and source equipment are to be wired so as to be in absolute polarity with the loudspeaker systems. Measure with polarity checker.
  7. Synchronize delay and fill systems to within 15 milliseconds of first arrival of primary loudspeaker system as measured on Smaart or TEF measurement systems.
  8. Acoustic coverage: Maximum +/- 3 dB SPL variance front to rear / side-to-side in audience area through the 4 kHz full octave band. Measure with octave band Sound Level Meter.
  9. Acoustic amplitude response: With the room equalizers switched in +/- 3 dB maximum deviation from the following curve averaged from three test positions in the audience area flat 60 Hz to 2 kHz, 10 dB at 50 Hz and 12 kHz. Measure with RTA.

## ADDENDUM NO. 1

10. Electroacoustic gain: No less than 15 dB from 500 Hz to 4 kHz with one microphone and 12-inch source to microphone distance. Gain is to be measured 50 feet from the source. Measure with Sound Level Meter.
11. Maximum sound level: Greater than 85 dB-C for large conference spaces when amplifier occasionally clips on program peaks. Measure with Sound Level Meter.
12. Acoustic noise floor: No audible hum, hiss, or R.F. interference shall be audible under normal room conditions in audience seating area and stage or platform areas.
13. All loudspeakers are to exhibit the same acoustic polarity. Measure with Polarity Checker (Galaxy Cricket).

### 3.8 VIDEO SYSTEM PROOF OF PERFORMANCE

- A. Verify all devices and cables match information on final drawings
- B. Test all inputs on video switcher / scaler.
- C. Adjust Color Temperatures on projectors to accurately reproduce NTSC and RGBHV Data Color Bars.
- D. Adjust projector images to match screen size, eliminating any overscan, underscan or keystone.
- E. Adjust all switching functions to eliminate sync roll or glitches upon switching.
- F. Test all video sources for full operation. Test all data sources up to maximum projector frequency.
- G. Test audio output of switcher scaler. Verify that all input audio levels are equal. Verify maximum audio output not to exceed +4dB.
- H. Verify there are no 60hz grounding interference aka "humbars" existing in displayed images.
- I. Optimize projector contrast, sharpness and brightness to avoid blooming and achieve optimal black level.
- J. Commissioning of Digital Media System by certified Digital Media Engineer.

### 3.9 LIGHTING SYSTEM COMMISSIONING

- A. Commissioning by ETC Certified Specialist

## **END OF AUDIO VIDEO AND LIGHTING SYSTEMS FOR 27 41 16**

## **APPENDIX 1 – ORCHESTRA SHELL SPECIFICATIONS**

### **PART 1 GENERAL**

**Supply and coordinate orchestra shell tower equipment with Wenger Corporation, 555 Park Drive, Owatonna, MN 55060-4940, 505-455-4100. - Jeff Frost [Jeff.Frost@wengercorp.com](mailto:Jeff.Frost@wengercorp.com).**

### **PART 2 EQUIPMENT**

#### **2.2 SECTION INCLUDES.**

- 2.2.1 Theater and stage equipment including the following:
  - 2.5 Acoustical clouds.
  - 2.6 Acoustic tower, Legacy Select Acoustic Tower.

#### **2.3 RELATED SECTIONS**

- 2.3.1 Section 05 50 00 - Metal Fabrications.

## **ADDENDUM NO. 1**

2.3.2 Section 06 10 00 - Rough Carpentry.

2.3.3 Section 09 22 16.13 - Non-Structural Metal Stud Framing.

2.3.4 Division 16 - Electrical for power wiring.

## **2.4 REFERENCES**

2.4.1 American Hardboard Association (AHA):

2.5 AHA A135.4-95: Basic Hardboard.

2.4.2 American Plywood Association (APA):

2.5 Performance Standards and Policies for Structural Use Panels.

2.4.3 American Society of Civil Engineers (ASCE):

2.5 ASCE 7 - Minimum Design Loads for Buildings and Other Structures.

2.4.4 Architectural Woodwork Institute (AWI):

2.5 Quality Manual, 8th Edition.

2.4.5 ASTM International (ASTM):

2.5 ASTM A36/A 36M - Standard Specification for Carbon Structural Steel.

2.6 ASTM A500 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.

2.7 ASTM A513 - Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing.

2.8 ASTM A1011 - Standard Specification for Steel, Sheet and Strip, Hot Rolled, Carbon, Structural, High-Strength Low Alloy, High-Strength Low Alloy With Improved Formability, and Ultra High Strength.

2.9 ASTM B85 - Standard Specification for Aluminum Alloy Die Castings.

2.10 ASTM B209 - Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

2.11 ASTM B221 - Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

2.12 ASTM B429 - Specification for Aluminum-Alloy Extruded Structural Pipe and Tube.

2.13 ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

2.14 ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

2.15 ASTM E 413 - Classification for Rating Sound Transmission.

2.4.6 International Building Code (IBC).

2.5 IBC 2018, Chapter 8.

2.4.7 National Association of Architectural Metal Manufacturers (NAAMM): Metal Finishes Manual for Architectural and Metal Products.

2.4.8 National Electrical Manufacturers Association (NEMA): NEMA LD 3-2000 - High Pressure Decorative Laminates.

2.4.9 U.S. Department of Commerce, National Institute of Standards and Technology: DOC PS 1: U.S. Product Standard for Construction and Industrial Plywood.

2.4.10 US Green Building Council (USGBC): Leadership in Energy and Environmental Design (LEED).

## **2.5 SUBMITTALS**

### **ADDENDUM NO. 1**

- 2.5.1 Submit under provisions of Section 01 30 00 - Administrative Requirements.
- 2.5.2 Product Data: Manufacturer's data sheets on each product to be used, including:
  - 2.5 Provide test results by certified independent testing laboratory indicating compliance with performance requirements.
  - 2.6 Rated capacities, construction details, material descriptions, dimensions of individual components, profiles, and finishes.
  - 2.7 Maintenance instructions and recommendations.
  - 2.8 Acoustical testing data demonstrating minimal compliance with required acoustical performance criteria.
  - 2.9 Photometric data for light fixtures, if applicable to the product.
- 2.5.3 LEED Submittals:
  - 2.5 Manufacturer's certificate indicating that composite wood products and adhesives contain no added urea formaldehyde.
  - 2.6 Manufacturer's certificate indicating percentages by weight of post-consumer and pre-consumer recycled content. Include statement indicating costs for each product having recycled content.
  - 2.7 Credit EQ 4.4: Manufacturer's Signed Confirmation indicating that composite wood products and adhesives used in acoustical shells contain no urea formaldehyde.
- 2.5.4 Shop Drawings:
  - 2.5 Submit component and project specific installation drawings, cut sheets, and schedules showing all information necessary to fully explain the design features, appearance, function, fabrication, installation, and use of system components in all phases of operation. Submit for approval before beginning any fabrication, installation, or erection.
  - 2.6 Include fabrication and installation details. Distinguish between factory and field work.
  - 2.7 Include plans, elevations, sections, attachments and work by other trades.
  - 2.8 Include wiring diagrams when applicable.
  - 2.9 Indicate seismic bracing and fastening requirements as applicable.
- 2.5.5 Product Schedule:
  - 2.5 Use designations indicated on the Drawings.
  - 2.6 Include room locations, dimensions, accessories, finishes, and project specific notes.
- 2.5.6 Verification Samples:
  - 2.5 Exposed Finishes and Finish Materials: Not less than 4 by 4 inches (102 by 102 mm), for each type, color, pattern, surface and material selected.
- 2.5.7 Closeout Submittals:
  - 2.5 Operation and Maintenance Data: For adjusting, repairing and replacing components and accessories.
  - 2.6 Warranty: Submit manufacturer's warranty.
  - 2.7 As-Built Drawings: For completed work.

## **2.6 QUALITY ASSURANCE**

- 2.6.1 Source Limitations: Obtain all products from a single manufacturer through one source providing a comprehensive material and installation package:
- 2.6.2 Manufacturer Qualifications: Minimum 5 years' experience in design and manufacturing of similar products on projects of similar size, scope and complexity, and with the production capacity to meet the construction and installation schedule.
- 2.6.3 Installer Qualifications: ESTA-certified and experienced in installation of the work of this sec-

### **ADDENDUM NO. 1**

tion and acceptable to the manufacturer and in the regular employ of the manufacturer.

2.6.4 Electrical Components: Listed and labeled per NFPA 70, Article 100 by a testing agency acceptable to Authorities Having Jurisdiction (AHJ).

2.6.5 Regulatory Requirements: Where components are indicated to comply with accessibility requirements, comply with the U.S. Architectural and Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities".

## **2.7 DELIVERY, STORAGE, AND HANDLING**

2.7.1 Deliver materials in manufacturer's original unopened containers with manufacturer's labels attached. Do not deliver material until spaces to receive them are clean, dry, and ready for their installation. Ship to jobsite only after roughing-in, painting and other finishing work has been completed, installation areas are ready to accept work.

2.7.2 Handle and install materials to avoid damage.

## **2.8 PROJECT CONDITIONS**

2.8.1 Environmental Limitations: Do not deliver or install materials until spaces are enclosed and weather tight, wet work in spaces is complete and dry, HVAC system is operating and maintaining ambient temperature at occupancy levels during the remainder of the construction period.

2.8.2 Field Measurements: Verify field measurements as indicated on Shop Drawings. Where measurements are not possible, provide control dimensions and templates.  
2.5Coordinate installation and location of blocking and supports as requested.  
2.6Verify openings, clearances, storage requirements and other dimensions relevant to the installation and final application.  
2.7Where applicable, coordinate locations of electrical junction boxes.

2.8.3 Field Measurements: Verify field measurements as indicated on Shop Drawings. Where measurements are not possible, provide control dimensions and templates.  
2.5Coordinate locations of electrical junction boxes.

2.8.4 Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

## **PART 3 - PRODUCTS**

### **3.1 MANUFACTURERS**

3.1.1 Requests for substitutions shall be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

3.5 Manufacturers seeking approval shall submit the following:

- A. Product data, including third-party certified acoustical data and proposed graphic/drawing layout for this project.
- B. Project references: Minimum of 5 installations not less than 3 years old, of comparable size, scope and complexity of this project, complete with owner contact information.
- C. Sample warranty.

3.6 Submit substitution request not less than required days prior to bid date.

3.7 Approval shall be indicated by issuance of written Addendum.

3.8 Approved manufacturers shall meet separate requirements of Submittals Article.

## **ADDENDUM NO. 1**



3.9 Manufacturers' products that are either listed as pre-approved in these Specifications or who have been granted approval as an alternate must still demonstrate all of the material performance and operational characteristics required by this Section.

### **3.2 ACOUSTICAL CLOUDS**

3.2.1 Basis of Design: DIVA Acoustical Clouds as manufactured by Wenger Corporation.

3.2.2 Acoustical Panel Sound Transmission: Provide third party test results indicating acoustical shell system comprised of acoustical shell panels have the following sound transmission requirements:

3.5 Sound Transmission Class (STC): Minimum 21 per ASTM E 413.

3.2.3 Materials:

3.5 Aluminum Extruded Bars, Profiles, and Tubes: ASTM B 221 (ASTM B 221M), 6063T alloy.

3.6 Steel Tube: ASTM A 501, hot formed steel tubing.

3.7 Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, commercial steel, Type B.

3.8 Veneer-Faced Panel Products (MDF core): Meets all CARB-2 requirements for formaldehyde emissions.

3.9 Hardboard: AHA A135.4, Class 1 Tempered - formaldehyde free.

3.10 High-Pressure Decorative Laminate: NEMA LD 3, Grade VGS.

A. HPDL with urea formaldehyde-free adhesive.

3.2.4 Acoustical Cloud Panels: Manufacturer's standard stressed-skin composite acoustical cloud panels, with STC meeting performance requirements, designed to mix and blend sound and reflect a maximum range of audible frequencies to audience.

3.5 Core: 1-1/2 inches thick (38 mm) honeycomb core material shall have an open geometric pattern with cell walls vertical to panel skins and defined by alternating straight and sine wave layers. Height of sine wave shall be 1/2 inch, wall thickness shall correspond to 60 lb kraft. Bonding of core material to panel faces shall be with permanently cured urethane adhesive. Foam core materials and contact adhesives shall not be permitted.

3.6 Back: 3/16 inch (4.8 mm) thick hardboard stressed skin, painted black.

3.7 Panel Edge Frame: Straight panel edges are reinforced with extruded aluminum edge frame.

3.8 Acclimate panel face and back materials in a temperature and humidity controlled environment for a minimum of 72 continuous hours so that they reach appropriate equilibrium condition prior to lamination to improve dimensional stability of finished laminated panels.

A. Documentation of specified process must be available for review.

3.2.5 Overhead Sound Reflecting Acoustical Cloud: Acoustical cloud panels suspended directly from overhead supports.

3.5 Cloud Panel Size and Configuration: As indicated.

3.6 Cloud Panel Face Finish:

A. Hardwood Plywood Veneer: Plain sliced, slip-matched and balance matched to maintain a uniform leaf width across the full width of the panel.

1. Veneer must be a minimum of 80+ or 85+ grade. Grade A veneer, or veneer of a lesser grade, is not acceptable.

2. Sort veneer by grain density, grain structure, and color.

3. Clip around character marks to minimize pin knots, mineral, gum, sap, and color variation.

4. Individually clip and hand splice each veneer leaf with the grain cathedrals centered in the middle of each leaf. Veneer leaves with grain cathedrals

### **ADDENDUM NO. 1**

not centered shall be rejected as unacceptable for the Work of this Section.

- 3.2.6 Cloud Suspension: Shackle from each of four corners to overhead supports.
- 3.2.7 Miscellaneous Supports: Battens, channels, and other miscellaneous supports are part of the work of Division 05 Section "Metal Fabrications."
- 3.2.8 Acoustical Cloud Installation Accessories:
  - 3.5 Shackles: Rated screw pin shackles.
- 3.2.9 Finishes:
  - 3.5 Aluminum Framing: Painted.
  - 3.6 Painted Finish for Acoustical Cloud Panel: Sherwin Williams Kem Aqua Paint.
  - 3.7 Transparent Wood Finish for Acoustical Cloud Panel Face: Manufacturer's standard, comparable to AWI custom grade acrylic lacquer.

### **3.3 ACOUSTIC TOWER (LEGACY SELECT ACOUSTIC TOWER)**

- 3.3.1 Basis of Design: Legacy Select Acoustic Tower as manufactured by Wenger Corporation; mobile acoustical towers.
- 3.3.2 Materials:
  - 3.5 Aluminum Extruded Bars, Profiles, and Tubes: ASTM B 221 (ASTM B 221M), 6063T alloy.
  - 3.6 Steel Tube: ASTM A 500, hot formed steel tubing
  - 3.7 Hardboard: AHA A135.4, Class 1 Tempered - urea formaldehyde free.
  - 3.8 High-Pressure Decorative Laminate: NEMA LD 3, Grade VGS.
    - A. HPDL with urea formaldehyde-free adhesive.
- 3.3.3 Acoustical Shell Panels: Manufacturer's standard stressed-skin composite acoustical shell panels, designed to mix and blend sound and reflect a maximum range of audible frequencies to both audience and performers.
  - 3.5 Core: 3/4-inch (19-mm) thick honeycomb, resin-impregnated, bonded to frame and faces with permanent urethane adhesive. Contact cement adhesive does not meet the requirements of this specification.
  - 3.6 Face, Painted Panel: 3/16-inch (5-mm) thick hardboard stressed skin, material and finish as indicated, with no exposed fasteners.
  - 3.7 Back: 3/16-inch (5-mm) thick hardboard stressed skin, painted black.
  - 3.8 Panel Edge Frame: Extruded aluminum edge angle, along straight edges.
- 3.3.4 Mobile Acoustical Towers: Free-standing, self-supporting, movable towers. Towers consist of acoustical shell panels with rigid steel frame in nesting configuration. Tower is equipped with removable bottom filler panel that stores on back of tower. Counterweighted tower base, painted black, with non-marring casters.
  - 3.5 Size: 6 feet (1829 mm) wide.
  - 3.6 Height: 11 feet 6 inches (3505 mm).
  - 3.7 Panel Radius: 10 feet (3050 mm).
  - 3.8 Fabrication: Construct panels utilizing nested configuration and folding top to enable nested storage and passage of panel through 34 by 80 inch (864 by 2032 mm) door opening. Equip top panels with compression gas springs to support raising and lowering of panel. Include standard tools required to raise and lower panels.
  - 3.9 Panel Hinges: Self-lubricating ABS bushings and steel framework.

## **PART 4 - EXECUTION**

### **ADDENDUM NO. 1**

#### **4.1 EXAMINATION**

- 4.1.1 Examine installation areas and mounting surfaces with Installer present, for compliance with manufacturer's installation tolerances including required clearances, floor level, location of blocking and anchoring reinforcements, and other existing conditions that may affect installation or performance.
- 4.1.2 Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- 4.1.3 Proceed with installation only after correction of unsatisfactory conditions.

#### **4.2 PREPARATION**

- 4.2.1 Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

#### **4.3 INSTALLATION - GENERAL**

- 4.3.1 Install manufactured units in accordance with manufacturer's recommendations, approved submittals, and in proper relationship with adjacent construction.
- 4.3.2 Clean exposed surfaces. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.

#### **4.4 INSTALLATION OF ACOUSTIC ROOM COMPONENTS**

- 4.4.1 Install housings utilizing manufacturer's supplied brackets and fasteners recommended for application. Adjust upper and lower limits individually after installation.
- 4.4.2 Test electrically operated units to verify that motorized acoustical banner controls, limit switches, and other operating components perform in accordance with manufacturer's written requirements.

#### **4.5 INSTALLATION OF THEATER AND STAGE EQUIPMENT**

- 4.5.1 Install manufactured units in location indicated to verify components are complete and operational. Adjust equipment until satisfactory results are achieved.
- 4.5.2 Acoustical Cloud Installation: Install auditorium acoustical cloud units plumb, level, and true, in accordance with manufacturer's recommendations and approved submittals. Suspend from overhead structure using specified installation accessories. Clean exposed surfaces of acoustical clouds. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.
- 4.5.3 Acoustical Shell Installation:
  - 4.5.3.1 Acoustical Shell Towers:
    - A. Following assembly of all acoustical shell towers, use the transporter to place each acoustical shell tower in its proper playing position location on the stage, as indicated in coordination with Owner's personnel.
    - B. Verify that all shell tower components including access doors, door locks and telescoping wing-stays are complete and operational.
    - C. Strike shell tower units following approval of assembled acoustical shell and use air or wheeled transporter to store in shell tower stacking location(s) indicated.

### **ADDENDUM NO. 1**

4.6 Acoustical Shell Ceiling Panels:

- A. Suspend each row of acoustical ceiling panels from stage rigging using specified installation accessories, in accordance with manufacturer's recommendations and approved submittals.
- B. Install acoustical shell ceiling panel units plumb, level, and true.
- C. Verify setting of units in performance and storage positions.
- D. Verify adjustability of units.
- E. Install, connect, address, commission and test integral lighting.

4.5.4 Orchestra Shell Installation: Install orchestra shell components in accordance with manufacturer's written instructions.

4.5 Position all components accurately as indicated on Drawings and true, plumb, and level.

4.6 Note any deviations required to adjust for field obstructions and report to required persons to incorporate changes into as-built drawings.

4.7 Installation supervisor shall be a currently certified ETCP Rigger for Theatre.

4.8 Utilize only qualified riggers for installation, trim, and adjustment.

4.9 Clean and touch up all field welds and abraded paint finishes with matching materials.

**4.6 INSTALLATION OF RIGGING SYSTEMS**

4.6.1 Equipment shall be installed by fully trained superintendents and workmen. The Rigging Contractor shall employ Entertainment Technician Certification Program (ETCP) Certified theatre Riggers. Certified Riggers shall, at a minimum, be used as the project manager and site foreman and be responsible for the overall project including the layout, inspection, and on-site user training.

4.6.2 Equipment shall be installed per plans and specifications. Equipment shall be aligned, adjusted, and trimmed for the most efficient operation, the greatest safety and for the best visual appearance.

4.6.3 Standards: Installation practices shall be in accordance with OSHA Safety and Health Standards and all local codes. All welding shall be performed in full compliance with the latest edition of the Structural Welding Code (ANSI/AWS D1.1).

4.6.4 Alignment: Mule blocks, cable rollers and guides shall be installed, as required, to provide proper alignment, to maintain specified fleet angles, and to prevent contact with other surfaces.

4.6.5 Attachments: All equipment shall be securely attached to the building structure.

**4.7 INSPECTION AND TESTING OF RIGGING SYSTEMS**

4.7.1 Inspection: During the installation of equipment the Rigging Contractor shall arrange for access as necessary for inspection of equipment by the Owner's representatives.

4.7.2 System Pre-Testing By Rigging Contractor: On completion of installation the Rigging Contractor shall conduct a complete test of the system to ensure it is working properly and in conformance with this specification.

4.7.3 Completion Testing: Upon completing the installation, the Rigging Contractor shall notify the Owner or Owner's Representative, who shall schedule inspection and testing of the full rigging system. At the time of testing, the Rigging Contractor shall furnish sufficient workers to operate all equipment and to perform such adjustments and tests as may be required by the Owner's representative. All testing equipment and personnel shall be at the Rigging Contractor's expense. Any equipment, which fails to meet with approval, shall be repaired or replaced with suitable equipment and the inspection shall be re-scheduled under the same

**ADDENDUM NO. 1**

conditions as previously specified. At the time of these inspections, no other work shall be performed in the auditorium and stage areas. All temporary bracing, scaffolding, etc. shall be removed to permit full operation of, and access to, all equipment. Final approval shall be withheld until all systems have been thoroughly tested and found to be in full working order and meets requirements herein.

4.5 Manual counterweight rigging shall be tested in accordance with ANSI E1.4 "Entertainment Technology Manual Counterweight Rigging Systems".

4.6 Powered rigging shall be tested. Each hoist shall be operated over five full continuous cycles at 1.25 times its full working load at full speed and travel distance. The emergency stop function shall be tested at 100 percent WLL in both the ascending and descending directions.

A. Demonstrate that all over travel limit switches have been correctly set for the actual field conditions of the specific project.

B. If it applies to the project, demonstrate that all position encoders have been correctly set for the actual field conditions of the specific project.

4.7 Provide written recommendations to the Owner for necessary repairs or changes not included in the warranty. Provide a copy to the rigging equipment Manufacturer and in the Operations Manual.

4.7.4 The Owner or Owner's Representative shall witness and sign off on the inspection. A copy of the certificate shall be included in the permanent log turned over to the owner.

4.7.5 Upon completion of the work, the Rigging Contractor shall submit 3 copies of a comprehensive Operating and Maintenance Manual including as-built shop drawings, equipment descriptions, and parts lists. The Rigging Contractor shall provide a safety and instruction class with personnel designated by the owner to demonstrate and explain the operation and maintenance of the systems.

4.7.6 Signage with basic operating instructions and warnings shall be posted in the area where the equipment shall be operated. Signage shall be in conformance with ANSI-Z535.

#### **4.8 RIGGING SYSTEMS, FOLLOW-UP INSPECTION**

4.8.1 The Contractor shall return to site 12 months and 24 months after system turnover and provide the following services:

4.5 Inspection in accordance with ANSI E1.4-1 Entertainment Technology - Manual Counterweight Rigging Systems, ANSI E1.6-1 Entertainment Technology - Powered Hoist Systems, and ANSI E1.47 - Recommended Guidelines for Entertainment Rigging System Inspections.

4.6 Make all required adjustments.

4.7 Correct all warranty items and provide a written report to the Owner and Manufacturer.

4.8 Provide written recommendations to the Owner and Manufacturer for necessary repairs or changes not included in the warranty.

4.9 Conduct a rigging operation and safety class.

4.10 Subsequent to the 24 month inspection, provide a written proposal for the following year's inspection.

#### **4.9 FIELD QUALITY CONTROL**

4.9.1 Inspect installed work to verify compliance with requirements.

4.5 Verify that HVAC work and electrical work complies with manufacturer's submittals and written installation requirements.

4.6 Perform installation and startup checks as recommended by manufacturer.

4.7 Prepare inspection reports and submit to Architect.

### **ADDENDUM NO. 1**

**4.10 DEMONSTRATION**

4.10.1 Train Owner's personnel to adjust, operate, and maintain equipment. Turn over keys, tools, and operation and maintenance instructions to Owner.

**4.11 CLEANING AND PROTECTION**

4.11.1 Repair or replace defective work as directed by Architect upon inspection.

4.11.2 Clean surfaces. Touch up marred finishes or replace damaged components that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by manufacturer.

4.11.3 Protect installed products from damage, abuse, dust, dirt, stain, or paint until completion of project. Do not permit use during construction.

**END OF APPENDIX 1**

**ADDENDUM NO. 1**

## **SECTION 31 31 16 - TERMITE CONTROL**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

**A. Section Includes:**

- 1. Soil treatment with termiticide.**
- 2. Wood treatment.**
- 3. Bait-station system.**
- 4. Metal mesh barrier system.**

#### **1.2 ACTION SUBMITTALS**

**A. Product Data: For each type of product.**

- 1. Include the EPA-Registered Label for termiticide products.**

#### **1.3 INFORMATIONAL SUBMITTALS**

**A. Qualification Data: For qualified Installer.**

**B. Product Certificates: For each type of termite control product.**

**C. Soil Treatment Application Report: After application of termiticide is completed, submit report for Owner's records and include the following:**

- 1. Date and time of application.**
- 2. Moisture content of soil before application.**
- 3. Termiticide brand name and manufacturer.**
- 4. Quantity of undiluted termiticide used.**
- 5. Dilutions, methods, volumes used, and rates of application.**
- 6. Areas of application.**
- 7. Water source for application.**

**D. Sample Warranties: For special warranties.**

#### **1.4 QUALITY ASSURANCE**

**Installer Qualifications: A specialist who is licensed according to regulations of authorities having jurisdiction to apply termite control treatment and products in jurisdiction where Project is located.**

- 1. Installer shall be licensed as a Pest Control Operator (PCO).**

**B. Regulatory Requirements: Formulate and apply termiticides according to the EPA-Registered Label.**

- C. **Standards for Application: Current edition of Georgia Department of Agriculture regulations.**
- D. **FIELD CONDITIONS**
- E. **Soil Treatment:**
  - 1. **Environmental Limitations: To ensure penetration, do not treat soil that is water saturated or frozen. Do not treat soil while precipitation is occurring. Comply with requirements of the EPA-Registered Label and requirements of authorities having jurisdiction.**
  - 2. **Related Work: Coordinate soil treatment application with excavating, filling, grading, and concreting operations. Treat soil under footings, grade beams, and ground-supported slabs before construction.**
  - 3. **Apply borate treatment after framing, sheathing, and exterior weather protection is completed but before electrical and mechanical systems are installed.**

## 1.5 **WARRANTY**

- A. **Soil Treatment Special Warranty: Manufacturer's standard form, signed by Applicator and Contractor, certifying that termite control work consisting of applied soil termiticide treatment will prevent infestation of subterranean termites, including Formosan termites (Coptotermes formosanus). If subterranean termite activity or damage is discovered during warranty period, re-treat soil and repair or replace damage caused by termite infestation.**
  - 1. **Warranty Period: Five years from date of Substantial Completion.**

## PART 2 - **PRODUCTS**

### 2.1 **MANUFACTURERS**

- A. **Source Limitations: Obtain termite control products from single source from single manufacturer.**

### 2.2 **SOIL TREATMENT**

- A. **Termiticide: EPA-Registered termiticide acceptable to authorities having jurisdiction, in an aqueous solution formulated to prevent termite infestation.**



### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for moisture content of soil per termiticide label, interfaces with earthwork, slab and foundation work, landscaping, utility installation, and other conditions affecting performance of termite control.**
- B. Proceed with application only after unsatisfactory conditions have been corrected.**

#### **3.2 PREPARATION**

- A. General: Prepare work areas according to the requirements of authorities having jurisdiction and according to manufacturer's written instructions before beginning application and installation of termite control treatment(s). Remove extraneous sources of wood cellulose and other edible materials, such as wood debris, tree stumps and roots, stakes, formwork, and construction waste wood from soil within and around foundations.**
- B. Soil Treatment Preparation: Remove foreign matter and impermeable soil materials that could decrease treatment effectiveness on areas to be treated. Loosen, rake, and level soil to be treated, except previously compacted areas under slabs and footings. Termiticides may be applied before placing compacted fill under slabs if recommended in writing by termiticide manufacturer.**
  - 1. Fit filling hose connected to water source at the site with a backflow preventer, according to requirements of authorities having jurisdiction.**

#### **3.3 APPLYING SOIL TREATMENT**

- A. Application: Mix soil treatment termiticide solution to a uniform consistency. Distribute treatment uniformly. Apply treatment at the product's EPA-Registered Label volume and rate for maximum specified concentration of termiticide to the following so that a continuous horizontal and vertical termiticidal barrier or treated zone is established around and under building construction.**
  - 1. Slabs-on-Grade and Basement Slabs: Under ground-supported slab construction, including footings, building slabs, and attached slabs as an overall treatment. Treat soil materials before concrete footings and slabs are placed.**
  - 2. Foundations: Soil adjacent to and along the entire inside perimeter of foundation walls; along both sides of interior partition walls; around plumbing pipes and electric conduit penetrating the slab; around interior column footers, piers, and chimney bases; and along the entire outside perimeter, from grade to bottom of footing.**
  - 3. Masonry: Treat voids.**
  - 4. Penetrations: At expansion joints, control joints, and areas where slabs and below-grade walls will be penetrated.**

- B. Post warning signs in areas of application.
- C. Reapply soil treatment solution to areas disturbed by subsequent excavation, grading, landscaping, or other construction activities following application.

### 3.4 PROTECTION

- A. Avoid disturbance of treated soil after application. Keep off treated areas until completely dry.
- B. Protect termiticide solution dispersed in treated soils and fills from being diluted by exposure to water spillage or weather until ground-supported slabs are installed. Use waterproof barrier according to EPA-Registered Label instructions.

### 3.5 MAINTENANCE SERVICE

- A. Maintenance Service: Beginning at Material Completion, maintenance service shall include 12 months' full maintenance by skilled employees of termite-control-treatment Installer. Include maintenance as required for proper performance according to the product's EPA-Registered Label and manufacturer's written instructions. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.
- B. Continuing Maintenance Proposal: Provide from termite-control-treatment Installer to Owner, in the form of a standard yearly (or other period) maintenance agreement, starting on date initial maintenance service is concluded. State services, obligations, conditions, and terms for agreement period and for future renewal options.
  - 1. Include annual inspection for termite activity and effectiveness of termite treatment according to manufacturer's written instructions.

**END OF SECTION 31 31 16**

# SAVANNAH ARTS ACADEMY ADDITION & RENOVATION

SAVANNAH CHATHAM COUNTY PUBLIC SCHOOL SYSTEM BOARD OF EDUCATION  
SAVANNAH, GEORGIA 31405

ARCH. PROJECT NO. 1916  
BID NO. C22-01

**ARCHITECTS:**  
**CIVIL ENGINEERS:**  
**LANDSCAPE ARCHITECT:**  
**STRUCTURAL ENGINEER:**  
**M.E.P.F. ENGINEER:**  
**FOOD SERVICE CONSULTING:**  
**ACOUSTICS / A/V:**

**COGDELL & MENDRALA ARCHITECTS, PC**  
**MAXWELL-REDDICK & ASSOCIATES, INC.**  
**MANDEL DESIGN, LLC**  
**SAUSSY ENGINEERING**  
**DULOHERY WEEKS, INC.**  
**CAMACHO ASSOCIATES**  
**JAMES BRAWLEY & ASSOCIATES**



## GMP CONSTRUCTION DOCUMENTS VOLUME I - SAVANNAH ARTS ACADEMY RENOVATION

### FIRE MARSHAL CERTIFICATION:

THE LOCAL FIRE OFFICIAL HAVING JURISDICTION HAS REVIEWED AND APPROVED A SET OF DOCUMENTS IDENTICAL TO THIS SET OF DOCUMENTS ON \_\_\_\_\_ DATE \_\_\_\_\_

A CONSTRUCTION PERMIT WILL BE ISSUED TO THE CONTRACTOR AT THE START OF CONSTRUCTION.

SIGNED: \_\_\_\_\_  
DESIGN PROFESSIONAL

### SCHEDULE OF DRAWINGS:

### LOCATION MAP:

#### LIST OF DRAWINGS - DEMOLITION

- D2.01 DEMOLITION - FIRST FLOOR PLAN
- D2.02 DEMOLITION - SECOND FLOOR PLAN
- D2.03 DEMOLITION - THIRD FLOOR PLAN
- D2.11 DEMOLITION - ENLARGED PLANS
- D5.01 DEMOLITION ELEVATIONS - AUDITORIUM

#### LIST OF DRAWINGS - PLUMBING DEMOLITION

- DP1.01 DEMOLITION PLUMBING FIRST FLOOR PLAN
- DP1.02 DEMOLITION PLUMBING SECOND FLOOR PLAN
- DP1.03 DEMOLITION PLUMBING THIRD FLOOR PLAN

#### LIST OF DRAWINGS - MECHANICAL DEMOLITION

- DM1.01 DEMOLITION MECHANICAL FIRST FLOOR - NE
- DM1.02 DEMOLITION MECHANICAL FIRST FLOOR - NW
- DM1.03 DEMOLITION MECHANICAL FIRST FLOOR - SE
- DM1.04 DEMOLITION MECHANICAL FIRST FLOOR - SW
- DM1.11 DEMOLITION MECHANICAL SECOND FLOOR - NE
- DM1.12 DEMOLITION MECHANICAL SECOND FLOOR - NW
- DM1.13 DEMOLITION MECHANICAL SECOND FLOOR - SE
- DM1.14 DEMOLITION MECHANICAL SECOND FLOOR - SW
- DM1.21 DEMOLITION MECHANICAL THIRD FLOOR - NE
- DM1.22 DEMOLITION MECHANICAL THIRD FLOOR - NW
- DM1.23 DEMOLITION MECHANICAL THIRD FLOOR - SE
- DM1.24 DEMOLITION MECHANICAL THIRD FLOOR - SW
- DM1.25 DEMOLITION MECHANICAL PLAN - MECHANICAL ROOM
- DM1.26 DEMOLITION MECHANICAL PLAN - ROOF PLAN

#### LIST OF DRAWINGS - ELECTRICAL DEMOLITION

- DE2.01 POWER DEMO PLAN - FIRST FLOOR
- DE2.02 POWER DEMO PLAN - SECOND FLOOR
- DE2.03 POWER DEMO PLAN - THIRD FLOOR
- DE2.04 POWER DEMO PLAN - MECHANICAL ROOM
- DE2.05 POWER DEMO PLAN - ROOF LEVEL
- DE3.01 ELEC SYSTEMS DEMO PLAN - FIRST FLOOR
- DE3.02 ELEC SYSTEMS DEMO PLAN - SECOND FLOOR
- DE3.03 ELEC SYSTEMS DEMO PLAN - THIRD FLOOR
- DE3.04 ELEC SYSTEMS DEMO PLAN - MECHANICAL ROOM

#### LIST OF DRAWINGS - LIGHTING DEMOLITION

- L1.01 LIGHTING DEMO PLAN - FIRST FLOOR
- L1.02 LIGHTING DEMO PLAN - SECOND FLOOR
- L1.03 LIGHTING DEMO PLAN - THIRD FLOOR
- L1.04 LIGHTING DEMO PLAN - MECHANICAL ROOM

#### LIST OF DRAWINGS - ARCHITECTURAL

- A0.01 GEN. PROJECT NOTES, GRAPHIC SYMBOLS & ABBREVIATIONS
- A0.02 CODES AND NOTES
- A0.03 INTERIOR CONSTRUCTION SYSTEMS
- A2.01 COMPOSITE FIRST FLOOR PLAN
- A2.02 COMPOSITE SECOND FLOOR PLAN
- A2.03 COMPOSITE THIRD FLOOR PLAN
- A4.01 ENLARGED PLANS - VESTIBULE & RECEPTION
- A4.02 ENLARGED PLANS AND DETAILS - AUDITORIUM
- A5.01 INTERIOR ELEVATIONS - LOBBY & RECEPTION
- A5.02 INTERIOR ELEVATIONS - AUDITORIUM
- A5.03 INTERIOR ELEVATIONS - AUDITORIUM
- A6.01 COMPOSITE FIRST FLOOR REFLECTED CEILING PLAN
- A6.02 COMPOSITE SECOND FLOOR REFLECTED CEILING PLAN
- A6.03 COMPOSITE THIRD FLOOR REFLECTED CEILING PLAN
- A6.04 AUDITORIUM REFLECTED CEILING PLANS
- A8.01 DOOR SCHEDULE & ELEVATIONS
- A8.02 STOREFRONT, HOLLOW METAL, AND EXTERIOR DETAILS
- A9.01 FINISH SCHEDULE
- A9.02 INTERIOR DETAILS
- A9.03 CASEWORK SECTIONS

#### LIST OF DRAWINGS - PLUMBING

- P0.01 PLUMBING LEGEND & SCHEDULES
- P1.01 PLUMBING FIRST FLOOR PLAN
- P1.02 PLUMBING SECOND FLOOR PLAN
- P1.03 PLUMBING THIRD FLOOR PLAN
- P1.04 PLUMBING PLAN - MECHANICAL ROOM
- P2.01 PLUMBING DETAILS

#### LIST OF DRAWINGS - MECHANICAL

- M0.01 MECHANICAL LEGEND & SCHEDULES
- M0.02 MECHANICAL SCHEDULES
- M1.01 MECHANICAL FIRST FLOOR - NE
- M1.02 MECHANICAL FIRST FLOOR - NW
- M1.03 MECHANICAL FIRST FLOOR - SE
- M1.04 MECHANICAL FIRST FLOOR - SW
- M1.11 MECHANICAL SECOND FLOOR - NE
- M1.12 MECHANICAL SECOND FLOOR - NW
- M1.13 MECHANICAL SECOND FLOOR - SE
- M1.14 MECHANICAL SECOND FLOOR - SW
- M1.21 MECHANICAL THIRD FLOOR - NE
- M1.22 MECHANICAL THIRD FLOOR - NW
- M1.23 MECHANICAL THIRD FLOOR - SE
- M1.24 MECHANICAL THIRD FLOOR - SW
- M1.25 MECHANICAL PLAN - MECHANICAL ROOM
- M1.26 MECHANICAL PLAN - ROOF PLAN
- M3.01 MECHANICAL DETAILS
- M3.02 MECHANICAL DETAILS
- M3.03 CONTROL SCHEMATICS

#### LIST OF DRAWINGS - ELECTRICAL

- E0.01 ELECTRICAL LEGEND
- E2.01 POWER PLAN - FIRST FLOOR
- E2.02 POWER PLAN - SECOND FLOOR
- E2.03 POWER PLAN - THIRD FLOOR
- E2.04 POWER PLAN - MECHANICAL ROOM
- E2.05 POWER PLAN - ROOF LEVEL
- E2.06 POWER PLAN - AUDITORIUM
- E3.01 FIRE ALARM PLAN - FIRST FLOOR
- E3.02 FIRE ALARM PLAN - SECOND FLOOR
- E3.03 FIRE ALARM PLAN - THIRD FLOOR
- E3.04 FIRE ALARM PLAN - MECHANICAL ROOM
- E4.01 INTERCOM PLAN - FIRST FLOOR
- E4.02 INTERCOM PLAN - SECOND FLOOR
- E4.03 INTERCOM PLAN - THIRD FLOOR
- E5.01 SECURITY SYSTEM PLAN - FIRST FLOOR
- E6.01 ELECTRICAL SCHEDULES
- E6.02 ELECTRICAL DETAILS
- E6.03 ELECTRICAL DETAILS

#### LIST OF DRAWINGS - LIGHTING

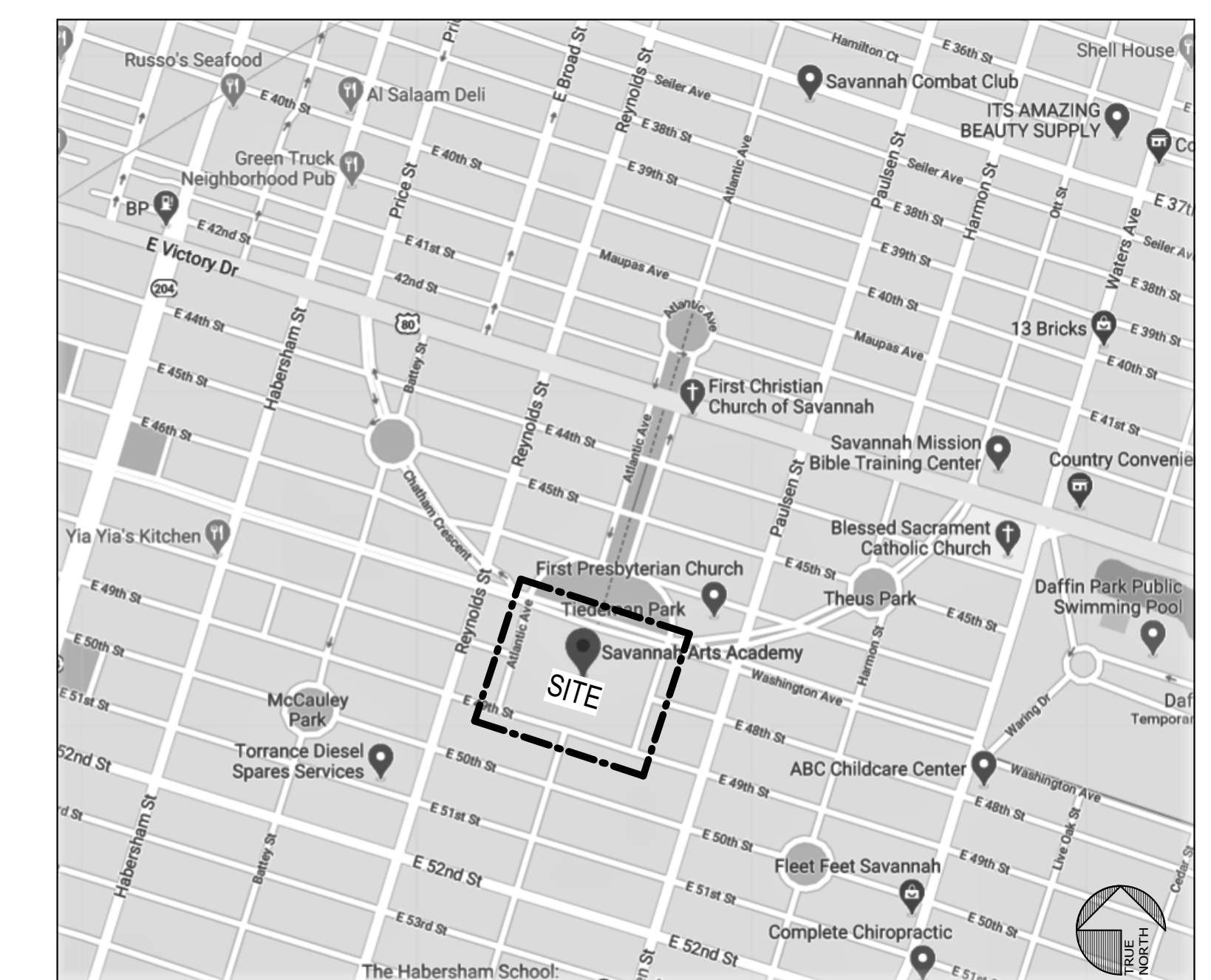
- L0.01 LIGHT FIXTURE SCHEDULE
- L2.01 LIGHTING PLAN - FIRST FLOOR
- L2.02 LIGHTING PLAN - SECOND FLOOR
- L2.03 LIGHTING PLAN - THIRD FLOOR
- L2.04 LIGHTING PLAN - MECHANICAL ROOM

#### LIST OF DRAWINGS - EPS

- EPS0L LEGEND
- EPS1.1 1ST FLOOR AV PLAN
- EPS1.2 1ST FLOOR ACOUSTIC SYSTEM PLAN
- EPS1.3 1ST FLOOR LIGHTING PLAN
- EPS1.4 2ND FLOOR LIGHTING PLAN
- EPS1.5 3RD FLOOR AV PLAN
- EPS1.6 3RD FLOOR ACOUSTIC SYSTEM PLAN
- EPS1.7 1ST FLOOR AV RCP
- EPS2.1 1ST FLOOR ACOUSTIC SYSTEM RCP
- EPS2.2 3RD FLOOR RCP
- EPS2.3 LIGHTING RCP
- EPS2.4 CURTAIN LAYOUT
- EPS3.1 AUDITORIUM SECTION
- EPS3.2 MOTORIZED HOIST RCP
- EPS4.1 PRODUCTION PANEL DETAILS
- EPS4.2 FACE PLATE DETAILS
- EPS4.3 SPEAKER DETAILS
- EPS4.4 EQUIPMENT RACK DETAILS
- EPS4.5 HOIST DETAILS
- EPS4.6 LIGHTING DETAILS
- EPS4.7 VIDEO DETAILS

#### LIST OF DRAWINGS - PS

- PS1.1 AUDIO FLOW DIAGRAM
- PS1.2 AUDIO FLOW DIAGRAM (CONT.)
- PS1.3 AUDIO FLOW DIAGRAM (CONT.)
- PS1.4 AUDIO FLOW DIAGRAM (CONT.)
- PS1.5 VIDEO FLOW DIAGRAM
- PS1.6 CONTROL FLOW DIAGRAM
- PS1.7 LIGHTING FLOW DIAGRAM
- PS1.8 POWER FLOW DIAGRAM



SET NO. 1 - ISSUED FOR PERMIT/GMP

SHEET: T1.0

ADDENDUM NO. 1 - 3/14/2022

DOOR SCHEDULE

DOOR NO	FROM ROOM	TO ROOM	CONFIG	DOOR				GLAZING	HARDWARE SET	LABEL	FRAME					REMARKS		
				HEIGHT	WIDTH	TYPE	PANEL				TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL		SILL DETAIL	
100.1	VESTIBULE		AI	7'-0"	7'-0"	G	HM	Painted	ILG-2	1.0	None (Not Rated)	HM1	Hollow Metal	Painted	10A8.02 SIM	10A8.02	13 & 14A8.02	
100.3	VESTIBULE		AI	7'-0"	7'-0"	G	HM	Painted	ILG-2	1.0	None (Not Rated)	HM1	Hollow Metal	Painted	10A8.02 SIM	10A8.02	13 & 14A8.02	
100.6	VESTIBULE		AI	7'-0"	7'-0"	G	HM	Painted	ILG-2	1.0	None (Not Rated)	HM1	Hollow Metal	Painted	10A8.02 SIM	10A8.02	13 & 14A8.02	
102.A	LOBBY		SG	7'-0"	3'-0"	AL2	Aluminum	Anodized	LG-2	2.0	None (Not Rated)	SF02	Aluminum	Anodized	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	
102.B	LOBBY	CORRIDOR	SG	7'-0"	3'-0"	SR	WD	Painted	LG-2	3.0	None (Not Rated)	WF-2	Wood	Painted	11A8.02 SIM	12A8.02	--	4
102.C	OFFICE		SG	7'-0"	3'-0"	SR	WD	Painted	--	3.0	None (Not Rated)	WF	Wood	Painted	15A8.02 SIM	15A8.02	--	4
102.D	RECEPTION	OFFICE	EXIST.	7'-0"	3'-0"	EXIST.	Wood	Painted	LG-2	3.0	None (Not Rated)	WF	Wood	Painted	15A8.02 SIM	15A8.02	--	3.5
102.E	STORAGE	RECEPTION	SG	7'-0"	3'-0"	SR	Wood	Painted	--	12.0	None (Not Rated)	WF	Wood	Painted	15A8.02 SIM	15A8.02	--	4
103.A	LOBBY		EXIST.	7'-11 1/2"	6'-0"			Painted							--	--	--	2
103.B	LOBBY		EXIST.	7'-11 1/2"	6'-0"			Painted							--	--	--	2
103.C	LOBBY		EXIST.	7'-11 1/2"	6'-0"			Painted							--	--	--	2
103.D	CORRIDOR	LOBBY	AI	7'-0"	6'-0"	AL2	Aluminum	Anodized	LG-2	4.0	None (Not Rated)	SF04	Aluminum	Anodized	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	
103.E	CORRIDOR	LOBBY	AI	7'-0"	6'-0"	AL2	Aluminum	Anodized	LG-2	6.0	None (Not Rated)	SF05	Aluminum	Anodized	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	
103.F	CORRIDOR	LOBBY	AI	7'-0"	6'-0"	AL2	Aluminum	Anodized	LG-2	6.0	None (Not Rated)	SF04	Aluminum	Anodized	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	
123	CORRIDOR		EXIST.	7'-11 1/2"	6'-0"			Painted	ILG-2						--	--	--	2
127.2	VEST		EXIST.	7'-0"	6'-0"		Exist. HM NL	Painted	ILG-2		None	HM4	Exist. HM	Painted	--	--	--	1.5
144.A	AUDITORIUM		EXIST.	7'-0"	6'-0"		Exist. HM	Painted		9.0			Exist. HM	Painted	--	--	12A8.02	2
144.B	AUDITORIUM		EXIST.	7'-0"	6'-0"		Exist. HM	Painted		9.0			Exist. HM	Painted	--	--	12A8.02	2
30A	CORRIDOR	CORRIDOR	AI	7'-0"	8'-0"	N6	Wood	Prefinished	--	8.0	None (Not Rated)	HM2	Hollow Metal	Painted	9A8.02	8A8.02	--	
30B	CORRIDOR	CORRIDOR	AI	7'-0"	8'-0"	N6	Wood	Prefinished	--	8.0	None (Not Rated)	HM2	Hollow Metal	Painted	9A8.02	8A8.02	--	

REMARKS:

- GENERAL DIMENSIONS GIVEN FOR EXISTING DOORS ARE APPROXIMATE. FIELD VERIFY DIMENSIONS OF EXISTING DOORS.
- EXISTING HM DOORS AND FRAME TO REMAIN. GLAZING TO BE REPLACED. MODIFY FRAME AS REQUIRED TO RECEIVE INSULATING GLASS.
- INSTALL/REPLACE HARDWARE AS INDICATED.
- REINSTALL EXISTING DOOR IN SCHEDULED FRAME.
- MATCH HEIGHT DIMENSION OF EXISTING DOOR 102D
- REPLACE EXISTING GLAZING. FIELD VERIFY SIZE OF GLAZING

GENERAL DOOR NOTES

- SEE FLOOR PLANS AND ELEVATIONS FOR DOOR LOCATIONS AND FRAME LOCATIONS.
- OVERALL HORIZONTAL AND VERTICAL FRAME DIMENSIONS ARE TO MASONRY OPENINGS.
- VIEW LITES IN ALL NON-LABELED INTERIOR DOORS SHALL BE LAMINATED CLEAR SAFETY GLASS, UNLESS NOTED OTHERWISE.
- EXTERIOR WINDOWS AND STOREFRONT FRAMING SHALL BE PROVIDED WITH TEMPERED, LOW-E INSULATING GLASS UNITS, UNLESS NOTED OTHERWISE.
- SEE FRAME ELEVATIONS FOR SILL HEIGHTS, AFF.
- CENTELINE OF ALL EXIT DEVICES SHALL BE 3" AFF, UNLESS NOTED OTHERWISE.
- PROVIDE CONDUIT FOR POWER AT ALL EXTERIOR DOORS FOR ACCESS CONTROL AND/OR DOOR POSITION SWITCHES. EXCEPT WHERE NOTED ELSEWHERE, ACCESS CONTROL HARDWARE AND DEVICES WILL BE INSTALLED AT A LATER DATE.
- ALL NAILERS AND BLOCKING USED WITH MASONRY, CONCRETE OR METAL SHALL BE PRESSURE TREATED.
- ALL EXISTING PAINTED DOORS & FRAMES TO BE PREPPED AND REPAINTED.

