



Request For Competitive Sealed Proposals
Public Address Systems Replacement
RFP #24-03-20
Igo ES, Jarrell ES, and Jarrell MS
Addendum 1

Addendum No. 1

The RFP/CSP Contract Documents, Technical Specifications, and Plans are hereby modified as follows:

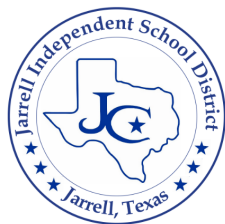
1. Proposal Due Date: Bid date and time remain unchanged: **Thursday, April 4, 2024, 3:00PM CST**

2. Technical Items for Addendum No. 1: Attached are the following updated specifications and plan documents:
 - a) Narrative description for “Technology Items for Addendum No. 1” [2 pages]
 - b) Technology specification update for “Section 27 5116 – Public Address Systems” [16 pages]
 - c) Technology plans updated for “Igo Elementary School – Public Address System Replacement” [3 pages]
 - d) Technology plans updated for “Jarrell Elementary School – Public Address System Replacement” [1 page]
 - e) Technology plans updated for “Jarrell MS– Public Address System Replacement” [2 pages]

Please note that this addendum must be acknowledged as part of submittal. Indicate acknowledgement on Appendix C – Fee Proposals Form included in the RFP/CPS Page 20.

ADDENDUM NO. 1 ISSUED BY:

Jarrell Independent School District



Request For Competitive Sealed Proposals
Public Address Systems Replacement
RFP #24-03-20
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Addendum 1

Narrative description for
“Technology Items for Addendum No. 1”
[2 pages]

TECHNOLOGY ITEMS FOR ADDENDUM NO. 01

NOTICE TO PROPOSERS:

- A. This Addendum shall be considered part of the contract documents for the above-mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original contract documents, this Addendum shall govern and take precedence.
- B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer's proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:

AD No 01, Tech. Item 1: To the Project Manual, Section 27 5116, "Public Address Systems,"

- 1) Items in red text as follows:
 - a. Item 1.01_A has been revised.
 - b. Item 1.01_D has been added to the manual.
 - c. Item 1.01_E has been added to the manual.
 - d. Item 1.01_F has been added to the manual.
 - e. Item 1.01_G has been added to the manual.
 - f. Item 1.01_H has been added to the manual.
 - g. Item 2.02_I_2 and 3 have been added to the manual to provide consistency for classroom speaker clock installation at the teaching wall.
 - h. Item 2.02_J_3 the model for S1-02 speaker clock combo has been revised.
 - i. Item 2.02_M_6 and 7 have been added to the manual has been added to provide direction for clock installation in corridors.
 - j. Item 2.02_T. PAGE SENSE has been added to the manual.

JMS DRAWINGS:

AD No 01, Tech. Item 2: To the Drawings, Sheet T1.1, "MASTER PLAN - FIRST FLOOR,"

- 2) Section 2 and 3 identifiers have been added.
- 3) Section 3 "Existing Field House" has been added.

AD No 01, Tech. Item 3: To the Drawings, Sheet T1.3, "FLOOR PLAN - SECTION 3,"

- 1) This sheet has been added to the set.

IGO ES DRAWINGS:

AD No 01, Tech. Item 4: To the Drawings, Sheet T1.1, "MASTER PLAN - FLOOR PLAN,"

- 1) The existing portable locations have been added.

AD No 01, Tech. Item 5: To the Drawings, Sheet T1.8, "FLOOR PLAN - PORTABLES,"

- 2) This sheet has been added to the set.

AD No 01, Tech. Item 6: To the Drawings, Sheet T3.1, "SECTION VIEWS,"

- 1) The Classroom Section View has been revised to remove the TV above the marker board. TV's have been provided on carts and connected to the local sound system.



Project Name: PA Systems Replacement
Client: Jarrell ISD
Jarrell, Texas
Project Number:D-JAR-1001-03

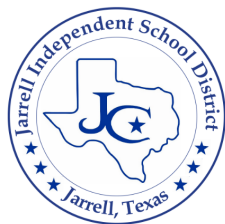
JARRELL ES DRAWINGS:

AD No 01, Tech. Item 7: To the Drawings, Sheet T1.01, "MASTER PLAN - FIRST FLOOR,"

- 1) A typical portable classroom layout has been added.

END OF TECHNOLOGY ADDENDUM 01





Request For Competitive Sealed Proposals
Public Address Systems Replacement
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Addendum 1

Technology specification update for
“Section 27 5116 – Public Address Systems”
[16 pages]

**SECTION 27 5116
PUBLIC ADDRESS SYSTEMS**

PART 1- GENERAL

1.01 SCOPE

- A. The intent for this specification is that the Contractor shall install a modern IP based headend that will replace antiquated, and non-functioning equipment. New IP speaker/clock combo units shall be installed within typical classrooms and a larger IP clock/speaker combo shall be installed within larger instructional spaces (i.e. Band, Choir, Cafeteria). New digital clocks are to be installed throughout the corridors. It is expected for common areas, corridors, and exterior paging speakers to remain. The existing non-functioning analog speakers and amplifiers shall be replaced according to the initial systems test report provided by the Contractor prior to demolition of equipment and approval of pricing by the Owner.
- B. The Contractor shall complete a site visit prior to bid to verify quantities and conditions for existing clocks, corridor speakers, exterior speakers, and common area speakers.
- C. The scope listed above shall pertain to the following Jarrell ISD existing campuses.
 - 1. Jarrell ISD Elementary School
 - 2. Jarrell ISD IGO Elementary School
 - 3. Jarrell ISD Middle School
- D. Where there are existing sound systems within the classrooms, the components and equipment are to remain. All existing local sound for larger instructional spaces and classroom local sound systems shall be connected to the Public Address System for emergency audio mute.
- E. The Owner's Maintenance Department shall provide labor and materials for patching and painting if required. The Public Address Contractor shall work carefully to minimize this work. Coordinate with the Owner for locations where patching and painting will be required.
- F. Required network switches shall be provided by the Owner. Coordinate as required.
- G. The Contractor shall provide all required cabling for the installation of the new Public Address System.
 - 1. Jarrell ES:
 - a. Contractor to provide all new cabling for this due to existing antiquated analog systems. Where existing Public Address devices are being removed it is expected that the Contractor shall remove the cable completely from device to headend.
 - 2. Jarrell IGO & MS:
 - a. The existing Extron paging system data cabling currently is designed to be connected to each classroom's Plenum Vault System. The Contractor may utilize the existing data cabling for these locations.
 - b. The Contractor shall provide labor and materials for the programming and set up of the existing Plenum Vault system to accept a signal from the new Public Address System and provide audio page mute functionality.
- H. The Contractor shall conduct a pre-programming meeting for each system. It is at this time the GUI shall be discussed with the Owner as well as confirmation of common area and exterior paging zones. Failure to complete this meeting may result in the Contractor providing labor to correct programming according to the Owner's desire at no cost.

1.02 SUMMARY

- A. Documents: All Owner bid and performance requirements are included as part of this section as though bound herein.
- B. Contractor responsible for coordinating with Owner's Representative for access to all project areas.

- C. The Contractor shall complete an initial system test of all existing systems. A report shall be provided to the Owner and the Owner's Representative for review prior to the inception of the demolition phase.
- D. The Contractor shall provide all materials, equipment, labor and all other incidental materials and appliances necessary, as described herein and in the drawings, to provide complete turn-key and functional systems, regardless of any materials and/or equipment not listed or described in this specification and/or supplementary drawings.
- E. Contractor shall provide system optimization services provided by a factory authorized representative and shall complete an internal system commissioning prior to. A commissioning plan shall be submitted in writing to the Owner and or Owner's representative for approval. Notify the Owner and or Owner's representative two weeks prior to the start of commissioning to allow for Owner representation to be present during all testing and commissioning. Final testing and commissioning shall be completed by the Owner's representative.
- F. Provide and install complete and Public Address Systems per specifications listed herein that is free from all hums, buzzes and defects.
- G. General elements of the work shall consist of but not limited to following major items:
 - 1. All equipment shall be installed per the manufacturer's installation instructions.
 - 2. Any deviation from the manufacturer's installation instructions shall be requested prior to the work being done.
 - 3. Any unapproved deviations will be corrected at the installer's sole expense.
 - 4. Procure all permits and licenses required to complete this installation.
 - 5. Attend job construction and progress meetings.
 - 6. Provide all materials and essential ancillary equipment required to make a properly operating system as defined in the related drawings and specifications.
 - 7. Provide cabling according to the correct application and environment(s).
 - 8. Verify conditions and dimensions at the job site prior to installation.
 - 9. Submittal preparation and processing.
 - 10. Perform installation according to project documents.
 - 11. Perform initial testing, programming, and adjustments with written reports.
 - 12. Provide labor and materials to complete final commissioning services.
 - 13. Demonstrate system for final adjustments and approval by the Architect and/or Owner.
 - 14. Preparation of Operational and Maintenance manuals and Project Record (as-built) documents.
 - 15. Providing training for Owner.
 - 16. Providing warranty service.
 - 17. Remove all job specific created debris to approved collection points.

1.03 REFERENCES

- A. Specifications, Standards and Codes: All work shall be in accordance with the current editions of the following:
 - 1. AVIXA Rack Building for Audiovisual Systems 2019.
 - 2. ANSI T1.404 (DS3) and CATV Applications.
 - 3. ANSI S4.48-1992
 - 4. ANSI X3T9.5 TPPMD.
 - 5. American Society of Testing and Materials (ASTM).
 - 6. TIA (Telecommunications Industries Association) building telecommunication wiring standards
 - 7. Building Industry Consulting Service International (BICSI) Telecommunications Distribution Methods Manual.
 - 8. Federal Communications Systems (FCC).
 - 9. Institute of Electrical and Electronics Engineers (IEEE).
 - 10. National Electrical Code (NEC) (Latest revision and pertinent addendums).
 - 11. National Electrical Manufacturer's Association (NEMA).