DOOR ABBREVIATIONS

- AA ACTIVE/ACTIVE LEAF CONFIGURATION
- AI ACTIVE/INACTIVE LEAF CONFIGURATION
- BL BORROWED LITE
- SG SINGLE LEAF CONFIGURATION
- WBS WHITE BIRCH STAINED
- HPOF HIGH PERFORMANCE ORGANIC FINISH

GLAZING LEGEND

- TFG 08 08 00 TRANSPARENT FLOAT GLASS
- LG-1 08 08 00 CLEAR LAMINATED FULLY TEMPERED FLOAT GLASS (.03 INTERLAYER)
- LG-2 08 08 00 CLEAR LAMINATED FULLY TEMPERED FLOAT GLASS (.06 INTERLAYER)
- IRG-1 08 08 00 LOW-E COATED CLEAR INSULATING GLASS, 1"
- ILG-1 08 08 00 LOW-E COATED CLEAR INSULATING LAMINATED GLASS, 1"
- ILG-2 08 08 00 LOW-E COATED CLEAR INSULATING LAMINATED GLASS, 1"

- IRG-2 08 08 00 LOW-E COATED CLEAR INSULATING LAMINATED GLASS, 1"

- ILG-2 08 08 00 LOW-E COATED CLEAR INSULATING LAMINATED GLASS, 1"

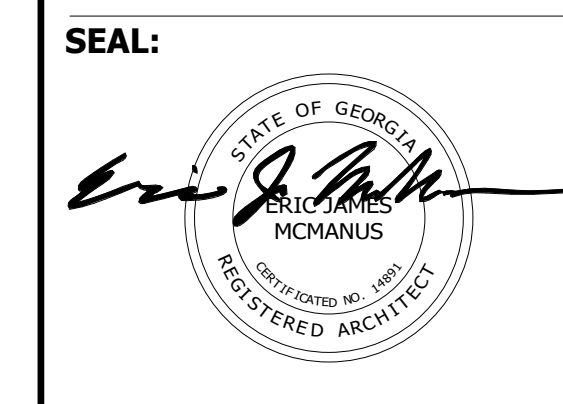
**VOL. I - SAVANNAH ARTS ACADEMY RENOVATION**  
 500 WASHINGTON AVENUE  
 SAVANNAH, GEORGIA 31405  
**SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM**  
**GMP CONSTRUCTION DOCUMENTS**



**SCCPSS**

**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO #:** C22-01

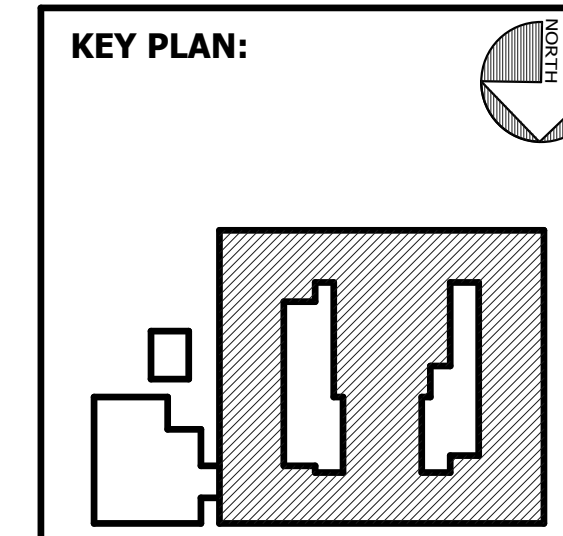
**Cogdell Mendrala Architects**  
**COGDELL & MENDRALA ARCHITECTS, PC**  
 517 EAST CONGRESS STREET  
 SAVANNAH, GEORGIA 31401  
 tel 912.234.6318  
 fax 912.236.8414  
 cogdellmendrala.com



**PROJECT CONSULTANTS:**  
**CIVIL ENGINEER**  
**MAXWELL-REDDICK & ASSOCIATES**  
 40 JOE KENNEDY BLVD.  
 STATESBORO, GA 30458

**STRUCTURAL ENGINEER:**  
**SAUSSY ENGINEERING**  
 400 E. JOHNNY MERCER BOULEVARD  
 SAVANNAH, GA 31410

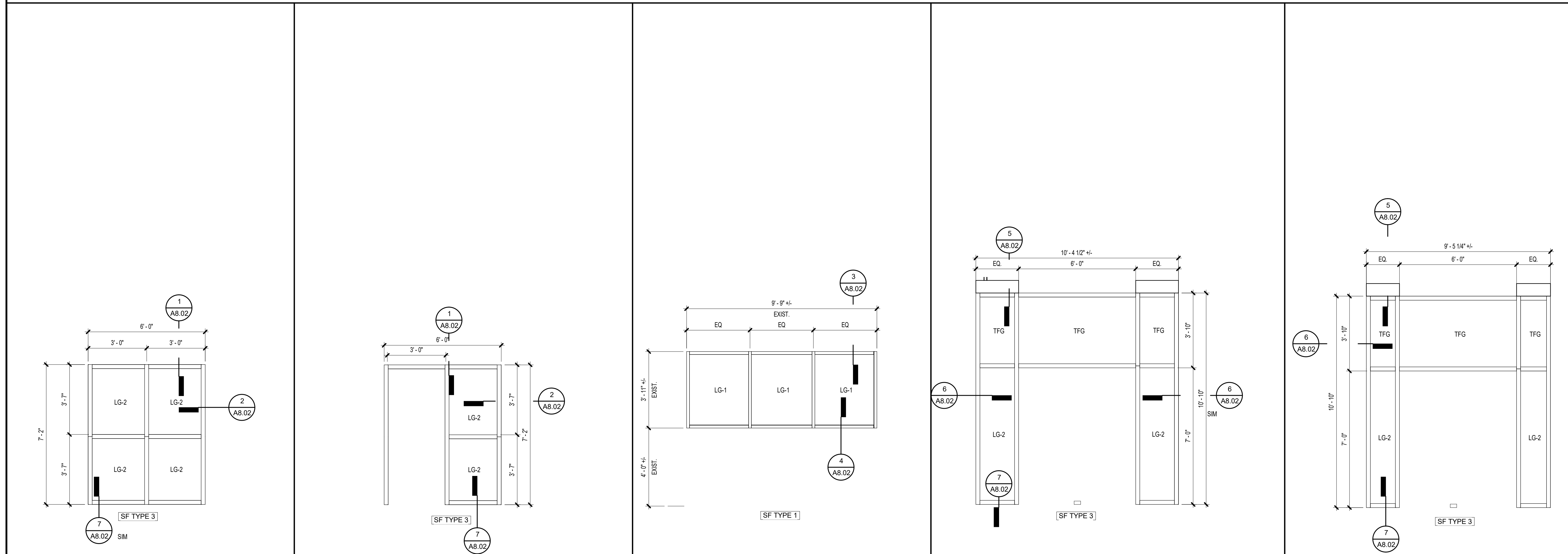
**MECHANICAL & ELECTRICAL ENGINEER:**  
**DULOHERY WEEKS ENGINEERS**  
 7402 HODGSON MEMORIAL DRIVE,  
 SUITE 100  
 SAVANNAH, GA 31406



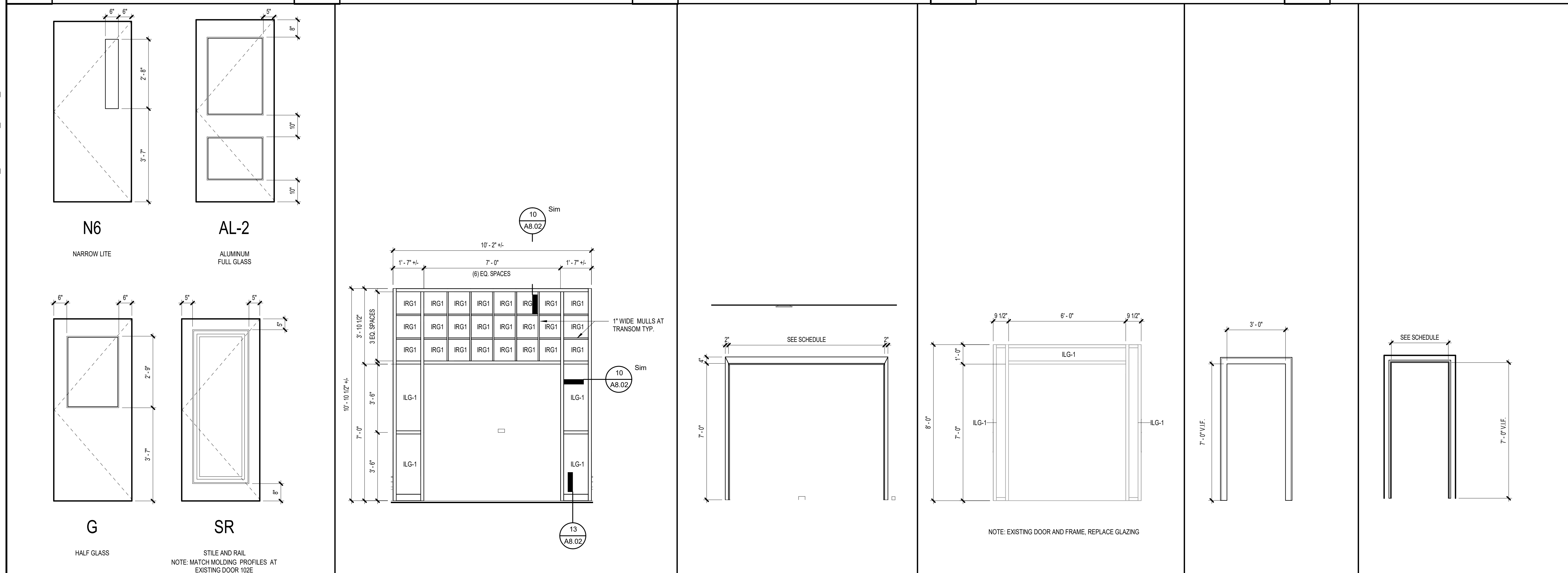
**SHEET TITLE:**  
**DOOR SCHEDULE & ELEVATIONS**

REVISION SCHEDULE	
DATE	DESCRIPTION
3/14/2022	Addendum No. 1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** RML  
**SCALE:** As indicated  
**SHEET:** **A8.01**

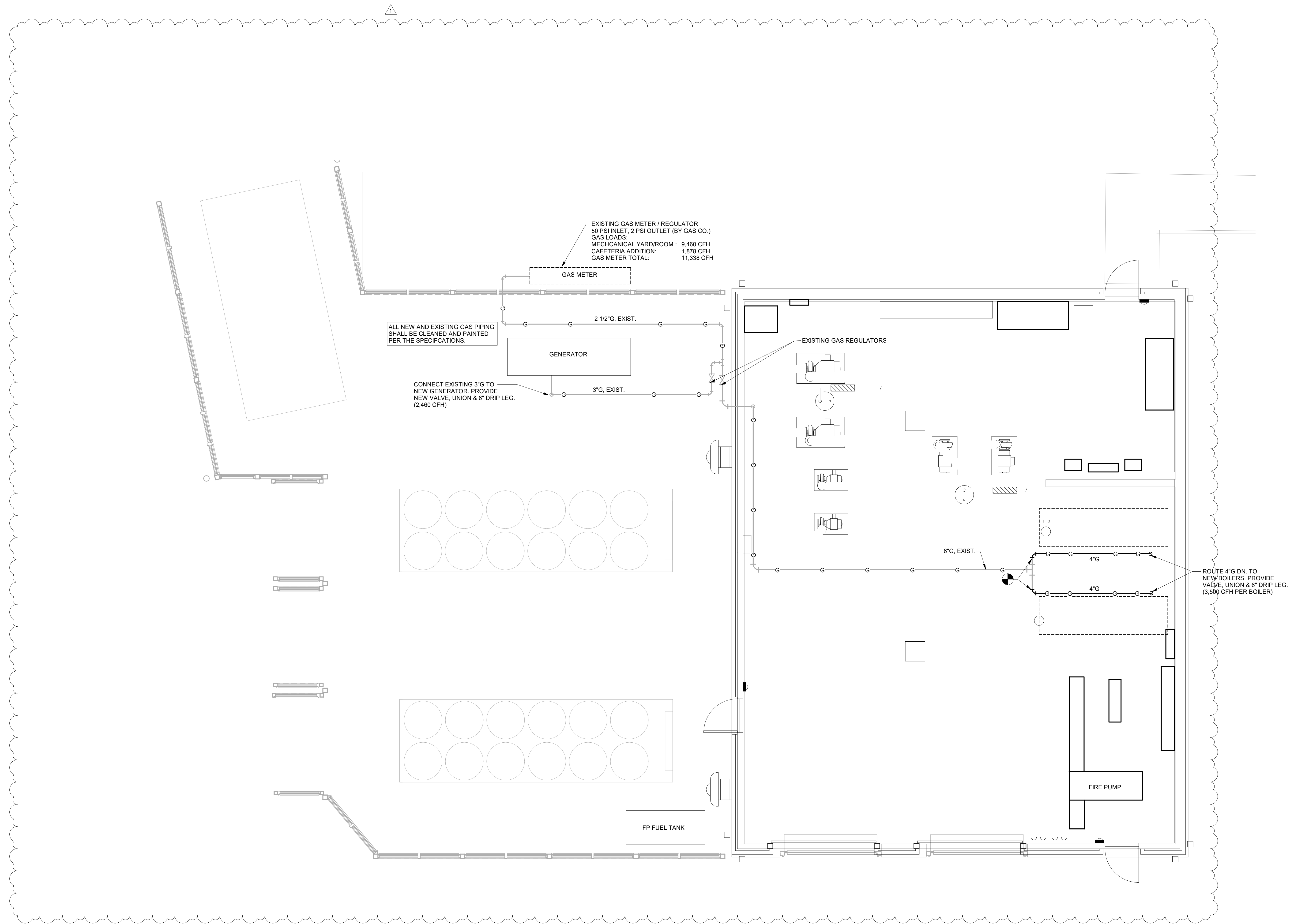


SF01	BORROW LITE AT RECEPTION	SF02	STOREFRONT SIDELITE AT RECEPTION	SF03	CONTROL ROOM 1ST FLOOR	SF04	STOREFRONT AT LOBBY	SF05	STOREFRONT AT LOBBY
A8.01	3/8" = 1'-0"	A8.01	3/8" = 1'-0"	A8.01	3/8" = 1'-0"	A8.01	3/8" = 1'-0"	A8.01	3/8" = 1'-0"



DOOR TYPE ELEVATIONS	HM 1	HOLLOW METAL FRAME	HM 2	HOLLOW METAL FRAME	HM 4	HOLLOW METAL FRAME	WF	WOOD FRAME	WF 2	WOOD FRAME 102B	1	DETAIL AT EXIST. D.S. BOOT
1/2" = 1'-0"	A8.01	3/8" = 1'-0"	A8.01	3/8" = 1'-0"	A8.01	3/8" = 1'-0"	A8.01	3/8" = 1'-0"	A8.01	3/8" = 1'-0"	A8.01	1 1/2" = 1'-0"

C:\Users\eric.CMA\Documents\1916\_SAA\_RVT\_2019\_ARCH\_emcmaman2013.rvt 3/16/2022 6:55:24 AM

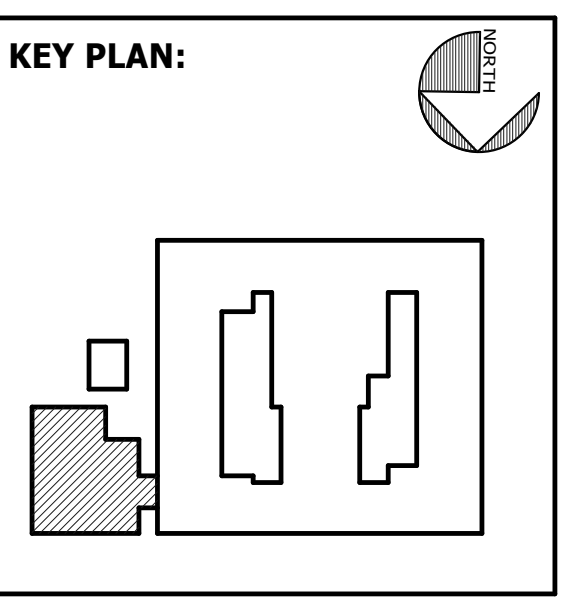


**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

**Cogdell Mendrala Architects**  
 COGDELL & MENDRALA ARCHITECTS, PC  
 517 EAST CONGRESS STREET  
 SAVANNAH, GEORGIA 31401  
 TEL 912.234.6318  
 FAX 912.236.8414  
 cogdellmendrala.com

**SEAL:**

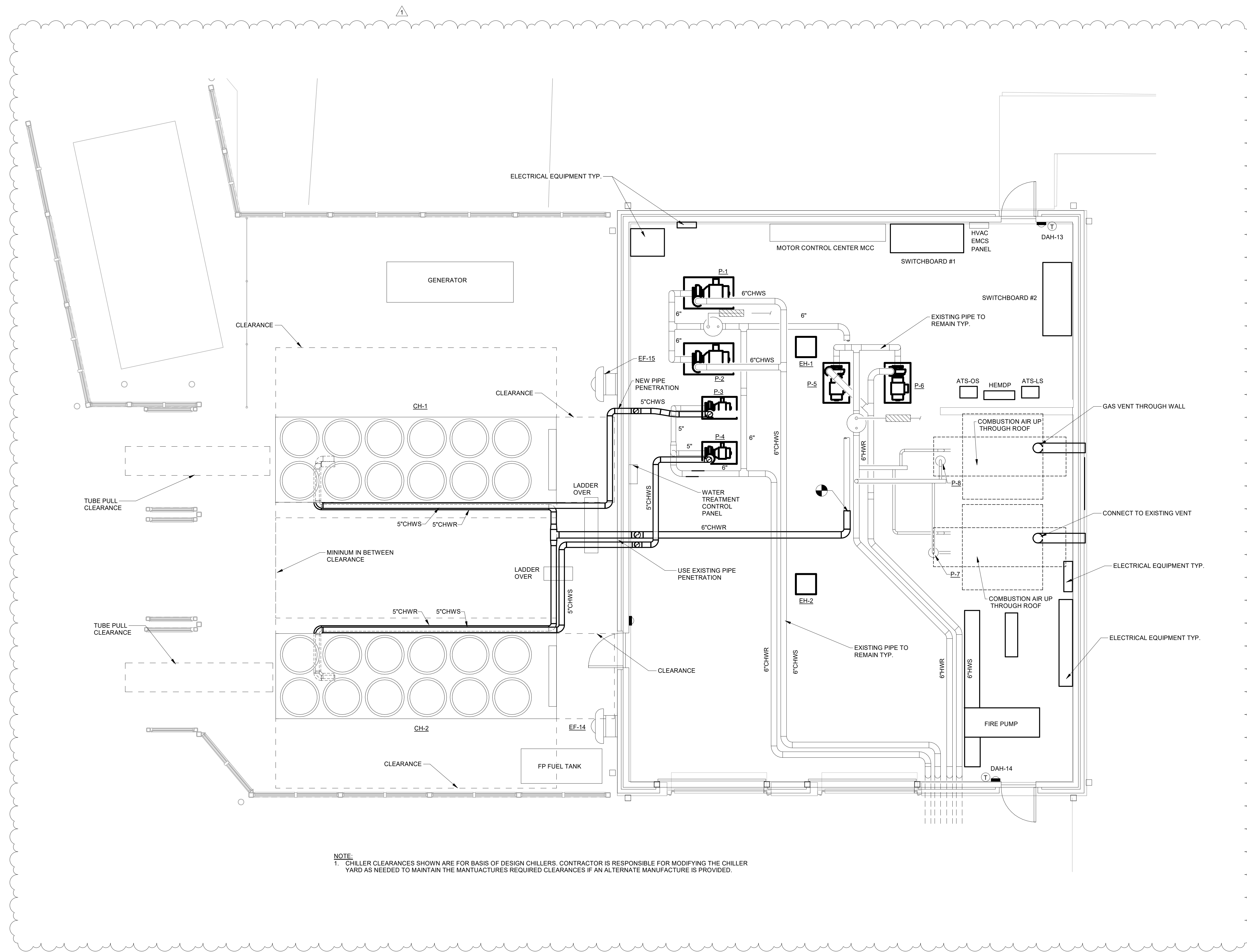
**PROJECT CONSULTANTS:**  
 CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
 40 JOE KENNEDY BLVD.  
 STATESBORO, GA 30458  
 STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
 400 E. JOHNNY MERCER BOULEVARD  
 SAVANNAH, GA 31410  
 MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
 7402 HODGSON MEMORIAL DRIVE,  
 SUITE 100  
 SAVANNAH, GA 31406



**SHEET TITLE:**  
**PLUMBING PLAN - MECHANICAL ROOM**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** Author  
**SCALE:** 1/4" = 1'-0"  
**SHEET:** **P1.04**

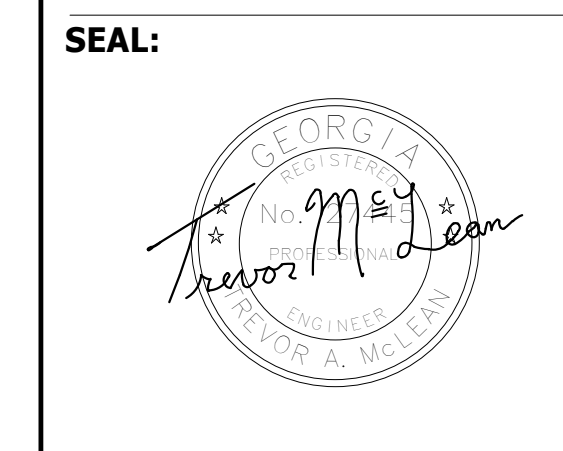


**NOTE:**  
 1. CHILLER CLEARANCES SHOWN ARE FOR BASIS OF DESIGN CHILLERS. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE CHILLER YARD AS NEEDED TO MAINTAIN THE MANUFACTURES REQUIRED CLEARANCES IF AN ALTERNATE MANUFACTURE IS PROVIDED.

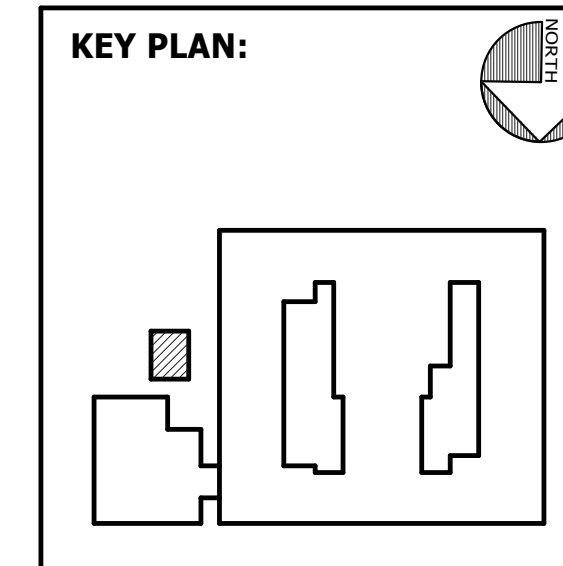


**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

**Cogdell Mendrala Architects**  
 COGDELL & MENDRALA ARCHITECTS, PC  
 517 EAST CONGRESS STREET  
 SAVANNAH, GEORGIA 31401  
 tel 912.234.6318  
 fax 912.236.8414  
 cogdellmendrala.com



**PROJECT CONSULTANTS:**  
 CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
 40 JOE KENNEDY BLVD.  
 STATESBORO, GA 30458  
 STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
 400 E. JOHNNY MERCER BOULEVARD  
 SAVANNAH, GA 31410  
 MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
 7402 HODGSON MEMORIAL DRIVE,  
 SUITE 100  
 SAVANNAH, GA 31406



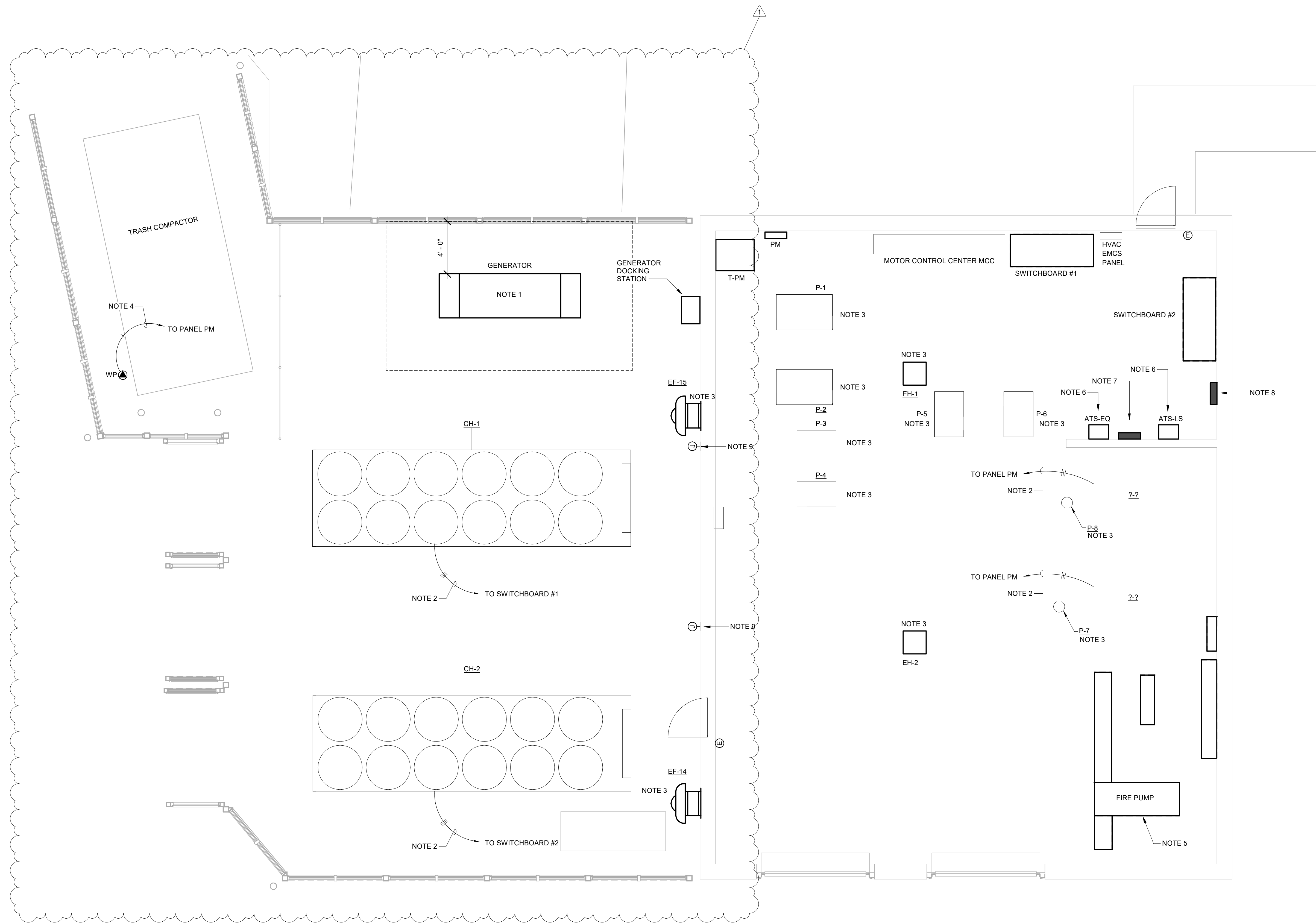
**SHEET TITLE:**  
**MECHANICAL PLAN - MECHANICAL ROOM**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** JML  
**SCALE:** 1/4" = 1'-0"  
**SHEET:** **M1.25**

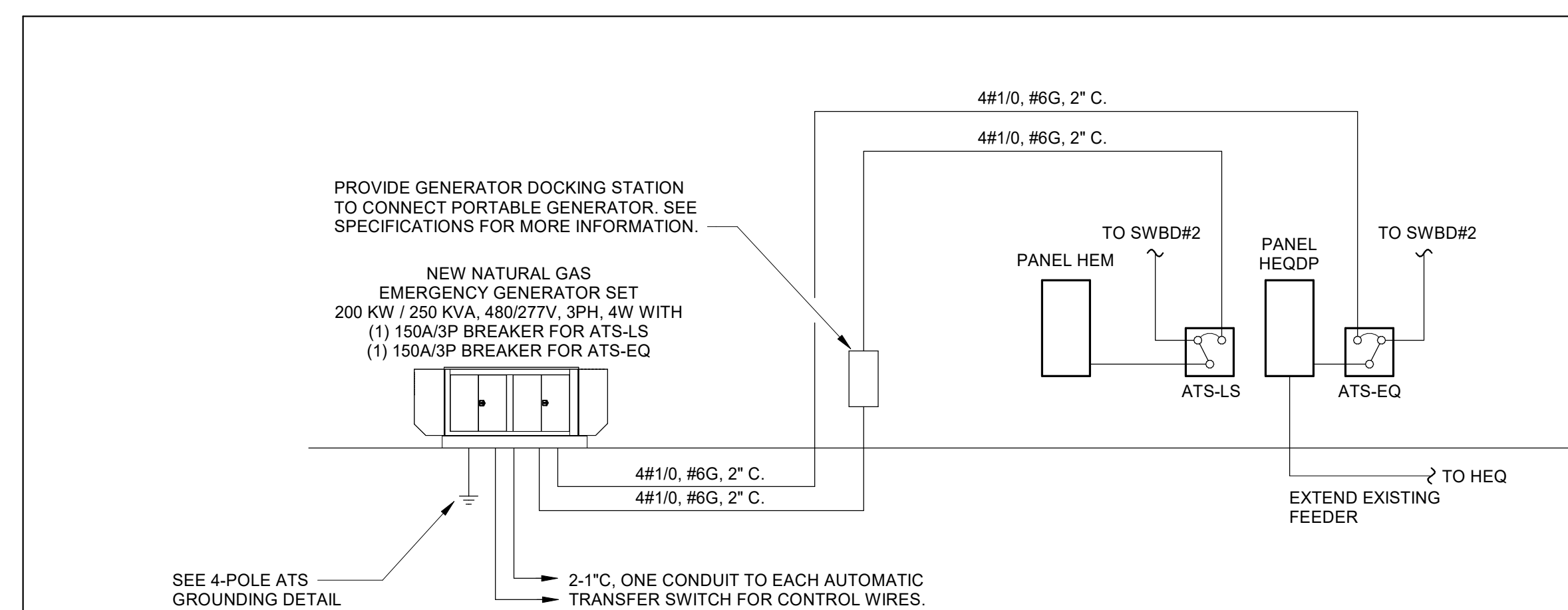


BIM 360/20190115 Savannah Arts Academy Renovations/20190115-ELEC-SCHOOL.DWG 3/14/2022 4:39:17 PM



**NOTES:**

1. PROVIDE NEW 200KW / 250KVA NATURAL GAS FIRED GENERATOR WITH WEATHERPROOF ENCLOSURE. SEE PARTIAL EMERGENCY SYSTEMS RISER DIAGRAM, E2.04 FOR MORE INFORMATION.
2. PROVIDE NEW FEEDER, DISCONNECT SWITCH, AND CIRCUIT BREAKER SIZED IN ACCORDANCE WITH THE MECHANICAL EQUIPMENT CONNECTION SCHEDULE. PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER.
3. PROVIDE NEW DISCONNECT SWITCH AND FINAL CONNECTION TO UNIT IN ACCORDANCE WITH THE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
4. PROVIDE POST MOUNTED 30A/120V TWIST LOCK RECEPTACLE IN WEATHERPROOF ENCLOSURE WITH 2#10, #10G, 1/2" C AWG. ROUTE TO NEW 30A/1P GFCI CIRCUIT BREAKER. COORDINATE EXACT LOCATION WITH EQUIPMENT BEING INSTALLED.
5. RECONNECT POWER SUPPLY TO NEW FIRE PUMP AND JOCKEY PUMP.
6. NEW 150A, 4 POLE AUTOMATIC TRANSFER SWITCH. PROVIDE NORMAL POWER SOURCE FROM NEW 150A/3P CIRCUIT BREAKER IN SWBD#2.
7. NEW DISTRIBUTION PANELBOARD TO SERVE NON-LIFE SAFETY LOADS. EXTEND EXISTING 30A FEEDER FROM PANEL HEQ TO NEW 30A/3P CIRCUIT BREAKER IN HEQDP.
8. NEW DISTRIBUTION PANELBOARD TO SERVE LIFE SAFETY LOADS.
9. PROVIDE ELECTRICAL CONNECTION TO NEW HEAT TRACE. CONNECT TO EXISTING 120 VOLT, 20 AMP BRANCH CIRCUIT PREVIOUSLY SUPPLYING HEAT TRACE TO COOLING TOWER.

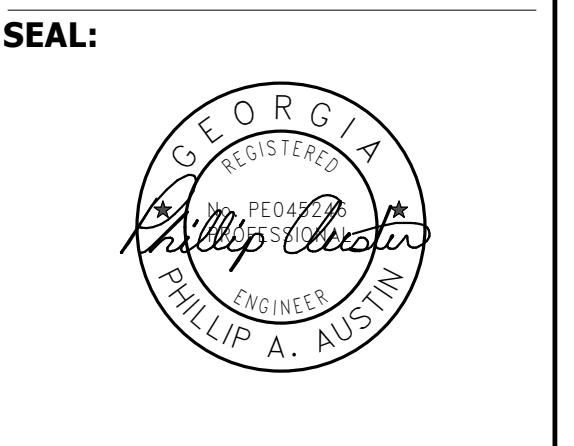


**VOL. I SAVANNAH ARTS ACADEMY RENOVATION**  
 500 WASHINGTON AVENUE  
 SAVANNAH, GEORGIA 31405  
 SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
 GMP CONSTRUCTION DOCUMENTS

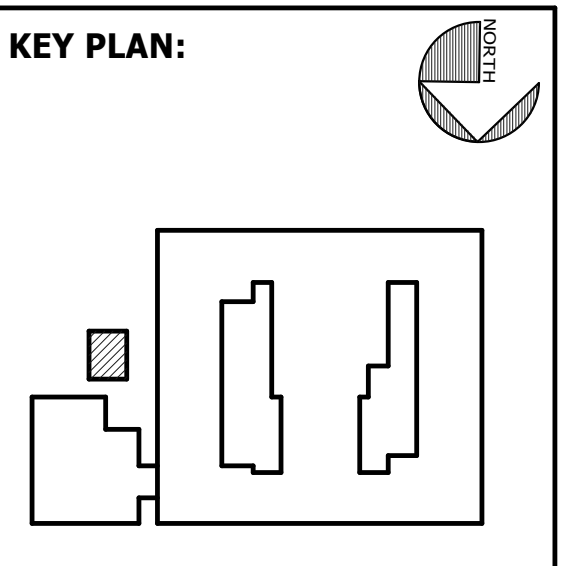


**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

**Cogdell Mendrala Architects**  
 COGDELL & MENDRALA ARCHITECTS, PC  
 517 EAST CONGRESS STREET  
 SAVANNAH, GEORGIA 31401  
 TEL 912.234.6318  
 FAX 912.236.8414  
 cogdellmendrala.com



**PROJECT CONSULTANTS:**  
 CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
 40 JOE KENNEDY BLVD.  
 STATESBORO, GA 30458  
 STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
 400 E. JOHANNY MERCER BOULEVARD  
 SAVANNAH, GA 31410  
 MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
 7402 HODGSON MEMORIAL DRIVE,  
 SUITE 100  
 SAVANNAH, GA 31406



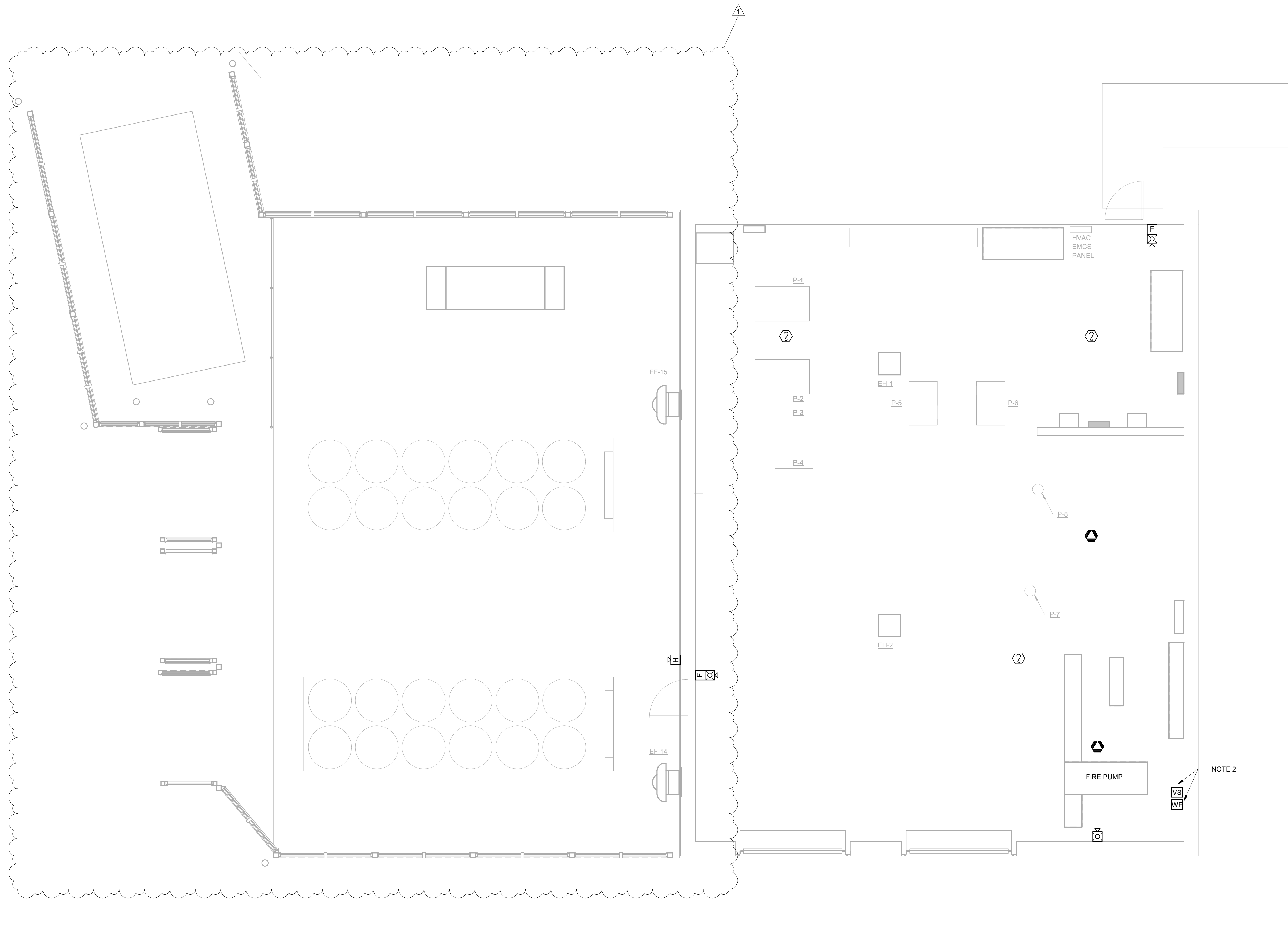
**SHEET TITLE:**  
**POWER PLAN - MECHANICAL ROOM**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** PAA  
**SCALE:** As indicated  
**SHEET:** **E2.04**

1 POWER PLAN - MECHANICAL ROOM  
 E2.04 1/4" = 1'-0"

2 PARTIAL EMERGENCY SYSTEMS RISER DIAGRAM - NEW WORK  
 E2.04 NOT TO SCALE



**NOTES:**

- (GENERAL) PROVIDE PROTECTIVE POLYCARBONATE COVERS EQUAL TO STI STOPPER SERIES FOR ALL PULL STATIONS.
- PROVIDE NEW MONITOR MODULES AND CONTROL MODULES FOR ALL EXISTING FLOW AND TAMPER SWITCHES. COORDINATE EXACT REQUIREMENTS AND QUANTITIES WITH EXISTING FIRE SPRINKLER EQUIPMENT.
- (GENERAL) WHERE NEW DEVICES ARE TO REPLACE EXISTING DEVICES ENSURE CODE REQUIRED MOUNTING HEIGHTS ARE MET. IN CASES WHERE MOUNTING HEIGHTS ARE NOT MET, ADJUST NEW DEVICE TO REQUIRED MOUNTING HEIGHT.

**VOL. I SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



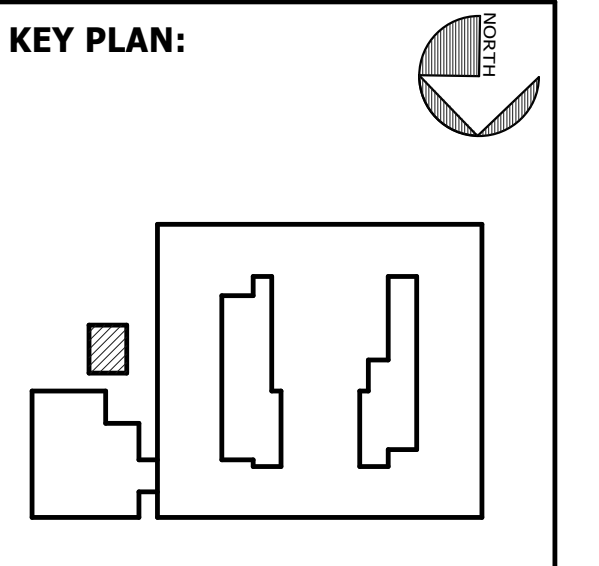
**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

**Cogdell Mendrala Architects**  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

**SEAL:**



**PROJECT CONSULTANTS:**  
CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458  
STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410  
MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406



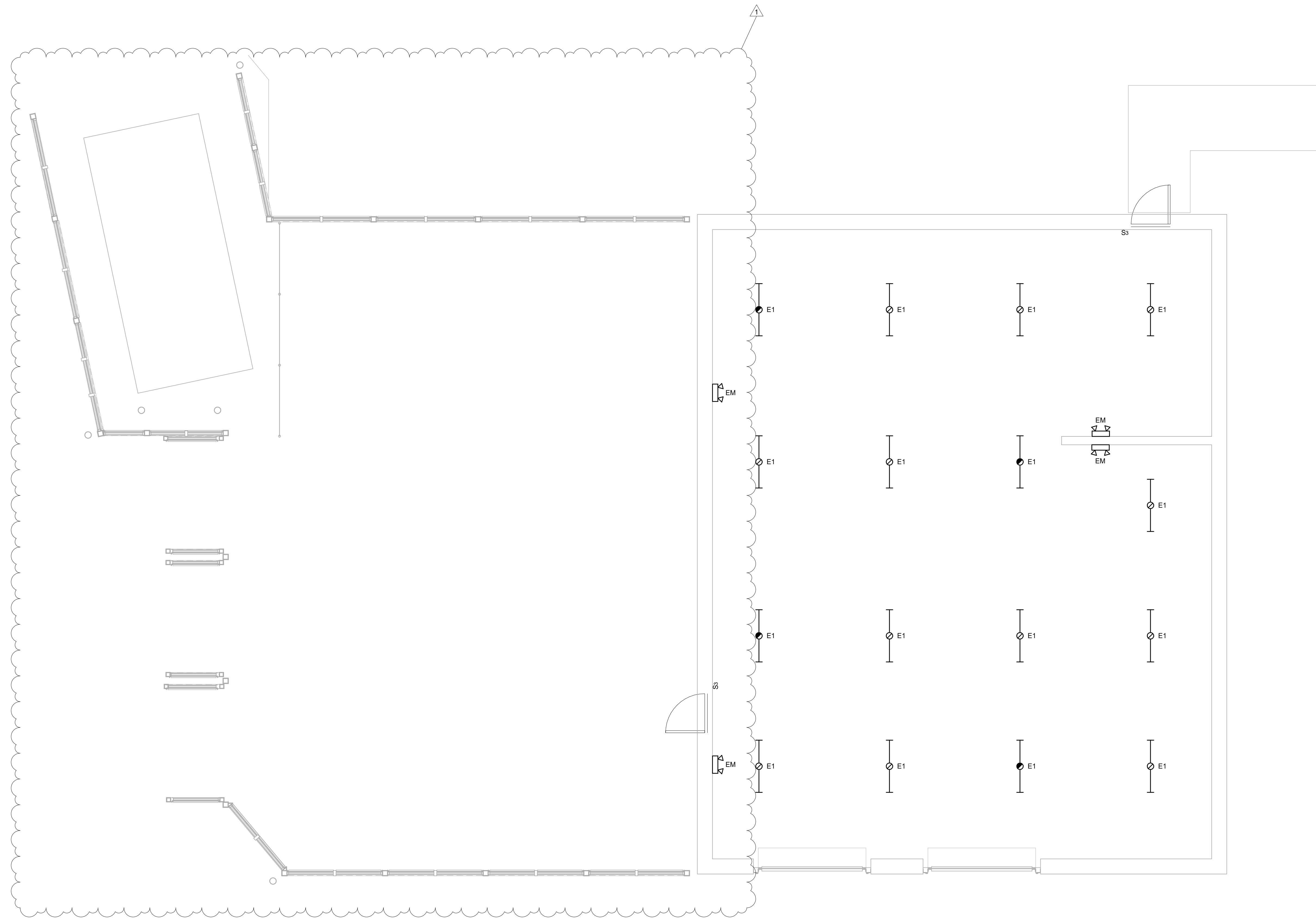
**SHEET TITLE:**  
**FIRE ALARM  
PLAN -  
MECHANICAL  
ROOM**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** PAA  
**SCALE:** 1/4" = 1'-0"  
**SHEET:** **E3.04**







**GENERAL NOTES:**

1. WHERE LIGHT FIXTURES ARE SHOWN, RECONNECT FIXTURES AND ASSOCIATED CONTROL DEVICES TO EXISTING BRANCH CIRCUITRY.

**VOL. I SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

**Cogdell Mendrala Architects**  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

**SEAL:**



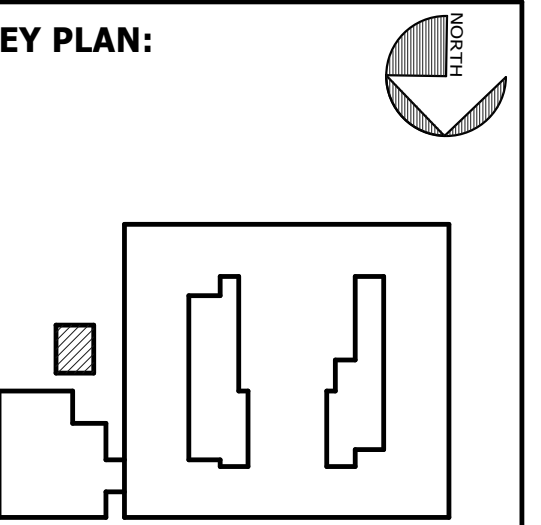
**PROJECT CONSULTANTS:**

CIVIL ENGINEER  
**MAXWELL-REDDICK &  
ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS  
ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

**KEY PLAN:**



**SHEET TITLE:**

**LIGHTING PLAN  
- MECHANICAL  
ROOM**

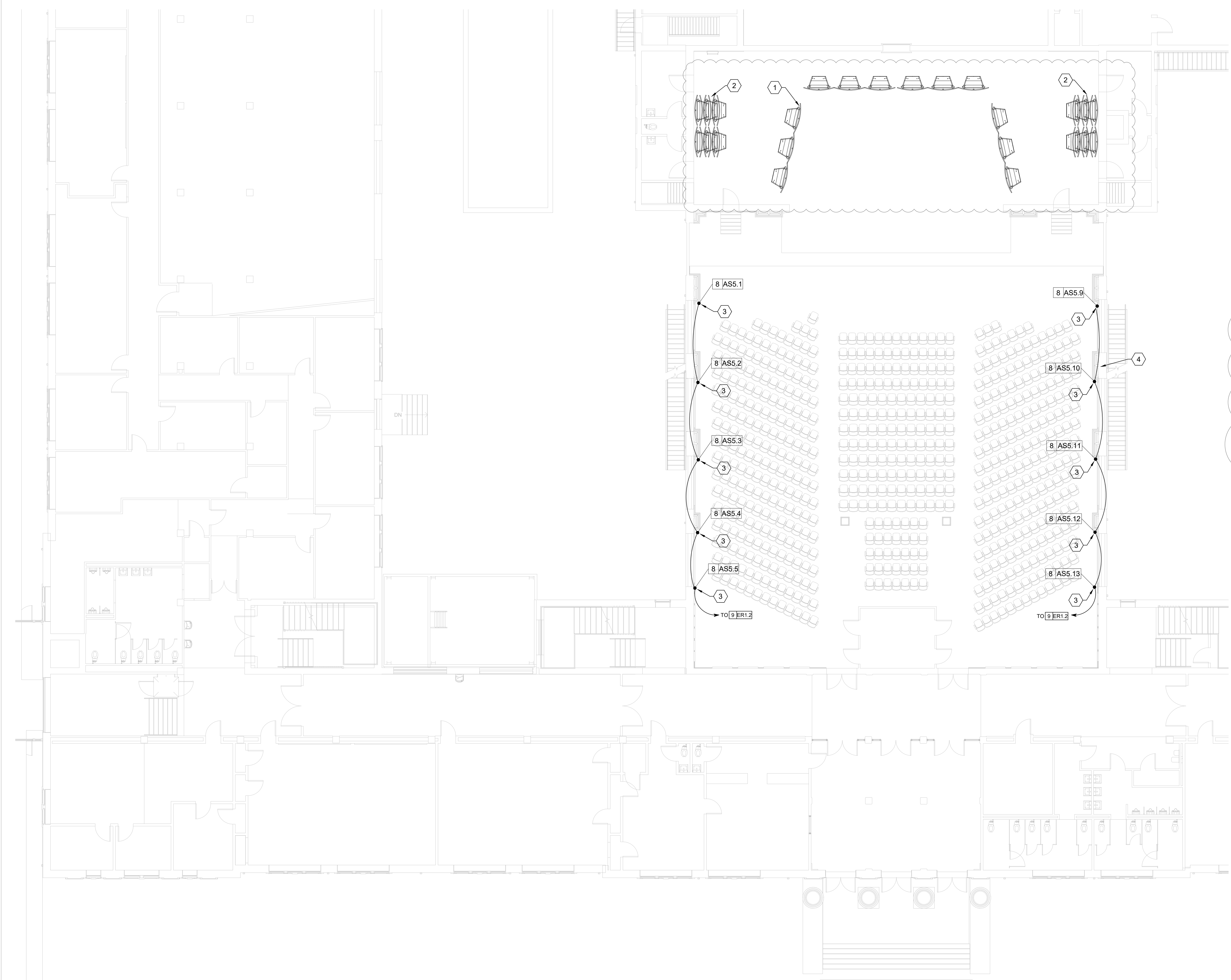
**REVISION SCHEDULE**

DATE	DESCRIPTION
03/14/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** PAA  
**SCALE:** 1/4" = 1'-0"

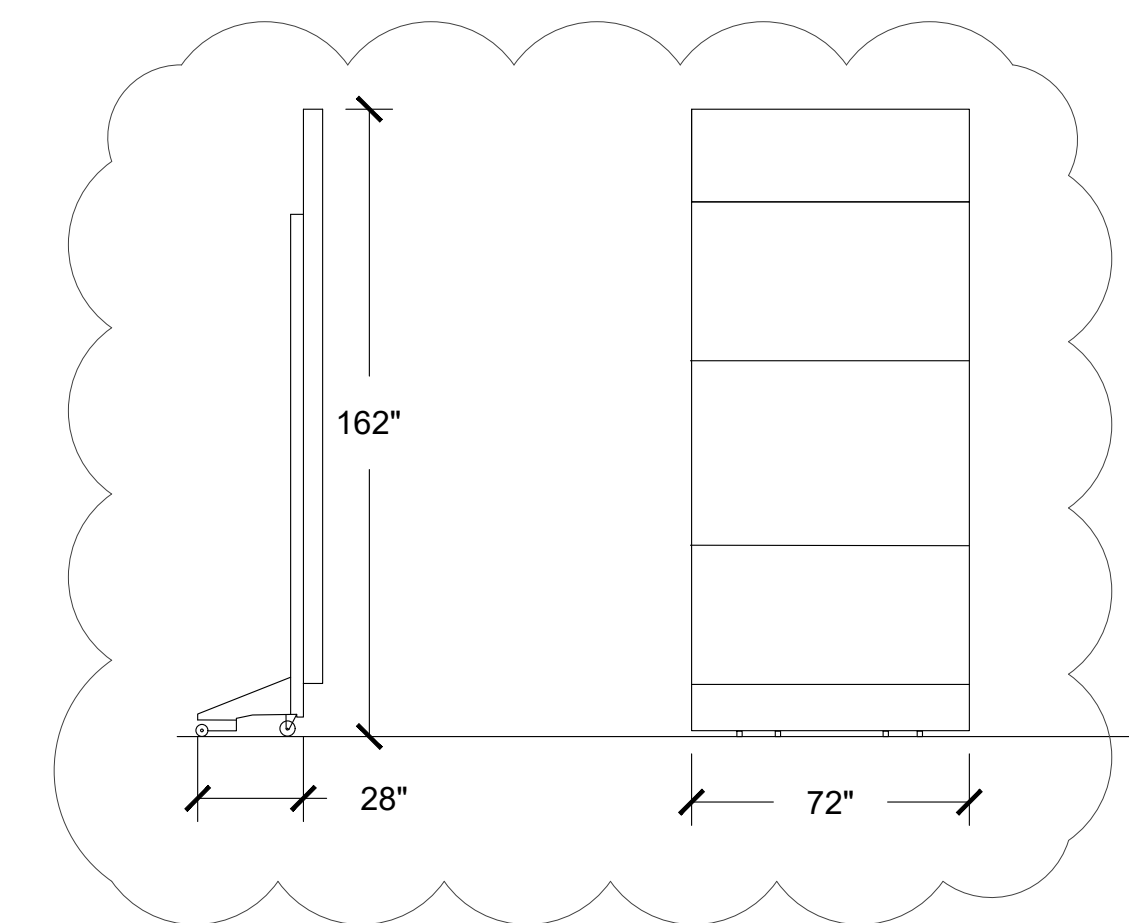
**SHEET:** **L2.04**





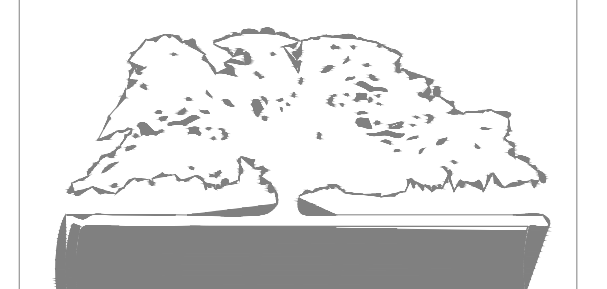
**SHEET KEY NOTES** (XX)

1. VERTICAL ACOUSTIC TOWER - SHOWN DEPLOYED.
2. VERTICAL ACOUSTIC TOWER - SHOWN STORED.
3. ACOUSTICAL SPEAKER SURFACE MOUNTED 8' AFF. SEE EPS3.1 FOR ELEVATION.
4. LOUDSPEAKER RACEWAY PATH AND SIZE T.B.D. PER FIELD CONDITIONS.



1 ORCHESTRA SHELL DIMENSIONS  
EPS-1.2 SCALE: 1/4" = 1'

**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendralaArchitects  
COGDPELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

SEAL:

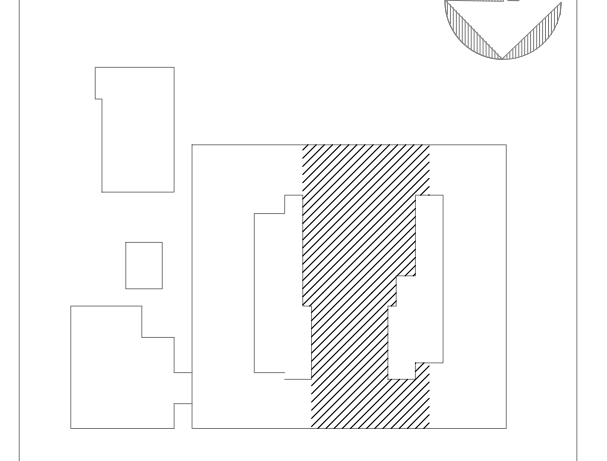
**PROJECT CONSULTANTS:**

CIVIL ENGINEER  
**MAXWELL-REDDICK &  
ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS  
ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

**KEY PLAN:**



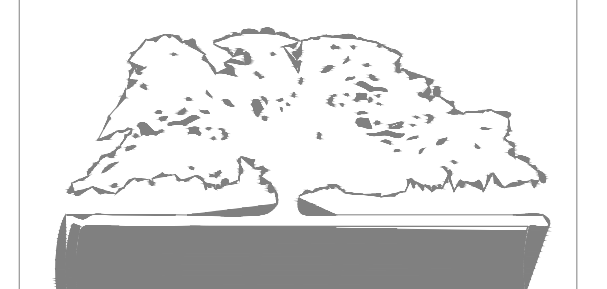
SHEET TITLE:  
**1ST FLOOR  
ACOUSTIC  
SYSTEM PLAN**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: 1/8"=1'

SHEET: **EPS-1.2**

**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

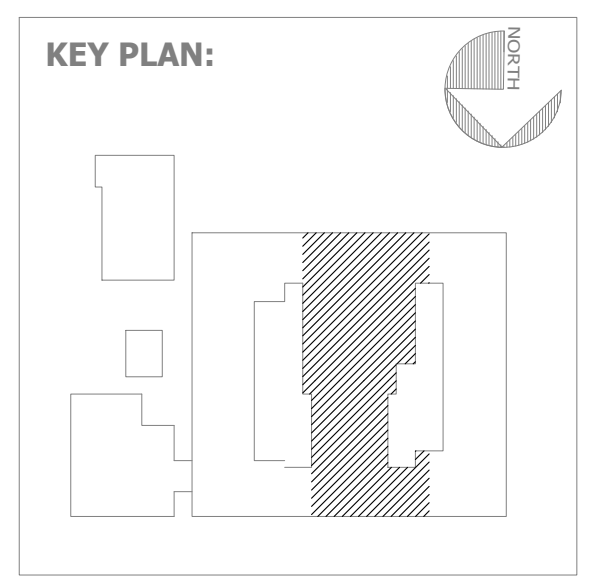
Cogdell & Mendrala Architects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

SEAL:

PROJECT CONSULTANTS:  
CIVIL ENGINEER:  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406



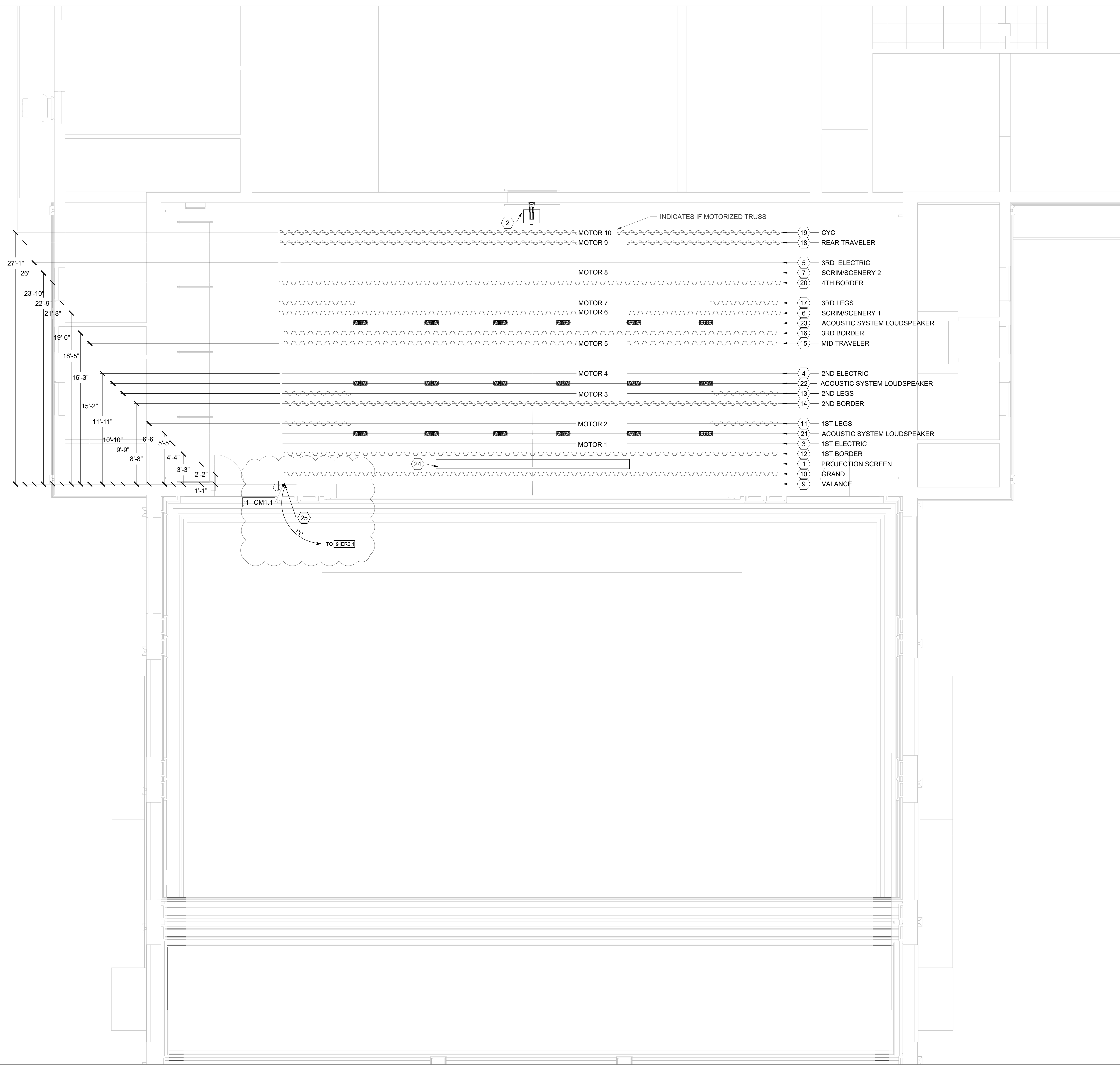
SHEET TITLE:  
**CURTAIN LAYOUT**

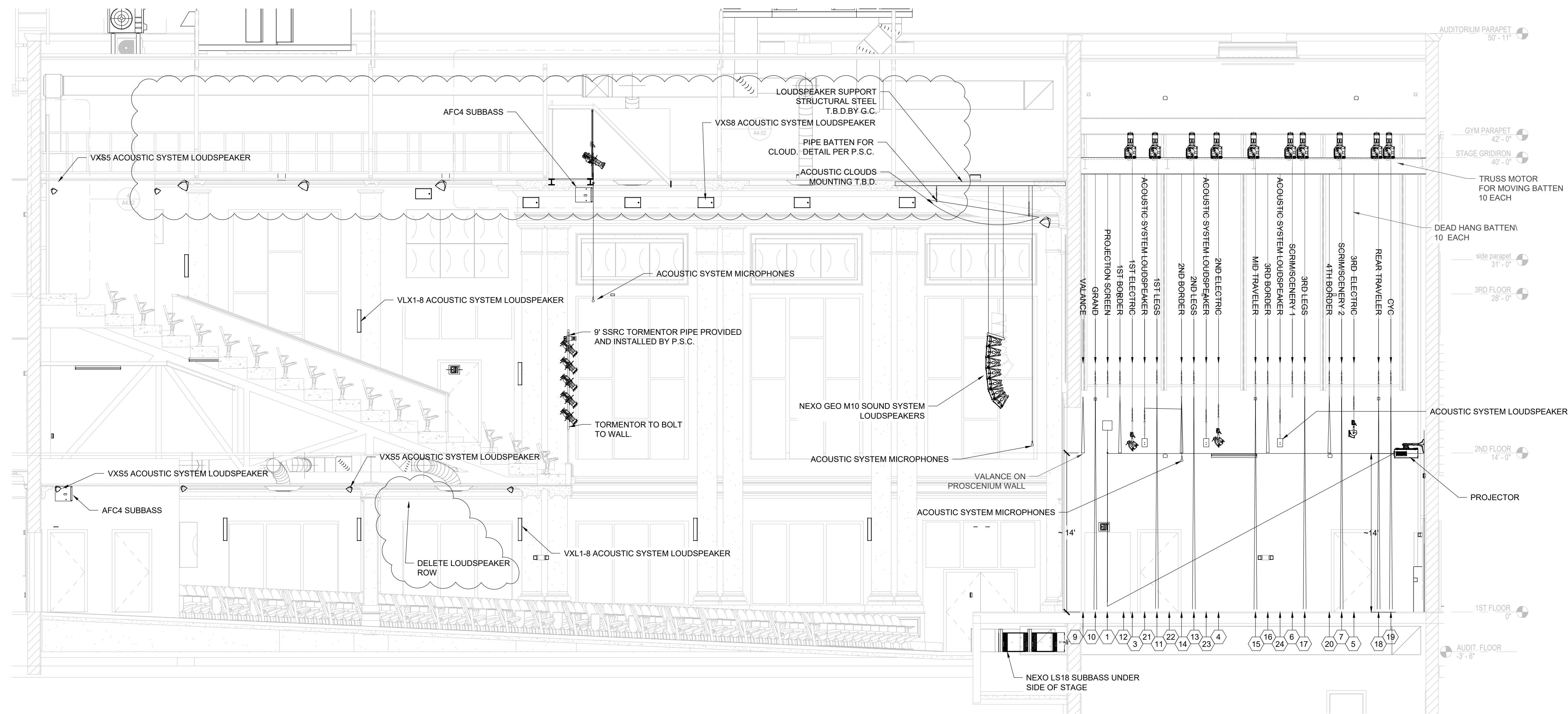
REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: 1/4"=1'

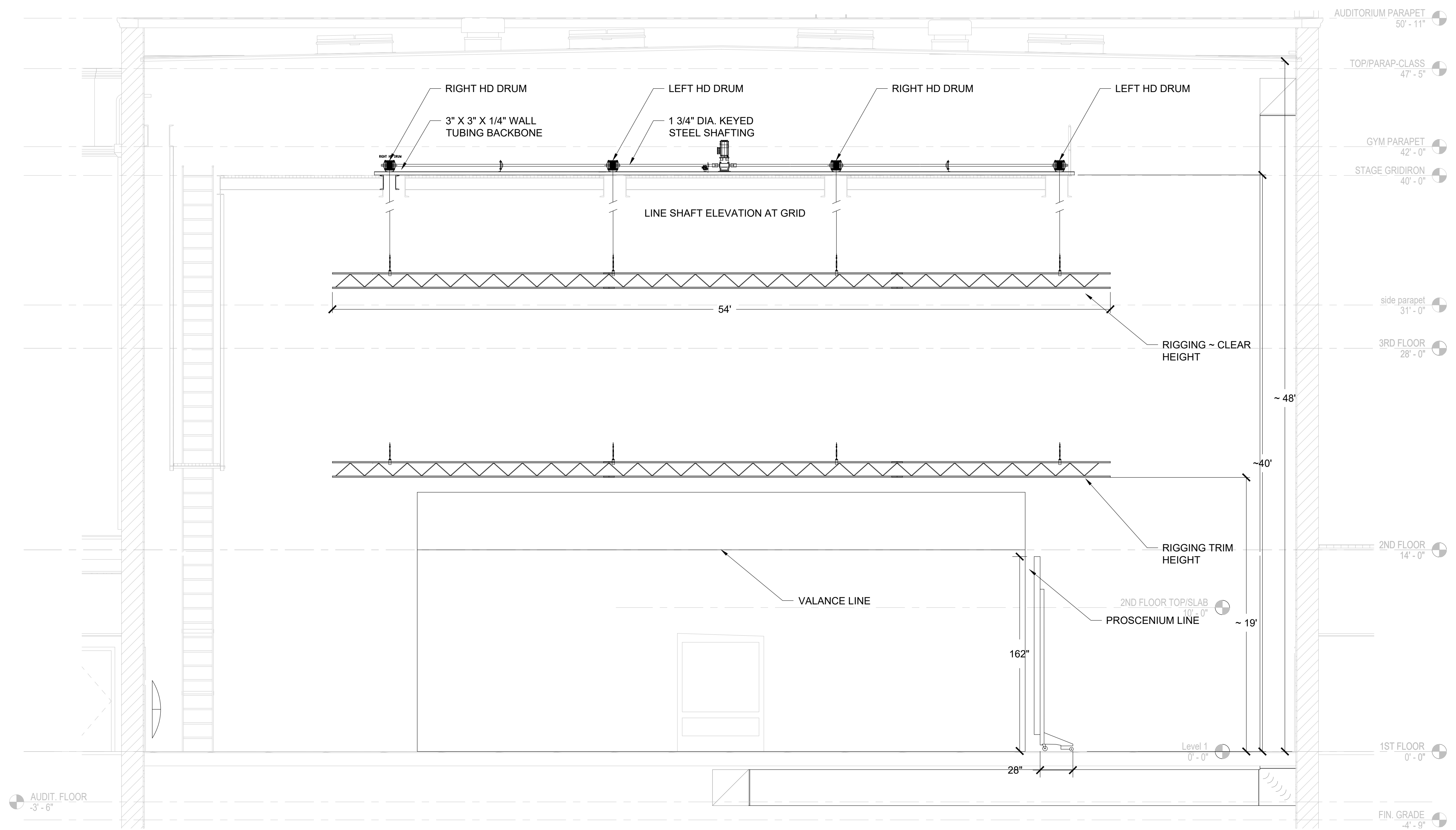
SHEET: **EPS-2.5**

- SHEET KEY NOTES** (XX)
- PROJECTION SCREEN
  - WALL MOUNTED PROJECTOR
  - 1ST LIGHTING MOTORIZED HOIST:  
MAX WORKING LOAD LIMIT OF 1000LBS.  
MAX WEIGHT OF MOVING PARTS 1000 LBS.  
MAX WEIGHT OF FIXED PARTS 500 LBS.  
DYNAMIC LOAD OF 1.2 G.
  - 2ND LIGHTING MOTORIZED HOIST:  
MAX WORKING LOAD LIMIT OF 1000LBS.  
MAX WEIGHT OF MOVING PARTS 1000 LBS.  
MAX WEIGHT OF FIXED PARTS 500 LBS.  
DYNAMIC LOAD OF 1.2 G.
  - 3RD LIGHTING ELECTRIC (DEAD-HUNG) ON I-TRUSS
  - 1ST SCENERY MOTORIZED HOIST:  
MAX WORKING LOAD LIMIT OF 1000LBS.  
MAX WEIGHT OF MOVING PARTS 1000 LBS.  
MAX WEIGHT OF FIXED PARTS 500 LBS.  
DYNAMIC LOAD OF 1.2 G.
  - 2ND SCENERY MOTORIZED HOIST:  
MAX WORKING LOAD LIMIT OF 1000LBS.  
MAX WEIGHT OF MOVING PARTS 1000 LBS.  
MAX WEIGHT OF FIXED PARTS 500 LBS.  
DYNAMIC LOAD OF 1.2 G.
  - N/A.
  - GRAND VALANCE CURTAIN - 1 PANEL  
MEASURING 50' W X 8'H-MOUNT ON PROSCENIUM WALL.
  - GRAND DRAPE CURTAINS - 2 PANELS,  
EACH MEASURING 28' W X 18'H -  
MOUNTED ON CURTAIN TRACK
  - 1ST SET OF LEG CURTAINS MOTORIZED  
HOIST - 2 PANELS, EACH MEASURING 8' W  
X 19' H - MOUNTED ON I-TRUSS
  - 1ST BORDER CURTAIN - 1 PANEL  
MEASURING 54' W X 5H - MOUNTED ON  
I-TRUSS
  - 2ND SET OF LEG CURTAINS MOTORIZED  
HOIST - 2 PANELS, EACH MEASURING 8' W  
X 19' H - MOUNTED ON I-TRUSS
  - 2ND BORDER CURTAIN - 1 PANEL  
MEASURING 54' W X 5H- MOUNTED ON  
I-TRUSS
  - MID-STAGE TRAVELER CURTAINS  
MOTORIZED HOIST- 2 PANELS, EACH  
MEASURING 28' W X 19'H - MOUNTED ON  
CURTAIN TRACK
  - 3RD BORDER CURTAIN - 1 PANEL  
MEASURING 54' W X 5H - MOUNTED ON  
I-TRUSS
  - 3RD SET OF LEG CURTAINS MOTORIZED  
HOIST - 2 PANELS, EACH MEASURING 8' W  
X 19' H - MOUNTED ON I-TRUSS
  - REAR DRAPE CURTAINS MOTORIZED  
HOIST- 2 PANELS, EACH MEASURING 28'  
W X 19'H - MOUNTED ON CURTAIN TRACK
  - CYCLORAMA CURTAIN MOTORIZED HOIST  
- 1 PANEL MEASURING 54' W X 19'H -  
MOUNTED ON I-TRUSS
  - 4TH BORDER CURTAIN - 1 PANEL  
MEASURING 54' W X 5H - MOUNTED ON  
I-TRUSS
  - 1ST ROW OF ACOUSTIC SYSTEM  
LOUDSPEAKERS ON DEAD HUNG I-TRUSS
  - 2ND ROW OF ACOUSTIC SYSTEM  
LOUDSPEAKERS ON DEAD HUNG I-TRUSS
  - 3RD ROW OF ACOUSTIC SYSTEM  
LOUDSPEAKERS ON DEAD HUNG I-TRUSS
  - PROJECTION SCREEN
  - CURTAIN MOTOR ON CURTAIN TRACK. 1  
20A AC POWER. CONTROL LINE TO ER 2.1





1 AUDITORIUM SECTION  
EPS-3.1 SCALE: 3/16" = 1'



2 STAGE SECTION VIEW - AT PROSCENIUM  
EPS-3.1 SCALE: 3/16" = 1'

**SHEET KEY NOTES** (XX)

1. PROJECTION SCREEN
2. WALL MOUNTED PROJECTOR
3. 1ST LIGHTING MOTORIZED HOIST:  
MAX WORKING LOAD LIMIT OF 1000LBS.  
MAX WEIGHT OF MOVING PARTS 1000 LBS.  
MAX WEIGHT OF FIXED PARTS 500 LBS.  
DYNAMIC LOAD OF 1.2 G.
4. 2ND LIGHTING MOTORIZED HOIST:  
MAX WORKING LOAD LIMIT OF 1000LBS.  
MAX WEIGHT OF MOVING PARTS 1000 LBS.  
MAX WEIGHT OF FIXED PARTS 500 LBS.  
DYNAMIC LOAD OF 1.2 G.
5. 3RD LIGHTING ELECTRIC (DEAD-HUNG) ON I-TRUSS
6. 1ST SCENERY MOTORIZED HOIST:  
MAX WORKING LOAD LIMIT OF 1000LBS.  
MAX WEIGHT OF MOVING PARTS 1000 LBS.  
MAX WEIGHT OF FIXED PARTS 500 LBS.  
DYNAMIC LOAD OF 1.2 G.
7. 2ND SCENERY MOTORIZED HOIST:  
MAX WORKING LOAD LIMIT OF 1000LBS.  
MAX WEIGHT OF MOVING PARTS 1000 LBS.  
MAX WEIGHT OF FIXED PARTS 500 LBS.  
DYNAMIC LOAD OF 1.2 G.
8. N/A.
9. GRAND VALANCE CURTAIN - 1 PANEL  
MEASURING 50' W X 8'H-MOUNT ON  
PROSCENIUM WALL.
10. GRAND DRAPE CURTAINS - 2 PANELS,  
EACH MEASURING 28' W X 18'H -  
MOUNTED ON CURTAIN TRACK
11. 1ST SET OF LEG CURTAINS MOTORIZED  
HOIST - 2 PANELS, EACH MEASURING 8' W  
X 19' H - MOUNTED ON I-TRUSS
12. 1ST BORDER CURTAIN - 1 PANEL  
MEASURING 54' W X 5'H - MOUNTED ON  
I-TRUSS
13. 2ND SET OF LEG CURTAINS MOTORIZED  
HOIST - 2 PANELS, EACH MEASURING 8' W  
X 19' H - MOUNTED ON I-TRUSS
14. 2ND BORDER CURTAIN - 1 PANEL  
MEASURING 54' W X 5'H - MOUNTED ON  
I-TRUSS
15. MID-STAGE TRAVELER CURTAINS  
MOTORIZED HOIST - 2 PANELS, EACH  
MEASURING 28' W X 19' H - MOUNTED ON  
CURTAIN TRACK
16. 3RD BORDER CURTAIN - 1 PANEL  
MEASURING 54' W X 5'H - MOUNTED ON  
I-TRUSS
17. 3RD SET OF LEG CURTAINS MOTORIZED  
HOIST - 2 PANELS, EACH MEASURING 8' W  
X 19' H - MOUNTED ON I-TRUSS
18. REAR DRAPE CURTAINS MOTORIZED  
HOIST - 2 PANELS, EACH MEASURING 28'  
W X 19' H - MOUNTED ON CURTAIN TRACK
19. CYCLORAMA CURTAIN MOTORIZED HOIST  
- 1 PANEL MEASURING 54' W X 19'H -  
MOUNTED ON I-TRUSS
20. 4TH BORDER CURTAIN - 1 PANEL  
MEASURING 54' W X 5'H - MOUNTED ON  
I-TRUSS
21. 1ST ROW OF ACOUSTIC SYSTEM  
LOUSPEAKERS ON DEAD HUNG I-TRUSS
22. 2ND ROW OF ACOUSTIC SYSTEM  
LOUSPEAKERS ON DEAD HUNG I-TRUSS
23. 3RD ROW OF ACOUSTIC SYSTEM  
LOUSPEAKERS ON DEAD HUNG I-TRUSS

**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS

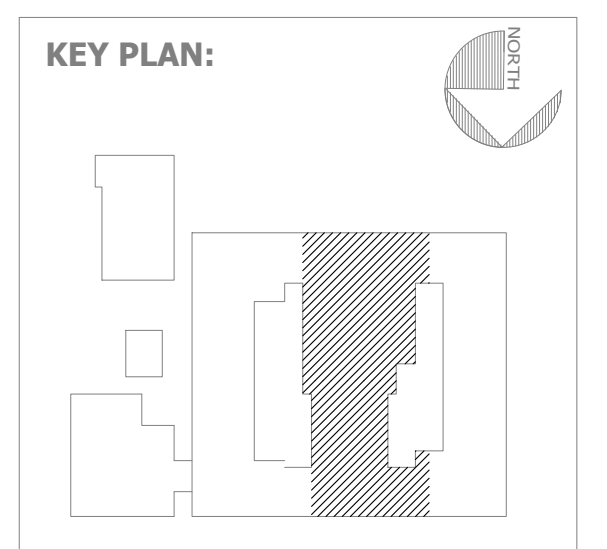
FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendozaArchitects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendoza.com

SEAL:

PROJECT CONSULTANTS:  
CIVIL ENGINEER:  
**MAXWELL-REDDICK &  
ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458  
STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
401 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS  
ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406



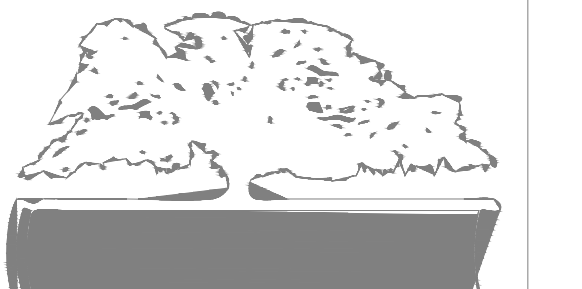
SHEET TITLE:  
**AUDITORIUM  
SECTION**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: AS NOTED

SHEET: **EPS-3.1**

**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendraloArchitects  
COGDELL & MENDRALO ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendralo.com

SEAL:

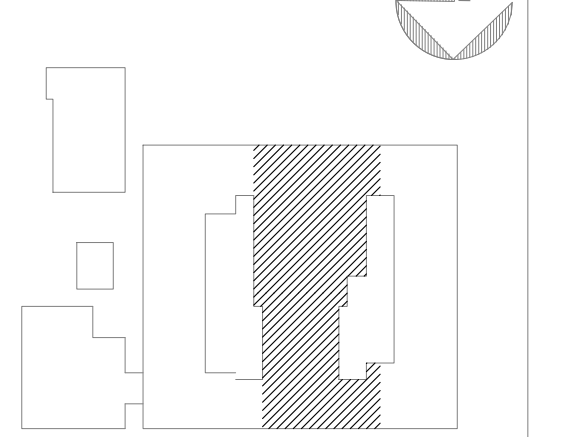
**PROJECT CONSULTANTS:**

CIVIL ENGINEER:  
**MAXWELL-REDDICK &  
ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS  
ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

**KEY PLAN:**



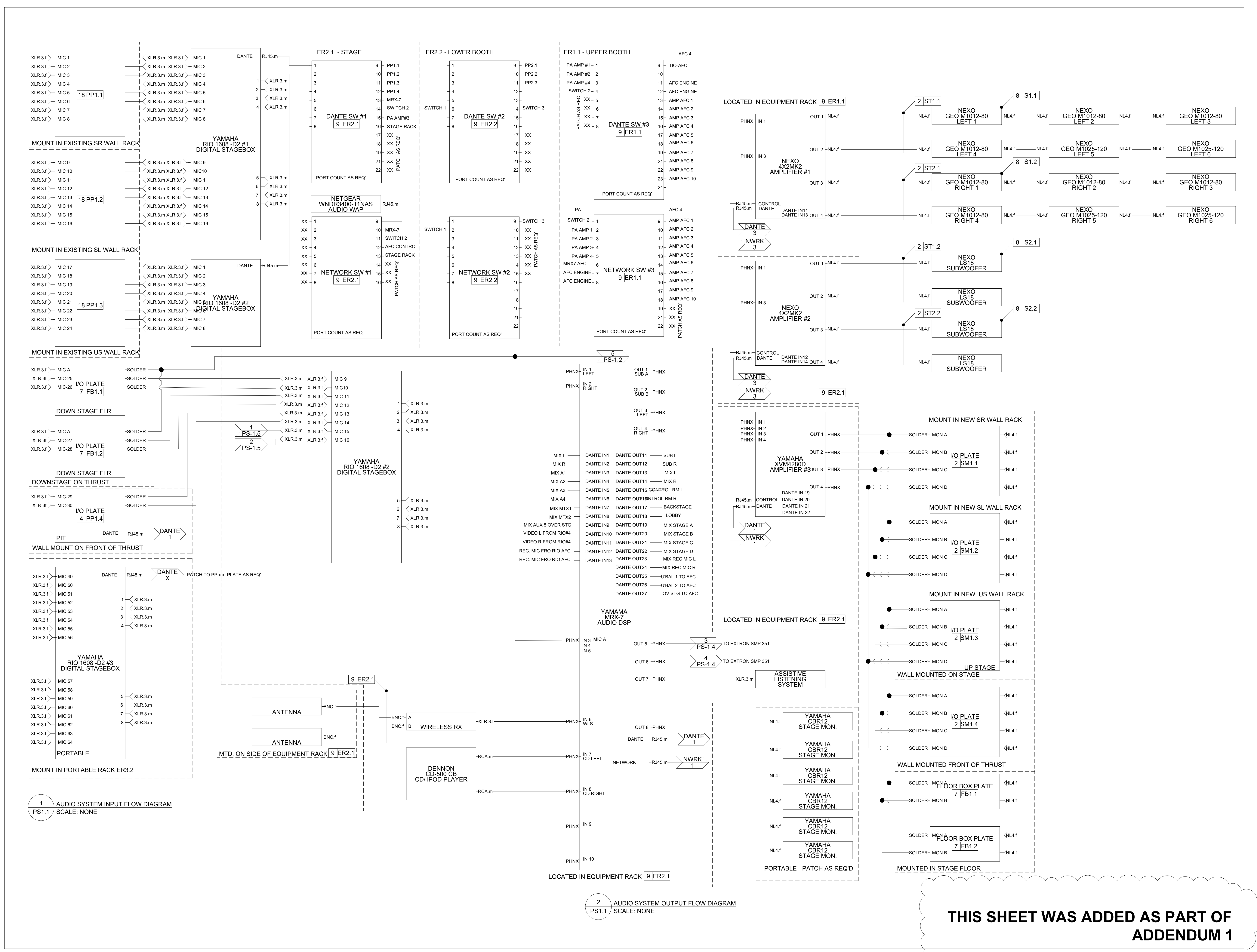
**SHEET TITLE:  
AUDIO FLOW  
DIAGRAM**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: NONE

SHEET: **PS-1.1**

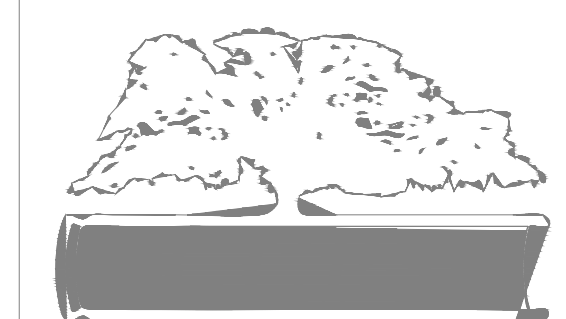
**THIS SHEET WAS ADDED AS PART OF  
ADDENDUM 1**



1 AUDIO SYSTEM INPUT FLOW DIAGRAM  
SCALE: NONE

2 AUDIO SYSTEM OUTPUT FLOW DIAGRAM  
SCALE: NONE

**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS

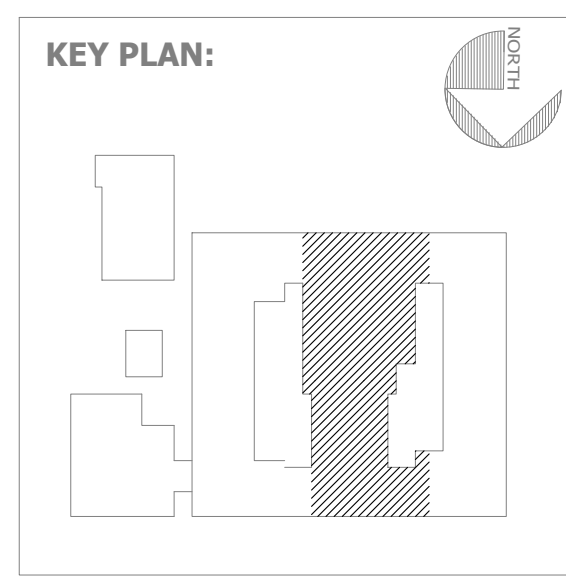


FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendraloArchitects  
COGDELL & MENDRALO ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendralo.com

SEAL:

PROJECT CONSULTANTS:  
CIVIL ENGINEER:  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458  
STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410  
MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

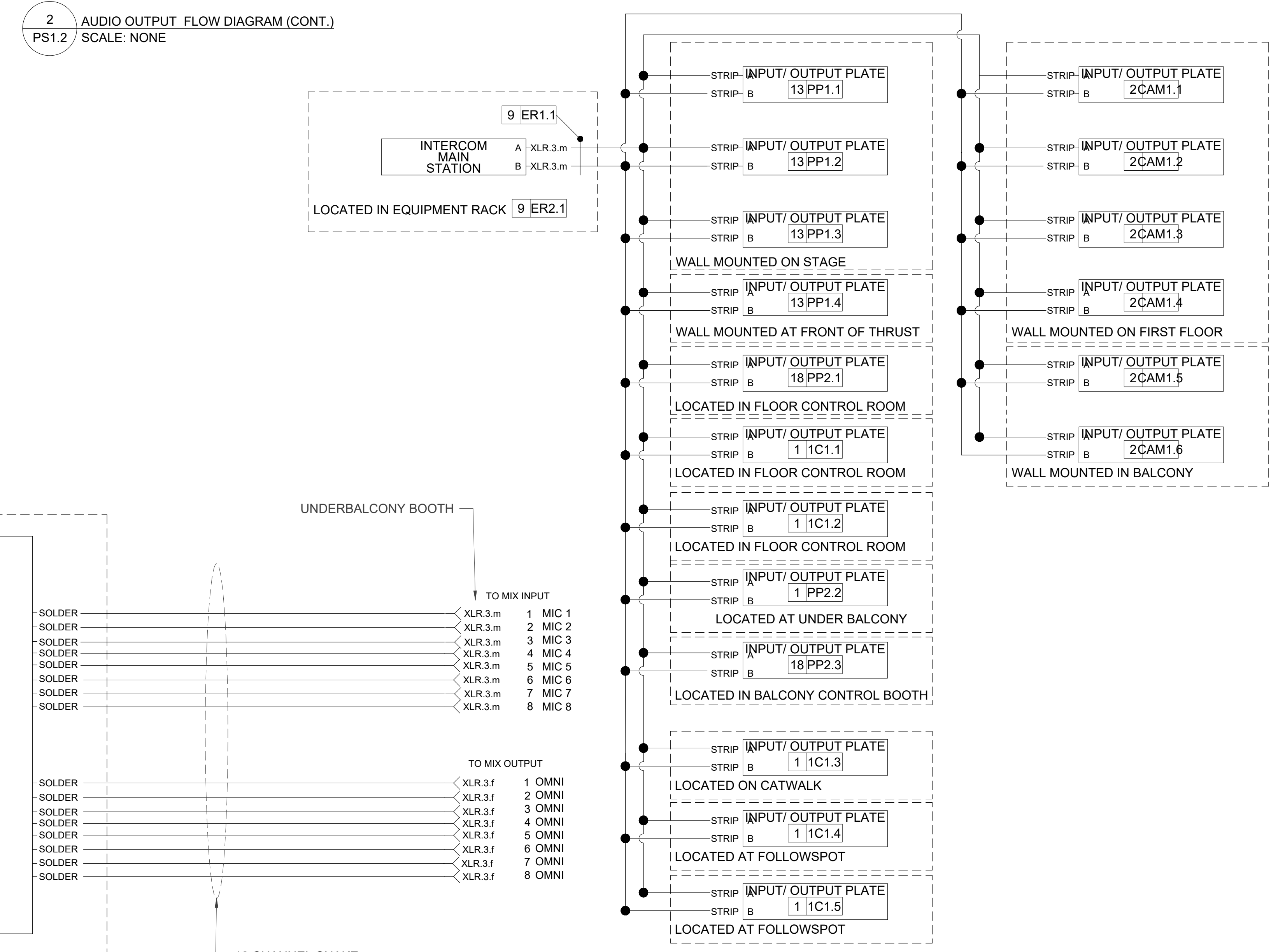
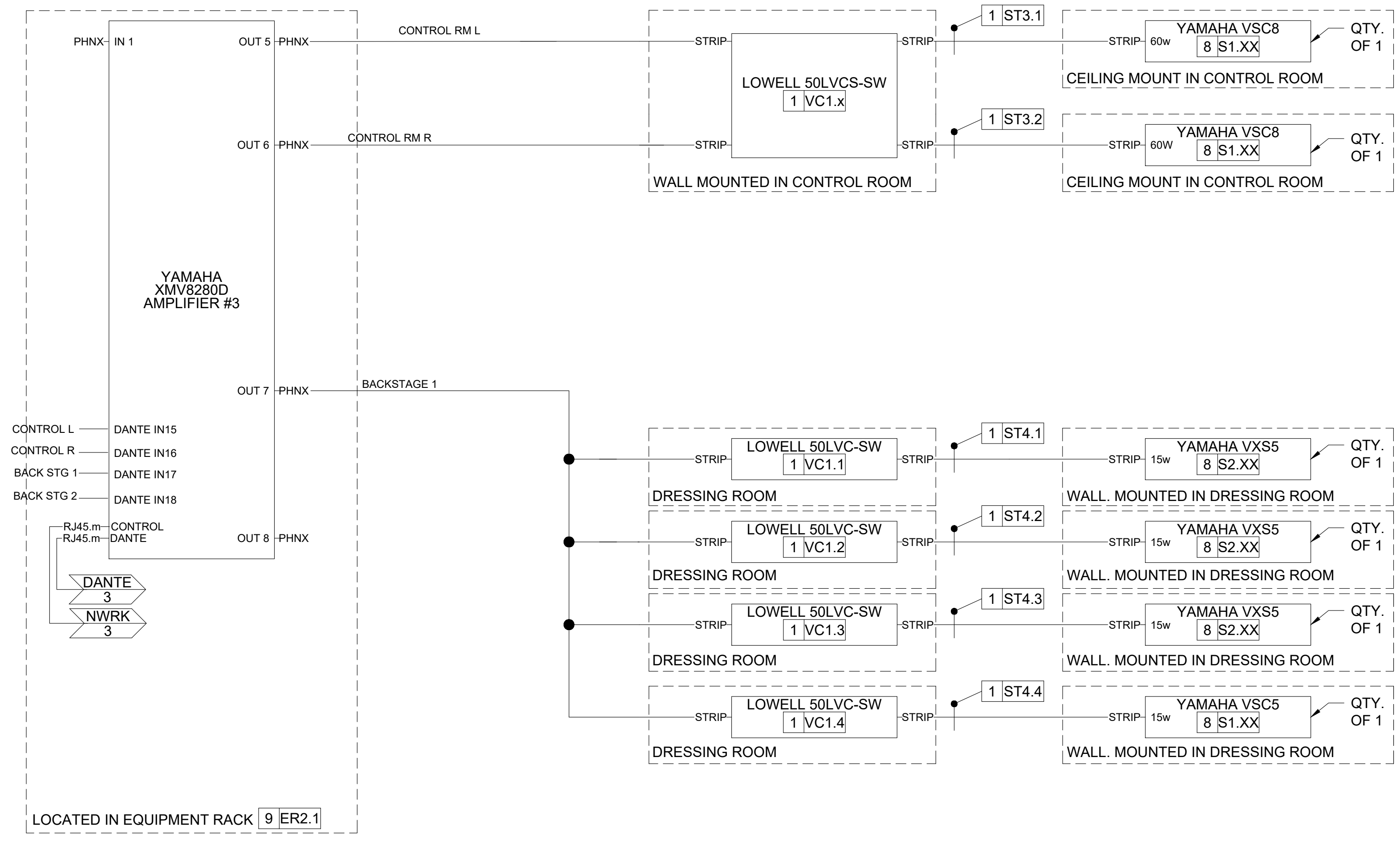
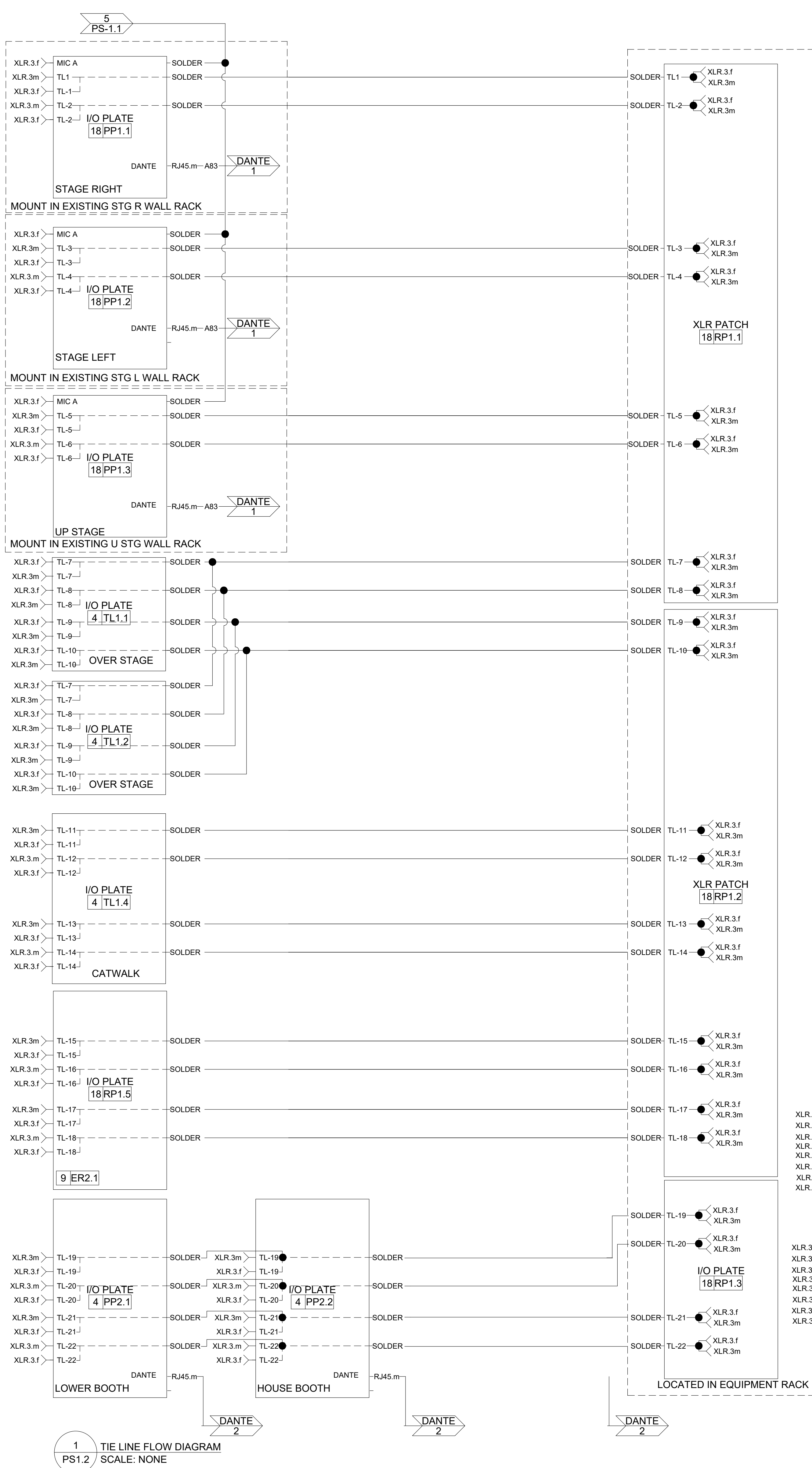