12. National Fire Protection Association (NFPA) Publications (Latest revisions and pertinent addendums).
13. "Basic Principles for suspended Loudspeaker Systems", Technical Notes Volume 1, Number 19, JBL Professional or latest edition.
14. "Handbook for Riggers" 1977 Revised Edition, Newberry, W.G., Calgary, Alberta Canada.
15. Underwriters Laboratory (UL)
16. Americans with Disabilities Act (ADA)
17. In the event of a conflict between documents referenced herein and the contents of this specification, the contents of this specification shall be considered the superseding document with the exception of the ADA, NFPA and NEC publications.

1.04 IT COORDINATION

- A. Where connection between components or control features are accomplished over the Owner's LAN, Contractor shall coordinate with the Owners IT department for IP addresses, VLAN configuration, firewall access, and other issues pertaining to successful integration.

1.05 GENERAL REQUIREMENTS

- A. This section covers the general requirements for the installation of the Public Address System by the Contractor.
 1. In the installation of this work, the Contractor shall comply in every way with the requirements of Owner's standards, local and state laws and ordinances, the National Board of Fire Underwriters, and the National Electrical Code. If, in the opinion of the Contractor, there is anything in the plans or specifications that will not strictly comply with the above laws, ordinances, and rules, the matter shall be referred to the attention of Owner's representatives for a decision before proceeding with that part of the work. No change in the plans or in the Specifications shall be made without full consent in writing by the Owner's representative's engineer.
 2. The Contractor shall obtain the Owner's permission before proceeding with any work necessitating cutting into or through any part of building structures such as girders, beams, concrete or tile floors, partition ceilings.
 3. The Contractor shall be responsible for and repair all damage to building due to carelessness of workers, and exercise reasonable care to avoid any damage to Owner's property. The Contractor will report to the Owner's representatives any damage to the building which may exist or may occur during the occupancy of the quarters.
 4. Contractor shall provide components, wire, connectors, materials, parts, equipment, and labor necessary for the complete installation of the system, in full accordance with the recommendations of the equipment manufacturers and the requirements, specifications and all applicable codes.
 5. The Contractor shall be responsible for installation of proper grounding and bonding.
 6. The Contractor shall take necessary steps to ensure that the required firefighting apparatus is accessible always. Flammable materials shall be kept in suitable places outside the building.
 7. The Contractor shall install the materials in accordance with the manufacturer's specifications.
 8. Equipment shall be held firmly in place with manufacturer's recommendation and/or EIA standard types of mounting hardware. All equipment shall be installed to provide reasonable safety for the operator.
 9. The Contractor shall promptly correct all defects for which the Contractor is responsible.
 10. The Contractor shall insure that all records and reports, City relations, engineering, metering, inspections, testing, quality or service standards and safety measures comply with standards applicable for the State where the work is being performed.
 11. The Contractor shall coordinate all work with the Owner's assignee or as will be designated at a future date.
 12. The Contractor shall remove all excess material and debris and return to its original state of cleanliness. The Contractor shall maintain a work area free of debris, trash, empty cable reels, scrap wire, etc., and dispose of such items daily.

13. Upon completion of installation and prior to acceptance, all equipment shall be thoroughly cleaned and made free from extraneous bits of solder, wire, etc. by the Contractor. The Contractor shall cleanup work area and remove ALL waste and trash. Debris resulting from the installation shall be removed from all areas and disposed of by the Contractor.
14. All work shall be done in a thorough and conscientious manner according to industry standards and shall be subject to inspection and acceptance.
15. The Contractor shall be certain that all installation work areas are secure and made safe in accordance with Occupational Safety and Health Administration (OSHA) regulations.
16. An appropriate installation schedule shall be developed by the Contractor and will be subject to approval by the Owner's representatives. The construction schedule should include at least one installation supervisor, or lead technician, for on-site management of the project.
17. Prior to starting the installation, the assigned installation supervisor, or lead technician, shall participate in a walk-through of the project location with Owner's designated staff to review the installation documentation, verify that all construction necessary for the installation has been completed, and verify all installation methods and cable routes.
18. The Contractor shall be responsible for completing a standardized report form addressing the weekly progress of the installation schedule.
19. It shall be the responsibility of the installation Contractor to furnish any special installation equipment or tools necessary to properly complete the installation.
20. The Contractor shall not roll or store cable reels without an appropriate underlay.
21. The Contractor shall not place any distribution cabling alongside power lines, or share the same conduit, channel, or sleeve with electrical apparatus.
22. The Contractor shall insure that the maximum pulling tensions of the specified distribution cables are not exceeded at any time during the placement facilities. Failure to follow the appropriate guidelines may require the Contractor to provide additional material and labor necessary to properly rectify the situation. This shall also apply to all damages sustained to the cables by the installation Contractor during the implementation.
23. Materials shall be consistent throughout the building. Where two or more units of the same class of equipment are required, these units shall be the product of a single manufacturer and shall be the same product with the same material, model, and manufacturer number.
24. The wiring, materials, and equipment furnished for this request shall be essentially the standard product of the manufacturer.
25. All wiring, materials, and equipment must be listed and labeled by a nationally recognized testing laboratory.
26. All wiring, materials, and equipment must be suitable for the environment they are to be permanently installed in.
27. All equipment proposed by the Contractor must be new and unused. Equipment refers to all hardware, software, equipment, cabling, materials, and incidentals etc.

1.06 SUBMITTALS

- A. Successful Contractor will submit a single electronic PDF copy of the submittal package within 20 days of written notification to proceed or other written documentation from the Architect or General Contractor. Documents will be organized into the following sections:
 - B. General
 1. Partial submittals shall not be acceptable without prior approval by the Consultant or Owner's Representative.
 2. The Contractor shall not be relieved from any contract-required responsibility by the Owner's approval of submittals.
 3. Nothing in the specification shall relieve respondents of system package design responsibility, including, but not limited to, all equipment furnished under this contract. The successful respondent is, in all cases, solely responsible for the performance of the delivered system, and for furnishing complete system documentation for every part of the system.
 4. No portion of the work shall commence, or equipment ordered until the Owner has approved the submittals.
 5. All work to be performed in accordance with approved submittals.

6. Provide submittals in accordance with Owner's performance requirements and Owner's approved construction schedule.
7. Submittals shall not be combined with additional scope awarded or other sections. Separate submittals shall be required.
8. No portion of the submittal package may be excluded without written permission by the Architect.

C. Submittal Requirements

1. Section 1 – Cover Sheet and Table of Contents
 - a. Cover sheet containing the Company Name and/or logo, Title of submittal package, client name, and Contractor work address with a point of contact (POC) and phone number and name of submittal preparer.
 - b. Table of Contents (TOC)
 - c. Listing, in order, of all following submittal Sections.
2. Section 2 – Product Data
 - a. Manufacturer's catalog information showing dimensions, colors, and configurations.
 - b. Submittals will include all items called for in PART 2 – PRODUCTS of this document and the manufacturers cut sheets containing make and model numbers for each item listed in the specifications and the bill of materials only. No lengthy installation or operation manuals will be accepted.
 - c. The product data shall be divided by system(s) and in the order presented in this specification document.
 - d. In cases of multiple product numbers on a single cut sheet, the Contractor will identify the proper part number with an arrow, check mark or highlight.
3. Section 3 – Pre-Qualification Certificate
 - a. Contractor will submit the following documents with project proposal:
 - 1) A letter of approval from the manufacturer indicating completion of pre-qualification requirements.
 - 2) Training certificates for design, engineering, and installation of the proposed products.
4. Section 4 – Warranty Documentation
 - a. The installation warranty will be for one year from substantial completion of the project. Substantial Completion is the point of the completion of training.
 - b. Complete documentation regarding the manufacturer's warranty will be submitted as part of the proposal. This will include, but is not limited to, a sample of the warranty that would be provided to the Owner at substantial completion.
5. Section 5 – Record Drawings
 - a. Contractor shall provide record drawings for the submittal package that will be used throughout the inspection process and into substantial completion / final acceptance. Drawings will contain the Contractor's own title block on the edge of the drawing and will include the company name, address, phone number and date of the final drawings. Use of any part of the Architect title block is not acceptable at any time.
 - b. The drawings shall include the following information:
 - 1) All shown audio-video drop locations shall be labeled and shown in accordance with the construction floor plans and reflective ceiling plans.
 - 2) Audio-video block diagrams, or functionals, for all systems. Reproduction of Audio-Video Consultant diagrams, or functionals, shall not be permitted.
 - 3) Provide the audio-visual equipment rack elevation details demonstrating the locations of the equipment, power raceways and thermal management.
 - 4) All overhead rigging and installation details.
 - 5) Required support backing details with dimensions.
 - 6) Final conduit and cable pathways for coordination with E.C.
6. Section 6 – Project Schedule

- a. Contractor shall provide a work schedule detailing the points in which tasks are to begin and end, major milestones are to be completed as well as predecessors that are required for task to begin or be completed.
7. Any and all changes to the scope of work during the project shall be included in the drawings upon completion of system(s) installation and will be used as part of the substantial completion process. Reference the section on close out documentation for additional information on the substantial completion process.

1.07 QUALITY ASSURANCE

- A. The Owner's representative will make regular progress inspections. The Contractor shall make their job supervisor available to assist during these visits.
- B. The Contractor shall thoroughly familiarize themselves with the complete construction documents, to have visited all sites affecting the proposed work, studied bid package information and all necessary details of the complete set of drawings and specifications and to have included in the proposal an amount to cover all work.
- C. The Contractor shall keep a complete set of drawings, specification, reviewed submittals, and progress markups on the job site always. These documents shall be made available during Owner's representative site progress visits. Changes made during installation shall be noted in the project markup set.
- D. Submission of bids shall be deemed evidence of Contractor's knowledge, review, and examination of the construction documents.
- E. In the event of a conflict between documents referenced herein and the contents of this specification, the contents of this specification shall be considered the superseding document except for the NFPA publications, which shall have precedence.