SHEET TITLE:  
**AUDIO FLOW  
DIAGRAM  
(CONT.)**

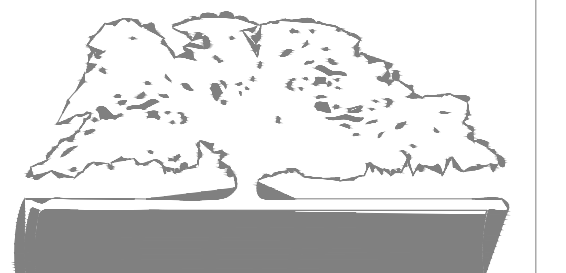
REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: NONE

SHEET: **PS-1.2**



**THIS SHEET WAS ADDED AS PART OF  
ADDENDUM 1**



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendraloArchitects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

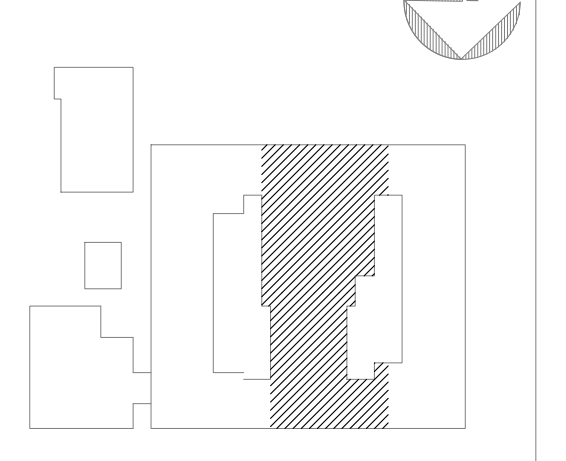
SEAL:

PROJECT CONSULTANTS:  
CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

KEY PLAN:

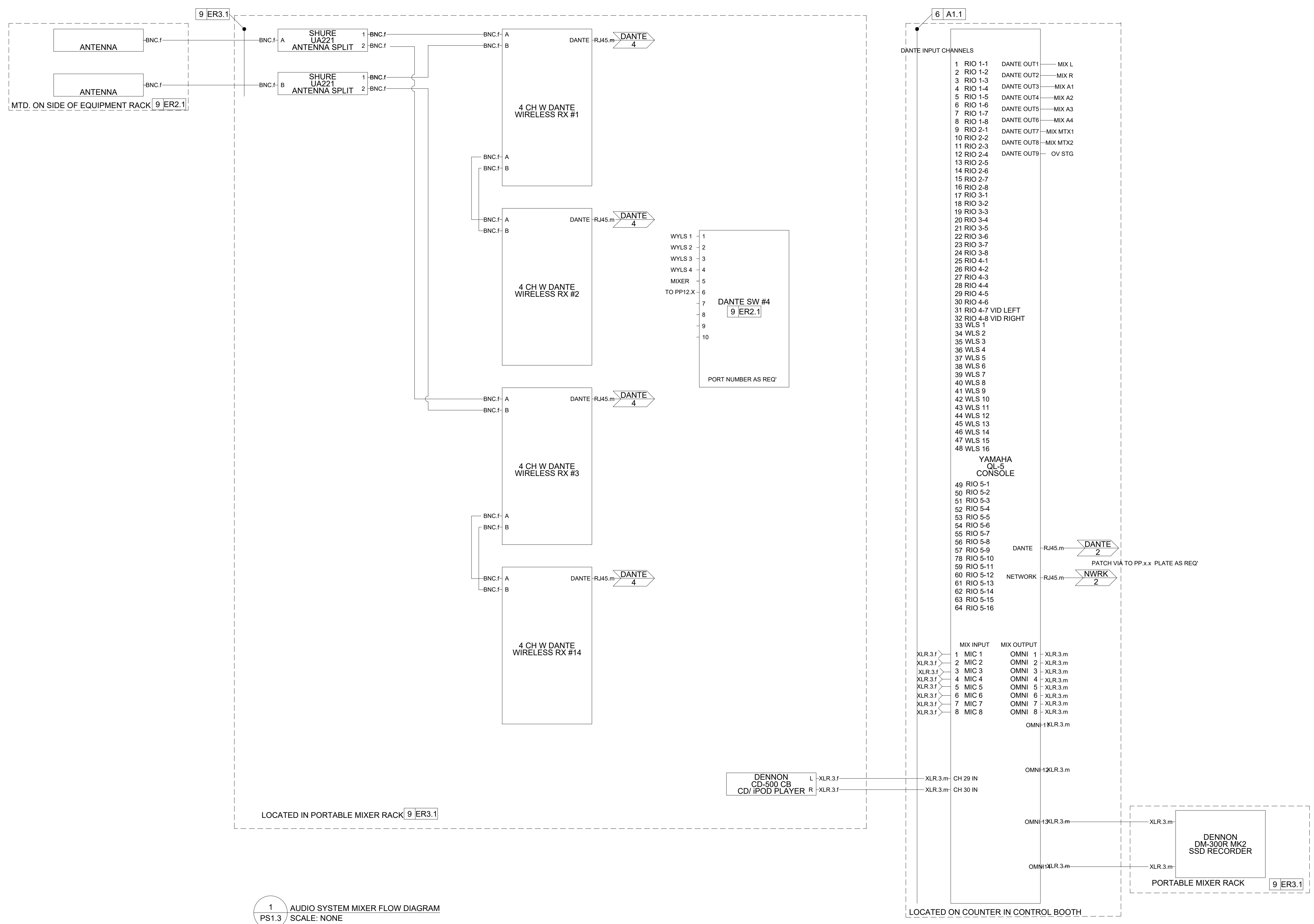


SHEET TITLE:  
**AUDIO FLOW  
DIAGRAM  
(CONT.)**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

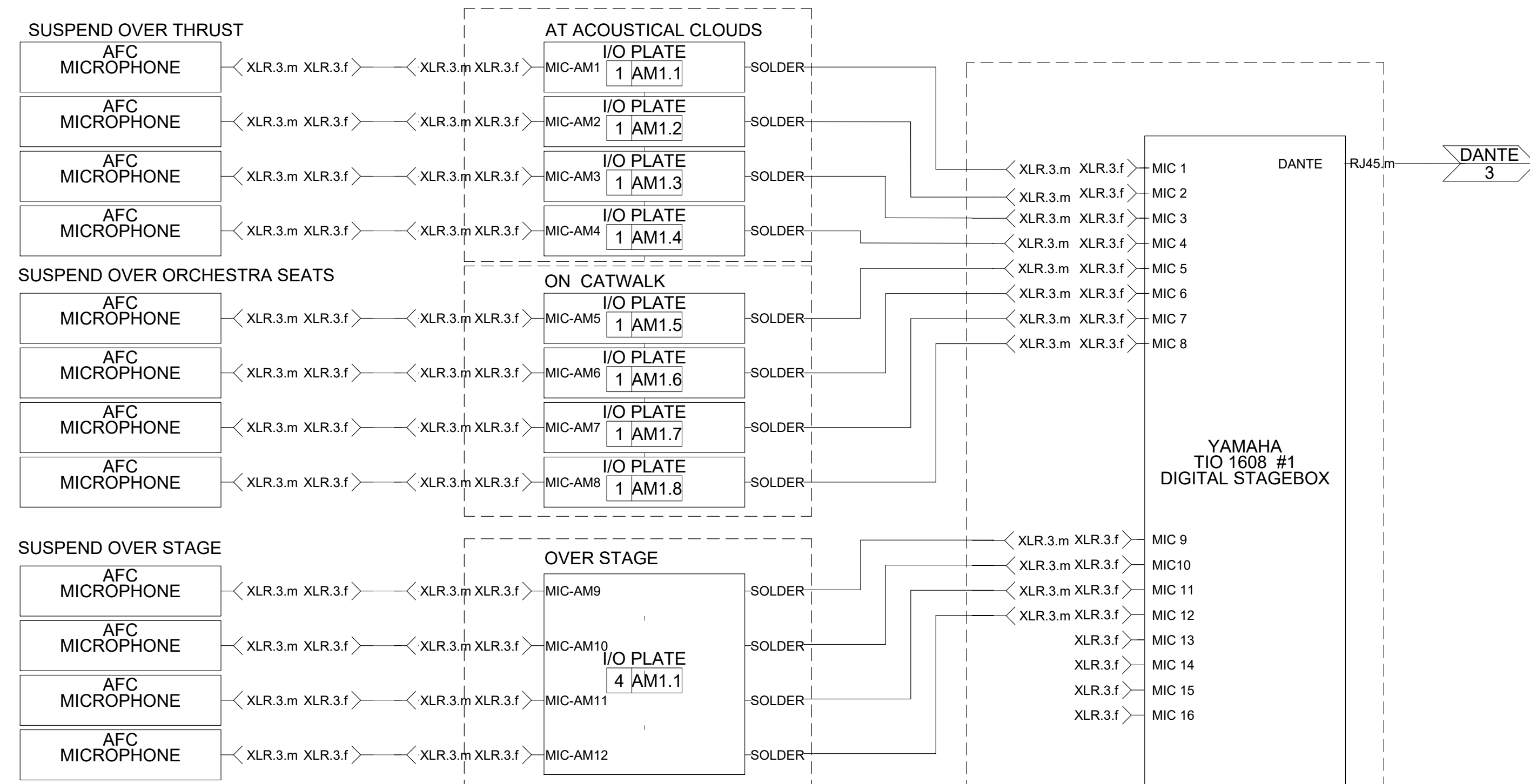
PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: NONE

SHEET: **PS-1.3**

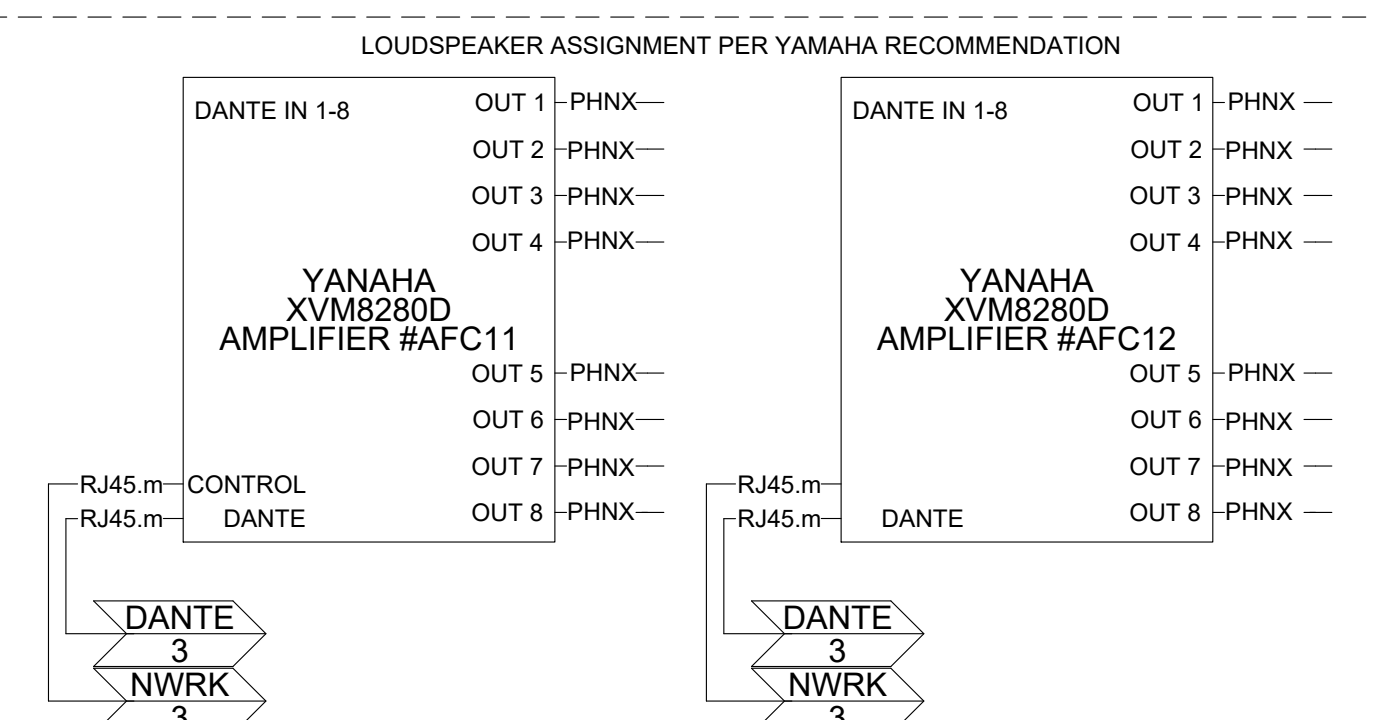


1 AUDIO SYSTEM MIXER FLOW DIAGRAM  
PS1.3 SCALE: NONE

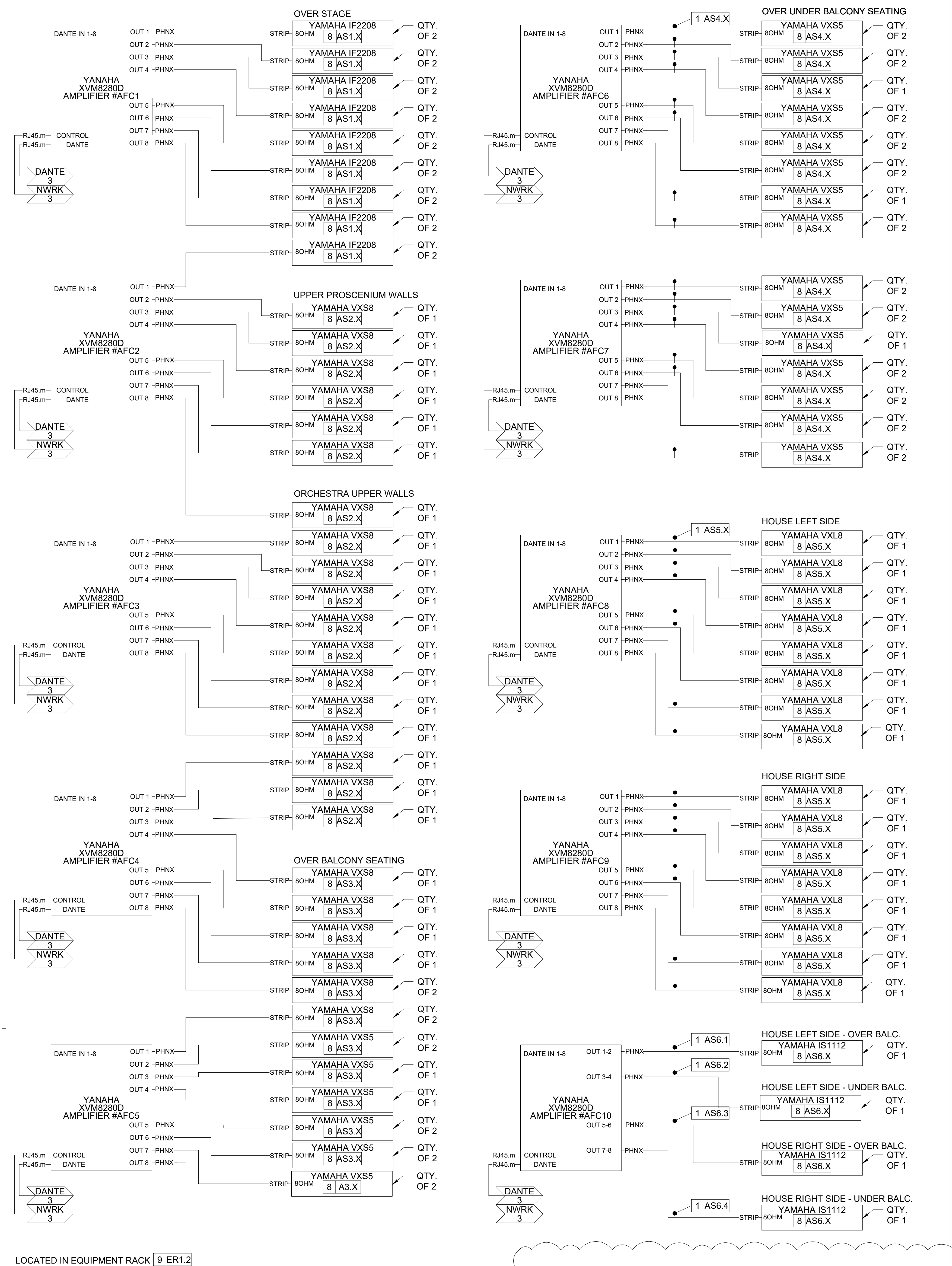
**THIS SHEET WAS ADDED AS PART OF  
ADDENDUM 1**



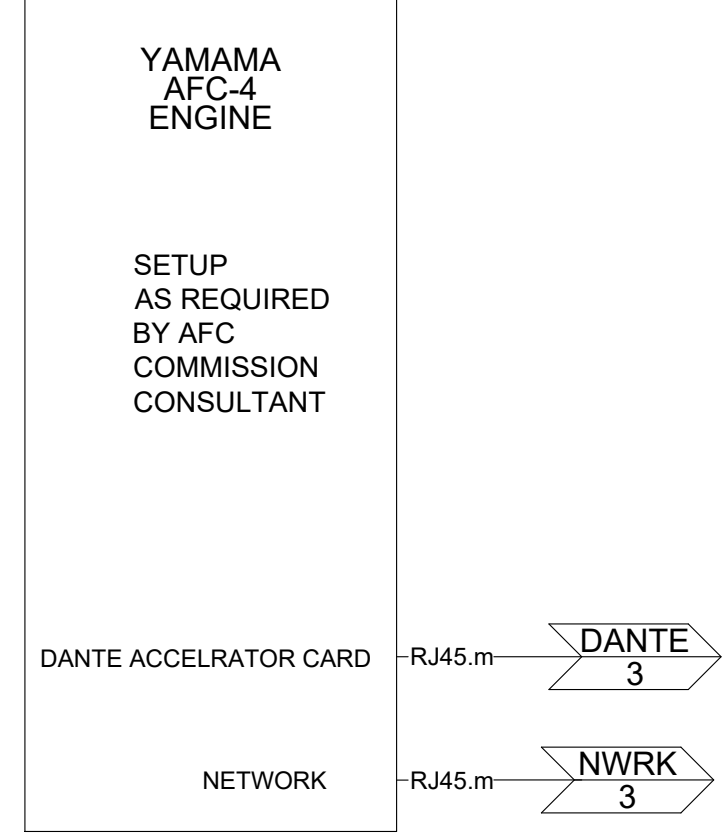
1 ACOUSTIC SYSTEM INPUT FLOW DIAGRAM  
PS1.3 SCALE: NONE



1 ACOUSTIC SYSTEM OUTPUT FLOW DIAGRAM  
PS1.3 SCALE: NONE



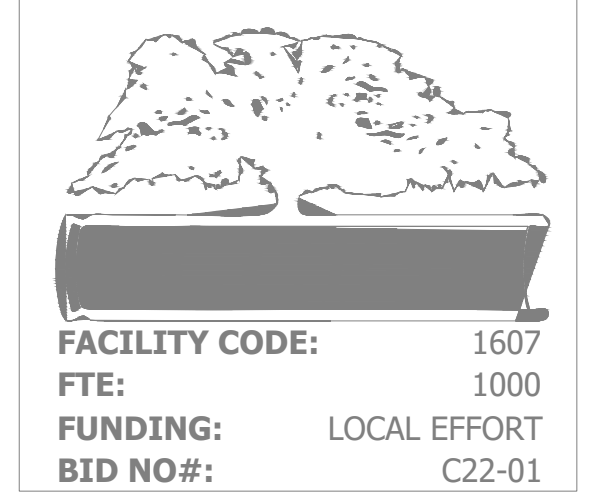
**THIS SHEET WAS ADDED AS PART OF  
ADDENDUM 1**



LOCATED IN EQUIPMENT RACK 9 ER1.1

LOCATED IN EQUIPMENT RACK 9 ER1.2

**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

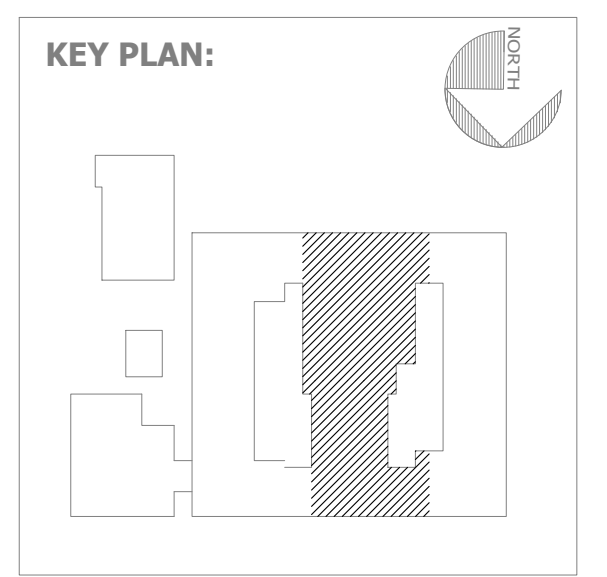
SEAL:

PROJECT CONSULTANTS:

CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406



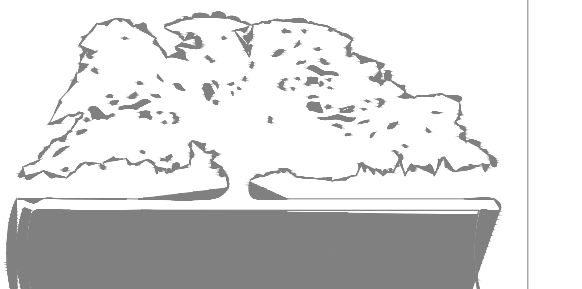
SHEET TITLE:  
**AUDIO FLOW  
DIAGRAM  
(CONT.)**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: NONE  
SHEET: **PS-1.4**



**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendralaArchitects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

SEAL:

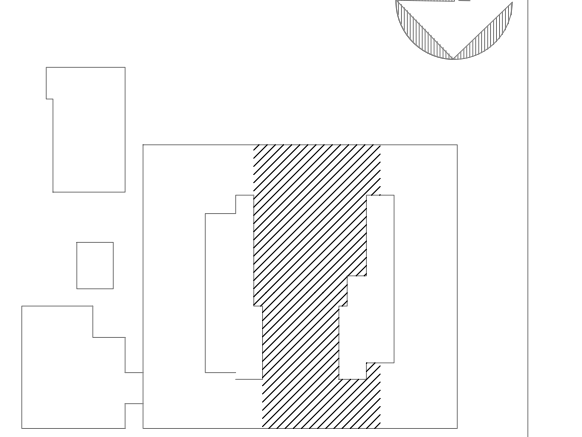
**PROJECT CONSULTANTS:**

CIVIL ENGINEER:  
**MAXWELL-REDDICK &  
ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS  
ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

**KEY PLAN:**

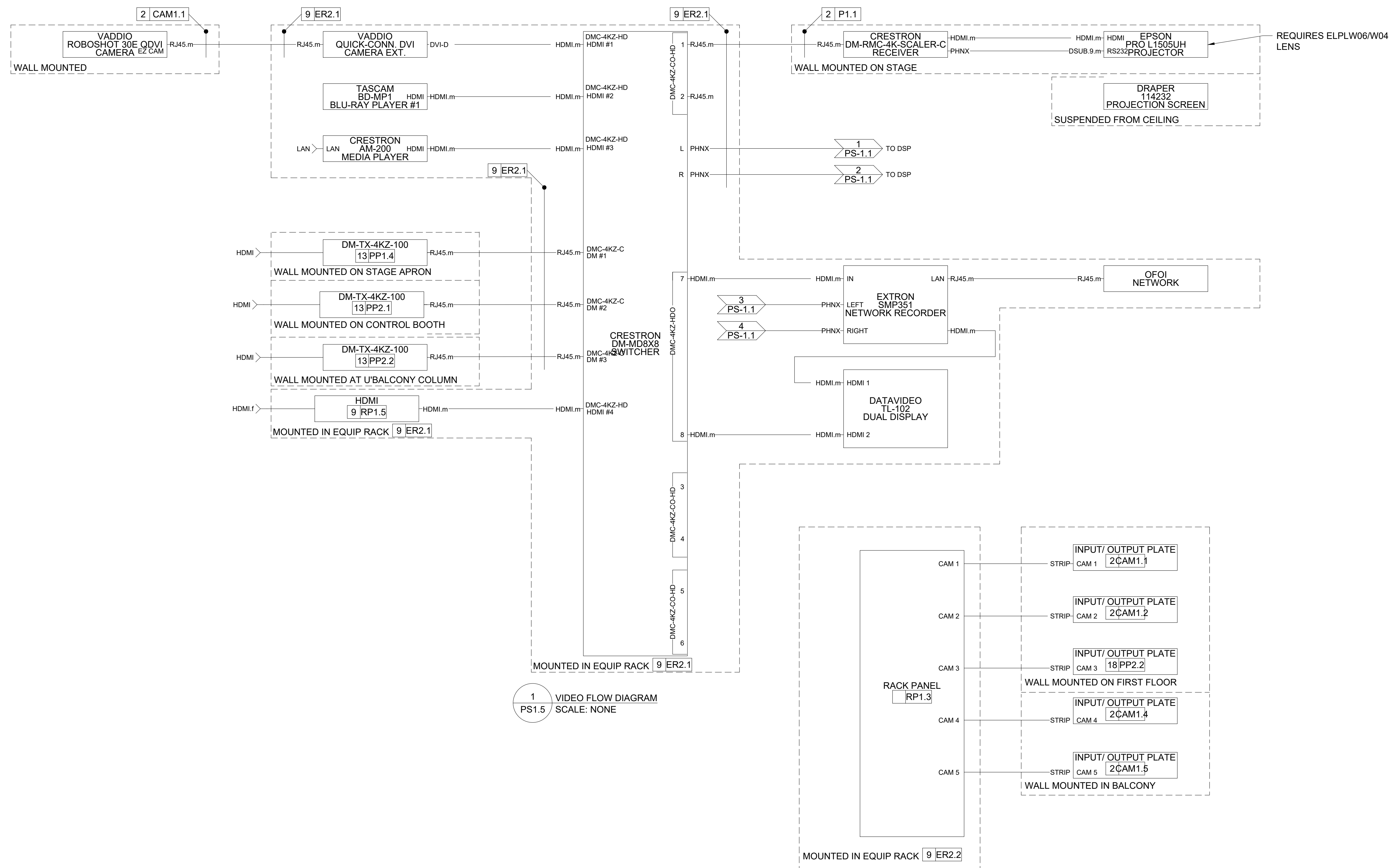


**SHEET TITLE:  
VIDEO FLOW  
DIAGRAM**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: NONE

SHEET: **PS-1.5**



1 VIDEO FLOW DIAGRAM  
SCALE: NONE

2 CAMERA TIE LINE FLOW DIAGRAM  
SCALE: NONE

**THIS SHEET WAS ADDED AS PART OF  
ADDENDUM 1**

**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendralaArchitects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

SEAL:

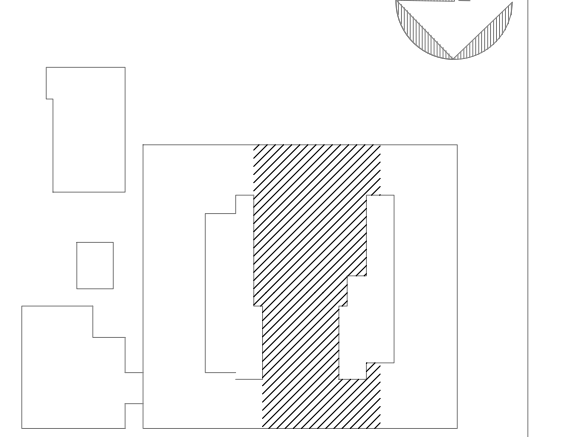
**PROJECT CONSULTANTS:**

CIVIL ENGINEER:  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

**KEY PLAN:**

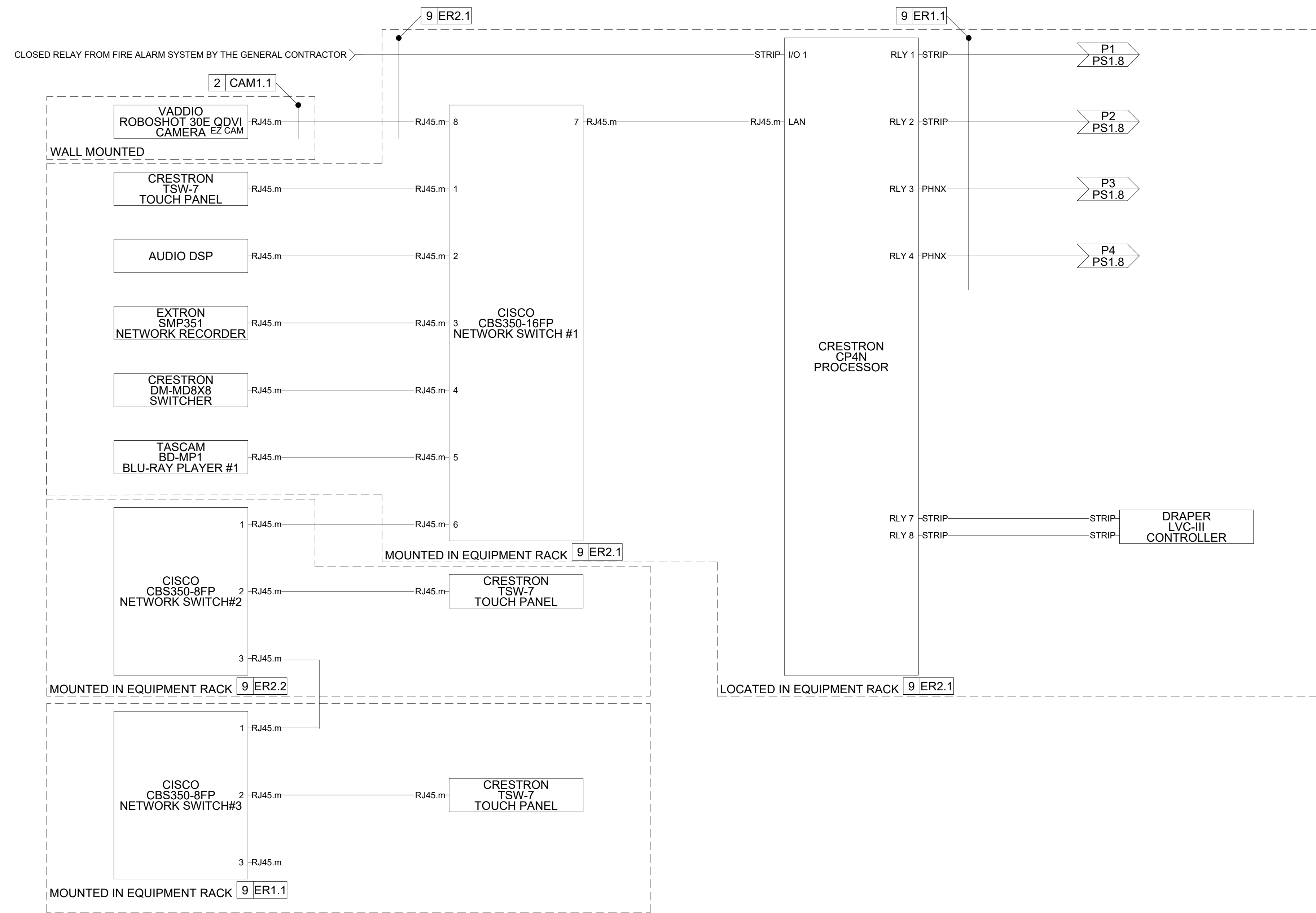


**SHEET TITLE:  
CONTROL  
FLOW DIAGRAM**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: NONE

SHEET: **PS-1.6**



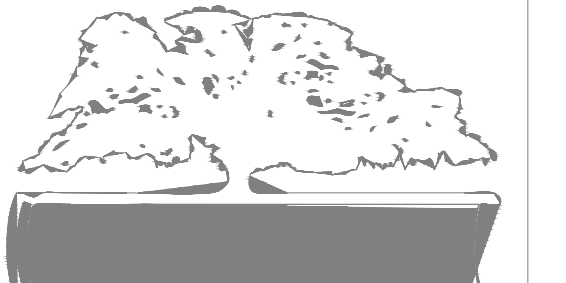
1 AV SYSTEM CONTROL  
PS-1.6 SCALE: NONE



2 RIGGING HOIST CONTROL - PLACE HOLDER ONLY, REFER TO HOIST VENDOR SUBMITTAL  
PS-1.6 SCALE: NONE

**THIS SHEET WAS ADDED AS PART OF  
ADDENDUM 1**

**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendralaArchitects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

SEAL:

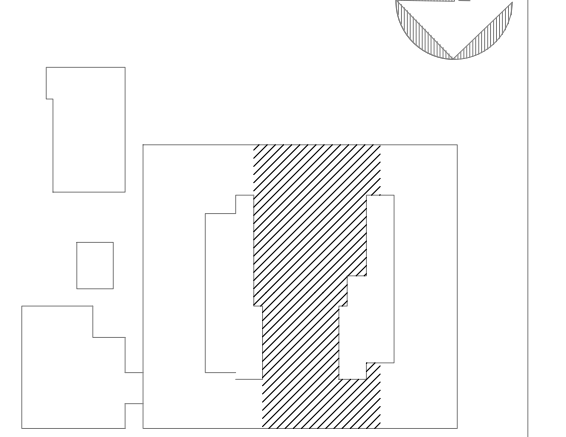
**PROJECT CONSULTANTS:**

CIVIL ENGINEER:  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

**KEY PLAN:**

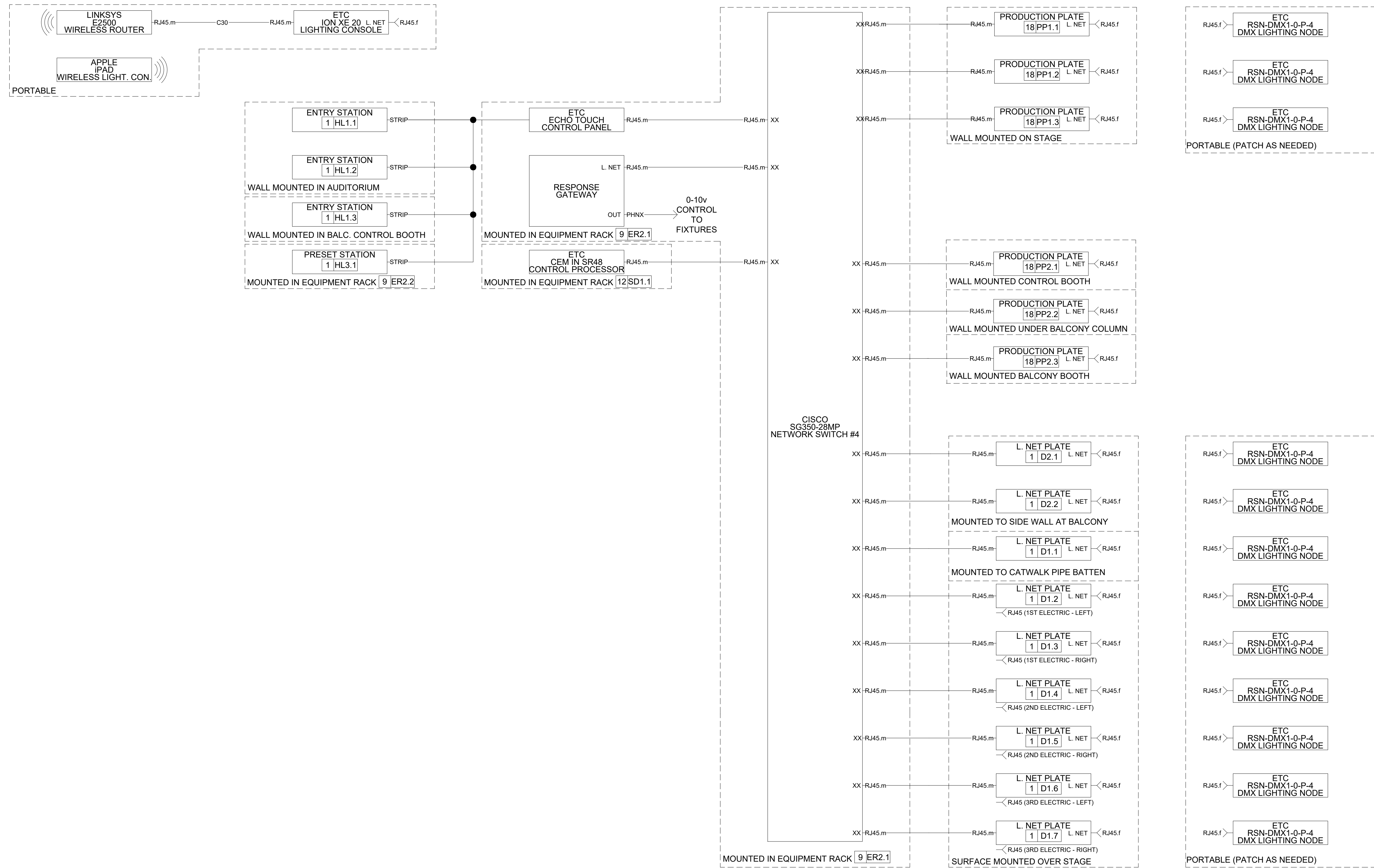


**SHEET TITLE:  
LIGHTING FLOW  
DIAGRAM**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: NONE

SHEET: **PS-1.7**



**THIS SHEET WAS ADDED AS PART OF  
ADDENDUM 1**

**VOL. 1 - SAVANNAH ARTS  
ACADEMY RENOVATION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendralaArchitects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

SEAL:

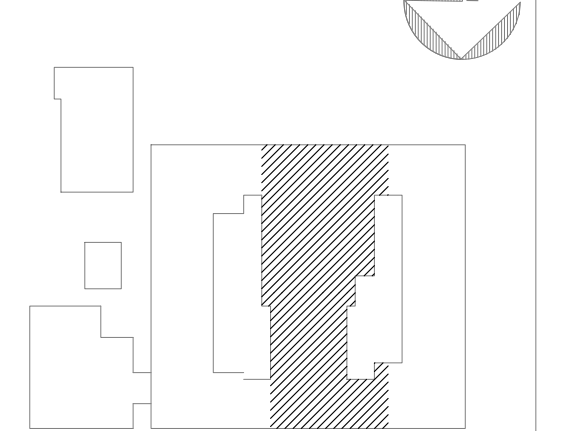
**PROJECT CONSULTANTS:**

CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

**KEY PLAN:**

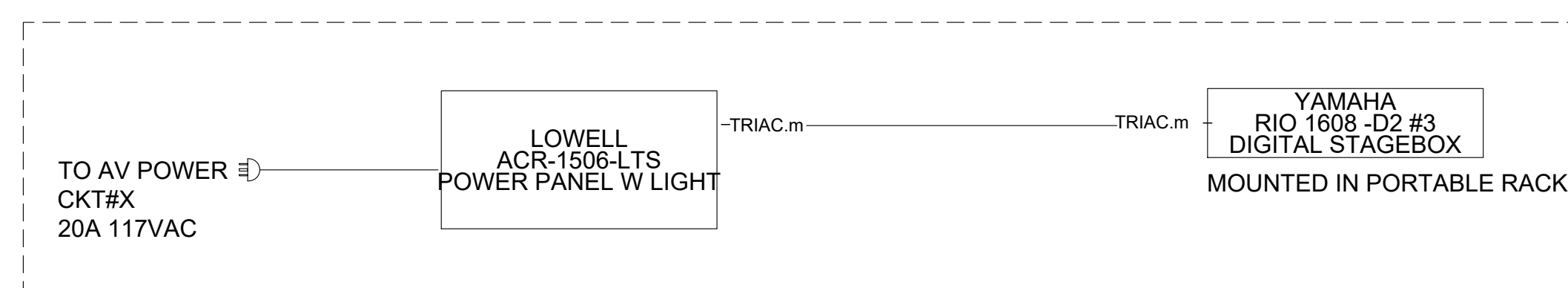
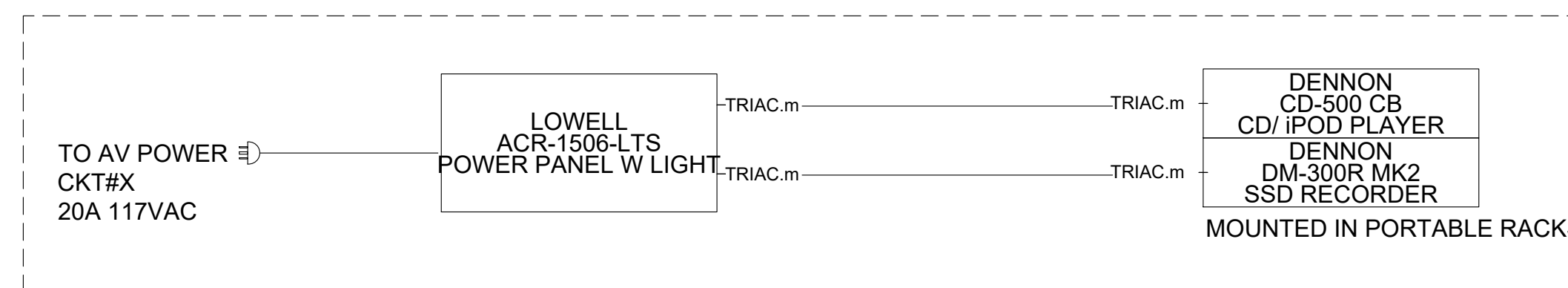
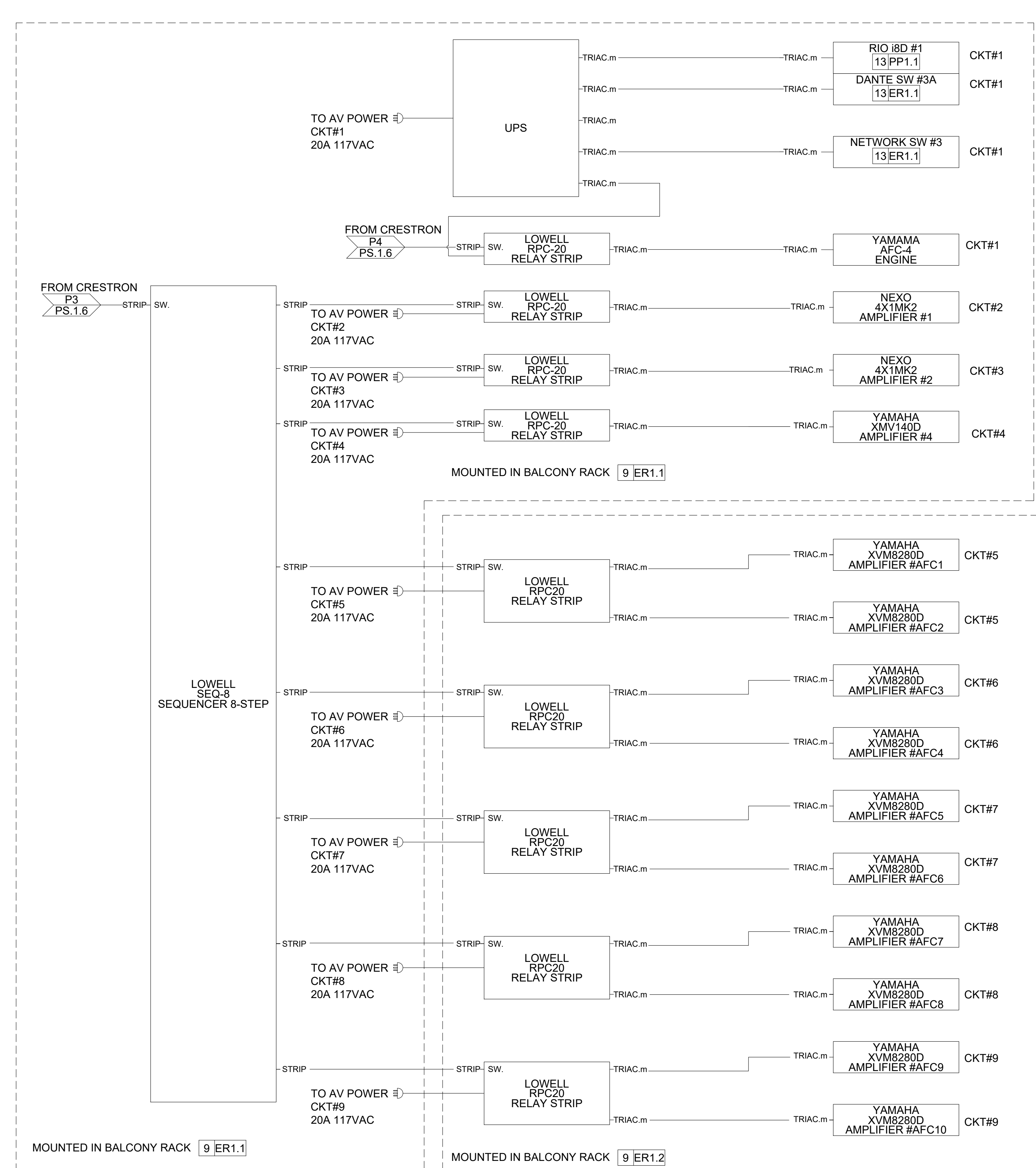
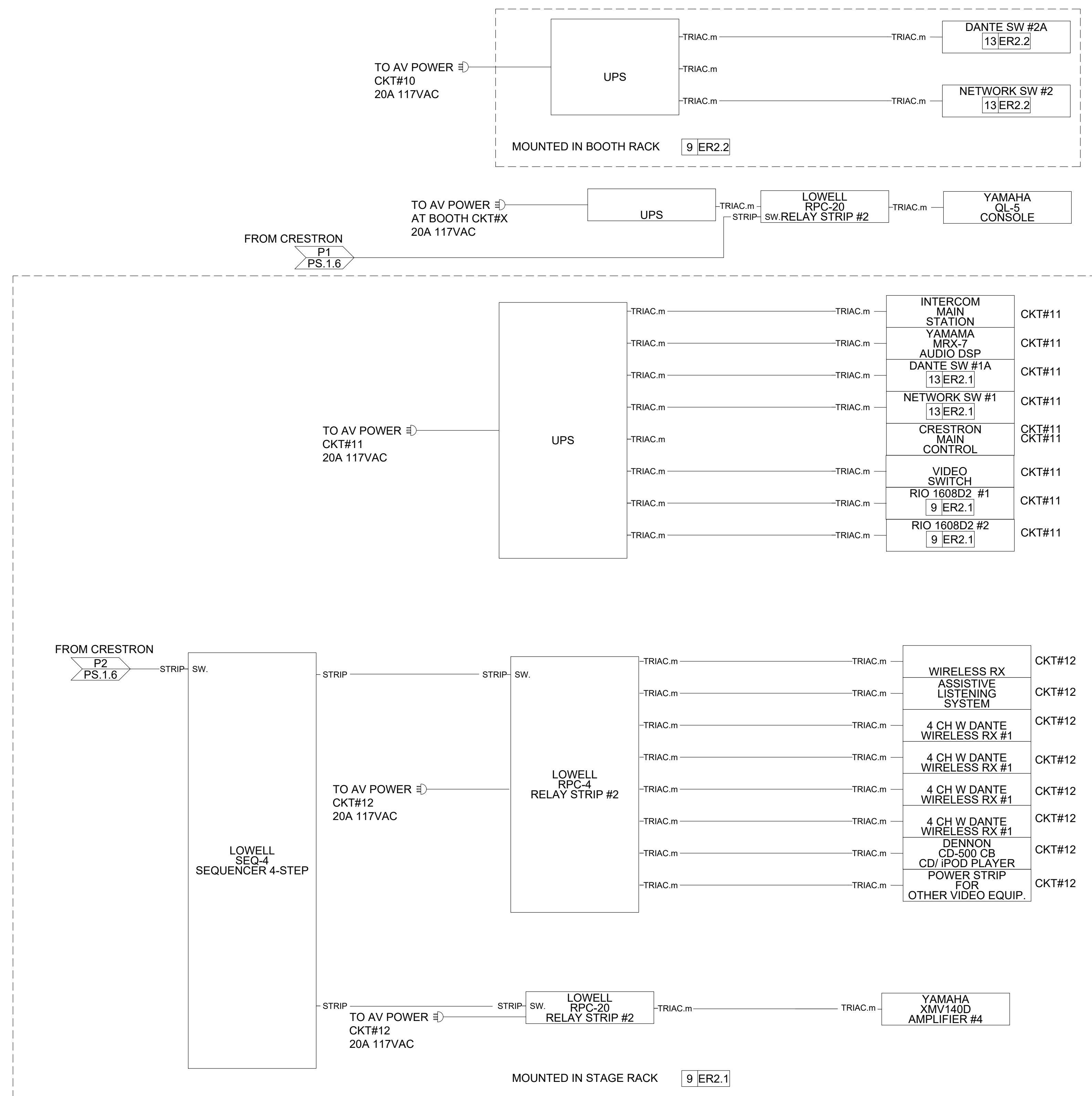


**SHEET TITLE:  
POWER FLOW  
DIAGRAM**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM 1

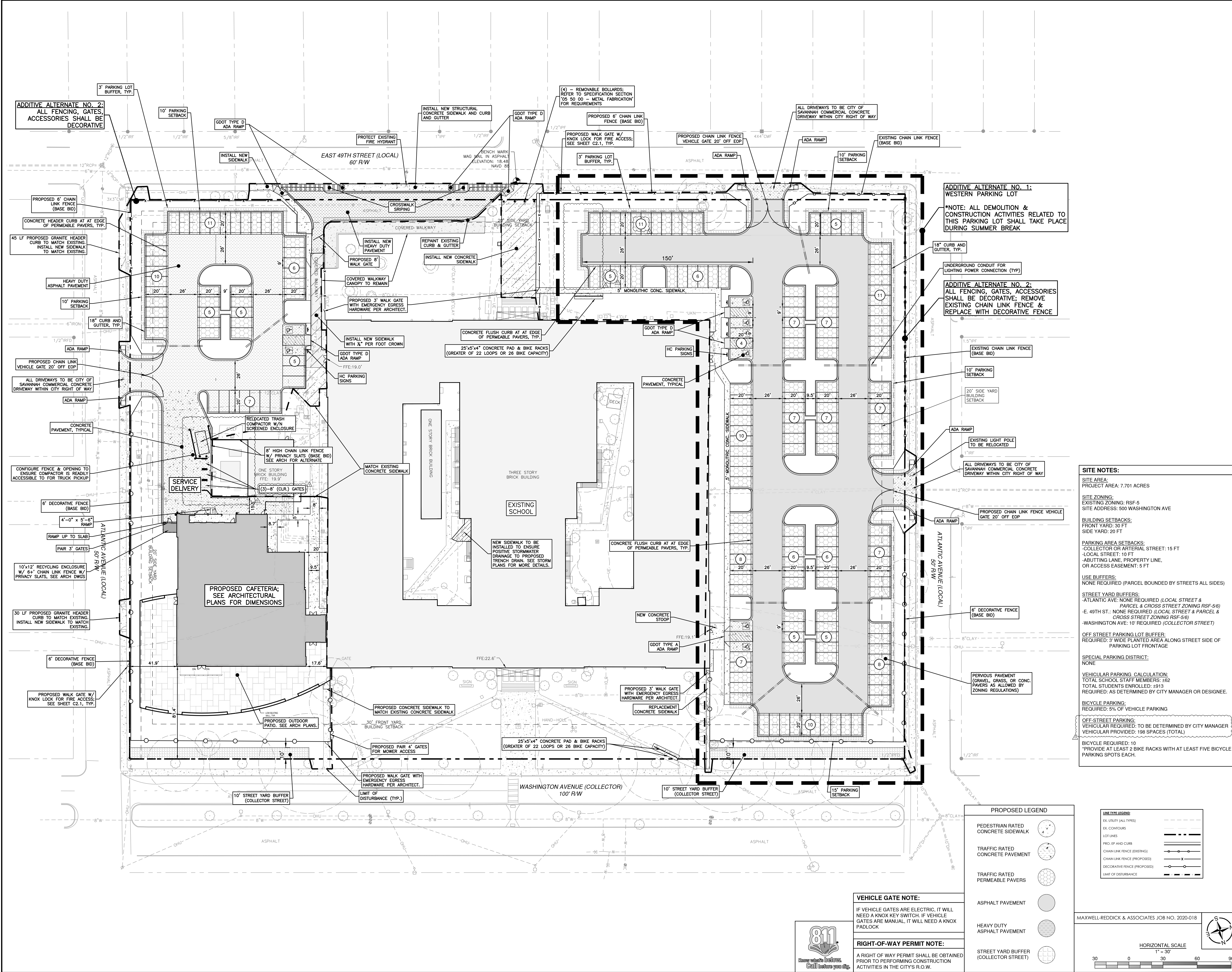
PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: AS  
SCALE: NONE

SHEET: **PS-1.8**



**THIS SHEET WAS ADDED AS PART OF  
ADDENDUM 1**

Z:\MAXWELL-REDDICK & ASSOCIATES\JOBS\2020\2020-018 COGDELL & MENDRALA - SAVANNAH ARTS ACADEMY\ENGINEERING\DESIGN\DRAWINGS\SAV-ARTS\_MAIN.DWG



**VEHICLE GATE NOTE:**  
IF VEHICLE GATES ARE ELECTRIC, IT WILL NEED A KNOX KEY SWITCH. IF VEHICLE GATES ARE MANUAL, IT WILL NEED A KNOX PADLOCK.