1.08 PROJECT EXPERIENCE AND PERFORMANCE REQUIREMENTS

- A. The Contractor must be an experienced Public Address Systems Contractor, that is primarily engaged in the business of A/V system integration.
- B. The contractor must show proof that Public Address Systems and/or audio-visual systems integration is the primary function of the company.
- C. The Contractor shall show proof, as part of the bid, that it has been in the Public Address Systems installation business for a period of not less than 3 years and has successfully, completed projects of similar size and scope.
- D. The Contractor will provide proof that it supports a well-trained maintenance force in the area local to the project.
- E. Provide a competent supervisor and supporting technical personnel that is acceptable to the Owner's Representative, Owner, and Consultant during installation. Notify the Owner's representative in writing prior to any project supervisor replacement.
- F. The Contractor must maintain a fully staffed installation and service facility equipped with appropriate test equipment for repair of systems such as those specified herein.
- G. The Contractor shall be, or have direct relations through their subcontractors, an approved manufacturer's representative for all products they furnish and install.
- H. References:
 - 1. The Contractor shall submit the names, addresses and telephone numbers of the operating personnel who can be contacted regarding previous installed systems.
 - 2. Submitting incomplete or inaccurate reference information can be a reason to disqualify bidding Contractor.

1.09 COOPERATION AND COORDINATION

- A. Cooperate and coordinate as required with the Owner and Campus Staff.
- B. Provide all information as required or requested by the Owner, Architect, or Consultant for the project to be completed to the satisfaction of the Owner.

- C. Notify Owner's Representative in a timely manner of system design or installation conflicts, which affect the intended use, or performance of the system.
- D. Attend job construction and progress meetings that the Owner, or Owner's Representative deems necessary.

1.10 QUALIFICATIONS

A. Manufacturer

- 1. The manufacturer will have a minimum of ten (10) years' experience in the manufacture of sound system products.
- 2. Maintain a 24-hour toll free telephone assistance line or online presence for customer and installer support.

B. Contractor

- 1. The Contractor selected to provide the installation of this system will be certified by the manufacturing company in all aspects of design, installation and testing of the products described herein.
- 2. The Contractor will utilize the authorized manufacturer components in provisioning this Project.
- 3. Contractor will have a minimum of three (3) years of recent experience with the proposed manufacturers' products.
- 4. Contractor will have a minimum of five (5) years' experience with the design, installation and project management of local sound systems.
- 5. Contractor will comply with all federal, state and local statutes regarding qualifications of firms.
- 6. The Contractor will be experienced in all aspects of this work and will be required to demonstrate direct experience on recent systems of similar type and size.
- 7. The Contractor will have personnel who are adequately trained in the usage of such tools and equipment.
- 8. Contractor must provide On Site Supervision and Project Management by person(s).
- 9. The Contractor must have previously established offices located within 75 miles of the project location as the starting point.
- 10. The Owner reserves the right to reject bid of any bidder who has previously failed to perform properly, or complete on time, contracts of a similar nature.

1.11 BID

A. Contractor will be required to provide the following documents with the bid response.

- 1. Training certificates for design, engineering and installation of the proposed product types.
- 2. The contractor must show proof that Public Address System integration is the primary function of the company.
- 3. Contractor will provide a list of all current installations that will be ongoing during this project, and the manpower requirements for each of those installations.
- 4. The preferred Contractor will have a minimum of (3) three references. Contractors providing a reference with an invalid phone number will be considered as an incomplete response and may be disqualified.
- 5. Contractor will provide a sample of the warranty that would be provided to the Owner when the installation is complete and documentation of the support procedure for warranty issues.
- 6. Contractor will submit a resume of qualification with the Contractor's bid proposal indicating the following:
 - a. A technical resume of experience for the Contractor's Project Manager and on-site installation supervisor (Project Foreman) who will be assigned to this project. The project manager should have a minimum of 5 years' experience on projects of similar size and design. The Project Foreman will have a minimum of 3 years related project experience working crews of 4 or more personnel.
 - b. A list of technical product training attended by the Contractor's personnel that will install the system.

- c. Any sub-Contractor who will assist this section Contractor in performance of this work, will have the same training and certification as the Contractor. The use of Sub-contractors is not prohibited for this project.

1.12 DELIVERY STORAGE AND HANDLING

- A. Deliver, Storage and Protection
 1. Contractor shall verify all site conditions are suitable for delivery of product.
 2. Deliver products in manufacturer's original, unopened, undamaged containers with labels intact.
 3. Contractor shall provide all equipment and materials necessary for the delivery of materials safely and securely on site.

1.13 PROJECT CONDITIONS

- A. Project Environmental Requirements.
- B. Comply with requirements of referenced standards and recommendations of material manufacturers for environmental conditions before, during, and after installation.

PART 2- PRODUCTS

2.01 PRODUCT SPECIFICATIONS

- A. Hardware: Contractor shall supply equipment, accessories, cables, and connectors necessary for system to operate according to stated functional requirements, whether said products are listed.
- B. Software: Contractor shall utilize Manufacturer's official current version of configuration software.
- C. Control Interfaces: Shall be labeled or configured with graphical user interface as appropriate.
- D. Power Supplies: As required, Contractor shall provide necessary power supplies for amplifiers requiring DC voltage to power Ethernet card when forced in standby mode.
- E. Uninterruptible Power Supplies (UPS): Contractor shall provide a minimum of one UPS per audio-visual equipment rack for all pre-power amplifier equipment, whether specified or shown. Signal processing equipment and a minimal amount of audio amplifiers shall be connected to the UPS to allow for the Owner to announce emergency instructions of the audio-video system if desired.

2.02 GENERAL

- A. Provide a complete solution for unifying all campus public address system devices with an easy-to-use software interface. Use specialized server software, hardware components, and a data network for bells, public address announcements, and intercom communications throughout campus. The user interface of the system shall be an intuitive, easy-to-use, Web-based application that allows office personnel to easily manage bell schedules, make pre-recorded or live announcement to various zones, and conduct intercom communications with individual locations.
- B. Manufacturers:
 1. VALCOM, Inc Roanoke VA USA
- C. IP6000 COMMUNICATION SYSTEM
 1. The Applications Server, Model VE6025, when used in a Class Connection IP6000 IP School Communications System shall provide scheduling, clock control and on demand distribution of WAV formatted audio to simultaneous groups of speakers per event. The server shall feature simple browser-based interface to facilitate easy manipulation of custom audio files for use as class change tones or emergency notification. Schedules shall be capable of automated initiation based upon day of the week, calendar date up to one year in advance and shall feature manual control capability. The 1U server shall utilize web browser access for setup of schedules, and real-time control. The server shall be capable of simultaneously operating multiple schedules, events per schedule and simultaneously occurring events. The schedules shall feature one-second event resolution. Events shall be capable of controlling paging, relays, and/or streaming audio. The server shall allow cascading events from a single time trigger. Schedules shall be presented to the user in a calendar view showing school year and months with tabs for other options. The server shall provide for default screen view after login and permissions per user. The Application Server shall provide on demand access of

- pre-loaded audio files via web browser or contact closure. Additionally, the Applications Server shall provide for "Quick Page" on demand triggers for easy origination of unscheduled events and shall import and convert audio files from many .wav formats with both an option to enhance audio files during import and an option to record page audio to a file. Events shall feature programmable pre/post page delays and volume control per event. The server shall control VE8001AR/VE8002AR/VE8004ARs to provide streaming audio to page group(s) and shall use VE8048 inputs to execute events from the Playlist. Controlling VE8048 relays from events shall be inherent. The server shall communicate with VIP-102B setup tool for setup and dial code and group information. Users shall have the ability to enter names for displaying dial codes, page groups, inputs, events, and schedules.
- D. Shall seamlessly integrate to any VoIP/SIP or legacy phone system via SIP, FXO or Loop Start Trunk.
- E. Contractor shall provide (1) VE8014AR at the MDF and connect (1) port to the existing telephone systems trunk port. System shall be able to add analog access talk paths with 4 (four) ports.
- 1.FXS station port access shall be via CC Model #VE8014BR (four ports).
- F. Enhanced Network Station Port Model VE801XAR will provide a single 10/100 Ethernet port and one to four FXS station ports. The Enhanced Network Station Port Model VE801XAR will provide all circuitry and software to convert network data to audio output and analog telephone control signals. The Enhanced Network Station Port Model VE801X will provide all circuitry and software to convert input audio and analog telephone events to zone page audio and control information suitable for transmission to other Class Connection IP Solutions products. The Enhanced Network Station Model VE801XAR shall be powered by an 802.3af PoE Ethernet switch port.
- G. Contractor shall provide a one or more Networked Page Zone Extenders at the MDF and each IDF. The purpose of this Networked Page Zone Extender is to provide streaming audio out to common area speakers (analog speakers). Connect the building's common area speakers to the Networked Page Zone Extender channels are required. The Networked Page Zone Extenders shall provide a single 10/100 Ethernet port, audio input/output circuits and N.O. relay contact outputs. The unit shall be SIP compatible. The Networked Page Zone Extender shall provide all circuitry and software to convert network data to zone page audio output. The Networked Page Zone Extender shall also provide all circuitry and software to convert input audio to zone page audio and control information suitable for transmission to other Class Connection IP Solutions products over a data network. The Networked Page Zone Extender shall be powered via an 802.3af PoE Ethernet switch port.
- 1.Low level audio connection shall be via Model #VE8004BR (four ports)
- H. EQUIPMENT SHELF
- 1.Provide 1 RMU rack shelf, single sided as required.
 - 2.Rack shelf shall be Valcom Model #VP-9202
- I. CLASSROOM SPEAKER CLOCK COMBO (S1-01)
- 1.Required Class Connection IP talkback speakers, clock and display combo shall be VL520BK-F.
 2. The classroom speaker clock combo shall be installed center on the teaching wall. To provide consistency, the teaching wall shall be identified by the location of the existing marker boards. If multiple walls contain existing marker boards the Contractor shall coordinate with the Owner's Representative prior to installation of the speaker.
 - 3.Where an existing wall mounted projector exists, the speaker clock combo shall be installed above the projector and so that it is visible from the seating area.
- J. LARGE SPEAKER CLOCK COMBO (S1-02)
- 1.Provide protective wire cage for Gymnasium.
 - 2.Acceptable Manufacturer: Valcom
 - 3.Acceptable Model: ~~VE1225S~~ VL550BK-F
- K. COMMON AREAS AND CORRIDORS

1. Existing audio amplifiers shall be tested with existing speakers prior to demolition. Provide a complete test report to the Owner.
 2. New audio amplifiers required for common areas and corridors shall be located within the nearest IDF. Coordinate with Owner's IT department for access and device placement.
 3. Contractor to confirm with Owner all paging zone requirements.
 4. Speakers that have been found defective shall be replaced with the following models. Pricing shall be approved prior to purchase and installation.
 - a. The one-way wall mount speaker type (S1) for Common Areas and Corridors shall be Model # V-1920C with # VB-S11 square surface mounted metal backbox.
 - b. The one-way 2' x 2' lay in tile speaker type (S1) shall be Model # V-9022A-2 for Common Areas and Corridors.
- L. BUILDING EXTERIOR (S1)
1. Required Class Connection One Way Horns for the building exterior shall be:
 - a. The one-way flex horn Model # V-9830-W with enclosure and square cover.
- M. INTERIOR CLOCKS / DIGITAL SIGNAGE
1. Required Valcom IP Clocks shall be 4" digital displays in red.
 2. Contractor to provide the following models:
 - a. Single sided VIP-D440A
 - b. Double sided VIP-D440ADS
 3. Controlled and Set-Up via a software interface.
 4. Powered Over Ethernet
 5. Accurate via updates from a network time server
 6. Where a clock exists the Contractor shall remove the old device and provide a new clock as specified that is connected to the new Public Address System.
 7. If a campus corridor does not have existing clocks within, the Contractor shall provide one new digital clock location at midpoint. The intent is that each Corridor shall receive a minimum of one new digital clock.
- N. POWER SUPPLIES
1. Provide and install power supplies as required within the nearest IDF/MDF.
 2. Power supplies shall be Valcom Model # V-C6124P
- O. PUSH-TO-TALK MICROPHONE
1. Shall be installed at the reception desk.
 2. Provide and install Valcom Model #VE8092.
- P. TALK BACK GATEWAY
1. Acceptable Manufacturer: Valcom
 2. Acceptable Model: VE1225S
- Q. 2X2 CEILING TILE TALK-BACK SPEAKER (S1)
1. For use in spaces with ceiling tile speakers that require 2-way communication.
 2. Acceptable Manufacturer: Valcom
 3. Acceptable Model: V-9062
- R. PUSH TO TALK (PTT)
1. Acceptable Manufacturer: Valcom
 2. Acceptable Model: VE2972A
- S. PANIC BUTTON (PB)
1. Acceptable Manufacturer: Valcom
 2. Acceptable Model: V-2976
- T. PAGE SENSE
1. Acceptable Manufacturer: RDL
 2. Acceptable Model: TX-PCR1 with PS-24AS

2.03 WIRE AND CABLE

A. Minimum Specifications

1. All wire and cable shall be UL approved, meet all national, state and local codes, and manufacturers recommendations for connected components for its intended application.
2. Plenum Insulation shall be rated for a minimum of 300 volts and satisfy the Underwriters Laboratories (UL) listed fire rated cable insulation requirements in plenum areas.
3. Cable runs shall be continuous runs. Mid-span cable splicing is not acceptable.
4. Any pulling compound or lubricant used in cable installation shall not deteriorate the conductor or the insulation.
5. All cabling shall have machine generated labels self-laminating or wrap around. Handwritten labels shall not be accepted.
6. Under carpet wiring and flat wiring shall not be used.
7. Manufacturers recommended cabling supersedes wire specified below.
8. Contractor responsible for verifying all plenum rated spaces prior to installation. Provide Plenum rated cable as required.
9. Contractor to verify and provide cabling that is applicable to its installed environment.
10. All Pre-Amplifier audio cable shall be balanced unless otherwise noted.
11. NO NYLON CABLE TIES.

B. HDBaseT AND AV/IP CABLES

1. CAT6 or better
2. Ensure that the cables pairs remain twisted together for canceling out Electromagnetic Interference (EMI) from the external sources are not exposed even partially, as it results in EMI issues.
3. Use cables that are resistive to bend loss if excessive bending of cables cannot be prevented due to installation constraints.
4. Avoid mounting the cabling components in places that block accessibility to other equipment (such as a power strip or fans) in and out of the racks.
5. Avoid
 - a. Applying extra twists.
 - b. Pulling or stretching beyond the specified pulling load rate.
 - c. Bending it beyond the specified bend radius, and not beyond 90°.
 - d. Creating tension in the suspension runs.
 - e. Stapling or applying pressure with the cable ties.
6. Avoid exposing cables to areas of condensation and direct sunlight.
7. Remove the abandoned cables, as they restrict the airflow, and contribute to the possible increase in the operational temperatures, which can affect the durability of the system.
8. The NEC (NFPA 70), Article 800.133 (2005 NEC) indicates the separation requirements. This section of the NEC specifies the following: Communication wires and cables shall be separated at least 50 mm (2 inches) from conductors of any electric, power, Class 1, non-power limited fire alarm, or medium-power network-powered broadband communication circuits. However, there are multiple exceptions to this generic rule, so refer to the NEC (NFPA 70) standard for more information.

C. ACCEPTABLE MANUFACTURERS

1. Belden
2. West Penn
3. Crestron
4. Extron
5. Liberty

D. JACKS, CONNECTORS AND WALLPLATES

1. All custom A/V panels shall be minimum 1/8" brushed aluminum with engraved paint filled legends unless otherwise noted.
2. All AV connectors shall be Neutrik or Switchcraft brand (non-crimp) or approved alternative.
3. All HDBaseT and AV/IP connectors shall be Leviton or approved alternative.

E. OTHER REQUIREMENTS

1. All materials and equipment proposed by the Contractor shall be new and unused. Equipment refers to all hardware, cabling, materials and incidentals, etc.
2. All equipment shall be installed per the manufacturer's instructions.
3. All boxes should be stored until substantial completion.
4. System shall be complete and free from all hums, buzzes and defects.
5. Any alternates must be approved by the system designer prior to bid.

PART 3- EXECUTION

3.01 INSTALLATION

- A. This Section includes installation requirements of the Integrated Audio-Video. If you have any questions regarding the intent or application of any feature, submit these questions to the principal contact for this project, as indicated in Division 00. This section covers the general requirements for the installation of the equipment by the Contractor.
1. All work shall be done in a thorough and conscientious manner according to industry standards and shall be subject to inspection and acceptance.
 2. The Contractor shall be certain that all installation work areas are secure and made safe in accordance with Occupational Safety and Health Administration (OSHA) regulations.
 3. An appropriate construction schedule shall be developed by the Contractor and will be subject to approval by the Owner's representatives. The construction schedule shall include at least one installation supervisor, or lead technician, for on-site management of the project.
 4. Prior to starting the installation, the assigned installation supervisor, or lead technician, shall participate in a "walk-through" of the project location with the Owner's representatives to review the installation documentation, verify that all construction necessary for the installation has been completed, and verify all installation methods and cable routes.
 5. The Contractor shall be responsible for completing a standardized report form addressing the weekly progress of the installation schedule.
 6. The Contractor shall maintain conductor polarity identification at the main equipment room, backbone, and horizontal connections in accordance with industry practices.
 7. The Contractor shall provide any necessary screws, anchors, clamps, tie wraps, distribution rings, miscellaneous grounding and support hardware, etc., necessary to facilitate the installation of the system.
 8. The Contractor shall be responsible for labeling all cable, distribution frames, and outlet locations, according to industry standards.
 9. It shall be the responsibility of the installation Contractor to furnish any special installation equipment or tools necessary to properly complete the installation.
 10. The Contractor shall not roll or store cable reels without an appropriate underlay.
 11. The Contractor shall not place any distribution cabling alongside power lines, or share the same conduit, channel or sleeve with electrical apparatus.
 12. The Contractor shall insure that the maximum pulling tensions of the specified distribution cables are not exceeded at any time during the placement facilities. Failure to follow the appropriate guidelines may require the Contractor to provide additional material and labor necessary to properly rectify the situation. This shall also apply to any and all damages sustained to the cables by the installation Contractor during the implementation.
 13. The Contractor shall plug conduits where cabling has been installed by the installation Contractor in the equipment rooms, backbone and other cable entrance locations with re-enterrable duct seal of flame-retardant putty.
 14. Materials shall be consistent throughout the building. Where two or more units of the same class of equipment are required, these units shall be the product of a single manufacturer and shall be the same product with the same material, model, and manufacturer number.
 15. Wiring, materials, and equipment will be delivered and stored in a clean dry space. They will be properly packaged in factory fabricated type containers and protected from damaging fumes, construction debris and traffic until job completion.