**RIGHT-OF-WAY PERMIT NOTE:**  
A RIGHT OF WAY PERMIT SHALL BE OBTAINED PRIOR TO PERFORMING CONSTRUCTION ACTIVITIES IN THE CITY'S R.O.W.

**PROPOSED LEGEND**

PEDESTRIAN RATED CONCRETE SIDEWALK	
TRAFFIC RATED CONCRETE PAVEMENT	
TRAFFIC RATED PERMEABLE PAVERS	
ASPHALT PAVEMENT	
HEAVY DUTY ASPHALT PAVEMENT	
STREET YARD BUFFER (COLLECTOR STREET)	

**LINE TYPE LEGEND**

EX. UTILITY (ALL TYPES)	
EX. CONTOUR	
LOT LINES	
PROF. AND CURB	
CHAIN LINK FENCE (EXISTING)	
CHAIN LINK FENCE (PROPOSED)	
DECORATIVE FENCE (PROPOSED)	
LIMIT OF DISTURBANCE	

MAXWELL-REDDICK & ASSOCIATES JOB NO. 2020-018

HORIZONTAL SCALE  
1" = 30'

**VOL. II SAVANNAH ARTS ACADEMY ADDITION**  
500 WASHINGTON AVENUE  
SAVANNAH, GA 31405  
SAVANNAH-CHATAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

CogdellMendralaArchitects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com



**PROJECT CONSULTANTS:**

**CIVIL ENGINEER**  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

**STRUCTURAL ENGINEER**  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

**MECHANICAL & ELECTRICAL ENGINEER**  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

**KEY PLAN:**

**SITE NOTES:**  
SITE AREA: 7.701 ACRES  
PROJECT AREA: 7.701 ACRES  
SITE ZONING: EXISTING ZONING: RSF-5  
SITE ADDRESS: 500 WASHINGTON AVE  
BUILDING SETBACKS:  
-FRONT YARD: 30 FT  
-SIDE YARD: 20 FT  
PARKING AREA SETBACKS:  
-COLLECTOR OR ARTERIAL STREET: 15 FT  
-LOCAL STREET: 10 FT  
-ABUTTING LANE, PROPERTY LINE, OR ACCESS EASEMENT: 5 FT  
USE BUFFERS: NONE REQUIRED (PARCEL BOUNDED BY STREETS ALL SIDES)  
STREET YARD BUFFERS:  
-ATLANTIC AVE: NONE REQUIRED (LOCAL STREET & PARCEL & CROSS STREET ZONING RSF-5/6)  
-E. 49TH ST.: NONE REQUIRED (LOCAL STREET & PARCEL & CROSS STREET ZONING RSF-5/6)  
-WASHINGTON AVE: 10' REQUIRED (COLLECTOR STREET)  
OFF STREET PARKING LOT BUFFER: REQUIRED: 3' WIDE PLANTED AREA ALONG STREET SIDE OF PARKING LOT FRONTAGE  
SPECIAL PARKING DISTRICT: NONE  
VEHICULAR PARKING CALCULATION:  
TOTAL SCHOOL STAFF MEMBERS: 152  
TOTAL STUDENTS ENROLLED: 1513  
REQUIRED: AS DETERMINED BY CITY MANAGER OR DESIGNEE.  
BICYCLE PARKING: REQUIRED: 5% OF VEHICLE PARKING  
OFF-STREET PARKING:  
VEHICULAR REQUIRED: TO BE DETERMINED BY CITY MANAGER  
VEHICULAR PROVIDED: 198 SPACES (TOTAL)  
BICYCLE PROVIDED: 10  
\*PROVIDE AT LEAST 2 BIKE RACKS WITH AT LEAST FIVE BICYCLE PARKING SPOTS EACH.

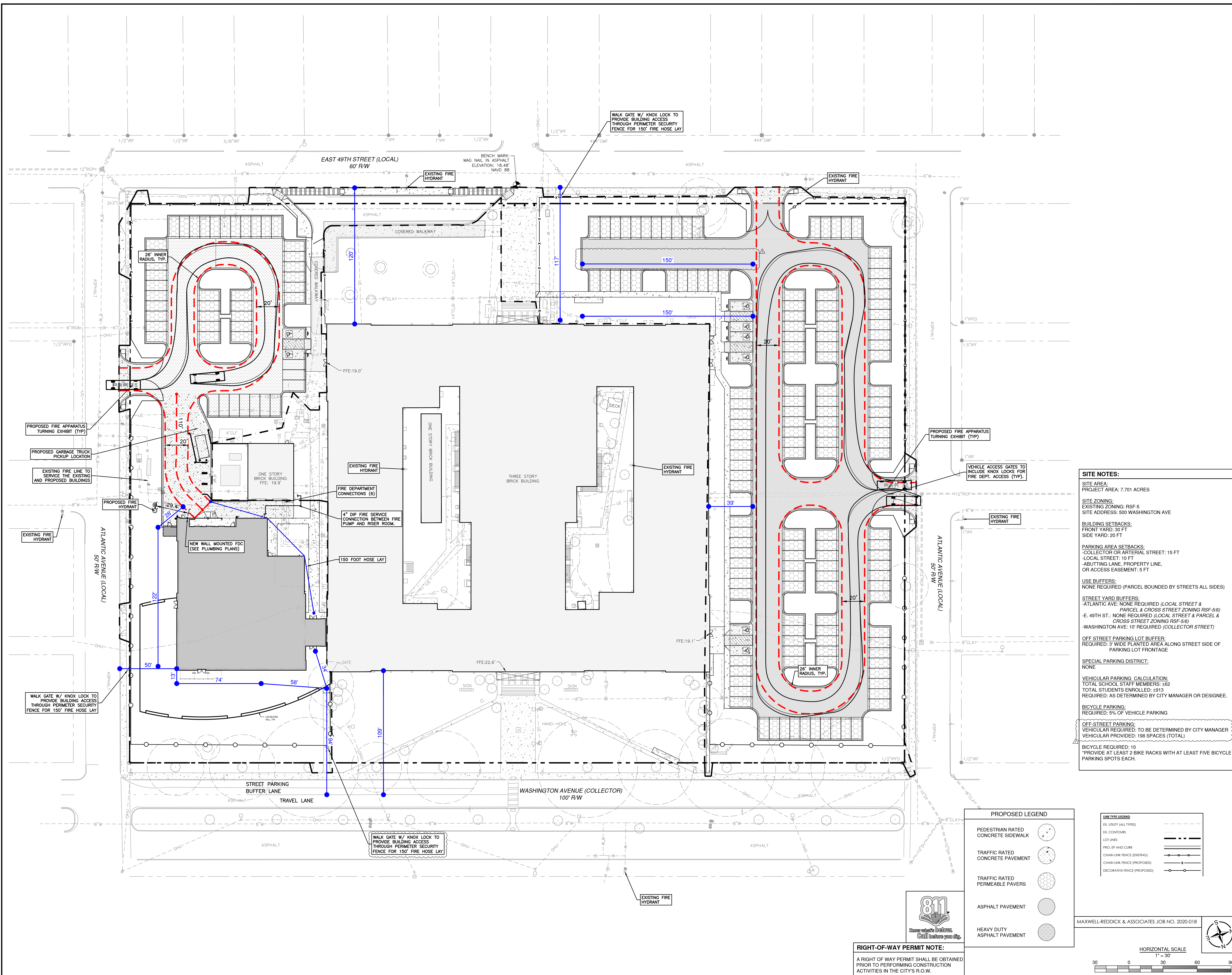
**SHEET TITLE:**  
**PROPOSED SITE LAYOUT**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/11/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** JWM  
**SCALE:** AS SHOWN  
**SHEET:** C2.0

Z:\MAXWELL-REDDICK & ASSOCIATES\JOBS\2020\2020-018 COGDELL & MENDRALA - SAVANNAH ARTS ACADEMY\ENGINEERING\DESIGN\DRAWINGS\SAV-ARTS\_MAIN.DWG

10/26/2020 10:46:38 AM



**SITE NOTES:**

**SITE AREA:**  
PROJECT AREA: 7.701 ACRES

**SITE ZONING:**  
EXISTING ZONING: RSF-5  
SITE ADDRESS: 500 WASHINGTON AVE

**BUILDING SETBACKS:**  
FRONT YARD: 30 FT  
SIDE YARD: 20 FT

**PARKING AREA SETBACKS:**  
-COLLECTOR OR ARTERIAL STREET: 15 FT  
-LOCAL STREET: 10 FT  
-ABUTTING LANE, PROPERTY LINE, OR ACCESS EASEMENT: 5 FT

**USE BUFFERS:**  
NONE REQUIRED (PARCEL BOUNDED BY STREETS ALL SIDES)

**STREET YARD BUFFERS:**  
-ATLANTIC AVE: NONE REQUIRED (LOCAL STREET & PARCEL & CROSS STREET ZONING RSF-5/6)  
-E. 49TH ST.: NONE REQUIRED (LOCAL STREET & PARCEL & CROSS STREET ZONING RSF-4/5)  
-WASHINGTON AVE: 10' REQUIRED (COLLECTOR STREET)

**OFF STREET PARKING LOT BUFFER:**  
REQUIRED: 3' WIDE PLANTED AREA ALONG STREET SIDE OF PARKING LOT FRONTAGE

**SPECIAL PARKING DISTRICT:**  
NONE

**VEHICULAR PARKING CALCULATION:**  
TOTAL SCHOOL STAFF MEMBERS: 152  
TOTAL STUDENTS ENROLLED: 4913  
REQUIRED: AS DETERMINED BY CITY MANAGER OR DESIGNEE.

**BICYCLE PARKING:**  
REQUIRED: 5% OF VEHICLE PARKING

**OFF-STREET PARKING:**  
VEHICULAR REQUIRED: TO BE DETERMINED BY CITY MANAGER  
VEHICULAR PROVIDED: 198 SPACES (TOTAL)

**BICYCLE REQUIRED: 10**  
PROVIDE AT LEAST 2 BIKE RACKS WITH AT LEAST FIVE BICYCLE PARKING SPOTS EACH.

**VOL. II SAVANNAH ARTS ACADEMY ADDITION**  
500 WASHINGTON AVENUE  
SAVANNAH, GA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM



**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

**CogdellMendralaArchitects**  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com



**PROJECT CONSULTANTS:**

**CIVIL ENGINEER**  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

**STRUCTURAL ENGINEER**  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

**MECHANICAL & ELECTRICAL ENGINEER:**  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31410

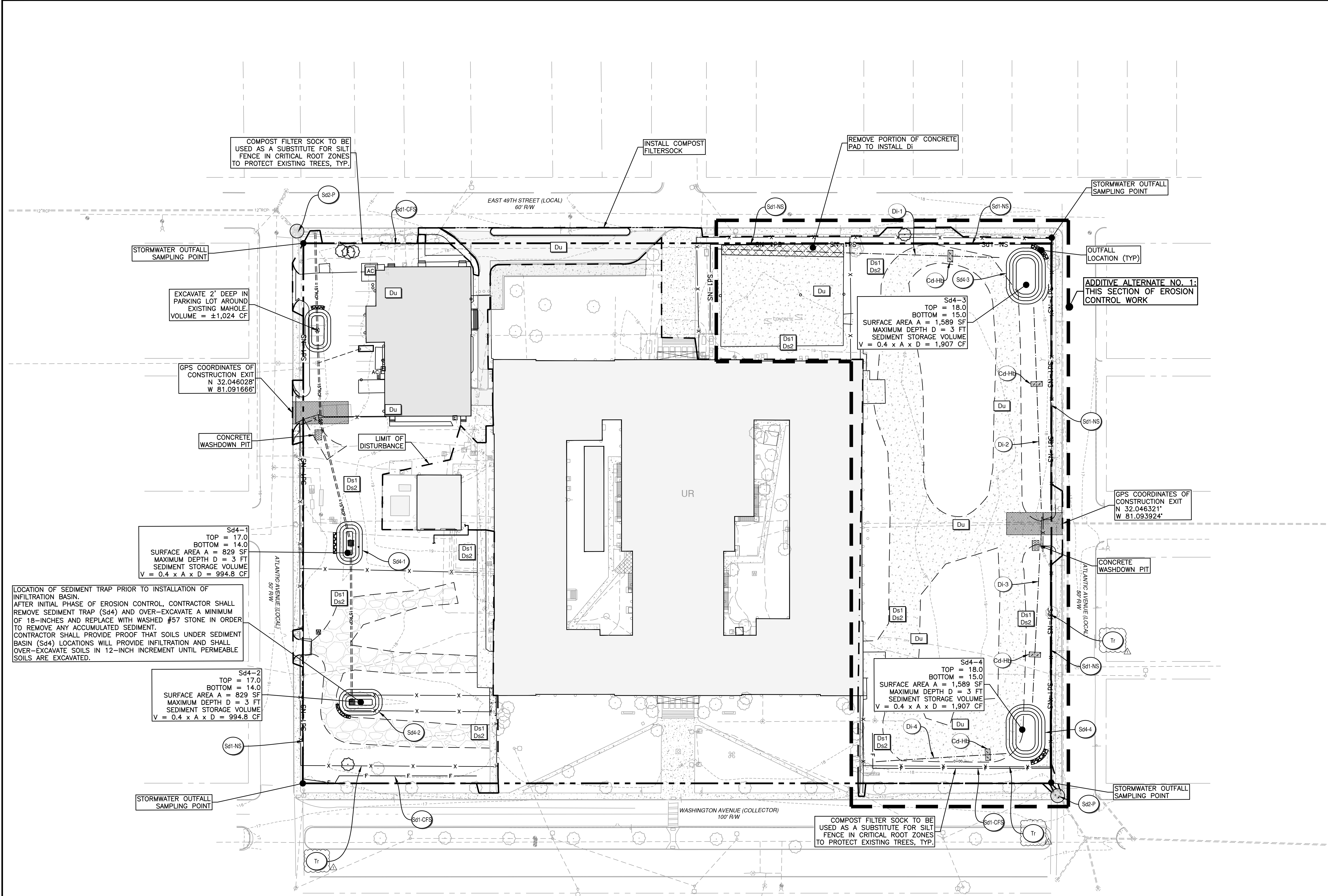
**KEY PLAN:**

**SHEET TITLE:**  
**FIRE ACCESS PLAN**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/11/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** JVM  
**SCALE:** AS SHOWN  
**SHEET:** C2.1

Z:\MAXWELL-REDDICK & ASSOCIATES\JOBS\2020\2020-018 COGDELL & MENDRALA - SAVANNAH ARTS ACADEMY\ENGINEERING\DESIGN\DRAWINGS\SAV-ARTS\_MAIN.DWG



**INITIAL PHASE DESCRIPTION:**  
1. PRIOR TO ANY OTHER DISTURBANCES, INSTALL PERIMETER BMPs SUCH AS Co, Sd1-NS, Sd1-CFS, AND Tr.  
2. PERFORM MINIMAL SITE CLEARING TO ALLOW FOR INSTALLATION OF Sd4, Di, AND Cd-Hb.  
3. PROCEED WITH DEMOLITION ACCORDING TO THE DEMOLITION PLAN SHEET. INSTALL ALL DI AND Cd-S.  
4. IMPLEMENT & MAINTAIN ALL Du, Ds1, & Ds2 AS CONSTRUCTION PROCEEDS.

**24-HOUR EMERGENCY CONTACT**  
**DREVON JONES (912) 395-1209**

**DESIGN PROFESSIONAL 7 DAY SITE VISIT CERTIFICATION:**  
DATE OF INSPECTION: \_\_\_\_\_  
I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.  
GSWCC LEVEL II DESIGN PROFESSIONAL CERT. # \_\_\_\_\_  
INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
THESE DISCREPANCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

**SOIL EROSION CONTROL LEGEND:**

Co	CONSTRUCTION EXIT	Tr	TREE PROTECTION
Di	DIVERSION	Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Sd1-NS	SEDIMENT BARRIER (TYPE NS)	Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)
Sd1-CFS	SEDIMENT BARRIER (TYPE CFS)	Ds3	DISTURBED AREA STABILIZATION (WITH FERM SEEDING)
Sd2	INLET SEDIMENT TRAP (TYPE F, P, & G)	Du	DUST CONTROL ON DISTURBED AREAS

NUMBER CORRESPONDS TO THE GEORGIA EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST (STAND ALONE CONSTRUCTION PROJECT)

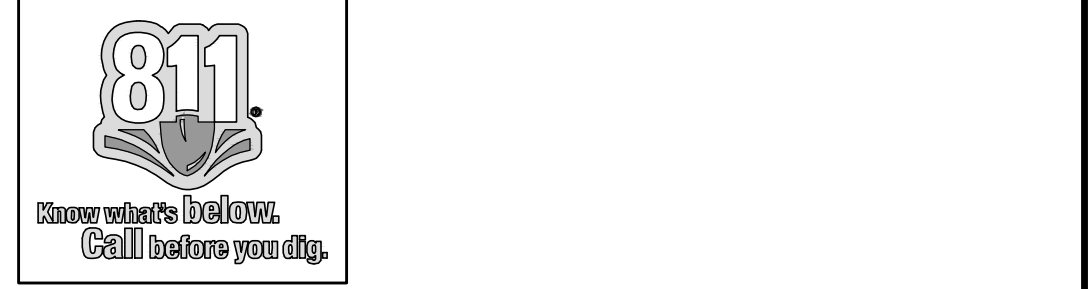
**SOIL EROSION CONTROL NOTES:**  
TOTAL ACREAGE = 37.7 ACRES  
1. TOTAL DISTURBED ACREAGE: 4.4 ACRES  
2. STATE WATERS THAT REQUIRE A BUFFER ARE NOT LOCATED WITHIN 200 FT OF THE PROJECT SITE.  
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION AND FOR AVOIDING CONFLICT WITH THE SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.  
4. ALL DISTURBED AREAS FROM NEW CONSTRUCTION ACTIVITIES WILL BE SEEDED, MULCHED, FERTILIZED AND WATERED TO PROMOTE A SUFFICIENT GROUND COVER THAT WILL PREVENT SOIL EROSION. SUFFICIENT COVERAGE SHALL BE AS SPECIFIED IN THE MANUAL FOR EROSION CONTROL IN GEORGIA.  
5. DRAINAGE: ALL EXCAVATION SHALL BE PERFORMED SO THAT THE SITE AND THE AREA IMMEDIATELY SURROUNDING THE SITE WHICH EFFECTS THE OPERATIONS WILL BE CONTINUALLY AND EFFECTIVELY DRAINED. SURFACE WATER, GROUND WATER, OR ANY PERCHED WATER WHICH MIGHT BE ENCOUNTERED DURING EXCAVATIONS SHALL BE REMOVED BY ANY ACCEPTABLE MEANS APPROVED BY THE ENGINEER.  
6. ALL DISTURBED AREAS SHALL BE GRASSED AND MULCHED AS SPECIFIED ON THE SOIL EROSION CONTROL NOTES SHEET C3.3-3.7.  
7. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES OR PERMITS.  
8. AS PER NPDES REGULATION CHANGES, SOIL EROSION & SEDIMENTATION CONTROL PLANS SHALL NOW BE BROKEN UP INTO THREE PHASES AS FOLLOWS: AN INITIAL PHASE FOR GRADING, AN INTERMEDIATE PHASE FOR GRADING & DRAINAGE, & A FINAL PHASE FOR STABILIZATION. THE EROSION CONTROL DEVICE INSTALLATION SHALL BE PHASED IN THE FOLLOWING MANNER:  
A. ALL PERIMETER CLEARING AND GRUBBING SHALL BE PERFORMED DURING THE INSTALLATION OF PERIMETER EROSION CONTROL DEVICES PRIOR TO ANY OTHER CLEARING AS TO AVOID CONFLICTS DURING CLEARING AND GRUBBING OF THE ENTIRE SITE. THE TEMPORARY SEDIMENT BASIN SHALL BE INSTALLED PRIOR TO BEGINNING THE INTERMEDIATE PHASE.  
B. ALL INTERMEDIATE GRADING AND DRAINAGE BMPs SHALL BE INSTALLED DURING THE INSTALLATION OF THE DRAINAGE SYSTEM.  
C. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED ON THE SITE, ALL TEMPORARY INTERMEDIATE BMPs SHALL BE REMOVED AND SHALL CONSIST OF AND NOT LIMITED TO REMOVAL OF SILT FENCE, INLET SEDIMENT TRAPS, AND RETROFIT.  
9. SEE SHEET C3.3-3.7 FOR NOTES AND DETAILS.  
10. SITE LOCATED IN SAVANNAH, CHATHAM COUNTY, GA  
11. PARCEL ID: 20038 12001.  
12. DRAINAGE: ON SITE = 37.7 AC  
OFF SITE = 30 AC

**SEDIMENT STORAGE NOTES:**  
SEDIMENT STORAGE IN THE INITIAL PHASE SHALL BE PROVIDED BY THE TEMPORARY SEDIMENT TRAPS AND IN THE INTERMEDIATE AND FINAL PHASES BY THE PROPOSED EXCAVATED INLET SEDIMENT TRAPS. SAID TRAPS WILL PROVIDE 355.6 CY (80.8 CY/AC) OF SEDIMENT STORAGE IN THE INITIAL PHASE AND THE EXCAVATED INLET TRAPS WILL PROVIDE 322.7 (73.3 CY/AC) CY OF STORAGE IN THE INTERMEDIATE AND FINAL STAGES.  
REQUIRED STORAGE = 4.4 AC X 67 CY/AC = 294.8 CY  
PROVIDED STORAGE (INITIAL) = 4.4 AC X 80.8 CY/AC = 355.6 CY  
PROVIDED STORAGE (INT. & FINAL) = 4.4 AC X 73.3 CY/AC = 322.7 CY

**FLOOD ZONE NOTE**  
AS OF THE DATE OF THIS SURVEY, BASED ON MY OBSERVATION THIS PROPERTY IS LOCATED IN ZONE X, NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBERS 130510018G & 130510016G. EFFECTIVE DATE: 8/16/2018. FEMA MAPS ARE SUBJECT TO REVISIONS AND AMENDMENTS AND SHOULD BE REVIEWED PRIOR TO CONSTRUCTION.

**BMP MAINTENANCE/REMOVAL SCHEDULE:**  
1. PRIOR TO ANY OTHER DISTURBANCES, INSTALL Co, Sd1-NS, Sd1-CFS, AND Tr.  
2. PERFORM MINIMAL CLEARING TO ALLOW FOR INSTALLATION OF Sd4, Di, AND Cd-Hb.  
3. INSTALL ALL Di AND Cd-S.  
4. IMPLEMENT & MAINTAIN ALL Du, Ds1, & Ds2 AS CONSTRUCTION PROCEEDS.  
MAXWELL-REDDICK & ASSOCIATES JOB NO. 2020-018

**RIGHT-OF-WAY PERMIT NOTE:**  
A RIGHT OF WAY PERMIT SHALL BE OBTAINED PRIOR TO PERFORMING CONSTRUCTION ACTIVITIES IN THE CITY'S R.O.W.



**SOILS INFORMATION:**  
• Ur: URBAN LAND

**WETLANDS NOTE**  
"ALL TIDAL AND NON-TIDAL TRIBUTARIES, MARSH AREAS AND WETLANDS ARE UNDER THE JURISDICTION OF THE CORPS OF ENGINEERS AND/OR THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES. OWNERS ARE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE OF THESE PROTECTED AREAS WITHOUT PROPER PERMIT APPLICATION AND APPROVAL FROM THOSE AGENCIES."  
NO WETLANDS ARE PRESENT ON SITE.

**DESIGN PROFESSIONAL'S CERTIFICATION**  
I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.  
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HERE IN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.  
*[Signature]*  
HORIZONTAL SCALE  
1" = 40'  
0 40 80 120

**VOL. II SAVANNAH ARTS ACADEMY ADDITION**  
500 WASHINGTON AVENUE  
SAVANNAH, GA 31405  
GMP CONSTRUCTION DOCUMENTS

**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

CogdellMendralaArchitects  
**COGDELL & MENDRALA ARCHITECTS, PC**  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

**SEAL:**  
  
GSWCC LEVEL II  
DESIGN PROFESSIONAL  
CERT. #000038107

**PROJECT CONSULTANTS:**  
CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

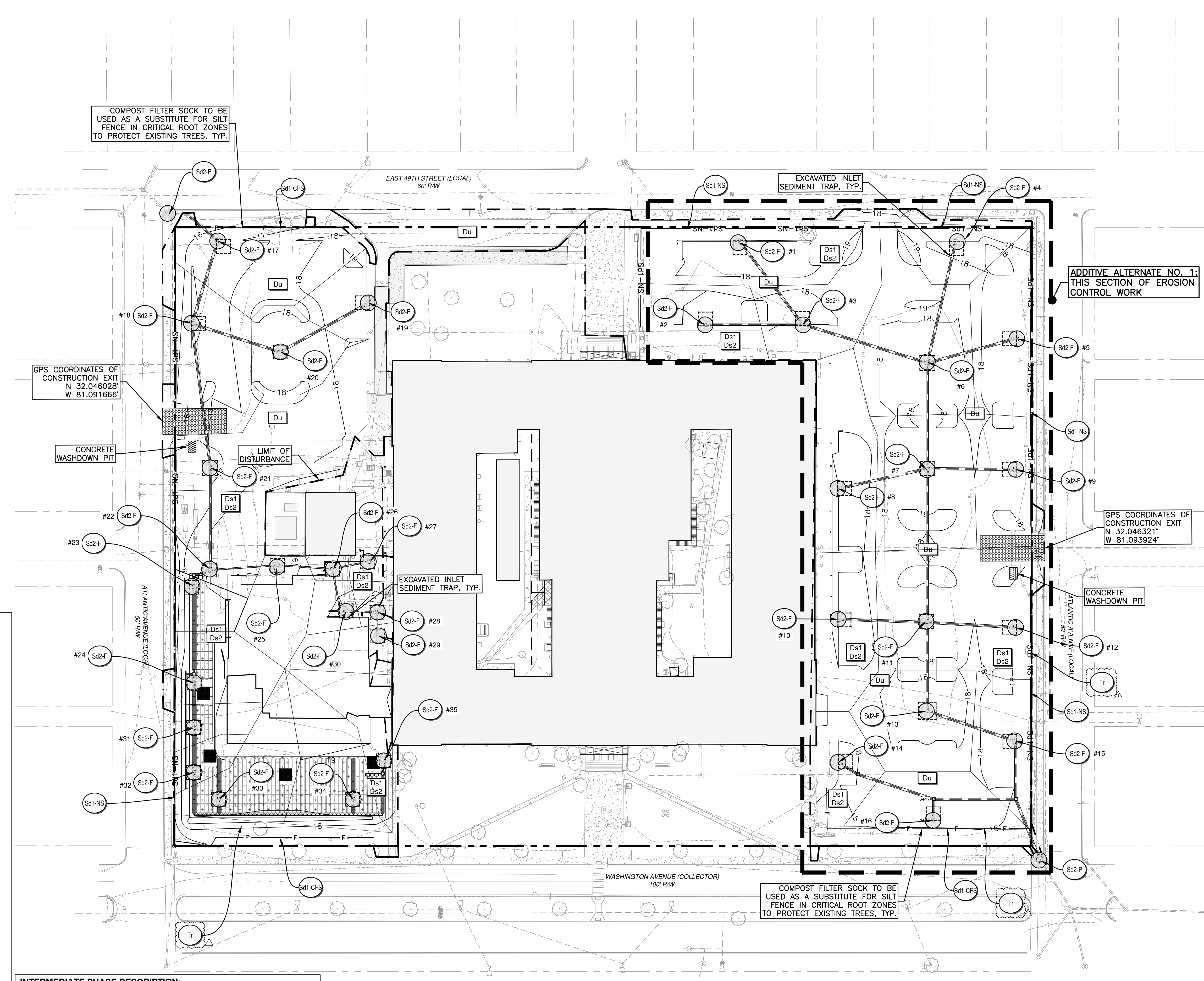
**KEY PLAN:**

**SHEET TITLE:**  
**INITIAL SOIL EROSION CONTROL PLAN**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/11/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** JVM  
**SCALE:** AS SHOWN  
**SHEET:** **C3.0**

NUMBER CORRESPONDS TO THE GEORGIA  
"EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST"  
(STAND ALONE CONSTRUCTION PROJECT)



**SEDIMENT STORAGE NOTES:**

SEDIMENT STORAGE IN THE INITIAL PHASE SHALL BE PROVIDED BY THE TEMPORARY SEDIMENT TRAPS AND IN THE INTERMEDIATE AND FINAL PHASES BY THE PROPOSED EXCAVATED INLET SEDIMENT TRAPS. SAID TRAPS WILL PROVIDE 355.6 CY (80.8 CY/AC) OF SEDIMENT STORAGE IN THE INITIAL PHASE AND THE EXCAVATED INLET TRAPS WILL PROVIDE 322.7 (73.3 CY/AC) CY OF STORAGE IN THE INTERMEDIATE AND FINAL STAGES.  
REQUIRED STORAGE = 4.4 AC X 67 CY/AC = 294.8 CY  
PROVIDED STORAGE (INITIAL) = 4.4 AC X 80.8 CY/AC = 355.6 CY  
PROVIDED STORAGE (INT. & FINAL) = 4.4 AC X 73.3 CY/AC = 322.7 CY

**FLOOD ZONE NOTE**

AS OF THE DATE OF THIS SURVEY, BASED ON MY OBSERVATION THIS PROPERTY IS LOCATED IN ZONE X, NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBERS 13051C01600 & 13051C01660, EFFECTIVE DATE: 8/16/2018. FEMA MAPS ARE SUBJECT TO REVISIONS AND AMENDMENTS AND SHOULD BE REVIEWED PRIOR TO CONSTRUCTION

**BMP MAINTENANCE/REMOVAL SCHEDULE:**

1. CONTINUE TO MAINTAIN ALL Co, Sd1-NS, Sd1-CFS, Di, Cd, AND Sd4.
2. INSTALL Sd2-F AS STORM SYSTEM IS INSTALLED.
3. INSTALL Sd2-F AND Sd2-P FOR EXISTING STORM STRUCTURES.
4. IMPLEMENT & MAINTAIN ALL Du, Ds1, & Ds2 AS CONSTRUCTION PROCEEDS.

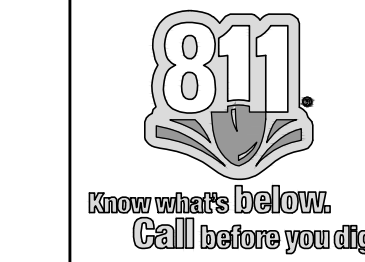
**WETLANDS NOTE**

"ALL TIDAL AND NON-TIDAL TRIBUTARIES, MARSH AREAS AND WETLANDS ARE UNDER THE JURISDICTION OF THE CORPS OF ENGINEERS AND/OR THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES. OWNERS ARE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE OF THESE PROTECTED AREAS WITHOUT PROPER PERMIT APPLICATION AND APPROVAL FROM THOSE AGENCIES."  
NO WETLANDS ARE PRESENT ONSITE.

MAXWELL-REDDICK & ASSOCIATES JOB NO. 2020-018

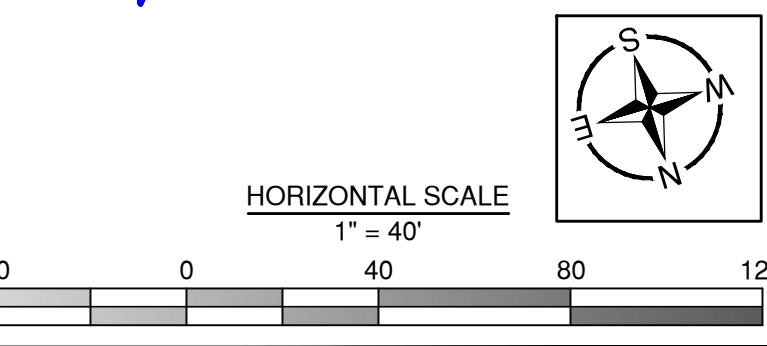
**RIGHT-OF-WAY PERMIT NOTE:**

A RIGHT OF WAY PERMIT SHALL BE OBTAINED PRIOR TO PERFORMING CONSTRUCTION ACTIVITIES IN THE CITY'S R.O.W.



**DESIGN PROFESSIONAL'S CERTIFICATION**

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT 'MANUAL FOR EROSION CONTROL IN GEORGIA' (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."  
"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HERE IN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."



**24-HOUR EMERGENCY CONTACT  
DREVEN JONES (912) 395-1209**

**SOIL EROSION CONTROL LEGEND:**

Co	CONSTRUCTION EXIT	Tr	TREE PROTECTION
Di	DIVERSION	Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Sd1-NS	SEDIMENT BARRIER (TYPE NS)	Ds2	DISTURBED AREA STABILIZATION (WITH MULCH AND SEEDING)
Sd1-CFS	SEDIMENT BARRIER (TYPE CFS)	Ds3	DISTURBED AREA STABILIZATION (WITH SEEDING)
Sd2	INLET SEDIMENT TRAP (TYPE F, P, & G)	Du	EXISTING CONTROL ON DISTURBED AREAS

**INTERMEDIATE PHASE DESCRIPTION:**

1. CONTINUE TO MAINTAIN ALL Co, Sd1-NS, Sd1-CFS, Di, Cd. REMOVE Sd4 FROM INITIAL PHASE AND CLEAR THE SEDIMENT TRAPPED WITHIN.
2. SITE TO BE GRADED AND STABILIZED WITH TEMPORARY VEGETATION TO PREPARE FOR THE INSTALLATION OF BUILDING BASE AND DRIVEWAYS.
3. PROPOSED UTILITIES TO BE INSTALLED, CONNECTED, OR RELOCATED.
4. INSTALL PROPOSED STORM SYSTEM. INSTALL Sd2-F TO PROTECT PROPOSED INLETS AS STORM SYSTEM IS INSTALLED.
5. INSTALL Sd2-F AND Sd2-P FOR THE REMAINING EXISTING STORM STRUCTURES.
6. IMPLEMENT & MAINTAIN ALL Du, Ds1, & Ds2 AS CONSTRUCTION PROCEEDS.

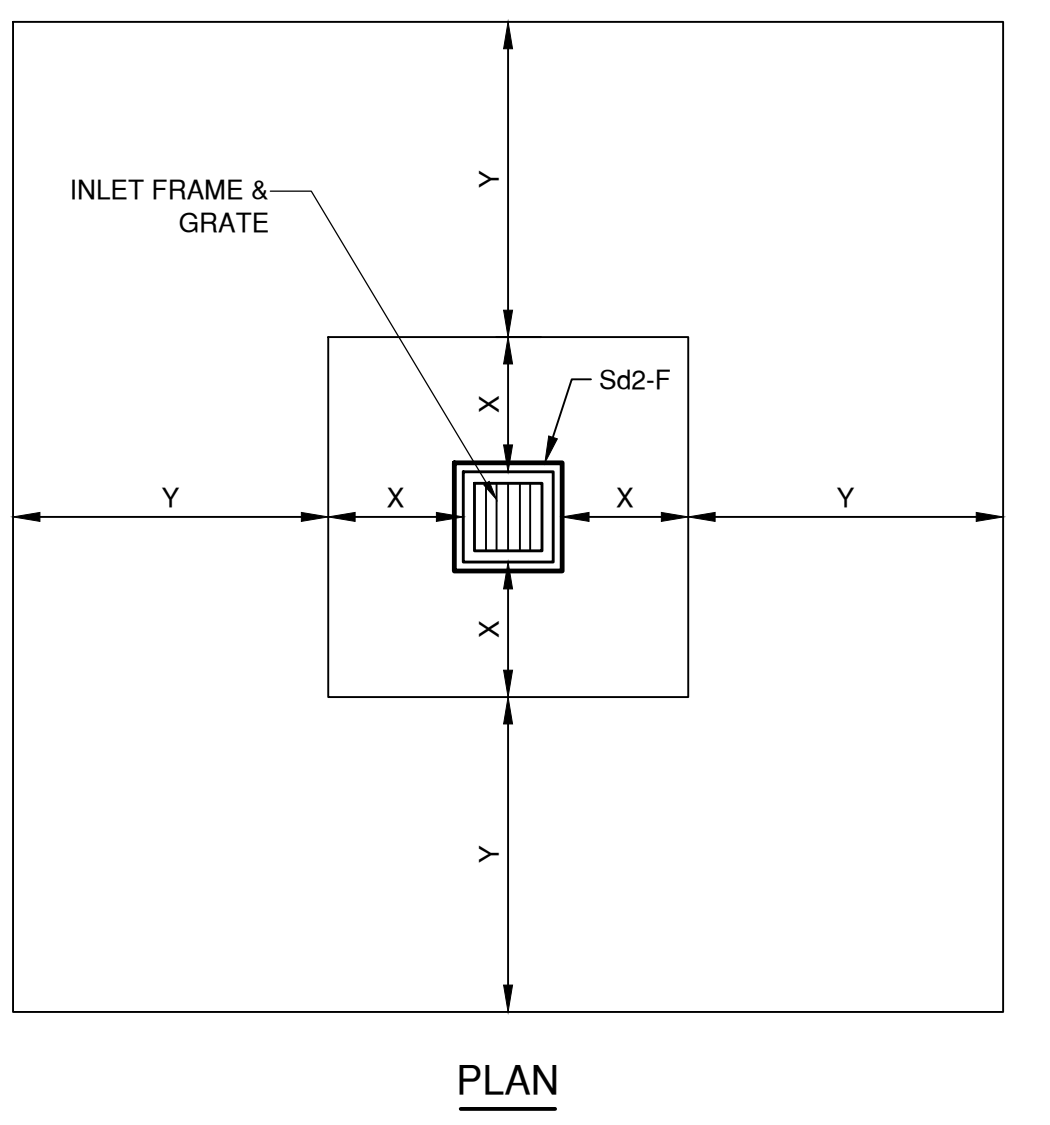
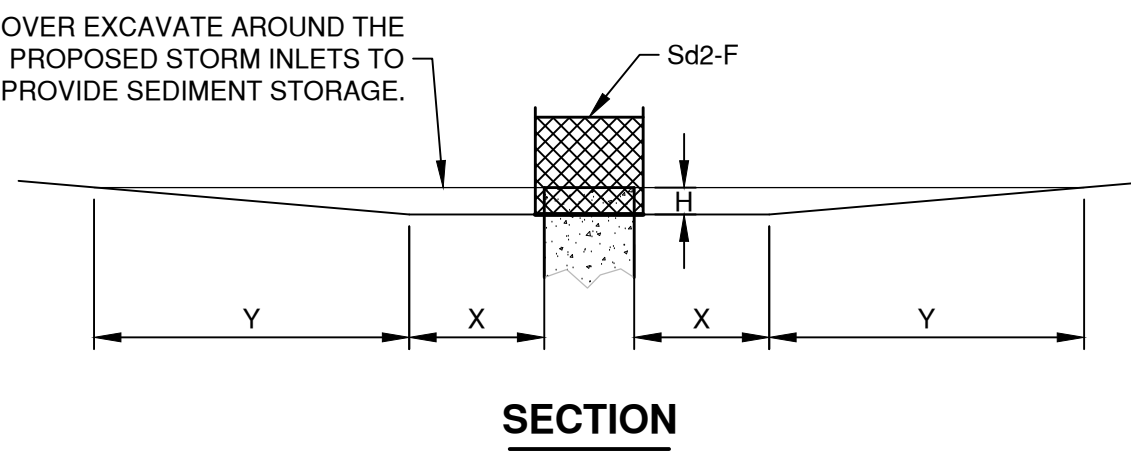
**Sd2-F CALCULATION CHART**

Sd2-F No.	DRAINAGE AREA (AC)	RQD. STORAGE (CF)	DEPTH (FT)	SIDE SLOPES	RQD. SURFACE AREA (SF)	DIMENSIONS	Sd2-F No.	DRAINAGE AREA (AC)	RQD. STORAGE (CF)	DEPTH (FT)	SIDE SLOPES	RQD. SURFACE AREA (SF)	DIMENSIONS
1	0.20	360	3	2:1	120	11' x 11'	17	0.17	303	3	2:1	101	11' x 11'
2	0.13	240	3	2:1	80	11' x 11'	18	0.16	285	3	2:1	95	11' x 11'
3	0.14	254	3	2:1	85	11' x 11'	19	0.06	102	3	2:1	34	11' x 11'
4	0.08	139	3	2:1	46	11' x 11'	20	0.09	170	3	2:1	57	11' x 11'
5	0.14	247	3	2:1	82	11' x 11'	21	0.23	408	3	2:1	136	12' x 12'
6	0.23	420	3	2:1	140	12' x 12'	22	0.12	215	3	2:1	72	11' x 11'
7	0.19	351	3	2:1	117	11' x 11'	23	0.05	86	3	2:1	29	11' x 11'
8	0.16	289	3	2:1	96	11' x 11'	24	0.10	173	3	2:1	58	11' x 11'
9	0.11	193	3	2:1	64	11' x 11'	25	0.09	158	3	2:1	53	11' x 11'
10	0.13	241	3	2:1	80	11' x 11'	26	0.01	26	3	2:1	9	11' x 11'
11	0.18	318	3	2:1	106	11' x 11'	27	0.02	30	3	2:1	10	11' x 11'
12	0.10	185	3	2:1	62	11' x 11'	28	0.02	43	3	2:1	14	11' x 11'
13	0.16	284	3	2:1	95	11' x 11'	29	0.06	110	3	2:1	37	11' x 11'
14	0.08	150	3	2:1	50	11' x 11'	30	0.03	61	3	2:1	20	11' x 11'
15	0.10	188	3	2:1	63	11' x 11'	31	0.04	77	3	2:1	26	11' x 11'
16	0.11	202	3	2:1	67	11' x 11'	32	0.04	65	3	2:1	22	11' x 11'
							33	0.13	231	3	2:1	77	11' x 11'
							34	0.14	251	3	2:1	84	11' x 11'
							35	0.09	161	3	2:1	54	11' x 11'

**Sd2-F - EXCAVATED INLET SEDIMENT TRAP**

**EXCAVATED Sd2-F CALCULATIONS**

Sd2-F1  
 1. TOTAL DISTURBED DRAINAGE AREA = 4.4 AC  
 2. DRAINAGE AREA FOR EACH INLET = 0.13 AC  
 3. REQUIRED SEDIMENT STORAGE = 67 CY/AC X DRAINAGE AREA  
 REQUIRED SEDIMENT STORAGE = 8.7 CY = 235 CF  
 4. ASSUME EXCAVATION DEPTH (MIN. 1.5') = 3 FT  
 5. ASSUME SIDE SLOPES (SHALL NOT BE STEEPER THAN 2:1) = 2:1  
 6. DETERMINE REQUIRED SURFACE AREA  
 SA<sub>MIN</sub> = REQ'D SEDIMENT STORAGE / EXCAVATION DEPTH  
 SA<sub>MIN</sub> = 235 CF / 3 FT  
 SA<sub>MIN</sub> = 78 SF  
 7. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS  
 SHAPE: AS SHOWN ON PLAN  
 DIMENSIONS: SEE CALCULATION CHART ON THIS SHEET



**NOTES:**  
 • SEDIMENT TRAP IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.  
 • DIMENSIONS X, Y, AND H VARY BY SEDIMENT TRAP. SEE EROSION CONTROL PLANS AND CALCULATIONS.