16. The wiring, materials, and equipment furnished for this request shall be essentially the standard product of the manufacturer.
17. All installation techniques and fixtures shall result in ease of maintenance and ready access to all components for testing measurements. All external screws, nuts, and locking washers shall be stainless steel. No self-tapping screws shall be used unless specifically approved by the Owner's representatives. All parts shall be made of corrosion resistant material, such as plastic, anodized aluminum or brass. All materials used in installation shall be resistant to fungus growth and moisture deterioration. An inert dielectric material shall separate dissimilar metals apt to corrode through electrolysis under the environmental operating conditions specified.
18. The Contractor will submit for approval, a detailed description of the procedures and equipment included for the complete operational installation.

B. Wiring Plan Requirements

1. Distribution of the cabling will be accomplished through cable trays, conduit raceways, ducts, core-holes, extended columns, false half columns and plenums. Cabling shall be run at right angles from cable trays. Horizontal cable segments will be placed in cable trays and with cable exits/entrances supported by distribution rings or J-hooks. Cable may not rest on ceiling tile, be supported on existing ducting, tied or supported by fire alarm, security or electrical infrastructure nor interlaced with existing cable.
2. The Contractor shall be responsible for providing an approved ground at all equipment locations. The Contractor shall also be responsible for ensuring ground continuity by properly bonding all appropriate cabling, closures, cabinets, service boxes, and frameworks. All grounds shall consist of minimum 6 AWG copper wire or larger as required by code and shall be supplied from an approved building ground and bonded to the main electrical ground.
3. Observe proper circuit and loudspeaker wiring polarity. Properly and clearly label connections and wires as to function and polarity. No cables will be wired with polarity reversal between connectors, at either end. Take care when wiring microphone cables to ensure that constant polarity is maintained.

C. Cable Management

1. Maintain segregation of cables. AC power cables or speaker cables should not be run parallel within close proximity to signal wires (within 2"), unless the wires are twisted.
2. Bend radius for twisted-pair cables is standardized at 12" (3" diameter).
3. Bundle cables within the guidelines of 2005 National Electrical Code (NEC) in Article 310.15(B)(2).

D. Rack Dressing

1. All Racks require Lacer Bars or Strips to provide clean cable management within the rack.
2. All racks require the cable segregation of AC cables, Speaker Cables, low impedance balanced cabling and twisted pair cables.
3. All AV Racks should be assembled and tested at the Contractor's facility and transported to the job site when possible.
4. No Cable Ties; Velcro only.

E. Identification, Labeling and Documentation

1. The Contractor shall label all termination devices, panels, enclosures and equipment rooms. The Contractor will mark each unit with permanently attached, self-laminating markings that will not impair the equipment or present a hazard to maintenance personnel.
2. Place wire identification numbers on each end of all conductors. Install markers to be readable from left to right or top to bottom. Wire numbers shall be computer printed. Handwritten labels are not acceptable.
3. Mark all spare conductors and coiled neatly located at the bottom of the equipment rack.

3.02 TESTING REQUIREMENTS

- A. The Contractor shall perform sample tests in the presence of the Owner's representatives. Performing the testing procedures specified herein assures that the equipment and interconnection meets the performance characteristics specified. If testing indicates that the performance charac-

teristics are not met, the test shall be declared a failure. The communication equipment and interconnection cabling shall be modified and/or repaired accordingly. The failed test and any other test that may be affected by the modification and/or repair shall be rerun. After all components have been installed, the integrity of the equipment and interconnection cabling shall be verified.

- B. If system test fails because of any component(s) in the system, the failed component(s) shall be corrected or substituted with other components and the tests shall be repeated. If a component has been modified because of the system test failure, a report shall be prepared and delivered to Owner's representatives prior to retesting. The Contractor shall prepare and submit all test procedures and data forms for the post installation and system test to the Owner's representatives.
- C. The test report shall contain the description of all tests performed, the results obtained, and any required adjustments or modifications necessary because of testing and installation. This report shall reflect the as-built communication equipment and interconnection cabling. An authorized representative of the Contractor shall sign the test report. At least three copies of the test report shall be sent to the Owner's representatives.

1. Sample test report

ITEM	ROOM/AREA	INPUT / OUTPUT	SOURCE	TEST RESULT	RECOMMENDED CORRECTIVE ACTION
1	Cafeteria Stage	AV-01 HDMI IN	Tech Laptop	No image displayed.	Verify HDBaseT connectivity on 12/25/19.

- D. The test procedures shall have the Owner's representative's approval before the tests.
- E. Contractor shall demonstrate to the Owner's representatives that the equipment operates as specified and that the tests meet performance requirements.
- F. The Contractor shall ensure that the equipment is in first-class working condition and free of short circuits, ground loops, parasitic oscillations, excessive hum, RF interference, or instability of any form.
- G. The Contractor shall test each operational component and adjust for equal sound levels at a given volume setting and replace defective items.
- H. Contractor shall ensure that all loudspeaker and distributed audio systems described herein are balanced and optimized for maximum quality sound and coverage of listening areas.

3.03 TRAINING

- A. System training shall be provided for the operator/user and technical staff.
 - 1. Operator/user training shall be held at Owner's convenience and to the Owner's satisfaction.
 - 2. Technical operation and maintenance training shall be held at Owner's convenience and to the Owner's satisfaction.
 - 3. The Contractor shall provide documentation demonstrating the Owner and/or Owner's Representatives understand the operation and maintenance of the system.
- B. Complete operation and maintenance manuals and preliminary as-built drawings shall be delivered to the Owner one week prior to training sessions.
- C. Operator/user training shall minimally consist of:
 - 1. Provide printed reference material for each trainee that documents and explains in layman's terms:
 - a. System block diagram
 - b. Normal day-to-day operation
 - c. Operator selectable features
 - 2. Provide a hands-on training with Q & A session
- D. Technical Operations and Maintenance training shall consist of:
 - 1. The technical explanation shall be sufficiently thorough that staff personnel shall be able to make any programming changes required, analyze malfunctions and make equipment substitutions or bypasses necessary to maintain system operation except for the malfunctioning equipment or circuits.

2. Provide printed reference material for each trainee that documents and explains in technical terms:
 - a. System block diagram with technical features
 - b. Technical operation, adjustments and programming
 - c. System features and programming
 - d. Review of as-built drawings.
 3. Provide a hands-on training with Q & A session.
- E. Contractor will provide a complete and comprehensive list of the maintenance schedule for all installed and/or provided equipment. The list shall be provided in both printed and Adobe Acrobat formats.

3.04 ACCEPTANCE OF SYSTEMS

- A. Specifications set forth for construction of the system have been devised to insure system compatibility and performance. Compliance to these specifications will be determined during periodic observances of construction. Repeated failure to comply with the specification will be considered before the initial acceptance phase of the plant commences.
- B. Prior to Contractor performed final testing, deliver preliminary as-build documents to Owner for use in conducting testing observation.
- C. Project Record Documentation
1. Upon completion of final engineering and incorporation of the Architect review comments, Contractor will provide to the Architect for its records the following close out documentation:
 - a. Record or As Build Drawings which shall include but not limited to:
 - 1) Functional block diagrams for each Integrated Audio-Video System. Reproduction of Audio-Video Consultant functional block diagrams shall not be accepted.
 - 2) All Integrated Audio-Video or Audio-Visual junction box locations
 - 3) Audio Visual equipment rack locations
 - 4) Rack elevations
 - (a) Rack elevations shall show all components as installed under this contract.
 - (b) Contractor will label each component describing the component. (Examples: Cafeteria Amplifier or Gymnasium DSP etc).
 - 5) Floor plan drawings with device locations and associated assigned item number.
 - 6) Mounting detail for equipment and hardware.
 - 7) Schedule of all devices with associated panel termination, zoning, power circuits, etc.
 - 8) Corrected product submittal information
 - b. A complete inventory list of installed products shall include:
 - 1) Manufacture Name
 - 2) Model Number
 - 3) Serial Number
 - 4) Room number and/or description of installed location
 - c. Operation and Maintenance Manuals shall include
 - 1) Include detailed procedures for system operation that begin with startup procedures and continue through system shut down referenced in section 3.3 Training.
 - 2) List of manufacture recommended maintenance and intervals with manufacture support contact information.
- D. Drawings will contain the Contractors own title block on the edge of the drawing and will include the company name, address, phone number and date of the final drawings.
1. Use of any part of the Architect title block is not acceptable at any time.
- E. Drawing documentation will be in the following format:
1. Two (2) electronic copies, one per flash drive shall be provided.
 - a. Drawings will be in both CAD (DWG) and PDF format and the Contractor will include all files on each drive.

- b. File transfer is acceptable.
 - 2. Drawings shall be provided to the architect two weeks prior to the final testing and commissioning of the system. Coordinate with the Owner during the pre-construction meeting for low voltage Contractors to schedule this delivery date.
 - 3. The drawings will be reviewed on site with the architect and the Owner prior to the final acceptance process. Drawings rejected for any reason will delay the final acceptance process until resolved.
- F. Testing Results
- 1. In addition to the project record drawings, the Contractor shall provide the testing information for all audio-visual cabling.
 - a. Test results shall be provided to the architect two weeks prior to expected final acceptance of the system(s). Coordinate with the Owner during the pre-construction meeting for low voltage Contractors to schedule this delivery date.
 - b. The drawings will be reviewed on site with the architect and the Owner prior to the final acceptance process. Test results rejected for any reason will delay the final acceptance process until resolved.
- G. Once accepted by the architect and Owner all documentation / program code becomes the property of the Owner
- H. Within ten days receipt of the final acceptance notice, the Owner's representatives shall schedule and perform the final inspection. When the work is found acceptable under the contract documents and the contract is fully performed, declare substantial completion of the project.

3.05 WARRANTY

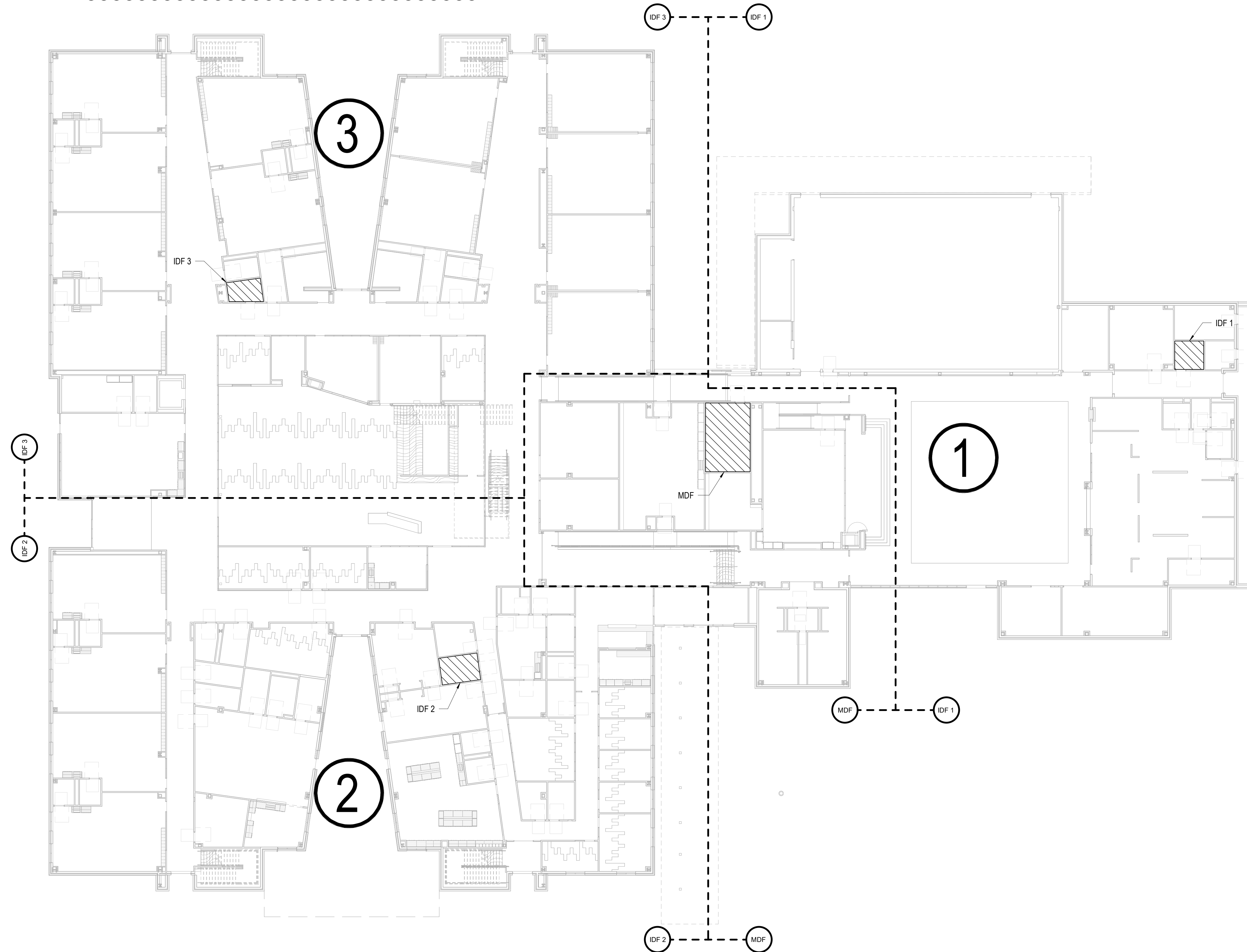
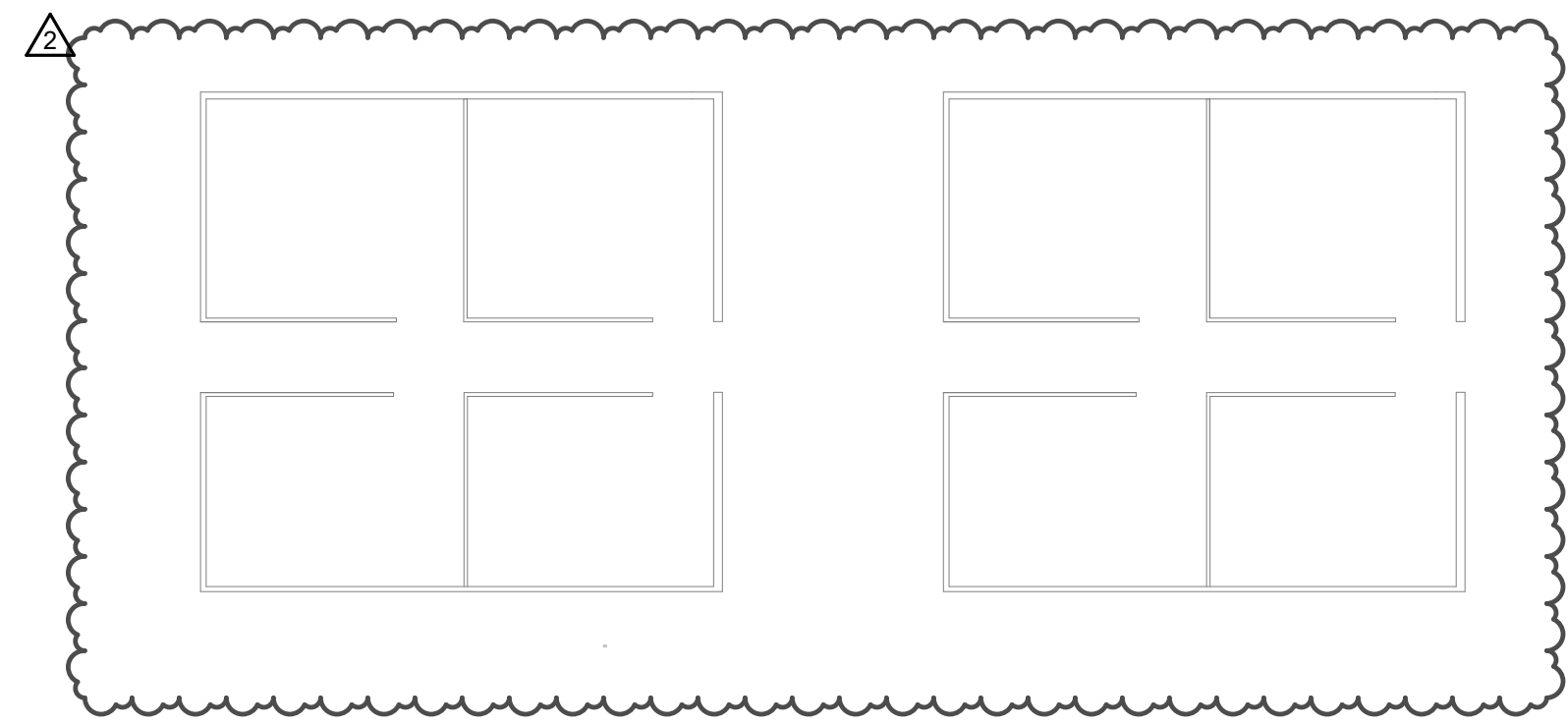
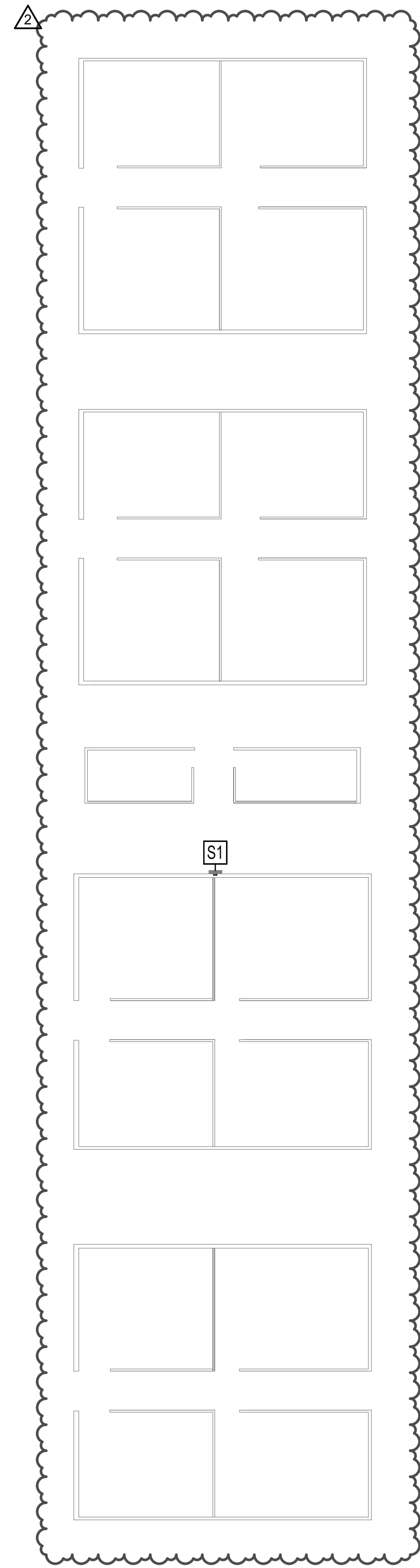
- A. The Contractor shall warrant and guarantee all work against defects in material, equipment or workmanship for one (1) year from the date of substantial completion of the entire project.
- B. Upon receipt of written notice, Contractor shall remedy defects within thirty (30) days or the Owner shall correct the defects and the Contractor, or its surety shall be liable for expenses.