**VOL. II SAVANNAH ARTS ACADEMY ADDITION**  
 500 WASHINGTON AVENUE  
 SAVANNAH, GA 31405  
**SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM**  
**GMP CONSTRUCTION DOCUMENTS**

**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

CogdellMendralaArchitects  
 COGDRELL & MENDRALA ARCHITECTS, PC  
 517 EAST CONGRESS STREET  
 SAVANNAH, GEORGIA 31401  
 tel 912.234.6318  
 fax 912.236.8414  
 cogdellmendra.com

**SEAL:**

GSWCC LEVEL II  
 DESIGN PROFESSIONAL  
 CERT. #000008107

**PROJECT CONSULTANTS:**

**CIVIL ENGINEER**  
**MAXWELL-REDDICK & ASSOCIATES**  
 40 JOE KENNEDY BLVD.  
 STATESBORO, GA 30458

**STRUCTURAL ENGINEER:**  
**SAUSSY ENGINEERING**  
 400 E. JOHNNY MERCER BOULEVARD  
 SAVANNAH, GA 31410

**MECHANICAL & ELECTRICAL ENGINEER:**  
**DULOHERY WEEKS ENGINEERS**  
 7402 HODGSON MEMORIAL DRIVE,  
 SUITE 100  
 SAVANNAH, GA 31406

**KEY PLAN:**

**SHEET TITLE:**  
**INTERMEDIATE SOIL EROSION CONTROL PLAN**

**REVISION SCHEDULE**

DATE	DESCRIPTION
03/11/22	ADDENDUM #1

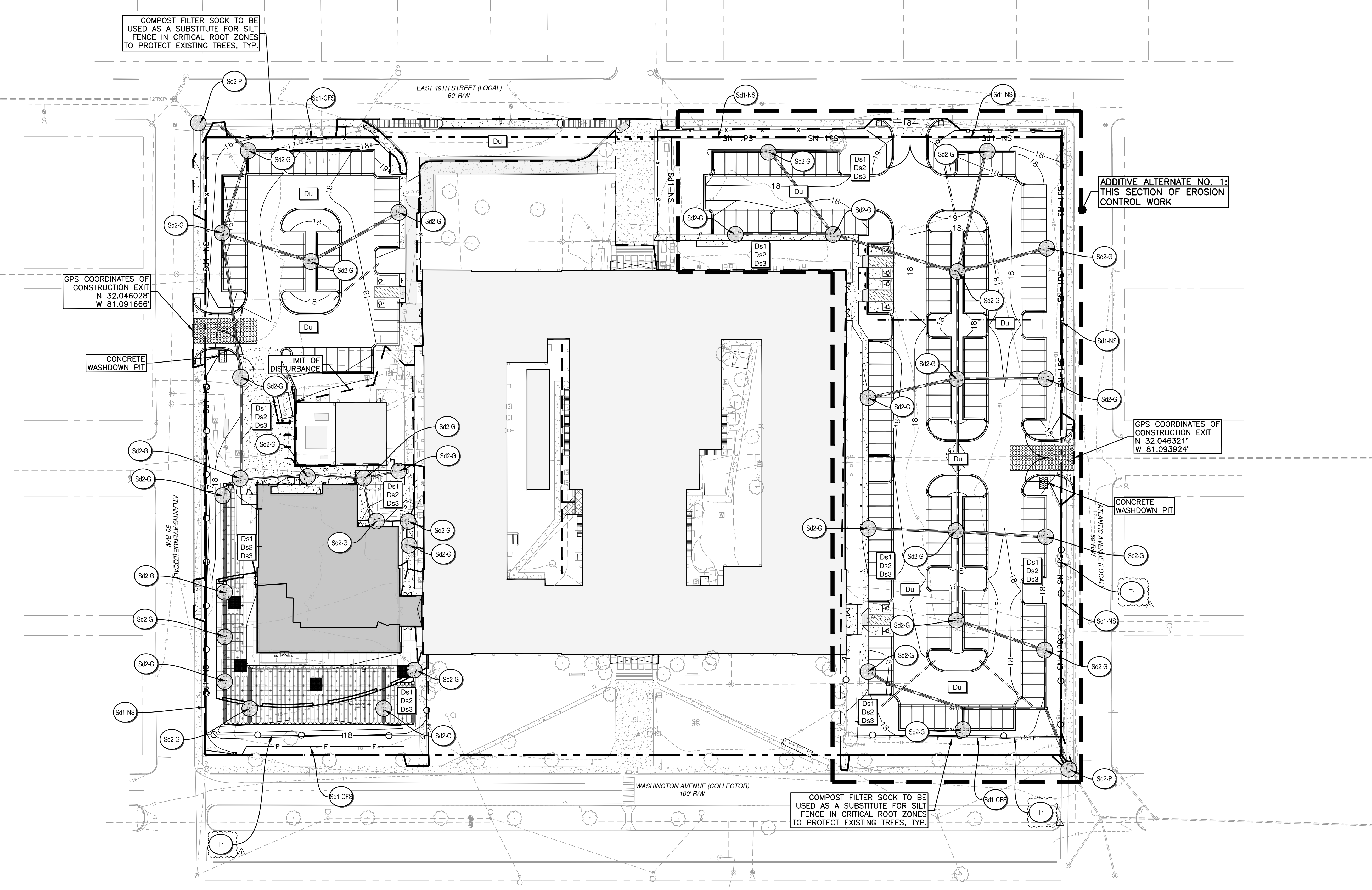
**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** JWM  
**SCALE:** AS SHOWN  
**SHEET:** C3.1



Z:\MAXWELL-REDDICK & ASSOCIATES\JOBS\2020\2020-018 COGDELL & MENDRALA - SAVANNAH ARTS ACADEMY\ENGINEERING\DESIGN\DRAWINGS\SAV-ARTS\_MAIN.DWG

10/26/2020 10:46:38 AM

NUMBER CORRESPONDS TO THE GEORGIA  
"EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST"  
(STAND ALONE CONSTRUCTION PROJECT)



COMPOST FILTER SOCK TO BE USED AS A SUBSTITUTE FOR SILT FENCE IN CRITICAL ROOT ZONES TO PROTECT EXISTING TREES, TYP.

ADDITIVE ALTERNATE NO. 1:  
THIS SECTION OF EROSION CONTROL WORK

GPS COORDINATES OF CONSTRUCTION EXIT  
N 32.046025°  
W 81.091668°

GPS COORDINATES OF CONSTRUCTION EXIT  
N 32.046321°  
W 81.093924°

**SEDIMENT STORAGE NOTES:**  
SEDIMENT STORAGE IN THE INITIAL PHASE SHALL BE PROVIDED BY THE TEMPORARY SEDIMENT TRAPS AND IN THE INTERMEDIATE AND FINAL PHASES BY THE PROPOSED EXCAVATED INLET SEDIMENT TRAPS. SAID TRAPS WILL PROVIDE 355.6 CY (80.8 CY/AC) OF SEDIMENT STORAGE IN THE INITIAL PHASE AND THE EXCAVATED INLET TRAPS WILL PROVIDE 322.7 (73.3 CY/AC) CY OF STORAGE IN THE INTERMEDIATE AND FINAL STAGES.  
REQUIRED STORAGE = 4.4 AC X 67 CY/AC = 294.8 CY  
PROVIDED STORAGE (INITIAL) = 4.4 AC X 80.8 CY/AC = 355.6 CY  
PROVIDED STORAGE (INT. & FINAL) = 4.4 AC X 73.3 CY/AC = 322.7 CY

**FLOOD ZONE NOTE**  
AS OF THE DATE OF THIS SURVEY, BASED ON MY OBSERVATION THIS PROPERTY IS LOCATED IN ZONE X, NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBERS 13051C01600 & 13051C01660, EFFECTIVE DATE: 8/16/2018. FEMA MAPS ARE SUBJECT TO REVISIONS AND AMENDMENTS AND SHOULD BE REVIEWED PRIOR TO CONSTRUCTION

**BMP MAINTENANCE/REMOVAL SCHEDULE:**  
1. CONTINUE TO MAINTAIN ALL Co, Sd1-NS, Sd1-CFS, Sd2-F, AND CONCRETE ARE INSTALLED.  
2. REPLACE Sd2-F WITH Sd2-P AND Sd2-G AS BASE, PAVING, AND CONSTRUCTION PROCEEDS.  
3. IMPLEMENT & MAINTAIN ALL Du, Ds1, & Ds2 AS CONSTRUCTION PROCEEDS.  
4. IMPLEMENT Ds3 IN AREAS THAT ARE AT FINAL GRADE.  
5. UPON ACHIEVING FINAL STABILIZATION, REMOVE ALL STRUCTURAL BMP'S, INCLUDING BUT NOT LIMITED TOO Sk, Sd1, AND Sd2.

**WETLANDS NOTE**  
"ALL TIDAL AND NON-TIDAL TRIBUTARIES, MARSH AREAS AND WETLANDS ARE UNDER THE JURISDICTION OF THE CORPS OF ENGINEERS AND/OR THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES. OWNERS ARE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE OF THESE PROTECTED AREAS WITHOUT PROPER PERMIT APPLICATION AND APPROVAL FROM THOSE AGENCIES."  
NO WETLANDS ARE PRESENT ONSITE.

MAXWELL-REDDICK & ASSOCIATES JOB NO. 2020-018

**RIGHT-OF-WAY PERMIT NOTE:**  
A RIGHT OF WAY PERMIT SHALL BE OBTAINED PRIOR TO PERFORMING CONSTRUCTION ACTIVITIES IN THE CITY'S R.O.W.

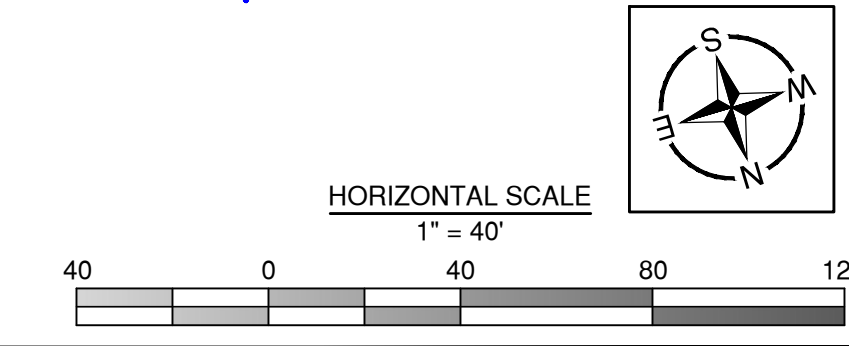
**FINAL PHASE DESCRIPTION:**  
1. CONTINUE TO MAINTAIN ALL Co, Sd1-NS, Sd1-CFS, D1, C4, AND Sd4.  
2. INSTALL BUILDING BASE, PAVEMENT, AND CONCRETE DRIVEWAYS. REPLACE Sd2-F WITH Sd2-P AND Sd2-G AS THOSE ARE INSTALLED.  
3. IMPLEMENT & MAINTAIN ALL Du, Ds1, & Ds2 AS CONSTRUCTION PROCEEDS.  
4. IMPLEMENT Ds3 IN AREAS THAT ARE AT FINAL GRADE.  
5. UPON ACHIEVING FINAL STABILIZATION, REMOVE ALL STRUCTURAL BMP'S, INCLUDING BUT NOT LIMITED TO SK, Sd1, AND Sd2.

**24-HOUR EMERGENCY CONTACT  
DREVON JONES (912) 395-1209**

**SOIL EROSION CONTROL LEGEND:**

Co	CONSTRUCTION EXIT	Tr	TREE PROTECTION
Di	DIVERSION	Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Sd1-NS	SEDIMENT BARRIER (TYPE NS)	Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)
Sd1-CFS	SEDIMENT BARRIER (TYPE CFS)	Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)
Sd2	INLET SEDIMENT TRAP (TYPE F, P, & G)	Du	DIST CONTROL ON DISTURBED AREAS

**DESIGN PROFESSIONAL'S CERTIFICATION**  
"I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."  
"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HERE IN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."  
*Jones*



**VOL. II SAVANNAH ARTS ACADEMY ADDITION**  
500 WASHINGTON AVENUE  
SAVANNAH, GA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

CogdellMendralaArchitects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com



**PROJECT CONSULTANTS:**  
CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

**KEY PLAN:**

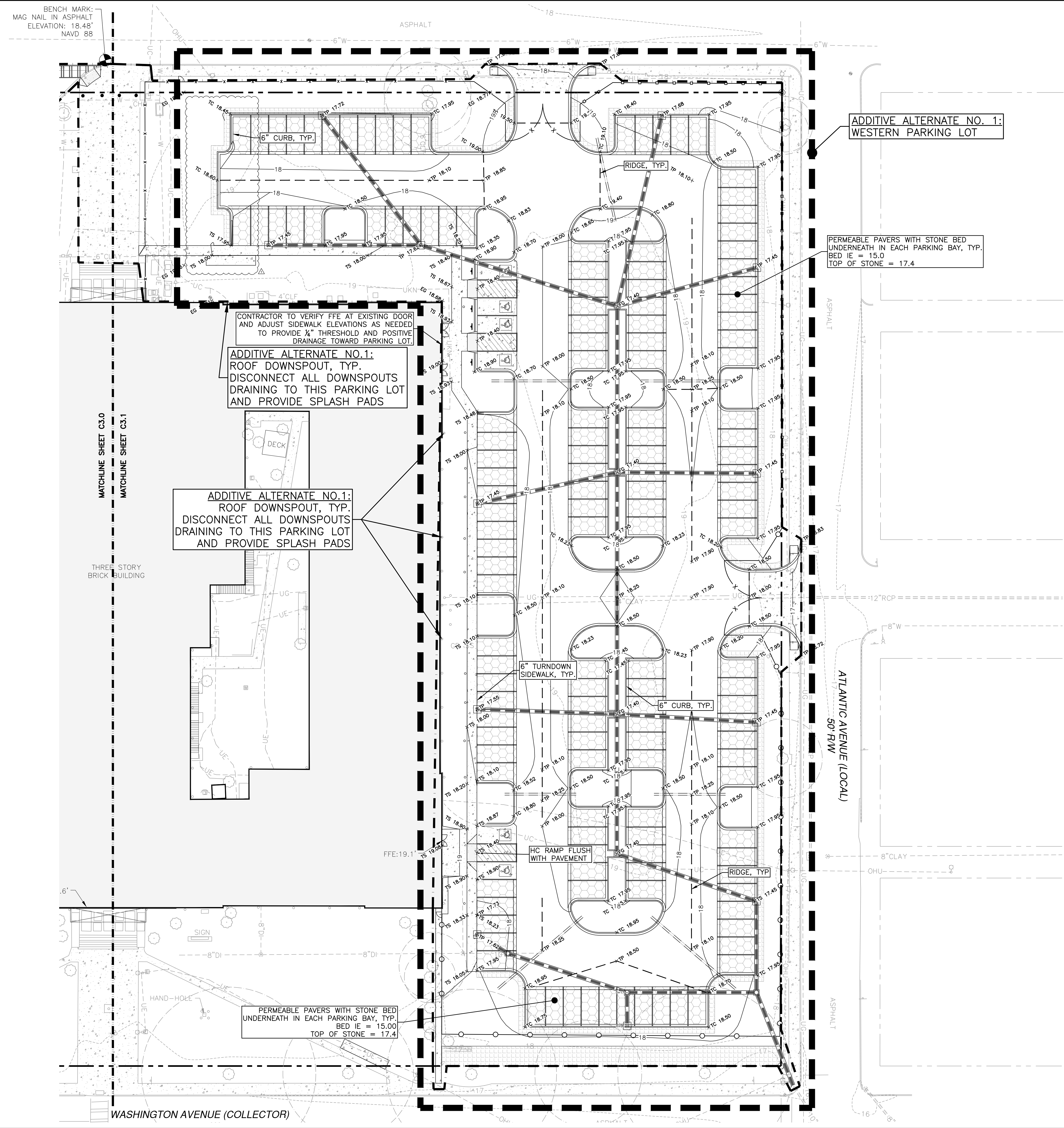
**SHEET TITLE:**  
FINAL SOIL EROSION CONTROL PLAN

**REVISION SCHEDULE**

DATE	DESCRIPTION
03/11/22	ADDENDUM #1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: JVM  
SCALE: AS SHOWN  
SHEET: **C3.2**

Z:\MAXWELL-REDDICK & ASSOCIATES\JOBS\2020\2020-018 COGDELL & MENDRALA - SAVANNAH ARTS ACADEMY\ENGINEERING\DESIGN\DRAWINGS\SAV-ARTS\_GRADING.DWG



**PAVING AND GRADING NOTES:**

- TRANSITION SIDEWALKS/LOADING ZONE/AREA PAVEMENT AT DOORWAYS TO MATCH FINISHED FLOOR ELEVATION.
- ABBREVIATIONS:  
 HP = HIGHPOINT  
 TP = TOP OF PAVEMENT  
 TW = TOP OF WALL  
 BW = BOTTOM OF WALL  
 TS = TOP OF STEPS/SIDEWALK  
 TG = TOP OF GRATE  
 BS = BOTTOM OF STEPS  
 TR = TOP OF RAMP  
 BR = BOTTOM OF RAMP  
 TB = TOP OF PAVERS  
 FFE = FINISHED FLOOR ELEVATION  
 FGE = FINISHED GRADE ELEVATION  
 CE = CROWN ELEVATION  
 IE = INVERT ELEVATION  
 RIM = STRUCTURE RIM ELEVATION  
 RCP = REINFORCED CONCRETE PIPE  
 PVC = POLYETHYLENE CHLORIDE PIPE
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION, AND SHALL USE CARE NOT TO DAMAGE ANY EXISTING UTILITIES. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AND ALL SUCH COSTS ASSOCIATED WITH THESE REPAIRS SHALL BE BORNE BY THE CONTRACTOR.
- THE PROPOSED ELEVATIONS ALONG THE EXISTING EDGE OF PAVEMENTS (CONCRETE PAVERS, CONCRETE RAMPS, ASPHALT & CONCRETE PAVEMENTS) ARE ESTIMATED, AND ACTUAL EDGE OF PAVEMENT ELEVATIONS SHALL SUPERSEDE.
- PROPOSED GRADE SHOTS SHALL SUPERCEDE PROPOSED CONTOURS; PROPOSED CONTOURS ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TIE THE PROPOSED GRADES INTO EXISTING IN A SUITABLE MANNER.
- THE FINISHED GRADE SHOTS CALLED OUT ON PAVING, GRADING, & DRAINAGE PLAN REFER TO THE TOP OF THE MULCH IN ANY PROPOSED PLANT BEDS AND THE TOP OF THE SOD IN ALL AREAS TO BE SODDED. CONTRACTOR SHALL ENSURE INSTALLATION OF MULCH OR SOD WILL NOT IMPAIR STORMWATER DRAINAGE. DO NOT BLOCK WEEPHOLES.
- THE MAXIMUM GRADE WITHIN THE PROPOSED HANDICAP SPACES AND ACCESS SPACES IS 2%.
- ALL CROSS SLOPES ON THE PROPOSED SIDEWALKS SHALL BE 2% OR LESS UNLESS OTHERWISE NOTED.
- ALL PROPOSED SIDEWALKS WITH SLOPES 5% OR GREATER SHALL HAVE AN ADA ACCEPTABLE HANDRAIL.
- SEE ARCH. PLANS FOR DETAILS ON REQUIRED HANDRAILS FOR H.C. RAMPS AND STEPS.
- THE MAXIMUM SLOPE ON ANY PROPOSED HANDICAP RAMP SHALL NOT EXCEED 12:1. HANDICAP RAMPS MUST COMPLY WITH THE MOST RECENT STATE AND FEDERAL ADA REGULATIONS.
- ASPHALT PAVEMENT SECTION: THE PAVEMENT SECTION SHOWN ON THE DETAIL SHEET(S) SHALL BE USED IN PROPOSED PARKING AREAS ON THE EAST SIDE AS NOTED ON SITE PLAN.
- HEAVY DUTY ASPHALT PAVEMENT SECTION: THE HEAVY DUTY PAVEMENT SECTION SHOWN ON THE DETAIL SHEET(S) SHALL BE USED IN ALL AREAS DESIGNATED ON THE PLANS FOR TRAFFIC RATED PERMEABLE PAVERS.
- TRAFFIC RATED PERMEABLE PAVEMENT SECTION: THE PERMEABLE PAVERS SECTION SHOWN ON THE DETAIL SHEET(S) SHALL BE USED IN ALL AREAS DESIGNATED ON THE PLANS FOR TRAFFIC RATED CONCRETE PAVEMENT.
- PEDESTRIAN RATED CONCRETE PAVEMENT SECTION: THE PAVEMENT SECTION SHOWN ON THE DETAIL SHEET(S) SHALL BE USED IN ALL AREAS DESIGNATED FOR PEDESTRIAN RATED CONCRETE PAVEMENT.
- SUBSURFACE DRAINAGE SHALL BE PLACED ALONG ALL GUTTER LINES AND PAVEMENT INVERTS AS WARRANTED BY PROOF ROLLING AND SITE CONDITIONS.
- THE CONTRACTOR SHALL BE PREPARED TO ADD SUBSURFACE DRAINAGE AND DEWATER ANY AREAS WITHIN OR PERTAINING TO THE PROJECT AS REQUIRED BY SITE CONDITIONS. ALL SUCH COSTS ASSOCIATED WITH SAID SUBSURFACE DRAINAGE AND/OR DEWATERING SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL KEEP THE PROJECT SITE GRADED IN A WAY THAT PROVIDES POSITIVE DRAINAGE AT ALL TIMES. THE CONTRACTOR SHALL USE ANY TEMPORARY DRAINAGE PIPES, SWALES, DITCHES, ETC. AS NEEDED TO PROVIDE POSITIVE DRAINAGE.
- POSITIVE DRAINAGE MUST BE PROVIDED ON THE SITE AT ALL TIMES DURING CONSTRUCTION. ALL EXCAVATION SHALL BE PERFORMED SO THAT THE SITE AND THE AREA IMMEDIATELY SURROUNDING THE SITE WHICH EFFECTS THE OPERATIONS WILL BE CONTINUALLY AND EFFECTIVELY DRAINED. SURFACE WATER, GROUNDWATER, OR ANY PERCHED WATER WHICH MIGHT BE ENCOUNTERED DURING EXCAVATIONS SHALL BE DEWATERED BY THE CONTRACTOR BY ANY ACCEPTABLE MEANS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT FOR THIS SITE THOROUGHLY AND FOLLOW ALL RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- ALL STRIPPED TOPSOIL SHALL BE SEPARATED AND STOCKPILED FOR REDISTRIBUTION BY THE CONTRACTOR. COORDINATE TEMPORARY STOCKPILE LOCATION WITH PROJECT MANAGER.
- ALL DISTURBED AREAS NOT TO RECEIVE PAVEMENTS, SIDEWALKS, OR STRUCTURES SHALL BE TOPPED WITH A MINIMUM OF 6 INCHES OF SUITABLE, SCREENED TOPSOIL MATERIAL AND SEEDED WITH STANDARD PERMANENT GRASS UNLESS NOTED OTHERWISE ON LANDSCAPE PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TESTING WITH THE TESTING COMPANY CHOSEN BY THE OWNER. ALL TESTING SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
- ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE PROPOSED AREAS TO RECEIVE BUILDINGS, STRUCTURES, BLEACHERS/STANDS, PAVEMENTS, SIDEWALKS, FIELDS, HARDSCAPES, AND ASSOCIATED FEATURES AND MUST BE REPLACED WITH SUITABLE FILL MATERIAL. BACKFILL AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONTRACTOR TO VIDEO CAMERA ALL LINES 3" OR LARGER TO A DISTANCE OF 10 FT. BEYOND EXTERIOR OF BUILDING. RECORD AND TURN OVER TO DISTRICT IN DVD FORM WITH LABELS AS APPROPRIATE FOR THE FACILITY AND LOCATION.

MAXWELL-REDDICK & ASSOCIATES JOB NO. 2020-018

**RIGHT-OF-WAY PERMIT NOTE:**

A RIGHT OF WAY PERMIT SHALL BE OBTAINED PRIOR TO PERFORMING CONSTRUCTION ACTIVITIES IN THE CITY'S R.O.W.

**811**  
 Call before you dig.  
 Call 811 before you dig.

**REVISION SCHEDULE**

DATE	DESCRIPTION
03/11/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** JVM  
**SCALE:** AS SHOWN

**SHEET:** C4.1

**VOL. II SAVANNAH ARTS ACADEMY ADDITION**

500 WASHINGTON AVENUE  
 SAVANNAH, GA 31405

**GMP CONSTRUCTION DOCUMENTS**

**SCCPSS**

**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

**CogdelMendralaarchitects**  
**COGDELL & MENDRALA ARCHITECTS, PC**  
 517 EAST CONGRESS STREET  
 SAVANNAH, GEORGIA 31401  
 tel 912.234.6318  
 fax 912.236.8414  
 cogdel@mendrala.com

**SEAL:**

**SAVANA**  
 REGISTERED  
 No. 3615  
 PROFESSIONAL  
 ENGINEER  
 JARED V. MAXWELL

GSWCC LEVEL 8  
 DESIGN PROFESSIONAL  
 CERT. #000008107

**PROJECT CONSULTANTS:**

**CIVIL ENGINEER**  
**MAXWELL-REDDICK & ASSOCIATES**  
 40 JOE KENNEDY BLVD.  
 STATESBORO, GA 30458

**STRUCTURAL ENGINEER:**  
**SAUSSY ENGINEERING**  
 400 E. JOHNNY MCKERCER BOULEVARD  
 SAVANNAH, GA 31410

**MECHANICAL & ELECTRICAL ENGINEER:**  
**DULOHERY WEEKS ENGINEERS**  
 7402 HODGSON MEMORIAL DRIVE,  
 SUITE 100  
 SAVANNAH, GA 31406

**KEY PLAN:**

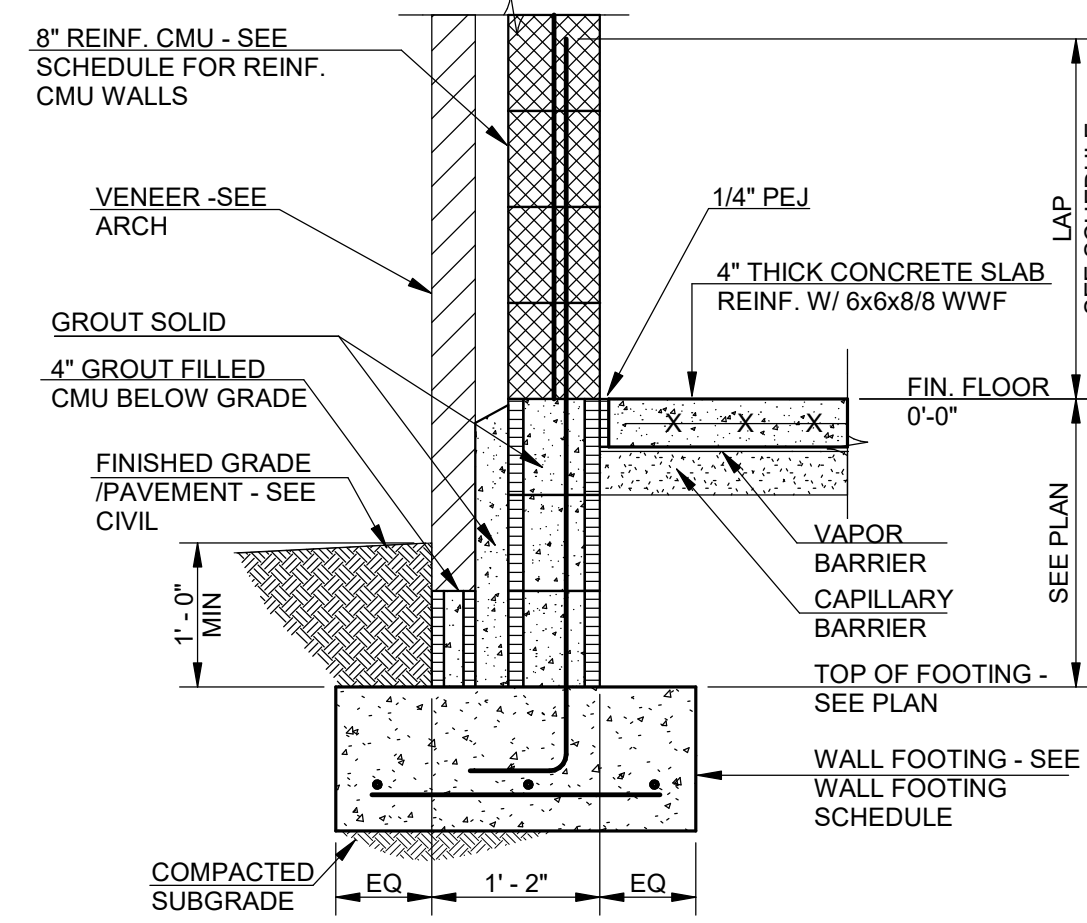
**SHEET TITLE:**  
**GRADING PLAN - B**

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** JVM  
**SCALE:** AS SHOWN

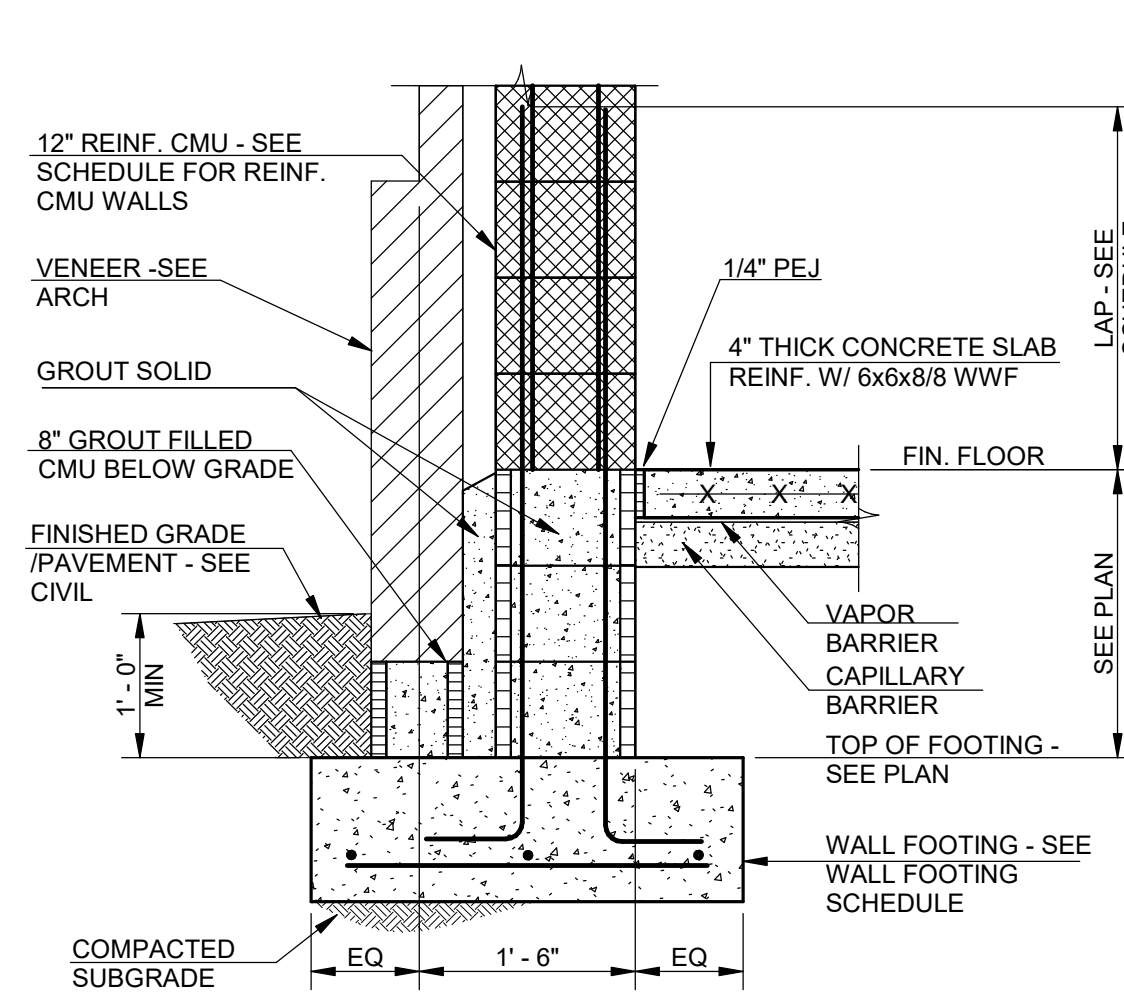
**SHEET:** C4.1

\\192.168.1.110\Shared\JOBS 2020\OT\HERS\20010-Savannah Arts Academy Renovations & Addition\1-Revit\20010 Savannah Arts - RT191V.dwg