END OF SECTION

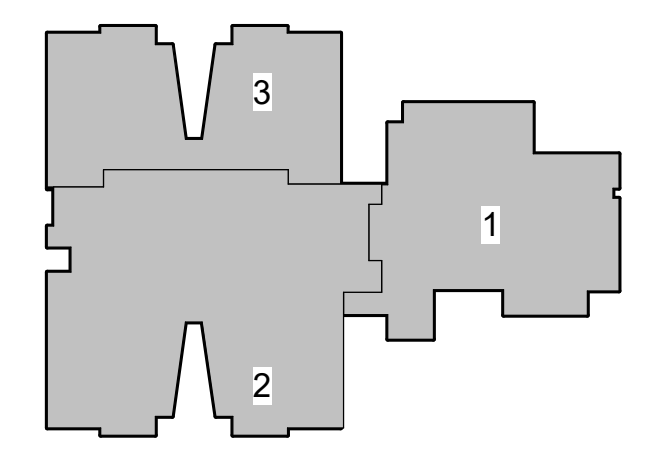


Request For Competitive Sealed Proposals
Public Address Systems Replacement
RFP #24-03-20
Igo ES, Jarrell ES, and Jarrell MS
Addendum 1

Technology plans updated for
“Igo Elementary School – Public Address System Replacement”
[3 pages]

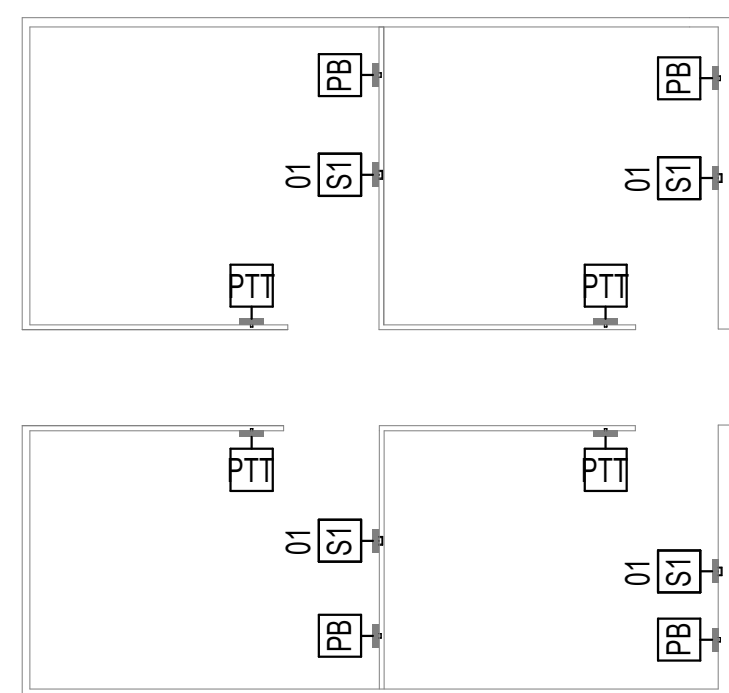
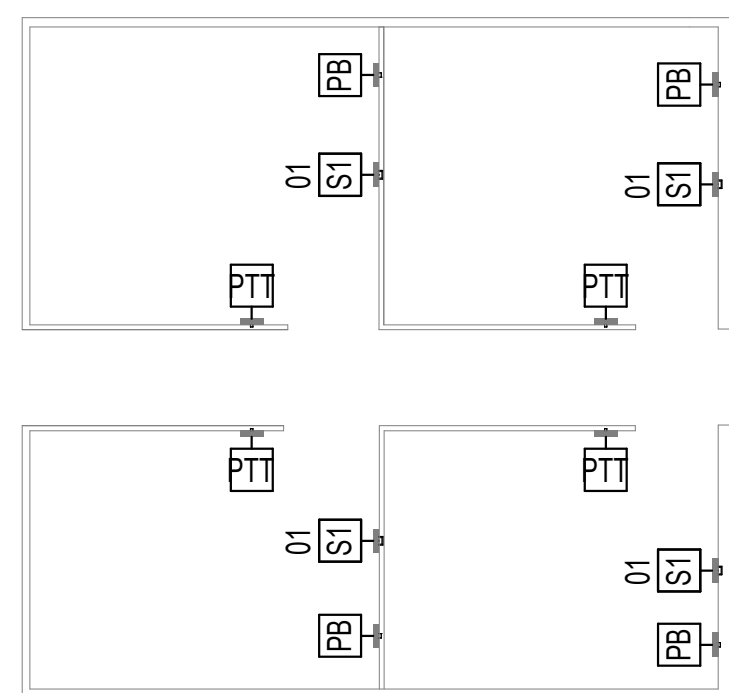


1 MASTER PLAN - FIRST FLOOR
T1.1 1/16" = 1'-0"

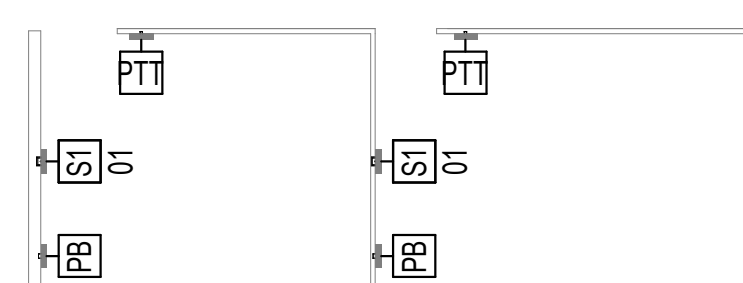
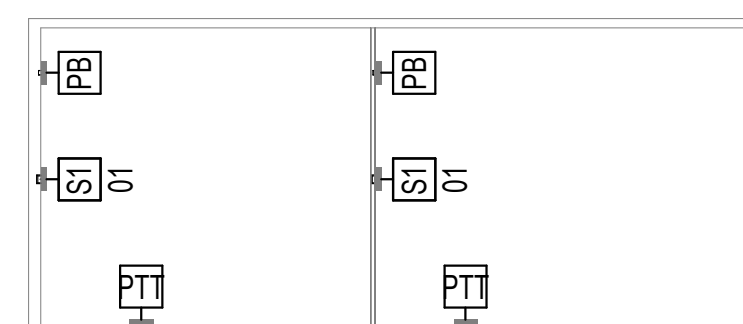
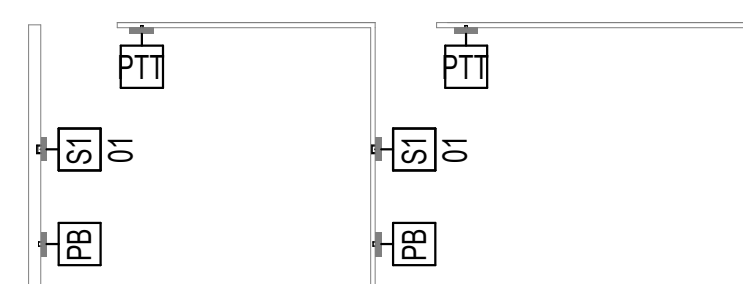
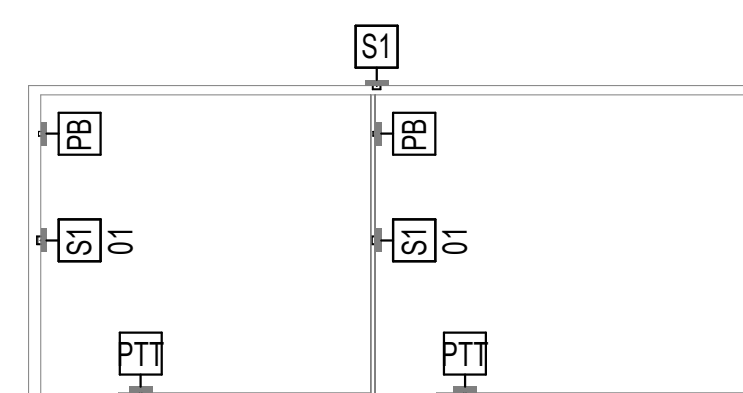
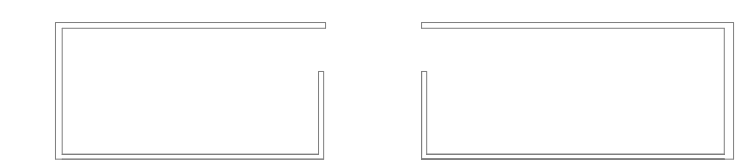
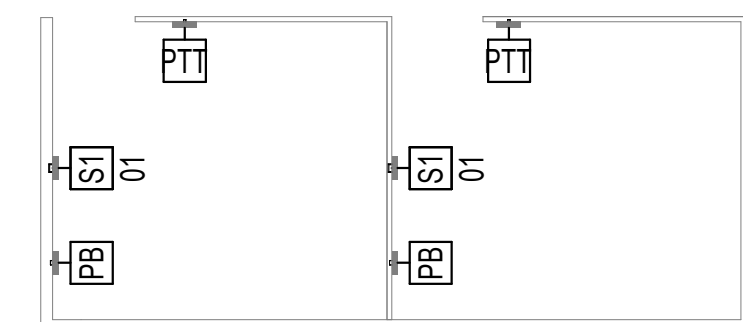
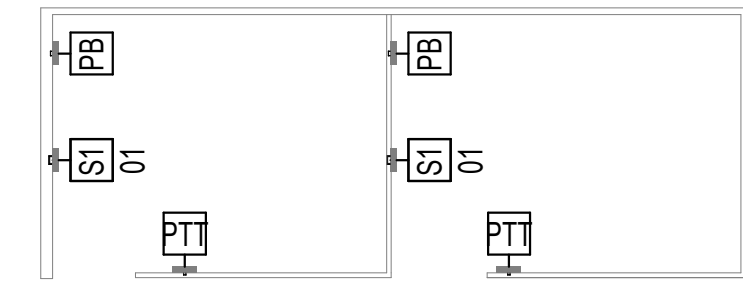
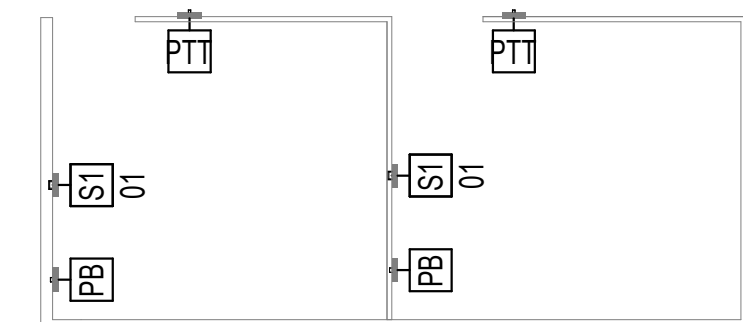
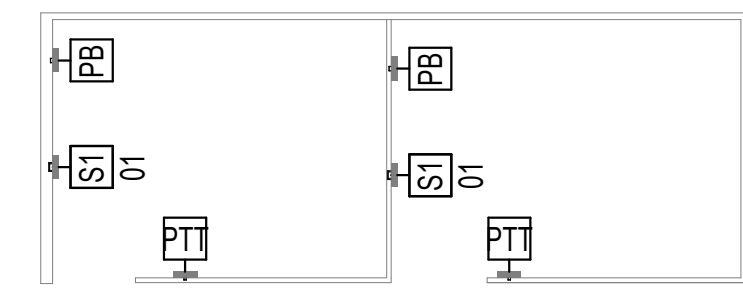