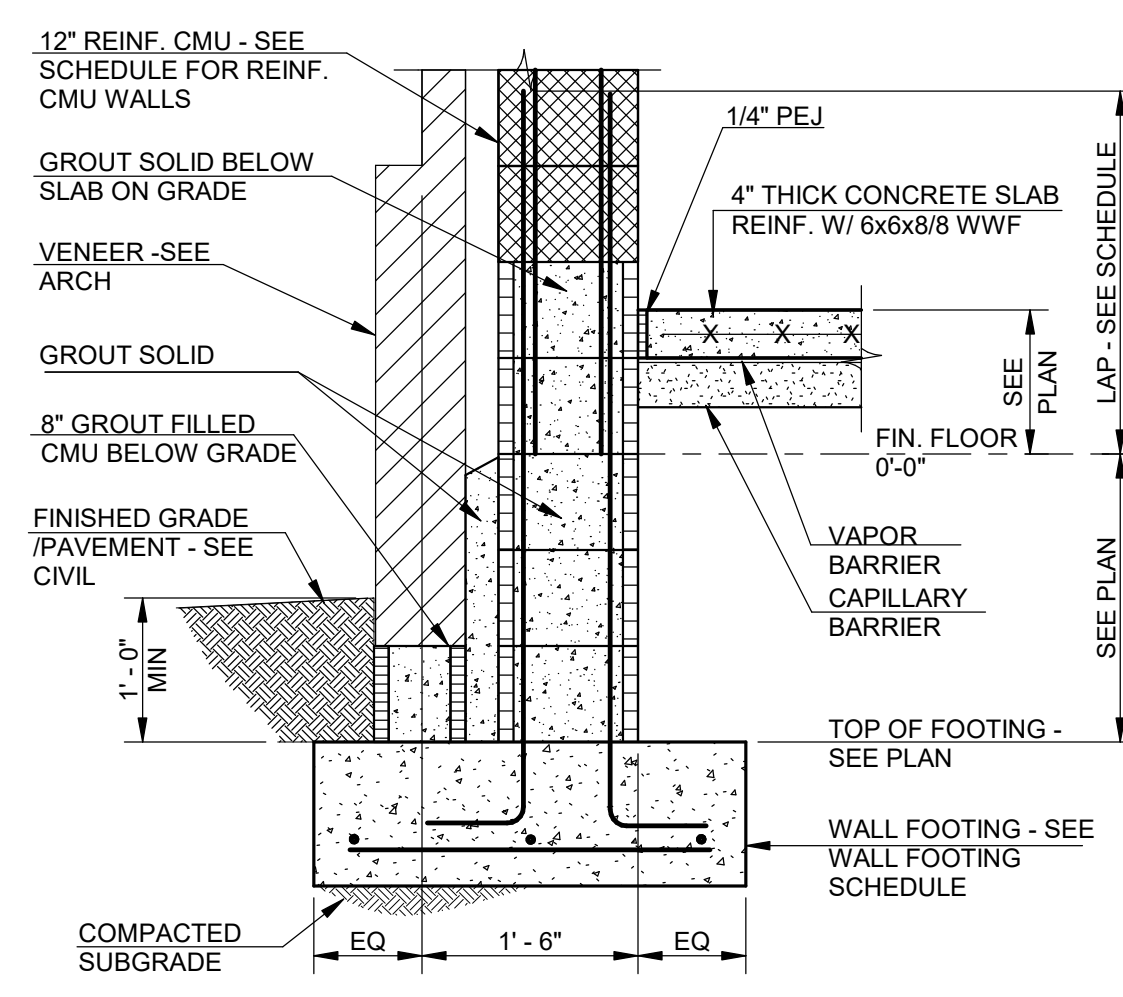
3/14/2022 11:01:30 AM



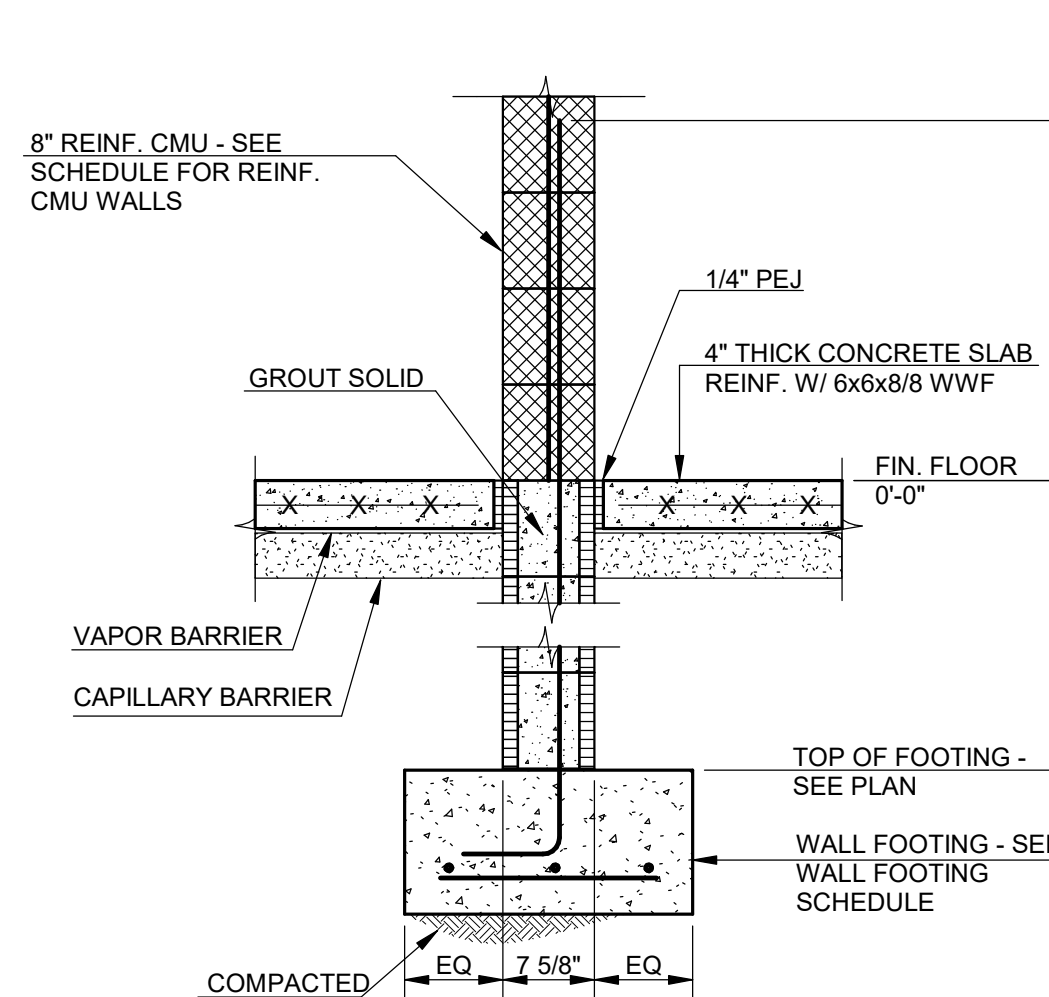
SECTION A  
3/4" = 1'-0"  
S1.01



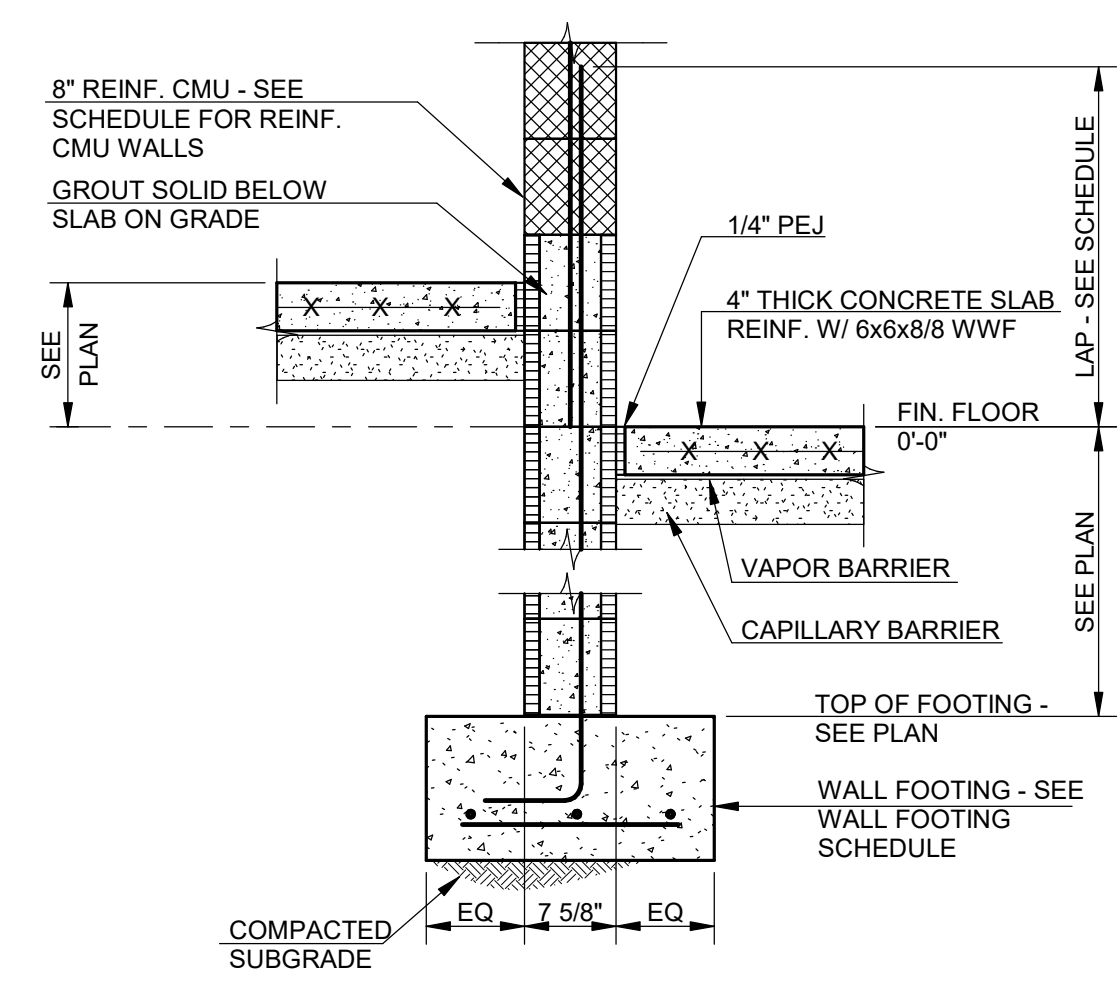
SECTION B  
3/4" = 1'-0"  
S1.01



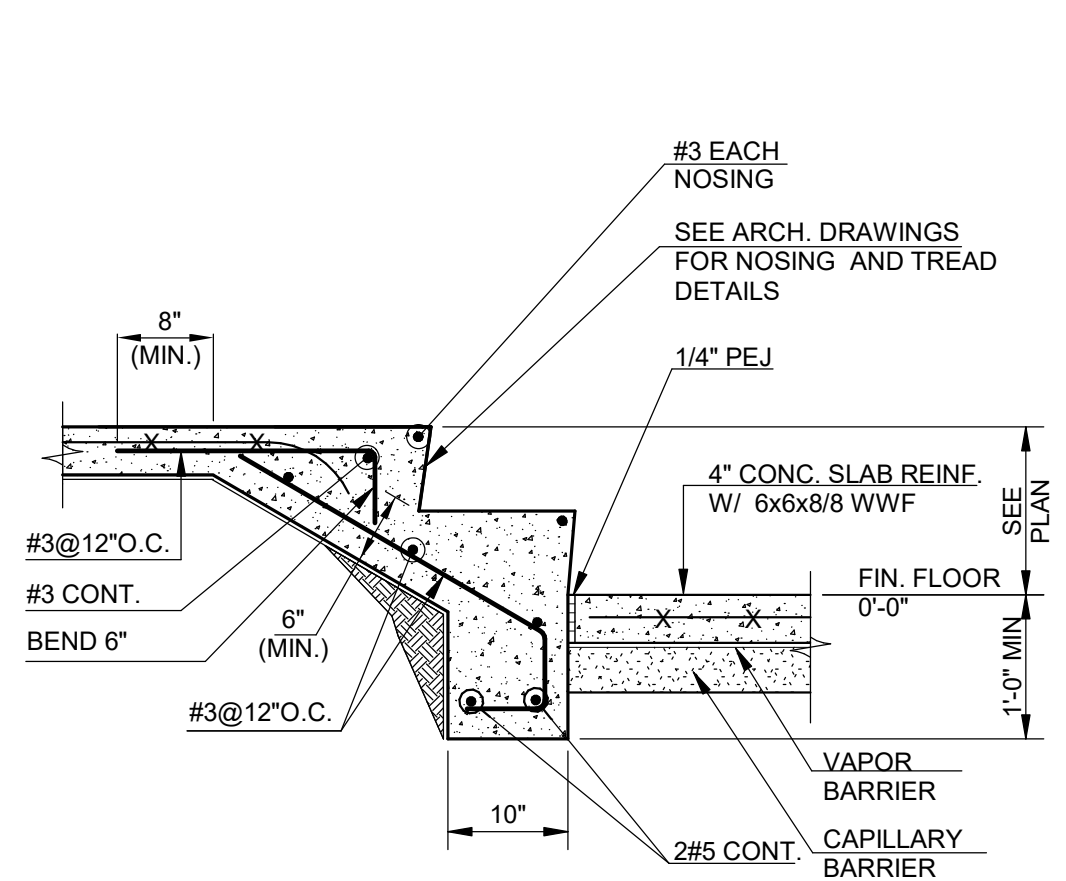
SECTION C  
3/4" = 1'-0"  
S1.01



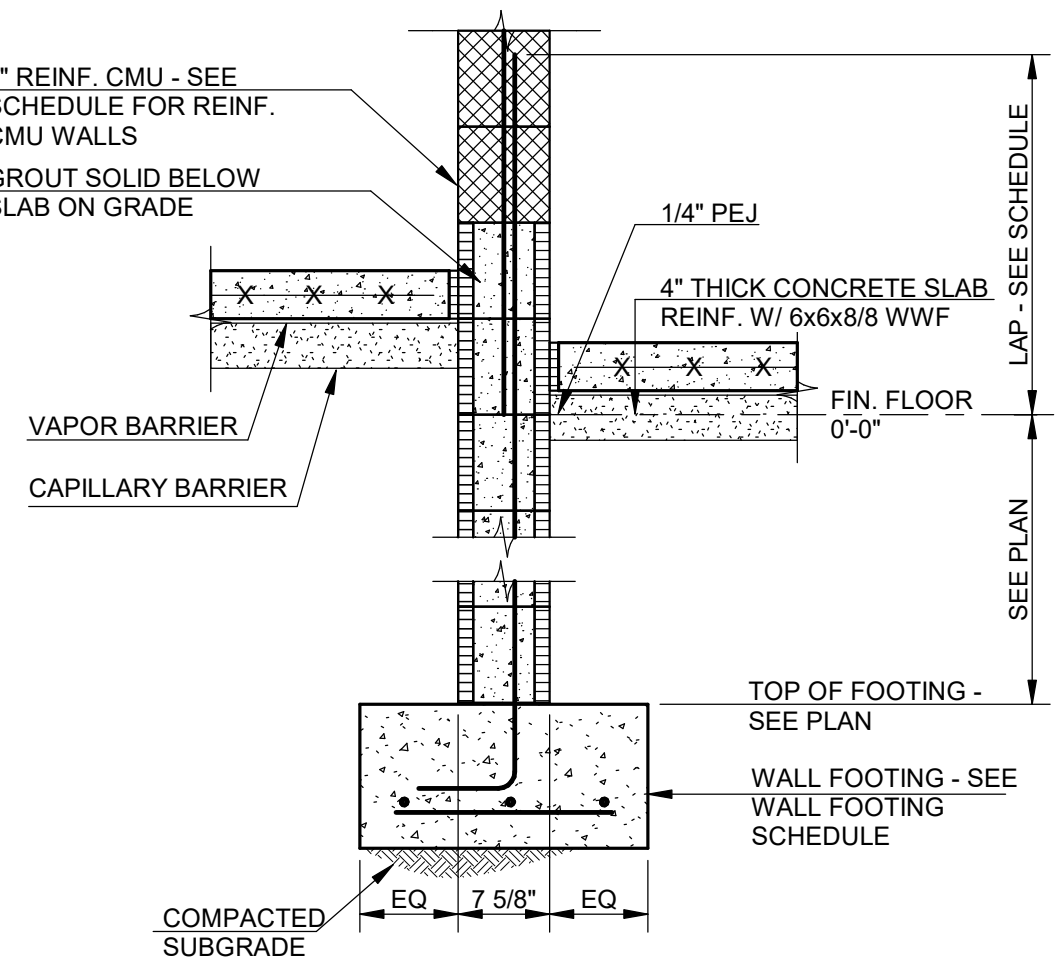
SECTION D  
3/4" = 1'-0"  
S1.01



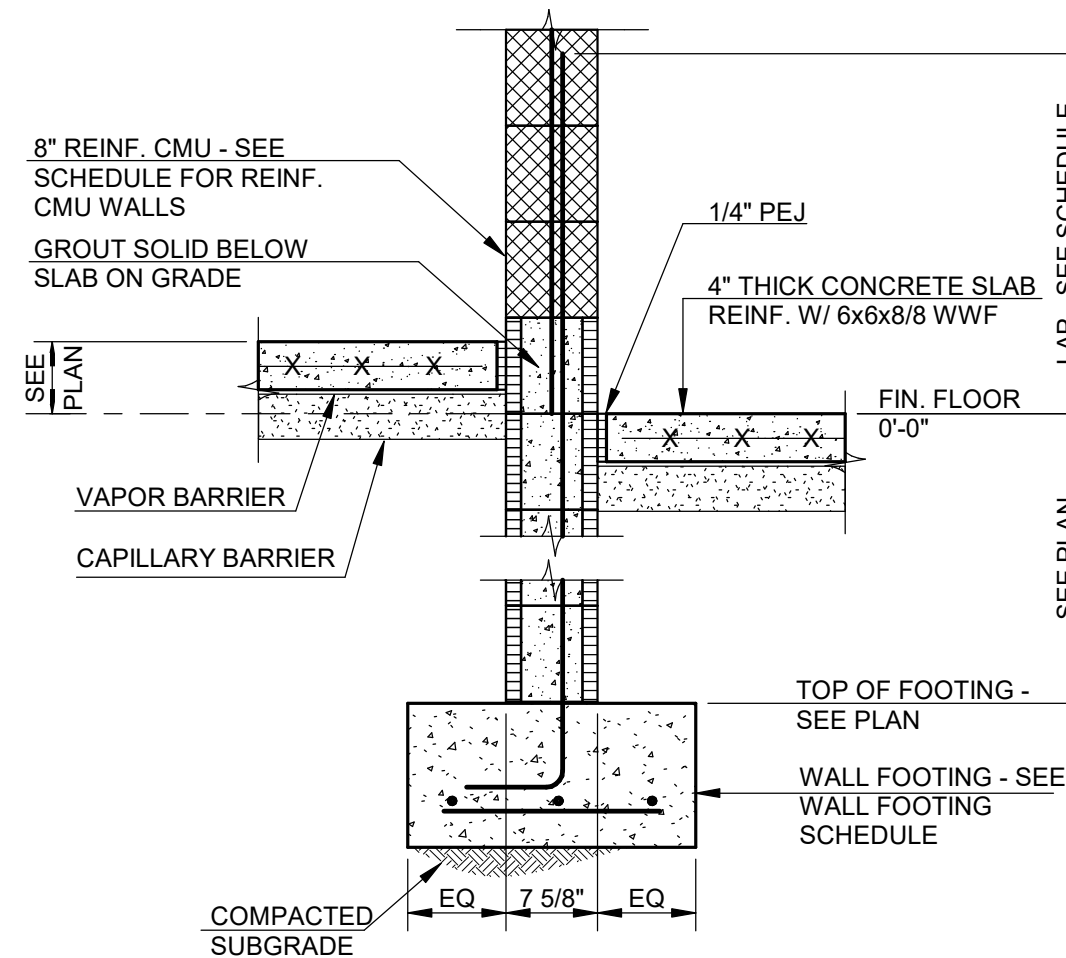
SECTION E  
3/4" = 1'-0"  
S1.01



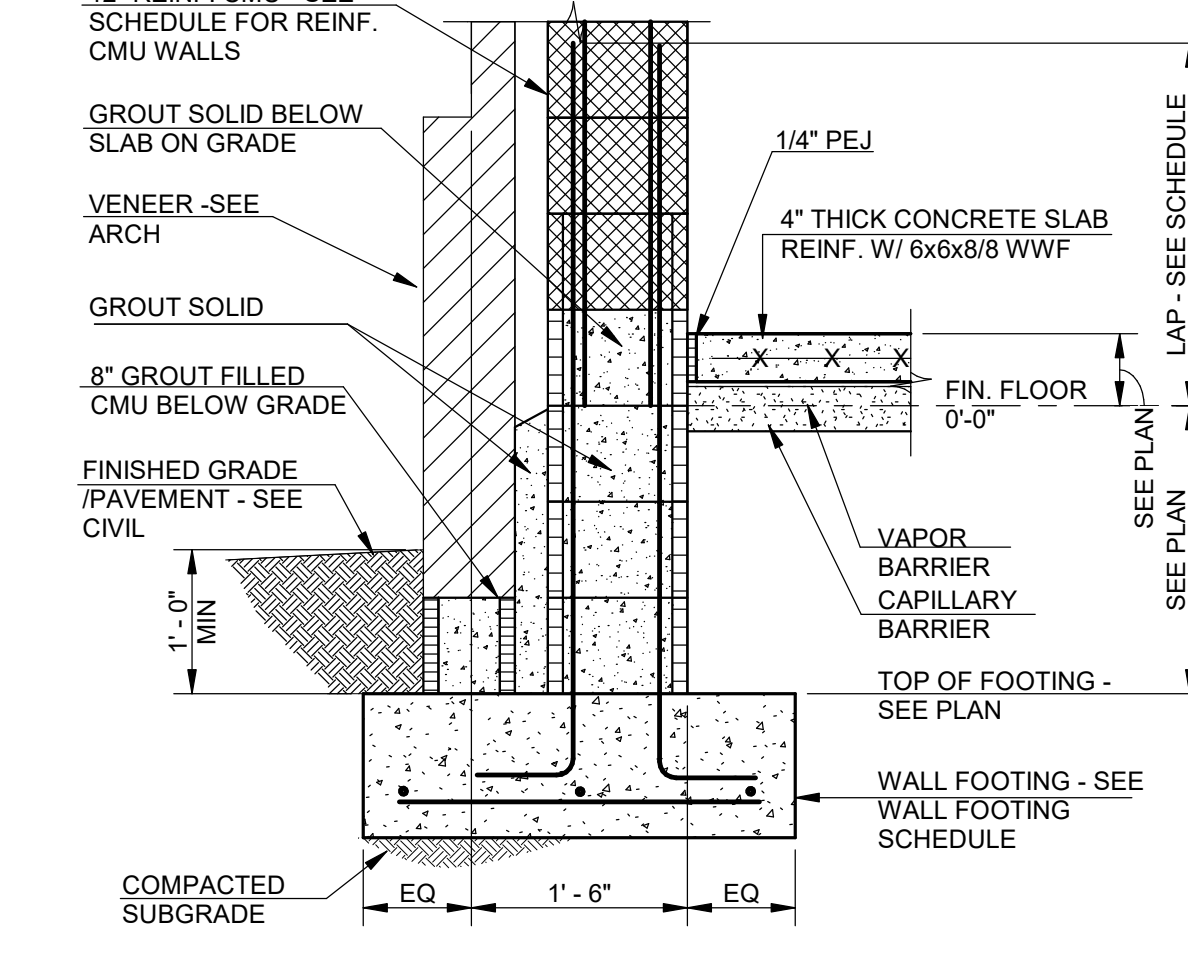
SECTION F  
3/4" = 1'-0"  
S1.01



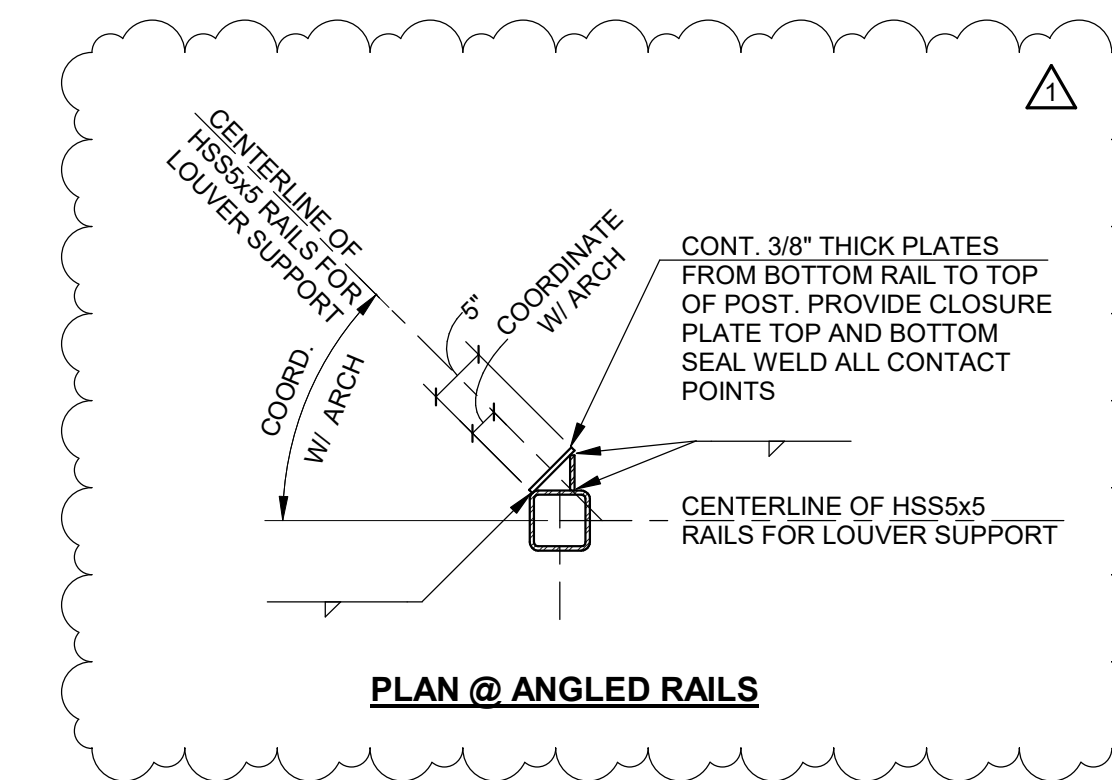
SECTION G  
3/4" = 1'-0"  
S1.01



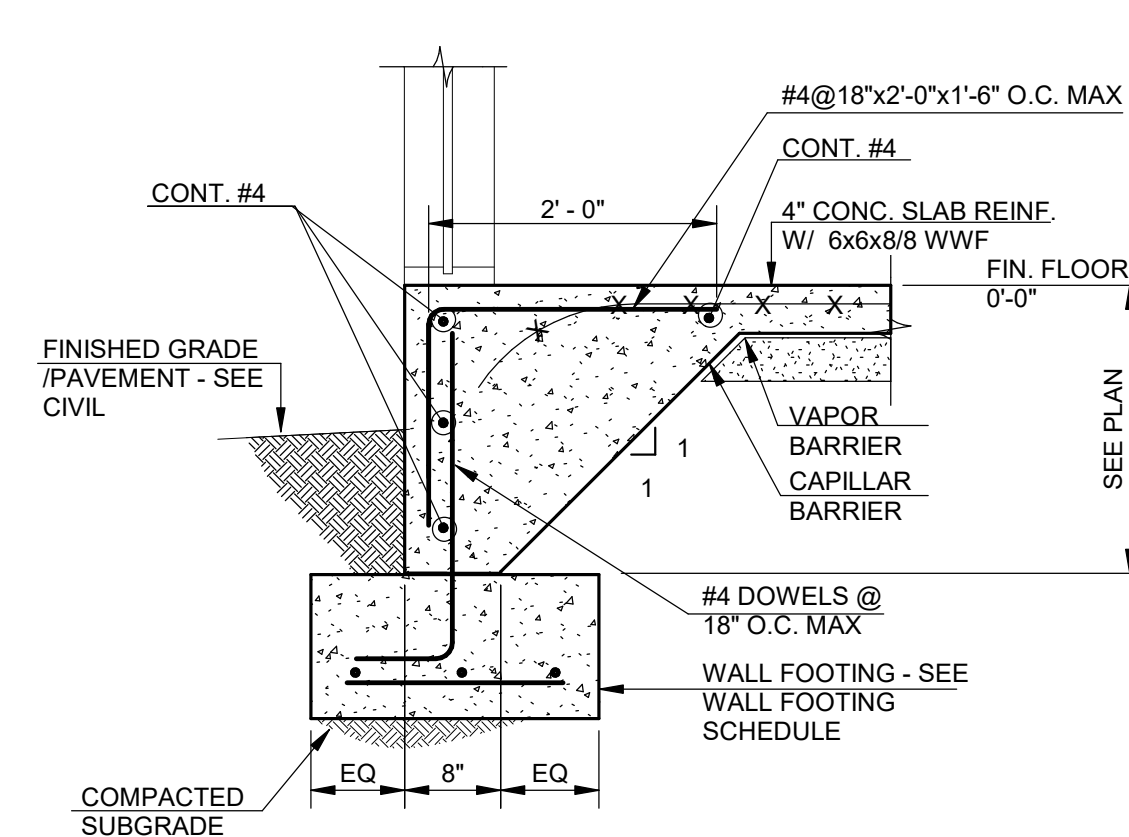
SECTION H  
3/4" = 1'-0"  
S1.01



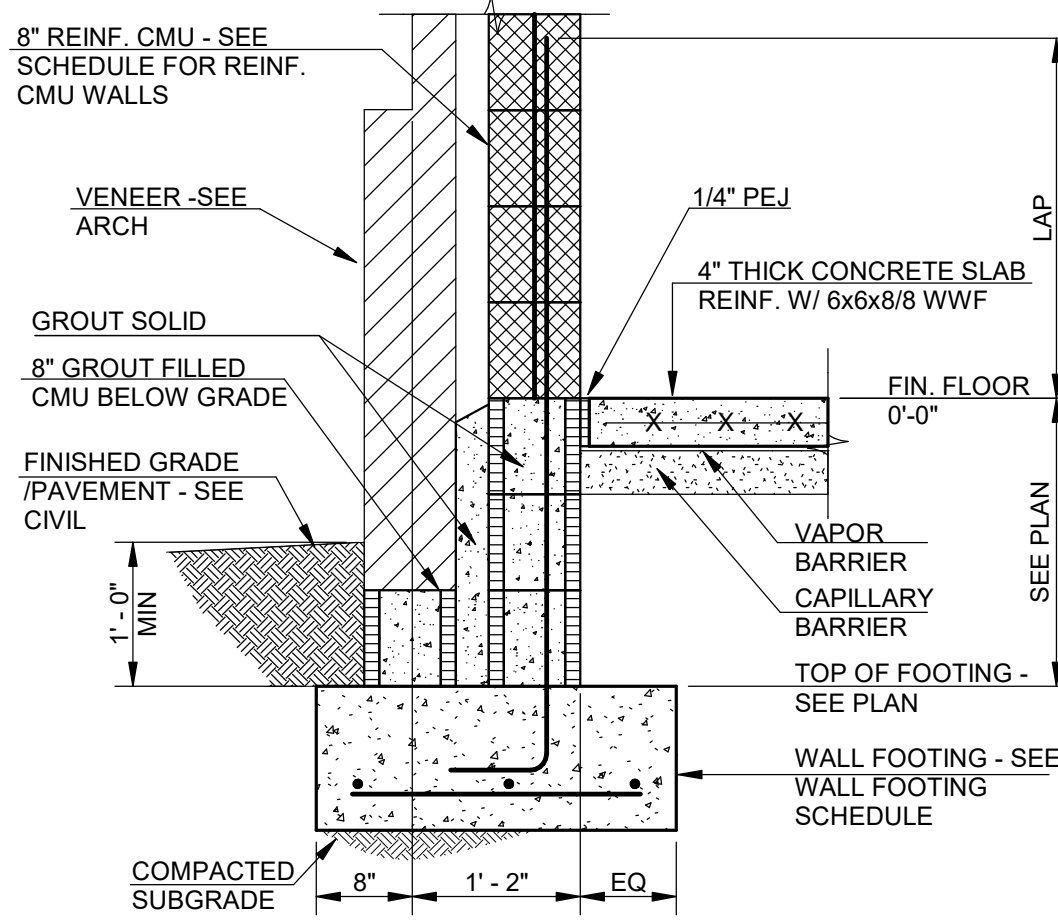
SECTION I  
3/4" = 1'-0"  
S1.01



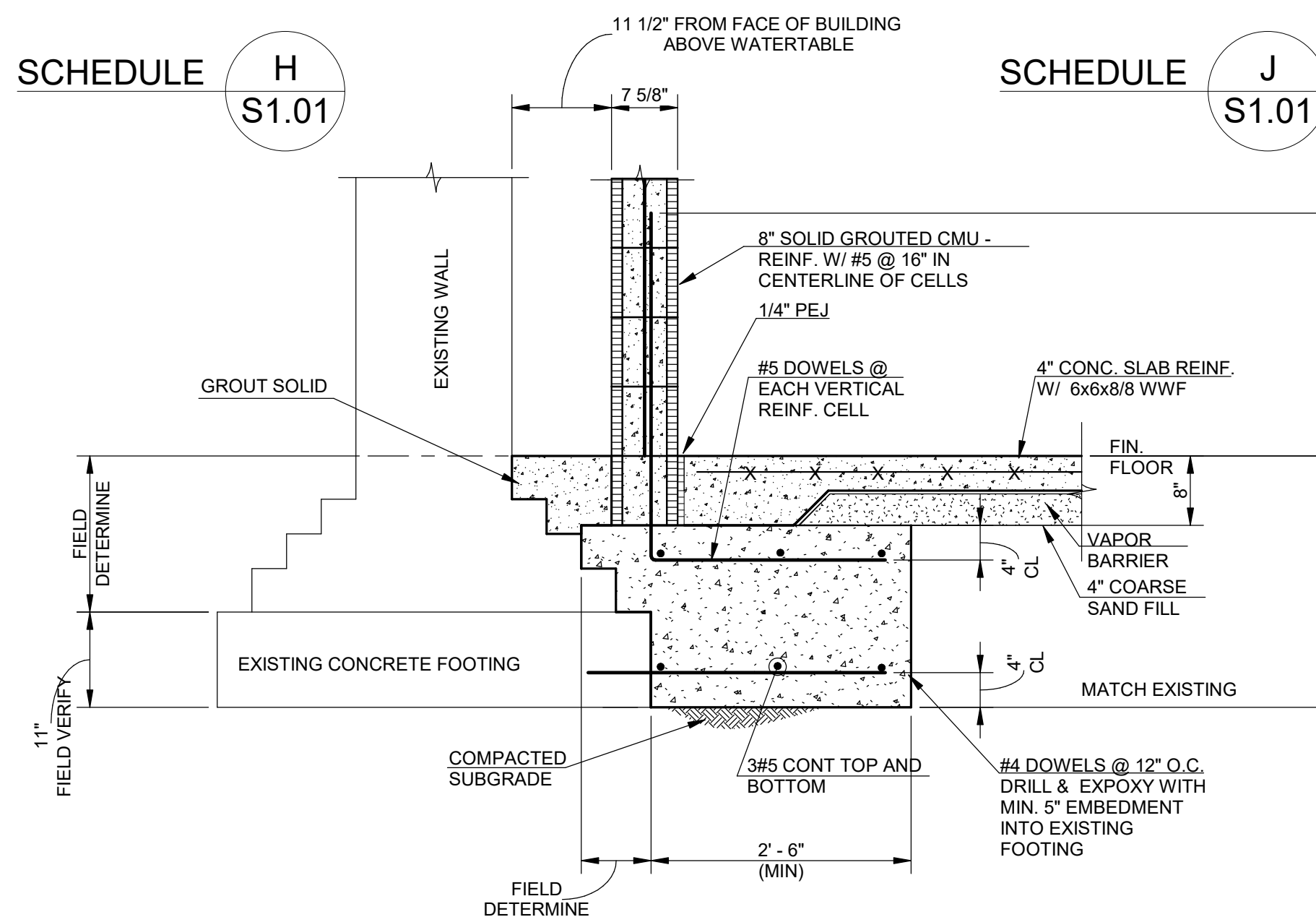
ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED - SEE STRUCTURAL STEEL NOTE 9 ON S0.01



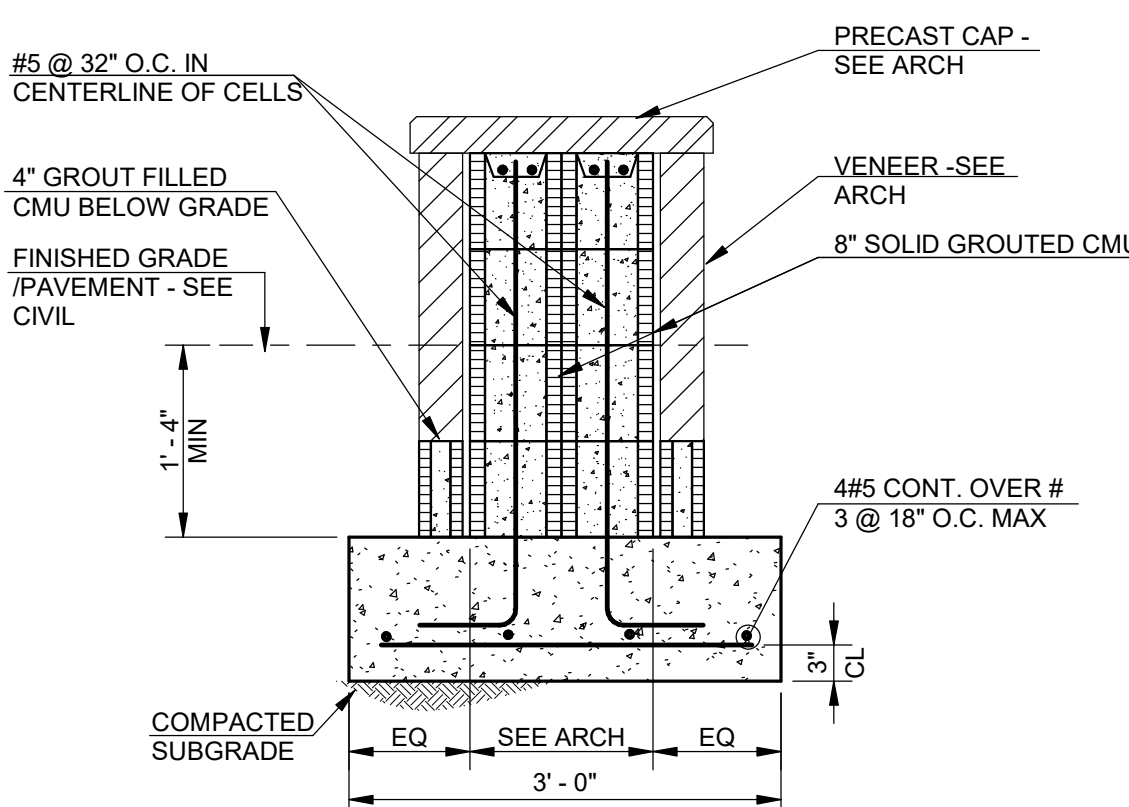
SECTION L  
3/4" = 1'-0"  
S1.01



SECTION M  
3/4" = 1'-0"  
S1.01

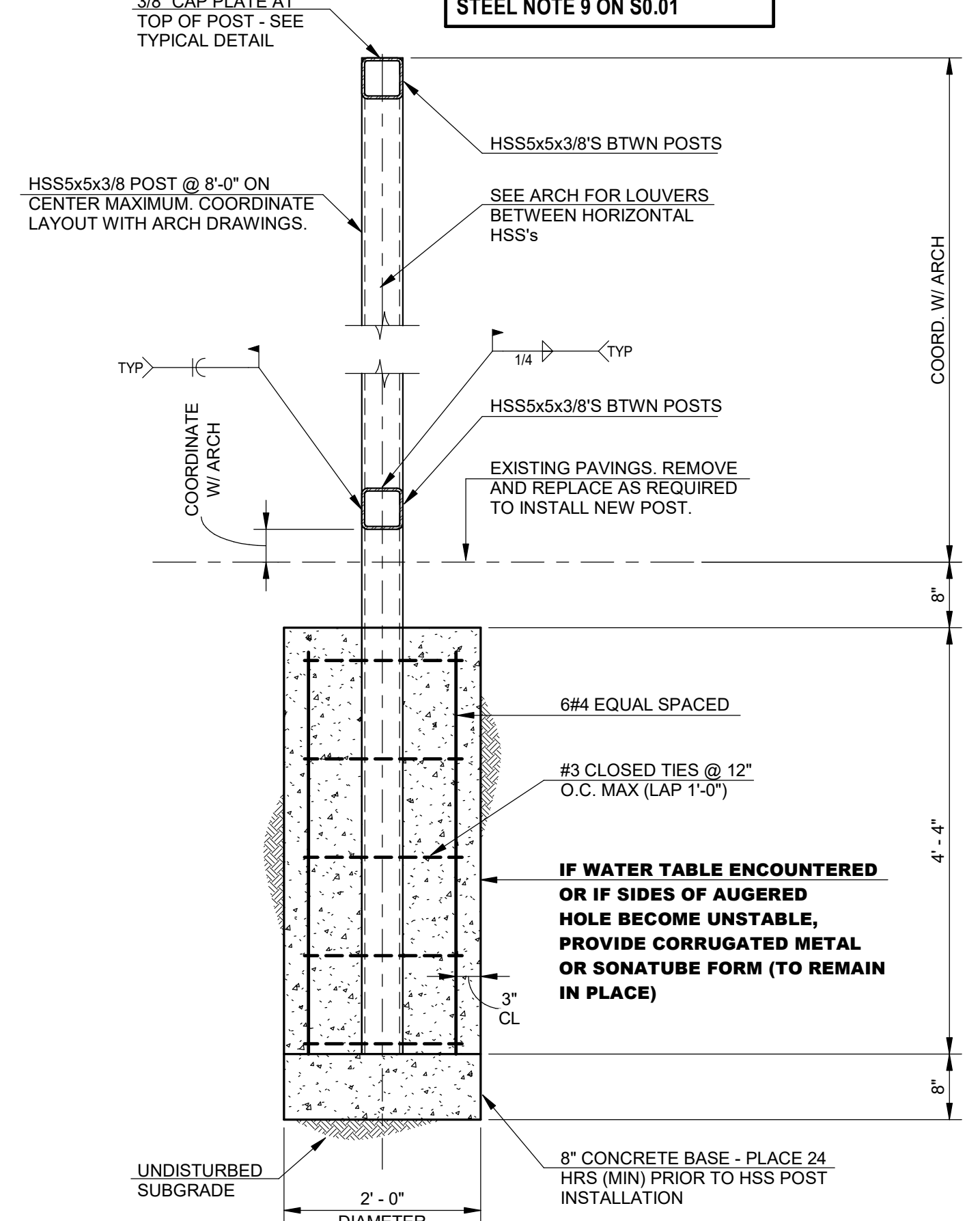


SCHEDULE H  
3/4" = 1'-0"  
S1.01



DETAIL AT PATIO BENCHES

SECTION P  
3/4" = 1'-0"  
S1.01



TYPICAL DETAIL AT MECHANICAL SCREEN WALL POSTS  
(COORDINATE NUMBER AND LAYOUT WITH ARCHITECTURAL DRAWINGS)

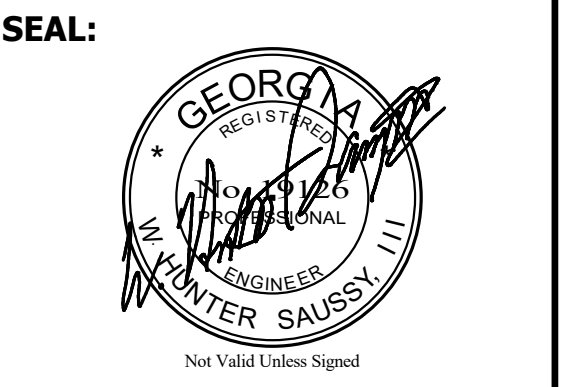
TYPICAL DETAIL K  
S1.01

**VOL. II SAVANNAH ARTS ACADEMY ADDITION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO #: C22-01

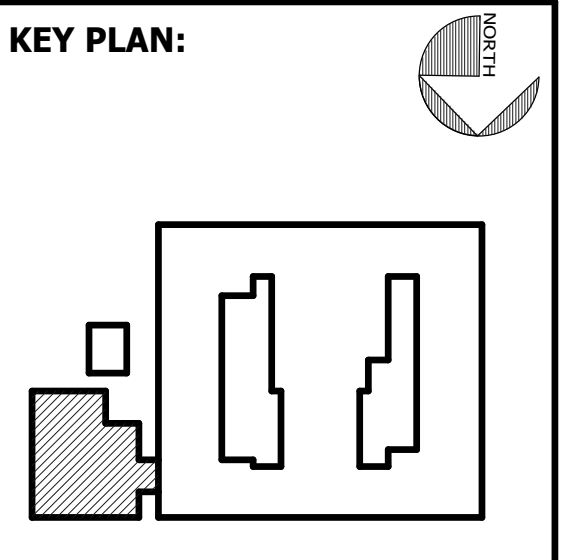
Cogdell Mendrala Architects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com



PROJECT CONSULTANTS:  
CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

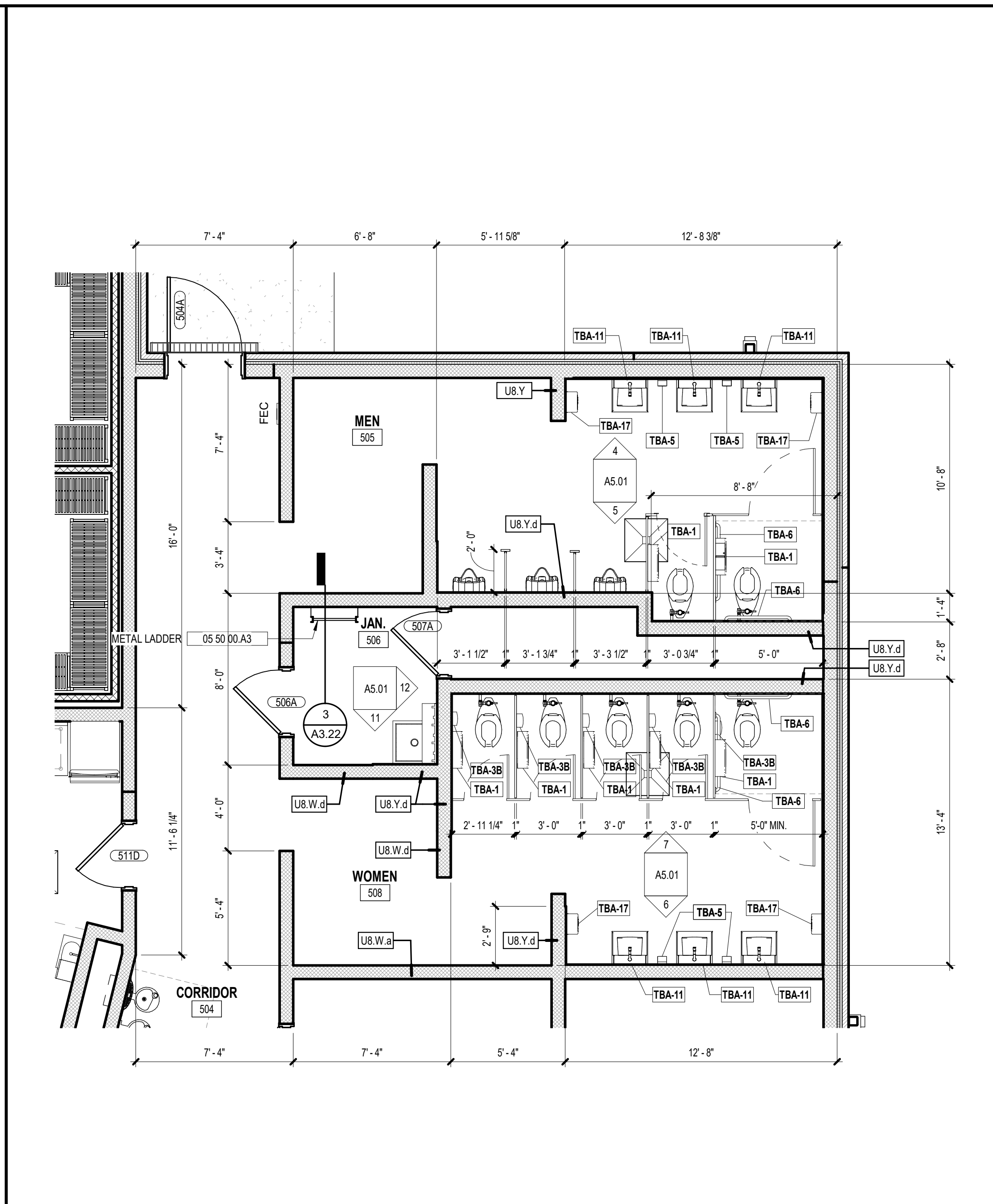
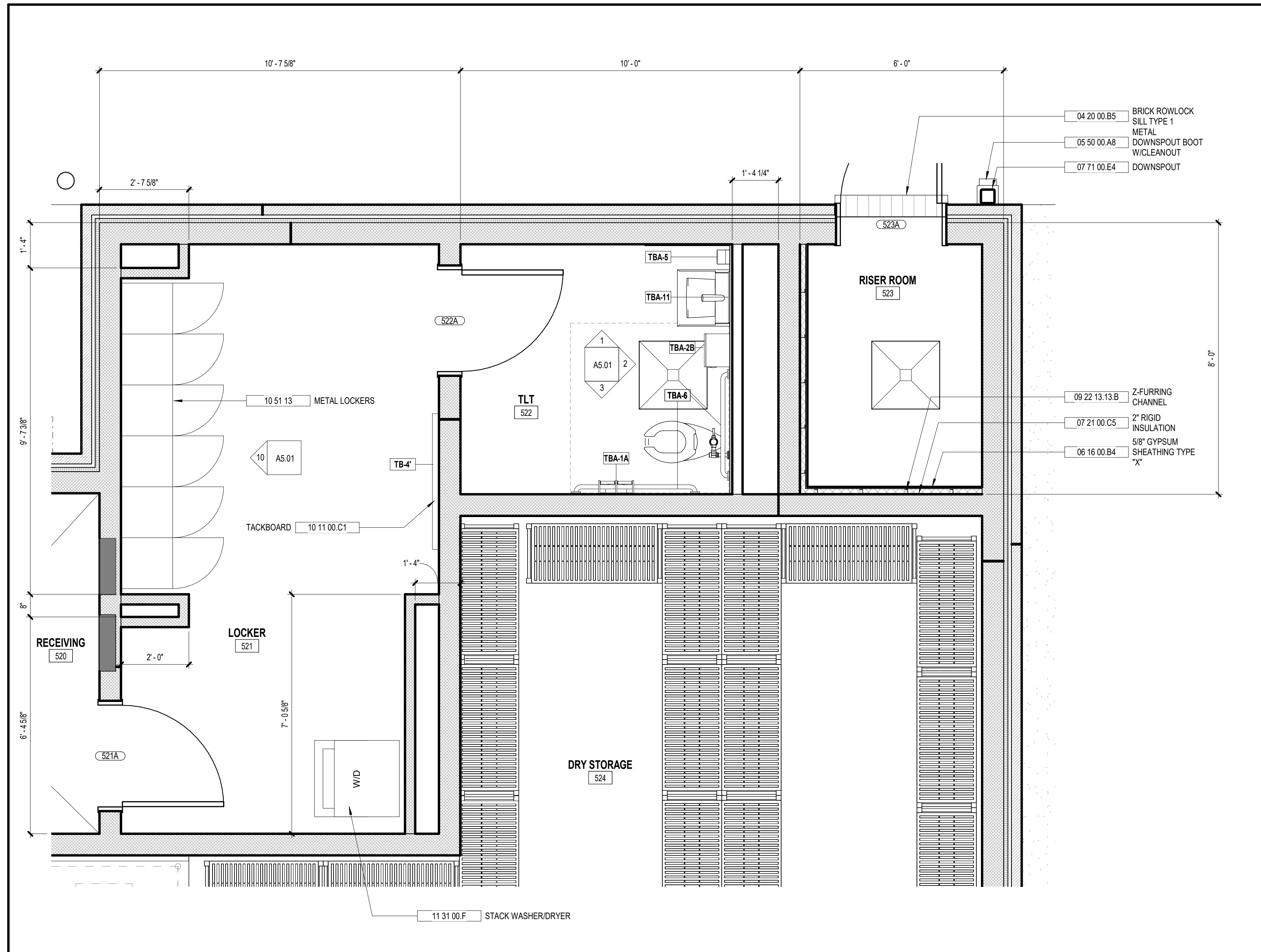


SHEET TITLE:  
**FOUNDATION SECTIONS**

REVISION SCHEDULE	
DATE	DESCRIPTION
3/14/2022	Addendum #1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: JCG  
SCALE: 3/4" = 1'-0"  
SHEET: **S1.01**

**SE SAUSSY ENGINEERING**  
400 Johnny Mercer Boulevard • Suite E  
P.O. Box 30597 • Savannah, Georgia 31410  
Phone: (912) 898-8255 • Fax: (912) 898-1882  
PROJECT NO. 20010



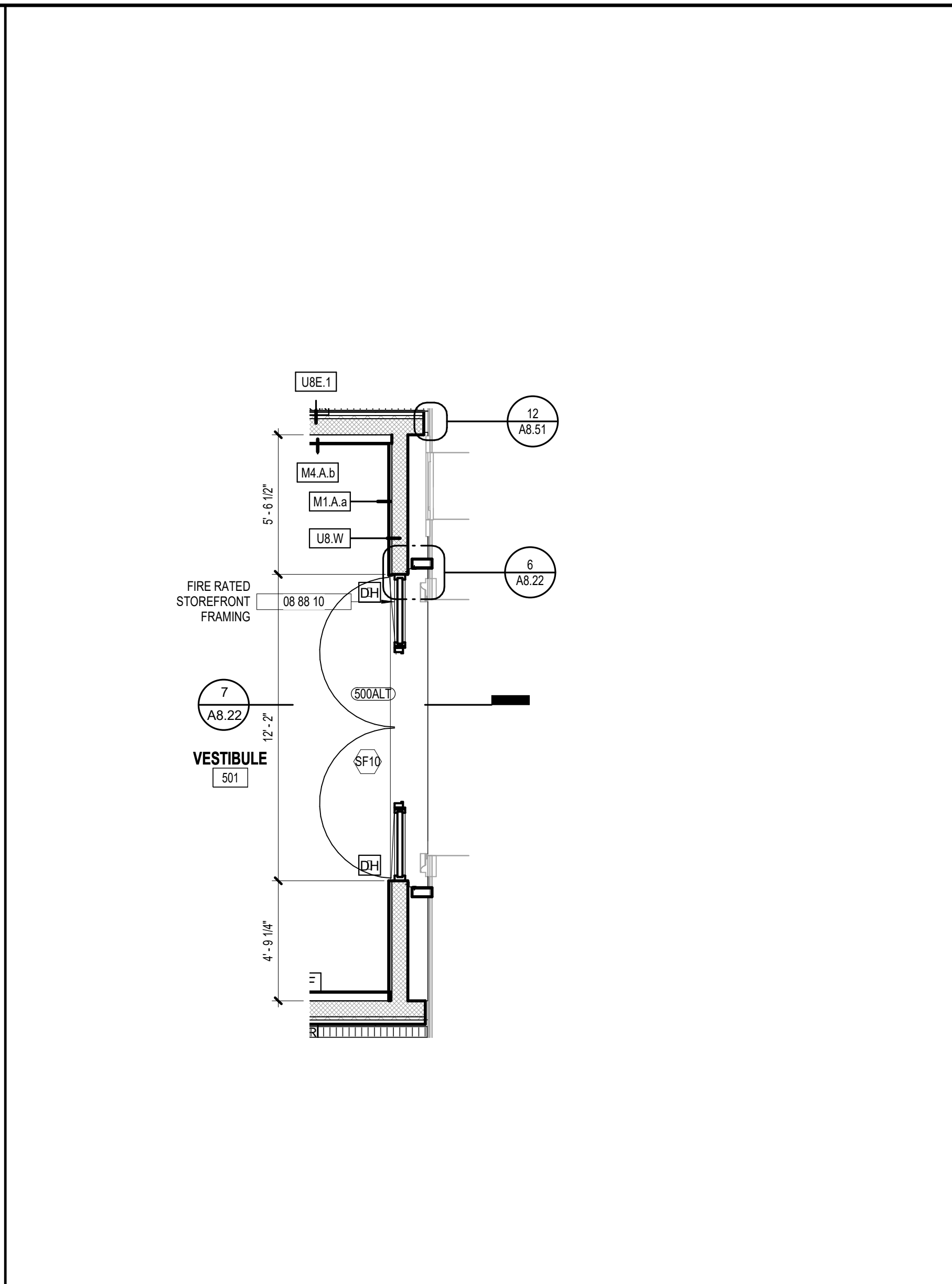
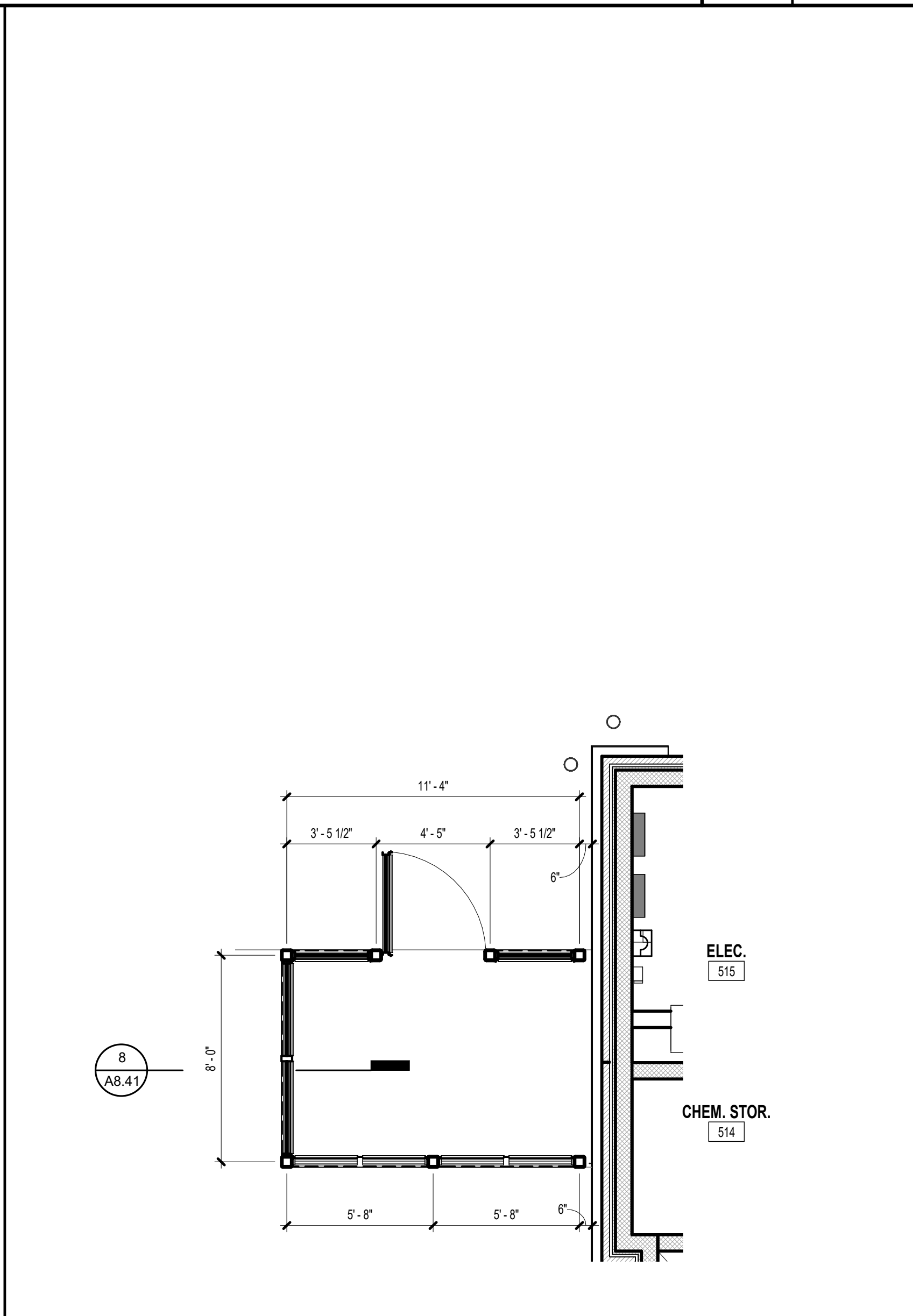
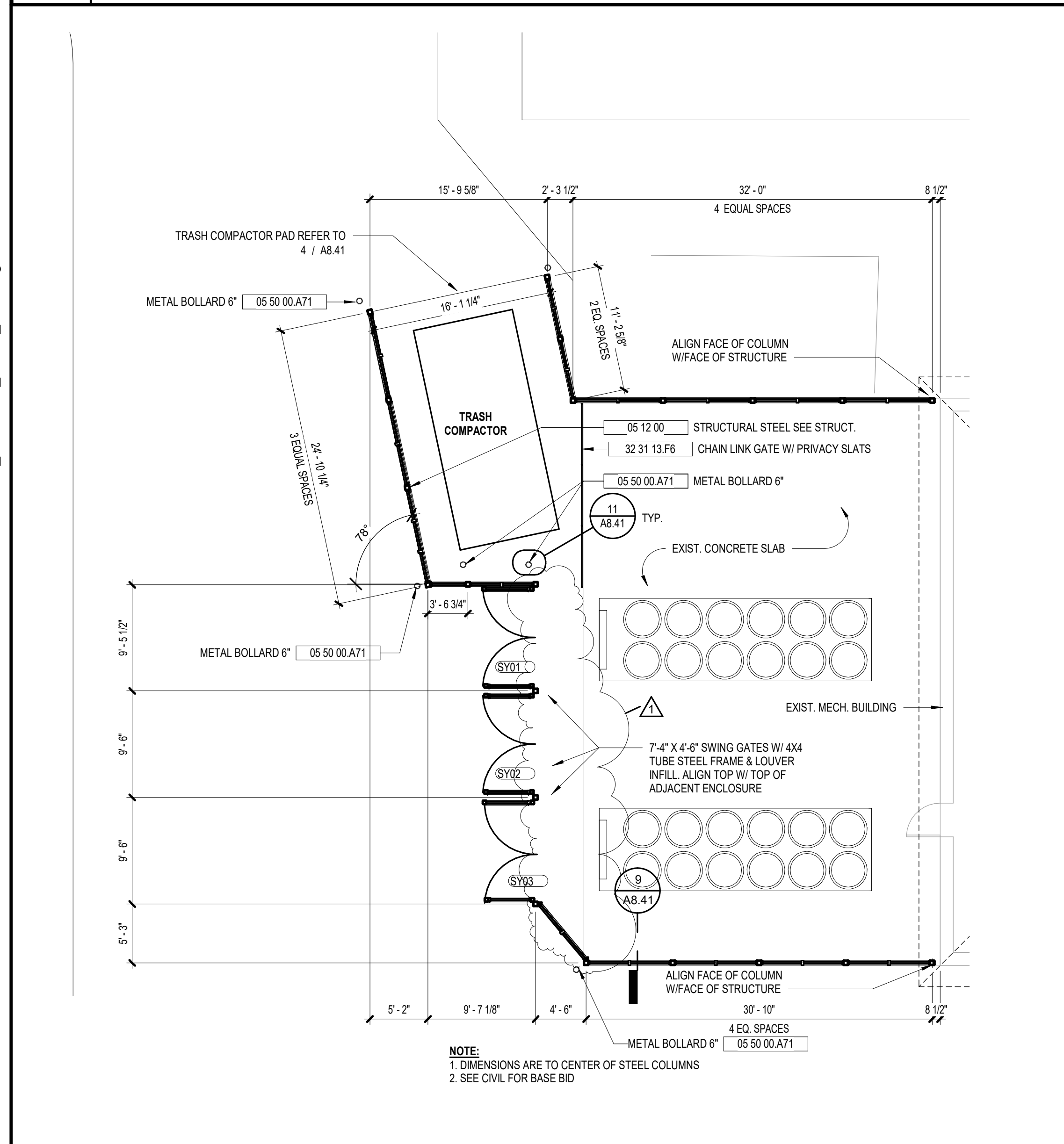
KEYNOTE LEGEND - BY SHEET	
NO.	NOTE
04 20 00 B5	BRICK ROWLOCK SILL TYPE 1
05 12 00	STRUCTURAL STEEL SEE STRUCT.
05 50 00 A3	METAL LADDER
05 50 00 A8	METAL DOWNSPOUT BOOT W/CLEANOUT
05 50 00 A71	METAL BOLLARD 6"
06 16 00 B4	5/8" GYPSUM SHEATHING TYPE "X"
07 21 00 C5	2" RIGID INSULATION
07 71 00 E4	DOWNSPOUT
08 88 10	FIRE RATED STOREFRONT FRAMING
09 22 13 B	Z-FURRING CHANNEL
10 11 00 C1	TACKBOARD
10 51 13	METAL LOCKERS
11 31 00 F	STACK WASHER/DRYER
32 31 13 F6	CHAIN LINK GATE W/ PRIVACY SLATS

GENERAL ENLARGED PLAN NOTES	
1	WHERE A NOTE/DETAIL IS SHOWN FOR ONE CONDITION IT SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS UNLESS NOTED OTHERWISE.
2	SEE LIFE SAFETY (LS) SHEET SERIES FOR LOCATION OF WALLS AND PARTITIONS TO PROVIDE FIRE OR SMOKE RESISTIVE SEPARATION.
3	SEE SHEET A02 FOR TYPICAL TOILET AND BATH ACCESSORY MOUNTING HEIGHTS AND GRAB BAR LAYOUTS.
4	SEE A2 SHEET SERIES FOR ADDITIONAL WALL TYPES.
5	SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION ON WALL FINISHES.
6	SEE FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT INFORMATION.
7	SEE PLUMBING DRAWINGS FOR TYPICAL PLUMBING FIXTURE MOUNTING HEIGHTS.
8	TOILET PAPER DISPENSERS MOUNTED ON HOPE STALL PARTITIONS ARE TO BE THRU-BOLTED WITH NON REMOVABLE HEADS BOTH SIDES (TYPICAL).
9	PROVIDE 32" MINIMUM CLEAR DOOR OPENING AT ALL ACCESSIBLE STALLS.
10	PROVIDE UNDERLAVATORY GUARDS AT WALL MOUNTED LAVATORIES IN SINGLE USER AND GROUP RESTROOMS.
11	SLOPE AREAS INDICATED TO FLOOR DRAINS AT 1/8" PER FOOT.

1 ENLARGED LOCKER/TLT.  
A4.03 1/2" = 1'-0"

2 ENLARGED GROUP RESTROOMS  
A4.03 1/4" = 1'-0"



3 MECHANICAL YARD ENCLOSURE (ADD. ALT.)  
A4.03 1/8" = 1'-0"

4 RECYCLING ENCLOSURE (ADD. ALT.)  
A4.03 1/4" = 1'-0"

5 RATED OPENING AT VESTIBULE (ADD. ALT.)  
A4.03 1/4" = 1'-0"

TBA LEGEND	
TBA-1	TOILET TISSUE DISPENSER
TBA-1A	TOILET TISSUE DISPENSER
TBA-2	PAPER TOWEL DISPENSER
TBA-2A	PAPER TOWEL DISPENSER
TBA-3	SANITARY NAPKIN DISPOSAL UNIT
TBA-4	VENDOR
TBA-5	SOAP DISPENSER
TBA-6	GRAB BAR
TBA-7	NOT USED
TBA-8	NOT USED
TBA-9	NOT USED
TBA-10	NOT USED
TBA-11	MIRROR UNIT
TBA-12	NOT USED
TBA-13	NOT USED
TBA-14	NOT USED
TBA-15	NOT USED
TBA-16	ROBE HOOK
TBA-17	HAND DRYER
TBA-18	DIAPER CHANGING STATION
TBA-19	NOT USED
TBA-20	MOP RACK WITH SHELF

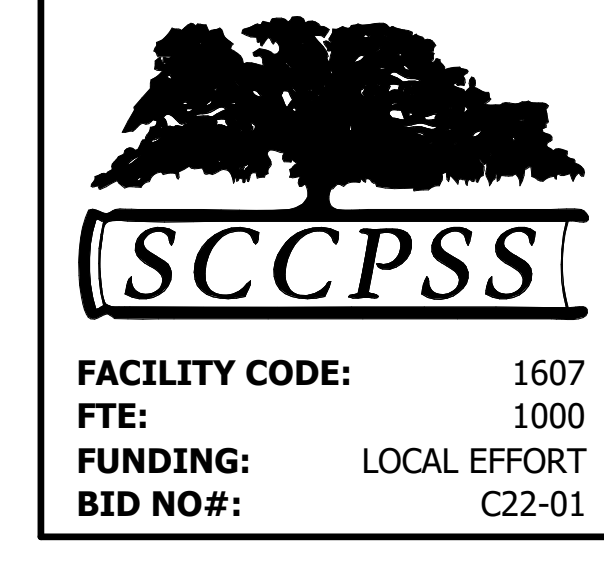
REVISION SCHEDULE	
DATE	DESCRIPTION
3/14/22	ADD. NO. 1
FEB 2022	PERMIT/GMP

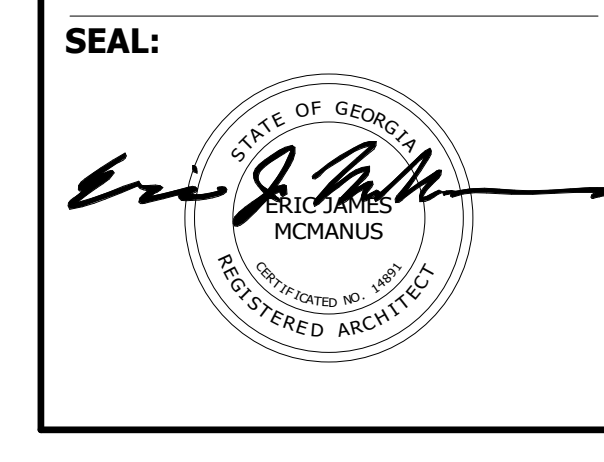
PROJECT NO:	1916
DATE:	FEB 2022
DRAWN BY:	RML/TLC
SCALE:	As Indicated

**SHEET: A4.03**

**VOL. II SAVANNAH ARTS ACADEMY ADDITION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



Cogdell Mendrala Architects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

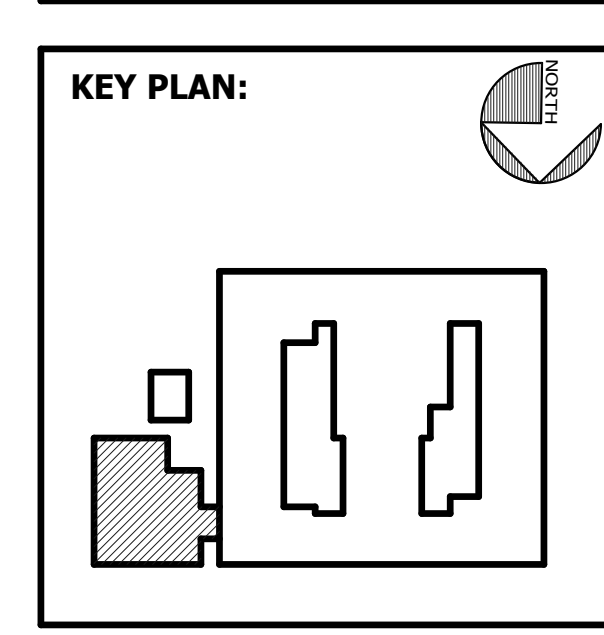


**PROJECT CONSULTANTS:**

CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406



**SHEET TITLE:**  
ENLARGED PARTIAL FLOOR PLANS

D:\Users\Rudolf\Documents\1916 SAA CAFE\_RVT\_2019\_ARCH\_rudolf.rvt 3/14/2022 1:04:27 PM

DOOR NO	FROM ROOM	TO ROOM	CONFIG	DOOR				GLAZING	HARDWARE SET	LABEL	FRAME			HEAD DETAIL	JAMB DETAIL	SILL DETAIL	REMARKS	
				SIZE		TYPE	PANEL				TYPE	MATERIAL	FINISH					
				HEIGHT	WIDTH		MATERIAL											FINISH
500A	VESTIBULE	VESTIBULE	AI	7'-0"	6'-0"	N	Wood	WBS	LG-1	12.0	None	HM1	Hollow Metal	Painted	9/A8.10	7/A8.10		
500B	VESTIBULE	VESTIBULE	AI	7'-0"	6'-0"	AL2	Aluminum	Anodized	IRG-1	4.0	None	SF1	Aluminum	Painted	SEE SF ELEV.	SEE SF ELEV.	SEE SF ELEV.	
500C	VESTIBULE	DINING - CIRCULATION	AI	7'-0"	6'-0"	AL2	Aluminum	Anodized	IRG-1	10.0	None	SF2	Aluminum	Painted	SEE SF ELEV.	SEE SF ELEV.	SEE SF ELEV.	
500D	VESTIBULE		AI	7'-0"	6'-0"	AL2	Aluminum	Anodized	IRG-1	4.0	None	SF1	Aluminum	Painted	SEE SF ELEV.	SEE SF ELEV.	SEE SF ELEV.	
500A	DINING CIRCULATION		AI	7'-0"	6'-4"	AL2	Aluminum	Anodized	IRG-1	4.0	None	SF7	Aluminum	Painted	SEE SF ELEV.	SEE SF ELEV.	SEE SF ELEV.	
504A	CORRIDOR		SG	7'-0"	3'-6"	G	Hollow Metal	Painted	--	11.0	None	HM1	Hollow Metal	Painted	9/A8.10	5/A8.10	4/A8.10	
506A	JAN.	CORRIDOR	SG	7'-0"	3'-0"	F	Hollow Metal	Painted	--	12.0	None	HM1	Hollow Metal	Painted	9/A8.10	10/A8.10	--	
507A	CHASE		SG	7'-0"	3'-0"	F	Hollow Metal	Painted	--	12.0	None	HM1	Hollow Metal	Painted	9/A8.10	10/A8.10	--	
508A	IBF	CORRIDOR	SG	7'-0"	3'-0"	F	Hollow Metal	Painted	--	13.0	None	HM1	Hollow Metal	Painted	9/A8.10	10/A8.10	--	
510A	TABLE & CHAIR STORAGE	CORRIDOR	AI	7'-0"	6'-0"	F	Hollow Metal	Painted	--	15.0	None	HM1	Hollow Metal	Painted	9/A8.10	10/A8.10	--	
511A	SERVING	DINING CIRCULATION	AI	12'-0"	9'-4"	OCG								1/A8.10	2/A8.10	--		
511B	SERVING	DINING CIRCULATION	AI	12'-0"	9'-4"	OCG								1/A8.10	2/A8.10	--		
511C	SERVING	DINING CIRCULATION	AI	12'-0"	9'-4"	OCG								1/A8.10	2/A8.10	--		
511D	CORRIDOR		SG	7'-0"	3'-0"	F	Hollow Metal	Painted	--	16.0	None	HM1	Hollow Metal	Painted	9/A8.10	10/A8.10	--	
512A	DISHWASHING	DINING CIRCULATION	SG	7'-0"	4'-0"	F	Hollow Metal	Painted	--	17.0	None	HM1	Hollow Metal	Painted	9/A8.10	10/A8.10	--	
514A	CHEM. STOR.	FOOD PREP	SG	7'-0"	3'-0"	F	Hollow Metal	Painted	--	18.0	None	HM1	Hollow Metal	Painted	9/A8.10	10/A8.10	--	
515A		ELEC.	SG	7'-0"	3'-0"	F	Hollow Metal	Painted	--	14.0	None	HM1	Hollow Metal	Painted	3/A8.10	5/A8.10	8/A8.10	
517A	FOOD PREP	OFFICE	SG	7'-0"	3'-0"	G	Wood	WBS	LG-1	19.0	None	HM2	Hollow Metal	Painted	9/A8.10	10/A8.10	12/A8.10	
518A	FOOD PREP	OFFICE	SG	7'-0"	3'-0"	G	Wood	WBS	LG-1	19.0	None	HM2	Hollow Metal	Painted	9/A8.10	10/A8.10	12/A8.10	
519A	RECEIVING	OFFICE	SG	7'-0"	3'-0"	G	Wood	WBS	LG-1	19.0	None	HM3	Hollow Metal	Painted	9/A8.10	10/A8.10	12/A8.10	
519B	OFFICE	FOOD PREP	BL	3'-10"	6'-0"	--	None	--	LG-1	None	None	HM4	Hollow Metal	Painted	11/A8.10	12/A8.10	12/A8.10	
520A	RECEIVING		SG	7'-0"	3'-6"	G	Hollow Metal	Painted	IRG-1	11.0	None	HM1	Hollow Metal	Painted	3/A8.10	5/A8.10	4/A8.10	
521A	RECEIVING	LOCKER	SG	7'-0"	3'-0"	F	Hollow Metal	Painted	--	20.0	None	HM1	Hollow Metal	Painted	9/A8.10	10/A8.10	--	
522A	LOCKER	TLT	SG	7'-0"	3'-0"	F	Hollow Metal	Painted	--	21.0	None	HM1	Hollow Metal	Painted	9/A8.10	10/A8.10	--	
523A	RISER ROOM		SG	7'-0"	3'-0"	F	Hollow Metal	Painted	--	14.0	None	HM1	Hollow Metal	Painted	3/A8.10	5/A8.10	8/A8.10	
524A	FOOD PREP	DRY STORAGE	SG	7'-0"	3'-6"	F	Hollow Metal	Painted	--	22.0	None	HM1	Hollow Metal	Painted	11/A8.10	10/A8.10	--	
530C	DINING - NORTH		AI	7'-4"	7'-0"	AL2	Aluminum	Anodized	IRG-1	4.0	None	SF7	Aluminum	Painted	SEE SF ELEV.	SEE SF ELEV.	SEE SF ELEV.	

DOOR SCHEDULE ADD ALTERNATE

DOOR NO	FROM ROOM	TO ROOM	CONFIG	DOOR				GLAZING	HARDWARE SET	LABEL	FRAME			HEAD DETAIL	JAMB DETAIL	SILL DETAIL	REMARKS	
				SIZE		TYPE	PANEL				TYPE	MATERIAL	FINISH					
				HEIGHT	WIDTH		MATERIAL											FINISH
500ALT	VESTIBULE	VESTIBULE		7'-0"	6'-0"													

KEYNOTE LEGEND - BY SHEET

NO.	NOTE
12 21 13 B	HORIZONTAL LOUVER BLINDS (HLB)

GENERAL DOOR NOTES

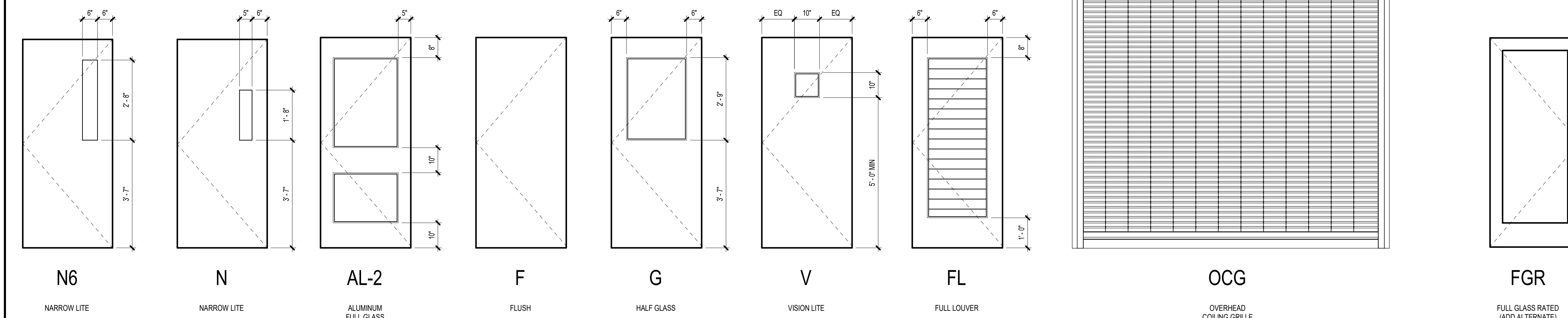
- SEE FLOOR PLANS AND ELEVATIONS FOR DOOR LOCATIONS AND FRAME LOCATIONS.
- OVERALL HORIZONTAL AND VERTICAL FRAME DIMENSIONS ARE TO MASONRY OPENINGS.
- VIEW LITES IN ALL NON-LABELLED INTERIOR DOORS SHALL BE LAMINATED CLEAR SAFETY GLASS, UNLESS NOTED OTHERWISE.
- VIEW LITES IN ALL FIRE RATED DOORS SHALL BE FIRE RATED GLASS, UNLESS NOTED OTHERWISE.
- EXTERIOR WINDOW AND STOREFRONT FRAMING SHALL BE PROVIDED WITH TEMPERED, LOW-E INSULATING GLASS UNITS, UNLESS NOTED OTHERWISE.
- INTERIOR WINDOW AND BORROW LIGHTS SHALL BE PROVIDED WITH LAMINATED CLEAR GLASS, UNLESS NOTED OTHERWISE.
- SEE FRAME ELEVATIONS FOR SILL HEIGHTS, AFF.
- CENTERLINE OF ALL EXIT DEVICES SHALL BE 37" AFF, UNLESS NOTED OTHERWISE.
- SILL PANS SHALL BE PROVIDED UNDER ALL EXTERIOR WINDOWS AND STOREFRONT NOT SITTING DIRECTLY ON FLOOR SLAB. WINDOWS AND STOREFRONT SITTING DIRECTLY ON FLOOR SLAB SHALL BE SET ON MANUFACTURER'S SUBSILL, SET IN FULL BED OF SEALANT.
- WHERE HORIZONTAL LOUVER BLINDS (HLB) ARE SCHEDULED AT TYPE "G" DOORS, INSTALL AT DOOR LIGHT AND SIDE LITE, WHERE APPLICABLE.
- HORIZONTAL LOUVER BLINDS (HLB) AND ELECTRIC ROLLER WINDOW SHADES (ERWS) INSTALLED AT STOREFRONT WINDOW OPENINGS WHERE NOTED.
- PROVIDE CONDUIT FOR POWER AT ALL EXTERIOR DOORS FOR ACCESS CONTROL AND/OR DOOR POSITION SWITCHES. EXCEPT WHERE NOTED ELSEWHERE, ACCESS CONTROL DEVICES WILL BE INSTALLED BY OWNER.
- BRICK LITE/ ANGLE SHALL BE PAINTED.
- ALL NAILERS AND BLOCKING USED WITH MASONRY, CONCRETE OR METAL SHALL BE PRESSURE TREATED.

DOOR ABBREVIATIONS

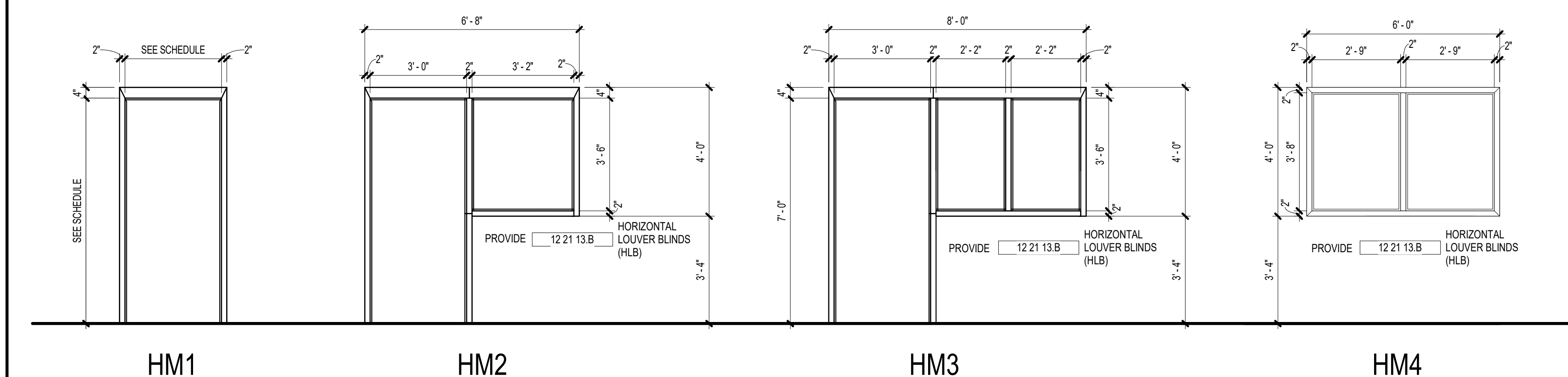
- AA ACTIVE/ACTIVE LEAF CONFIGURATION
- AL ACTIVE/INACTIVE LEAF CONFIGURATION
- BL BORROWED LITE
- SG SINGLE LEAF CONFIGURATION
- WBS WHITE BIRCH STAINED
- HPOF HIGH PERFORMANCE ORGANIC FINISH

GLAZING LEGEND

- TFG 08 80 00 CLEAR FULLY TEMPERED FLOAT GLASS
- LG-1 08 80 00 CLEAR LAMINATED FULLY TEMPERED FLOAT GLASS
- IRG-1 08 80 00 TEMPERED, LOW-E COATED CLEAR INSULATING GLASS
- FRG 08 88 13 FIRE RESISTANT GLASS

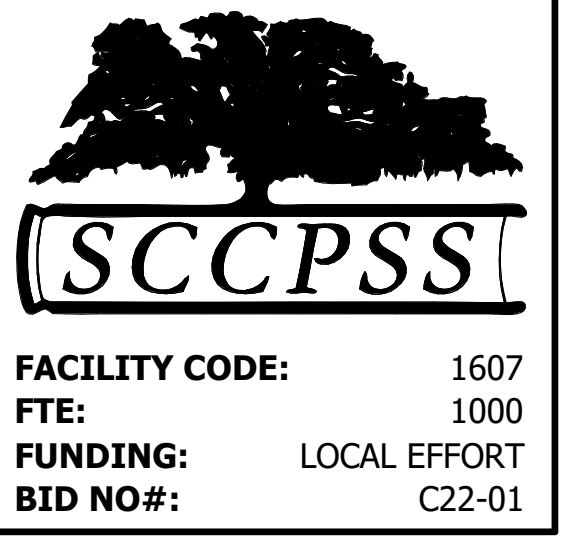


DOOR TYPE ELEVATIONS



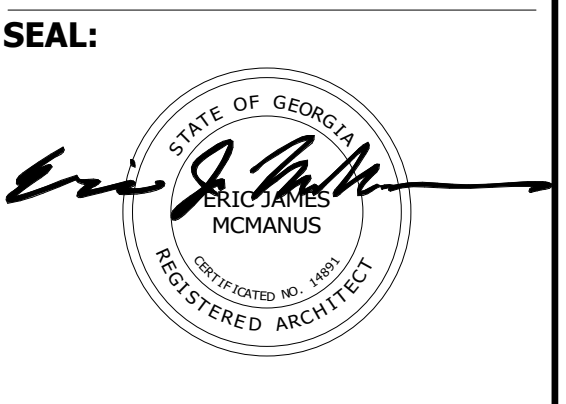
HM FRAME ELEVATIONS

**VOL. II SAVANNAH ARTS ACADEMY ADDITION**  
 500 WASHINGTON AVENUE  
 SAVANNAH, GEORGIA 31405  
**SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM**  
**GMP CONSTRUCTION DOCUMENTS**



**FACILITY CODE:** 1607  
**FT:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO #:** C22-01

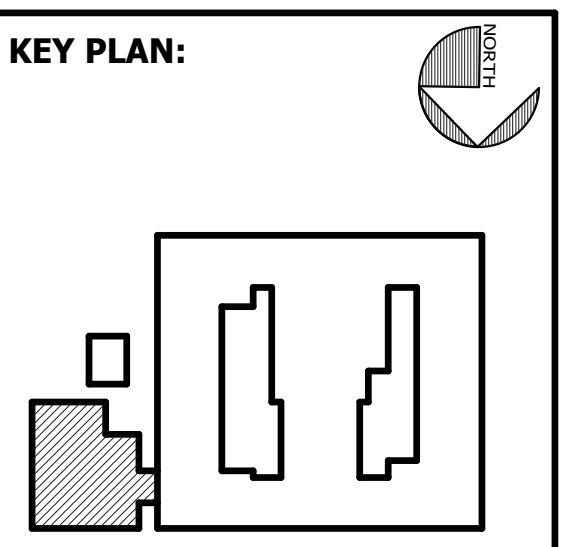
**Cogdell Mendrala Architects**  
**COGDELL & MENDRALA ARCHITECTS, PC**  
 517 EAST CONGRESS STREET  
 SAVANNAH, GEORGIA 31401  
 tel 912.234.6318  
 fax 912.236.8414  
 cogdellmendrala.com



**PROJECT CONSULTANTS:**  
 CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
 40 JOE KENNEDY BLVD.  
 STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
 400 E. JOHNNY MERCER BOULEVARD  
 SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
 7402 HODGSON MEMORIAL DRIVE,  
 SUITE 100  
 SAVANNAH, GA 31406



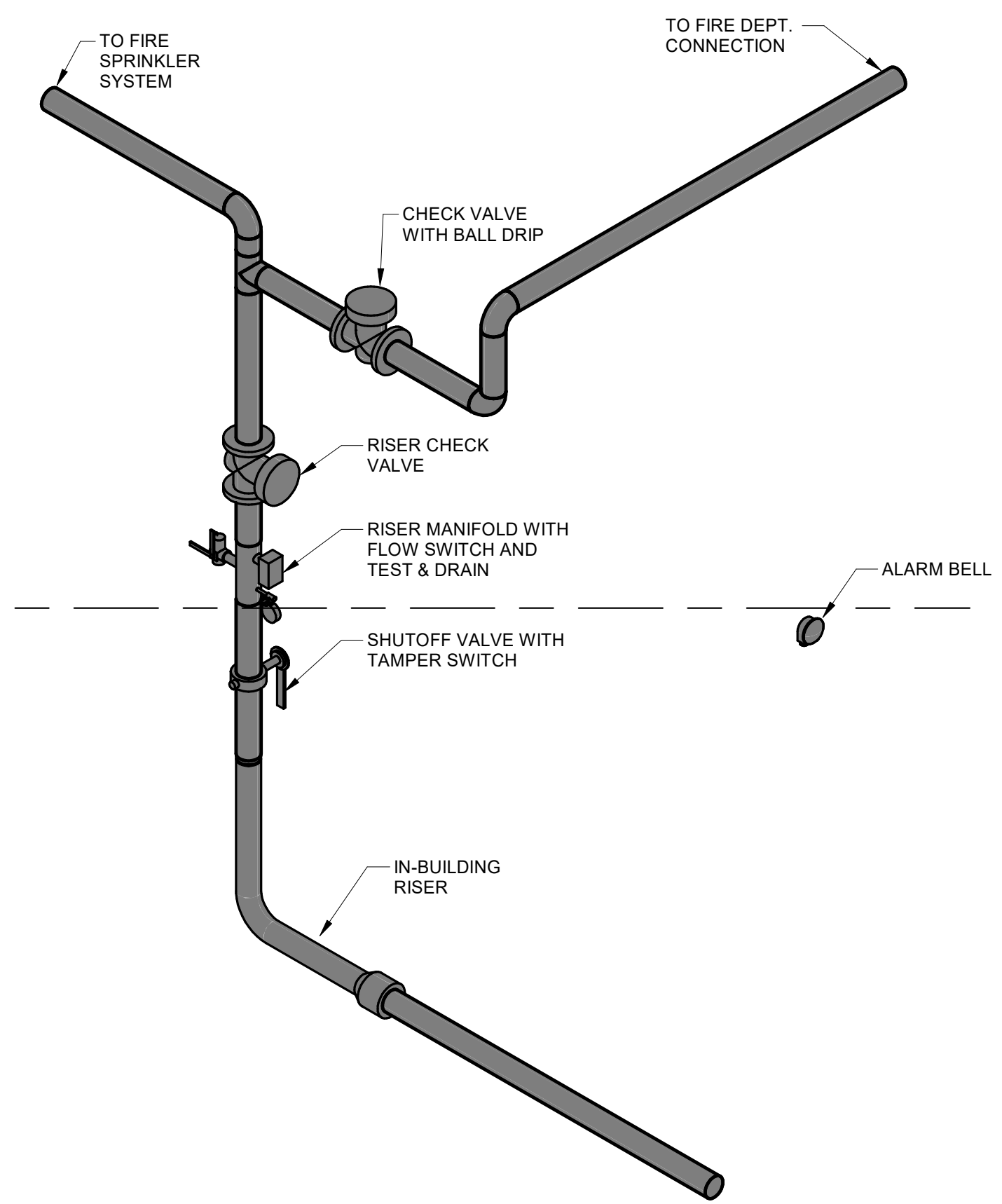
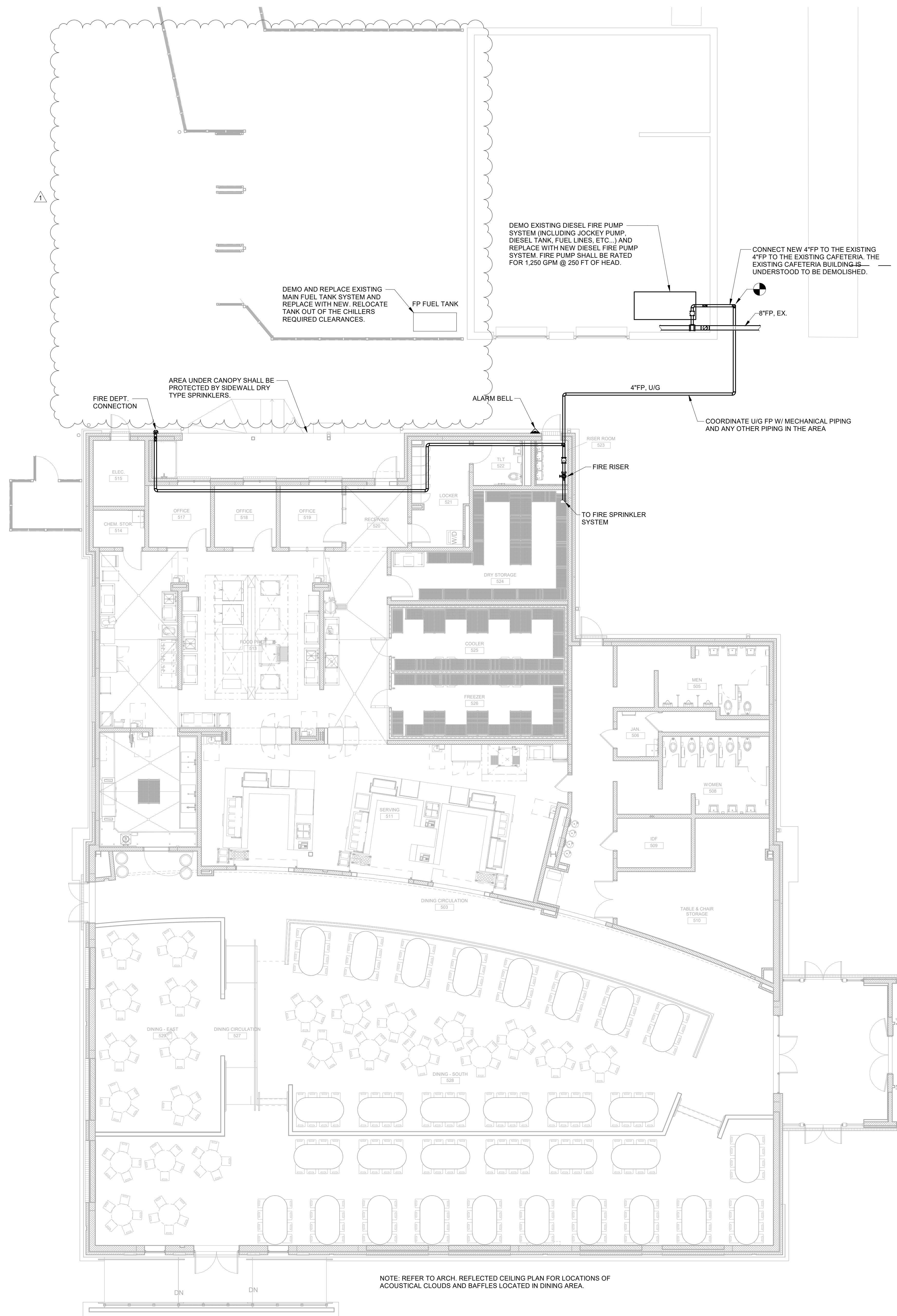
**SHEET TITLE:**  
**DOOR SCHEDULE, DOOR TYPES & HM FRAME ELEVATIONS**

REVISION SCHEDULE	
DATE	DESCRIPTION
3/14/22	ADD. NO. 1
FEB 2022	PERMIT/GMP

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** EJM  
**SCALE:** As indicated  
**SHEET:** **A8.01**

C:\Users\eric.CMA\OneDrive\Documents\1916 SAA CAFE\_RVT 2019\_ARCH\_emcman2013.rvt 3/16/2022 7:12:40 AM

BIM 360/20190115 Savannah Arts Academy Renovations/20190115-MECH-CAFE.rvt  
3/14/2022 4:25:03 PM



2 FIRE SERVICE RISER

FC1.01

WET PIPE SPRINKLER SYSTEM

THE SPRINKLER SYSTEM WILL BE PROVIDED FOR THE ENTIRE BUILDING. THE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 AND THE DESIGN DATA BELOW. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND PLANS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. SPRINKLERS IN CEILINGS SHALL BE SEMI-RECESSED PENDANT HEADS UNLESS NOTED OTHERWISE.

HAZARD CLASSIFICATIONS AND DESIGN REQUIREMENTS

HAZARD CLASSIFICATIONS FOR THIS BUILDING ARE LISTED BELOW IN THE SPRINKLER HAZARD CLASSIFICATIONS SCHEDULE.

HAZARD CATEGORY	DENSITY	AREA
LIGHT HAZARD	.10 GPM/SQ. FT.	1500 SQ. FT.
ORDINARY GROUP 1	.15 GPM/SQ. FT.	1500 SQ. FT.

THE CONTRACTOR SHALL LOCATE THE SYSTEM WITHIN THE INSULATED ENVELOPE OF THE BUILDING.

THE EXTERIOR HOSE STREAM REQUIREMENT IS 250 GPM.

FIRE FLOW DATA

FIRE FLOW DATA FOR THIS SITE: STATIC: 62 PSI RESIDUAL: 50 PSI FLOW RATE: 1,190 GPM

SPRINKLER HAZARD CLASSIFICATIONS	
ROOM OR AREA	HAZARD CATEGORY
ALL AREAS EXCEPT AS NOTED BELOW	LIGHT HAZARD
MECHANICAL, ELECTRICAL, CHEMICAL STORAGE, IDF, JANITOR'S, KITCHEN, CAN WASH & LOCKER	ORDINARY HAZARD 1

VOL. II - SAVANNAH ARTS  
ACADEMY ADDITION  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



FACILITY CODE: 1607  
FTE: 1000  
FUNDING: LOCAL EFFORT  
BID NO#: C22-01

Cogdell Mendrala Architects  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

SEAL:



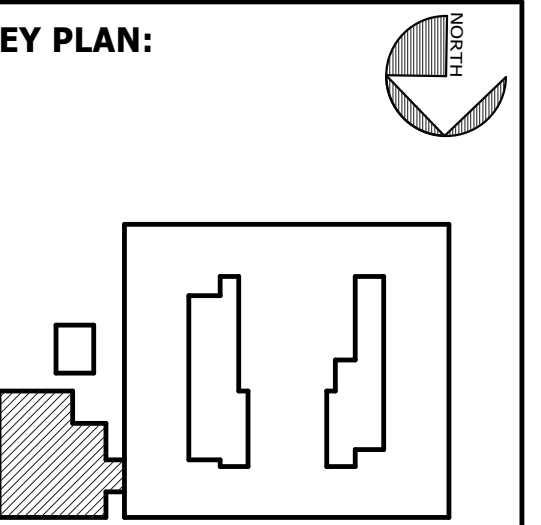
PROJECT CONSULTANTS:

CIVIL ENGINEER  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

STRUCTURAL ENGINEER:  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

MECHANICAL & ELECTRICAL ENGINEER:  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406

KEY PLAN:



SHEET TITLE:  
**FIRE PROTECTION PLAN - CAFETERIA ADDITION**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM #1

PROJECT NO: 1916  
DATE: FEB 2022  
DRAWN BY: BMW  
SCALE: As indicated

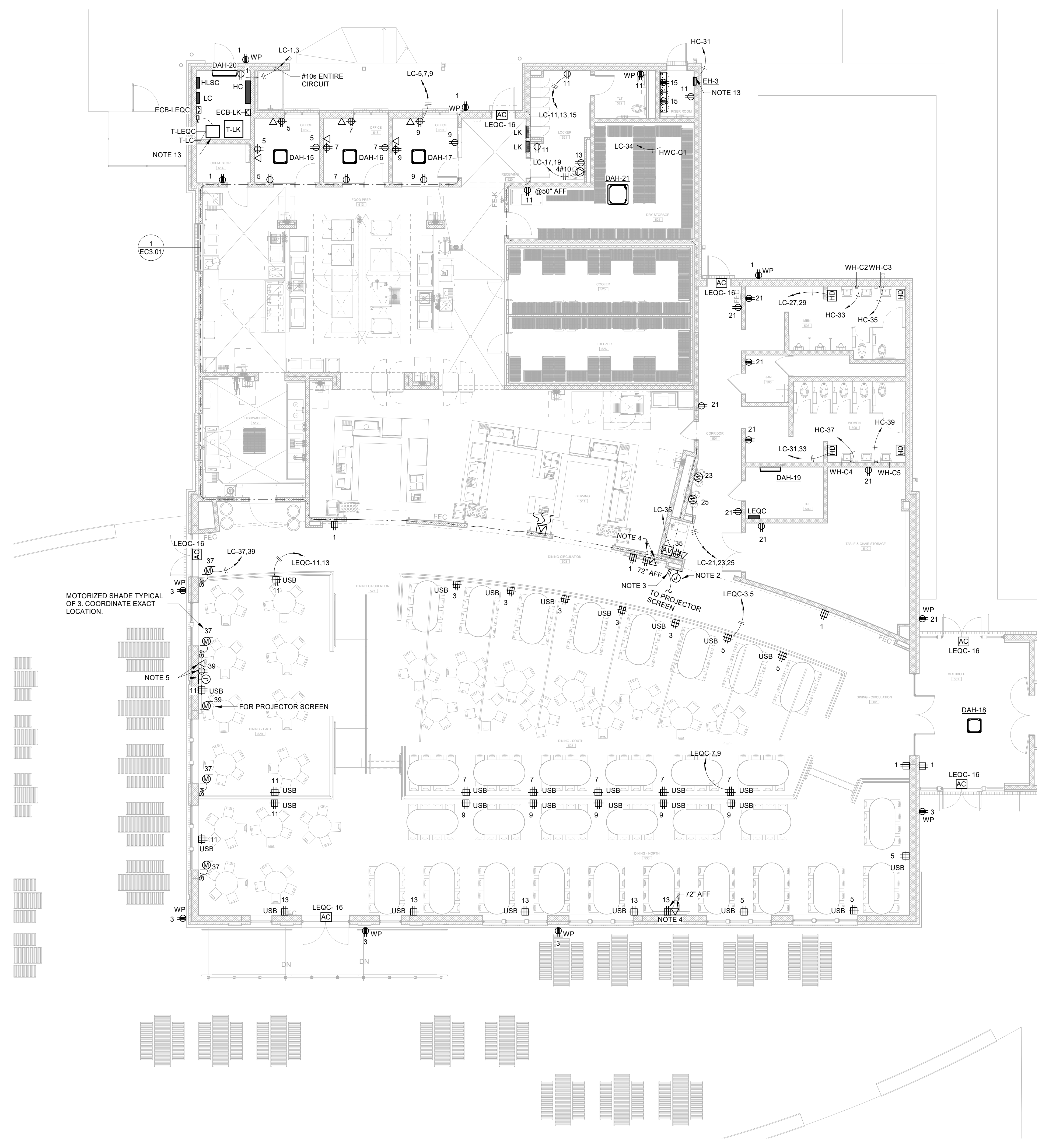
SHEET: **FC1.01**



1 FIRE PROTECTION FIRST FLOOR PLAN - CAFETERIA ADDITION

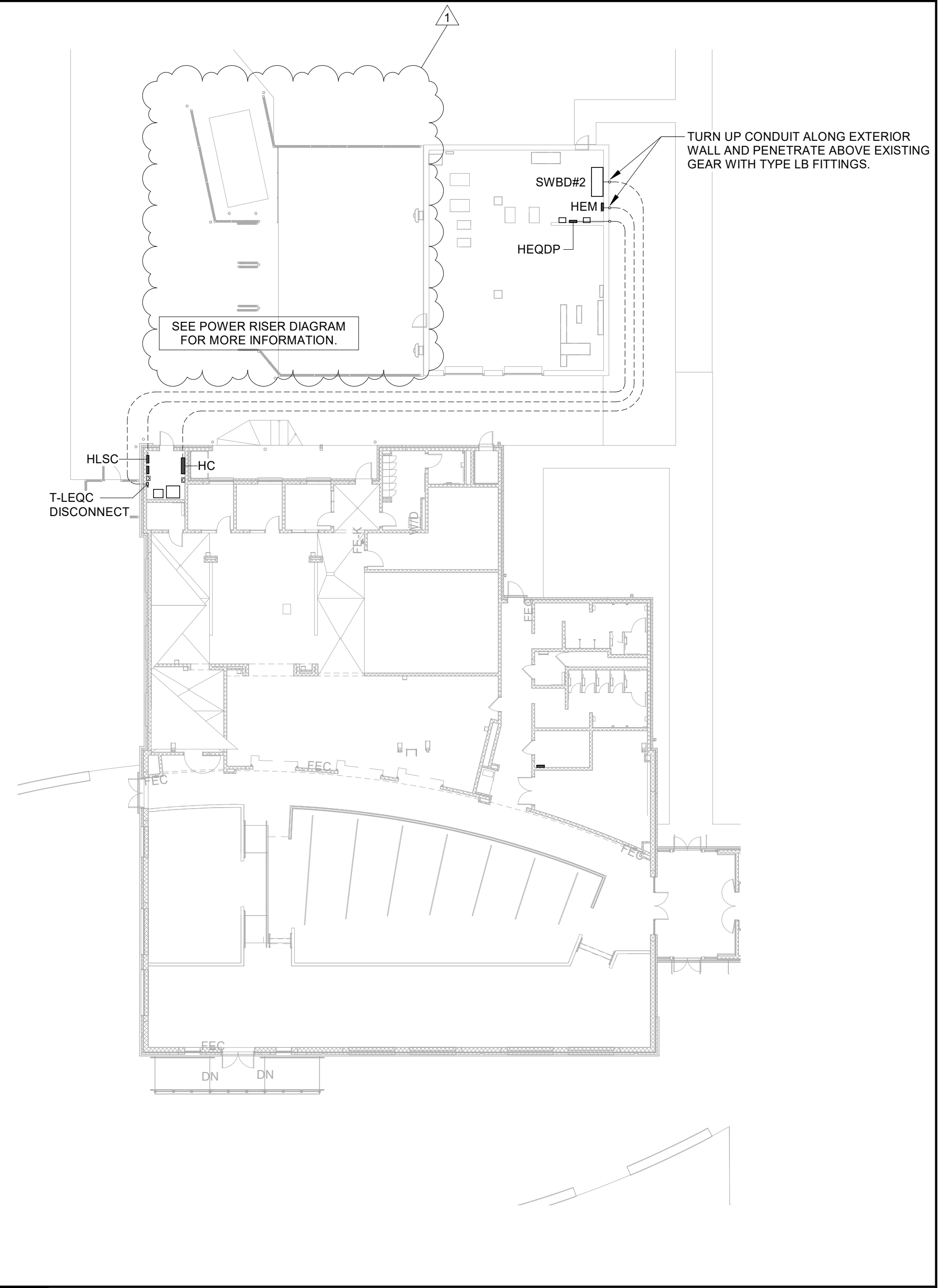
FC1.01 1/8" = 1'-0"

BIM 360/20190115 Savannah Arts Academy Renovations/20190115-ELEC-CAFE.rvt  
3/14/2022 4:15:21 PM



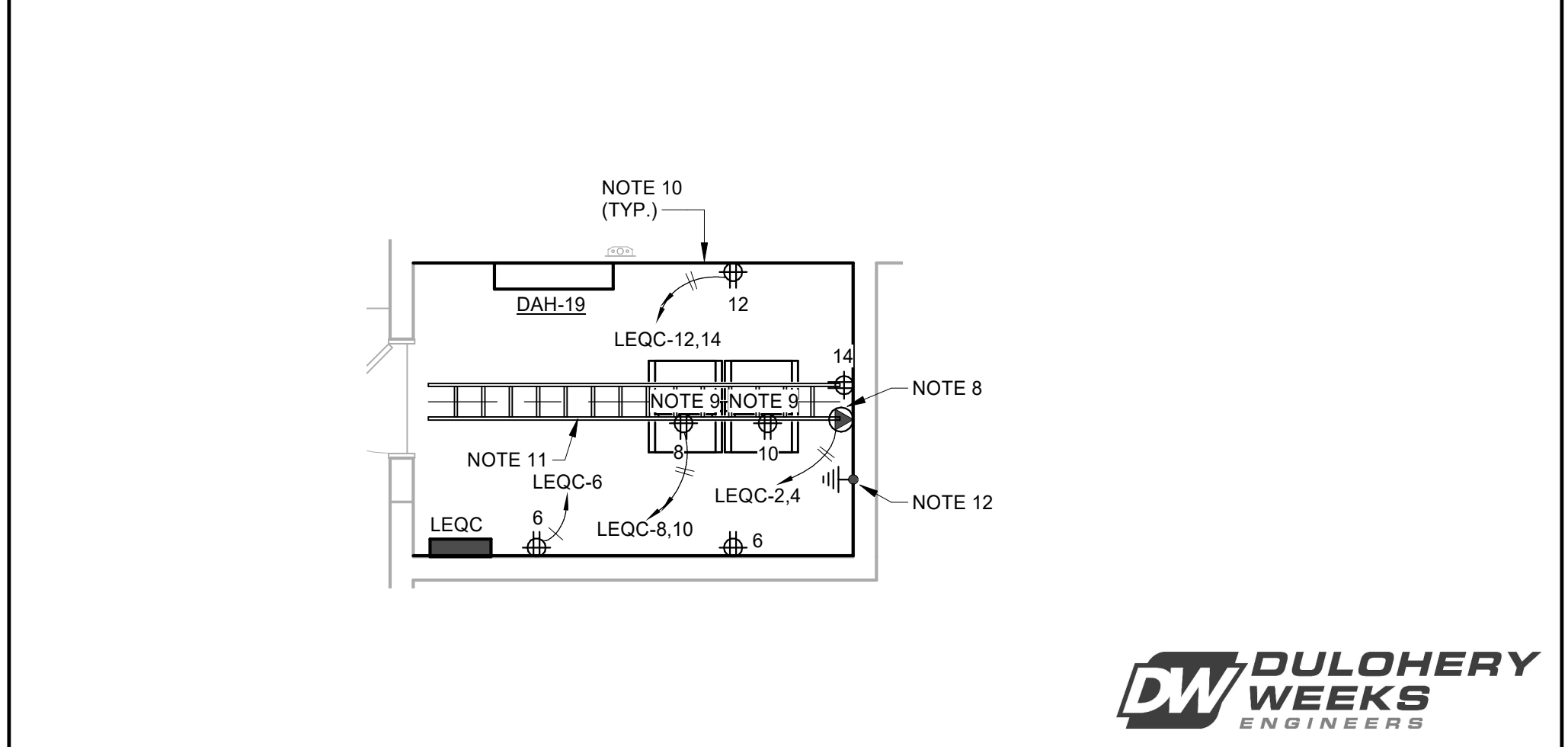
**NOTES:** (THIS SHEET ONLY)

1. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF NEW MONITOR WITH OWNER PRIOR TO ROUGH-IN. CONNECT RECEPTACLE TO EXISTING 120V PROJECTOR CIRCUIT.
2. PROVIDE JUNCTION BOX FOR MOTORIZED WINDOW SHADE WALL CONTROLLER.
3. THREE POSITION CENTER OFF SWITCH TO CONTROL MOTORIZED PROJECTION SCREEN.
4. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF NEW MONITOR WITH OWNER PRIOR TO ROUGH-IN.
5. POWER, DATA AND AV FOR PROJECTOR, COORDINATE LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
6. NOTE NOT USED.
7. NOTE NOT USED.
8. PROVIDE #10 HOMERUN, 3/4" C. FOR FUTURE UPS POWER.
9. RECEPTACLE SHALL BE INSTALLED IN THE TELECOMMUNICATION RACK. COORDINATE EXACT LOCATION WITH TELECOMMUNICATION RACK INSTALLER.
10. PLYWOOD BACKBOARD: PROVIDE 3/4" THICK FIRE RETARDANT GRADE A/C PLYWOOD BACKBOARD. COAT PLYWOOD WITH TWO COATS LIGHT GRAY FIRE RETARDANT PAINT. FIRE RATING ON PLYWOOD SHALL NOT BE PAINTED OVER SO AT LEAST ONE MARKING SHALL BE VISIBLE ON EACH PIECE OF PLYWOOD. PROVIDE 3/4" X 3/4" ALUMINUM ANGLE FRAME AFTER PAINTING. PROVIDE OUTLET BOX EXTENSION RING AS REQUIRED FOR DEVICES INSTALLED IN WALLS RECEIVING PLYWOOD FOR FLUSH MOUNTING WITH WOOD SURFACE.
11. PROVIDE 18" WIDE LADDER RACK/CABLE TRAY AT 8'-0" AFF. CABLE TRAY SHALL BE SECURED TO WALL OR SECURELY SUSPENDED FROM CEILING STRUCTURE. PROVIDE LENGTH AND QUANTITY PER PLANS.
12. PROVIDE TELECOMMUNICATIONS EQUIPMENT GROUND BAR. BOND TO MAIN TELECOMMUNICATIONS GROUND BAR IN EXISTING MDF.
13. SEE RACK MOUNTED TRANSFORMER DETAIL, 4/EC6.01.
14. PROVIDE 20A MOTOR RATED SWITCH.



**3 ELECTRICAL SITE PLAN**

EC2.01 1" = 20'-0"



**2 ENLARGED DATA ROOM**

EC2.01 1/4" = 1'-0"

**1 POWER PLAN - CAFETERIA ADDITION**

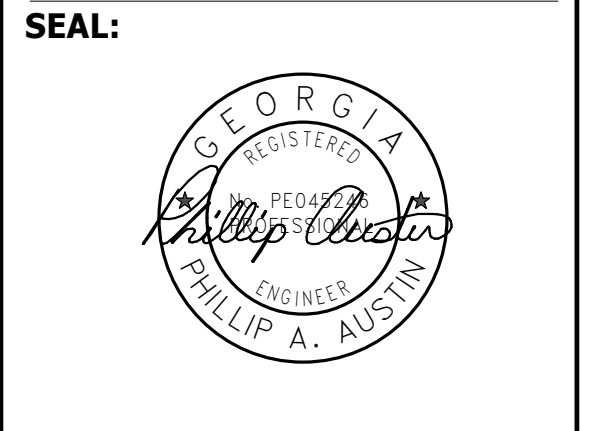
EC2.01 1/8" = 1'-0"

**VOL. II SAVANNAH ARTS ACADEMY ADDITION**  
500 WASHINGTON AVENUE  
SAVANNAH, GEORGIA 31405  
SAVANNAH-CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
GMP CONSTRUCTION DOCUMENTS



**FACILITY CODE:** 1607  
**FTE:** 1000  
**FUNDING:** LOCAL EFFORT  
**BID NO#:** C22-01

**Cogdell Mendrala Architects**  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.236.6318  
fax 912.236.8414  
cogdellmendrala.com

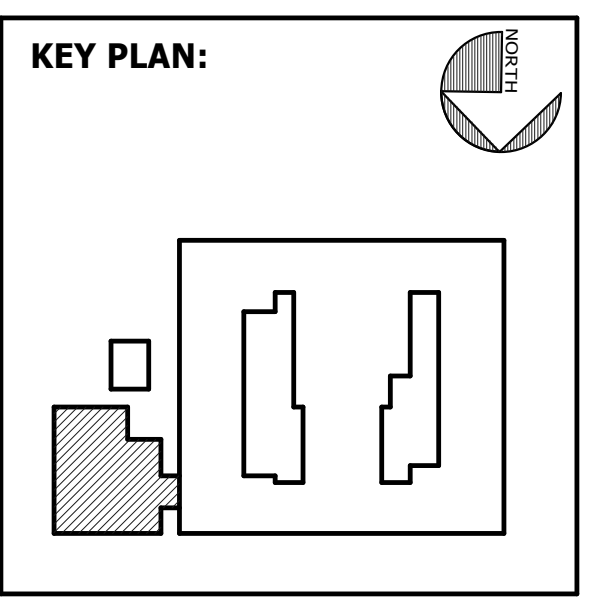


**PROJECT CONSULTANTS:**

**CIVIL ENGINEER**  
**MAXWELL-REDDICK & ASSOCIATES**  
40 JOE KENNEDY BLVD.  
STATESBORO, GA 30458

**STRUCTURAL ENGINEER:**  
**SAUSSY ENGINEERING**  
400 E. JOHNNY MERCER BOULEVARD  
SAVANNAH, GA 31410

**MECHANICAL & ELECTRICAL ENGINEER:**  
**DULOHERY WEEKS ENGINEERS**  
7402 HODGSON MEMORIAL DRIVE,  
SUITE 100  
SAVANNAH, GA 31406



**SHEET TITLE:**  
**POWER PLAN - CAFETERIA ADDITION**

REVISION SCHEDULE	
DATE	DESCRIPTION
03/14/22	ADDENDUM #1

**PROJECT NO:** 1916  
**DATE:** FEB 2022  
**DRAWN BY:** PAA  
**SCALE:** As indicated  
**SHEET:** **EC2.01**