KEY PLAN - 1ST FLOOR
NTS

Project: IGO ELEMENTARY SCHOOL PUBLIC ADDRESS SYSTEM REPLACEMENT FOR JARRELL I.S.D. JARRELL, TEXAS	
Revision: 2	Date: 03/28/24 ADD 01
Description:	
MASTER PLAN - FIRST FLOOR	
VOLUME	
Job No: D-JAR-1001-03	Sheet No: ADD 01
Drawn By: JF	T1.1
Designed By: NTS	of
Date: 03/29/24	



2 PORTABLES 3
1/16" = 1'-0"



1 PORTABLES 4
1/16" = 1'-0"

Description

Revision: 2
Date: 03/28/24
ADD 01

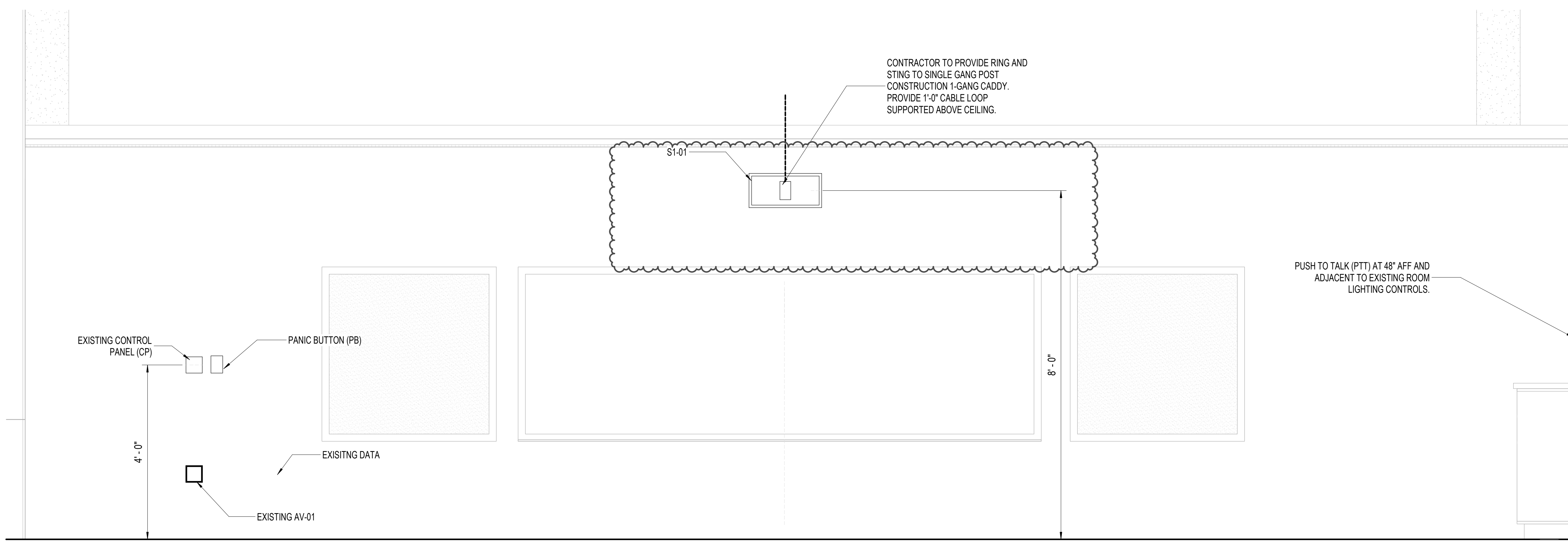
Project:
 IGO ELEMENTARY SCHOOL
 PUBLIC ADDRESS SYSTEM REPLACEMENT
 FOR
 JARRELL I.S.D.
 JARRELL, TEXAS



FLOOR PLAN - PORTABLES

Job No. D-JAR-1001-03	Sheet No. ADD 01
Drawn By: OG, MB	T1.8
Designed By: OG, MB	
Date: 03/28/24	of

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1 TYPICAL CLASSROOM ELEVATION
 T3.1 3/4" = 1'-0"

Revision	Date	Description
2	03/28/24	ADD 01

IGO ELEMENTARY SCHOOL
 PUBLIC ADDRESS SYSTEM REPLACEMENT
 FOR
 JARRELL I.S.D.
 JARRELL, TEXAS

Project:

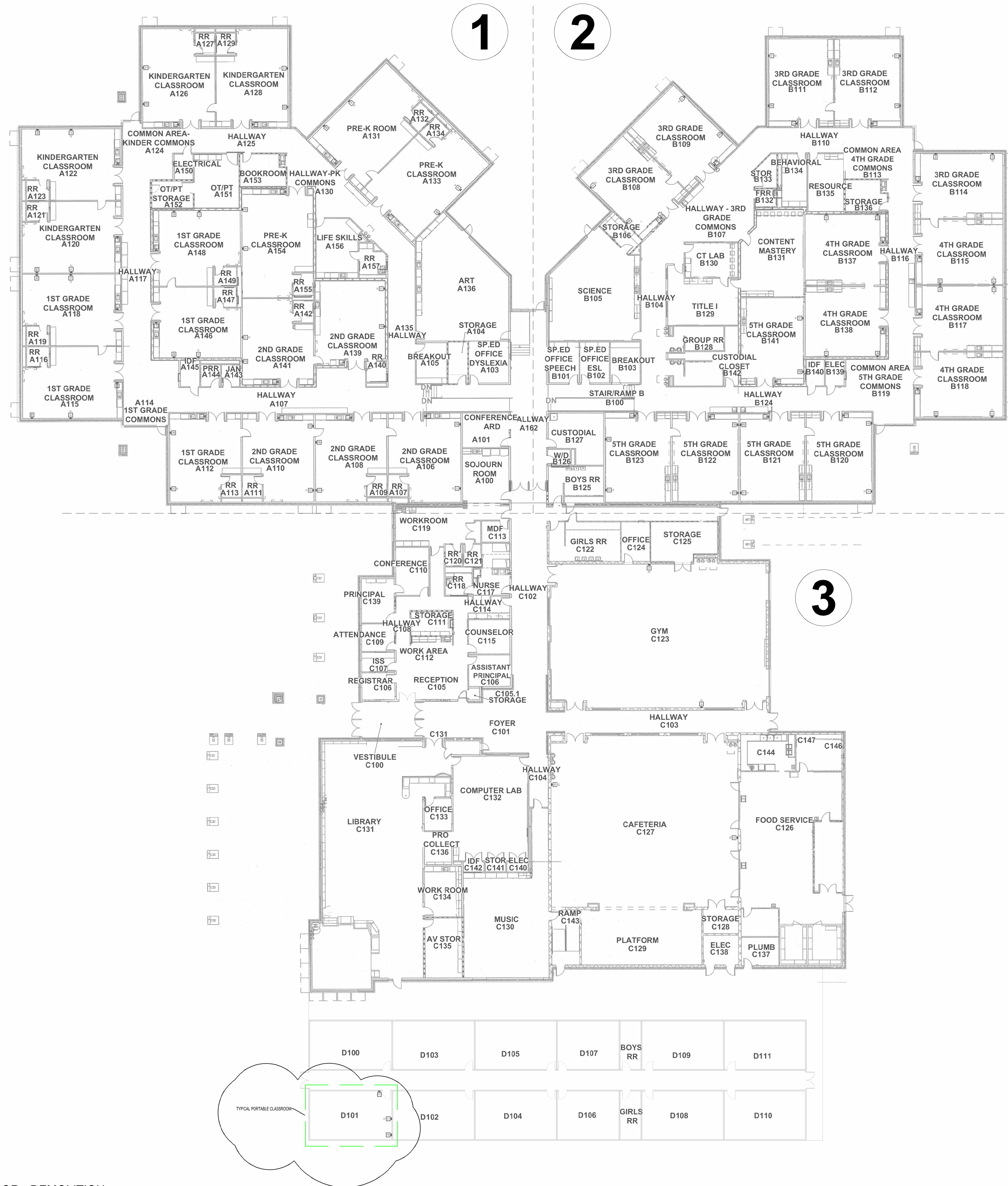


SECTION VIEWS	
VOLUME	
Job No. D-JAR-1001-03	Sheet No. ADD 01
Drawn By: JF	T3.1
Designed By:	of
Date: 03/29/24	



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[1 page]



TYPICAL PROJECT NOTES:

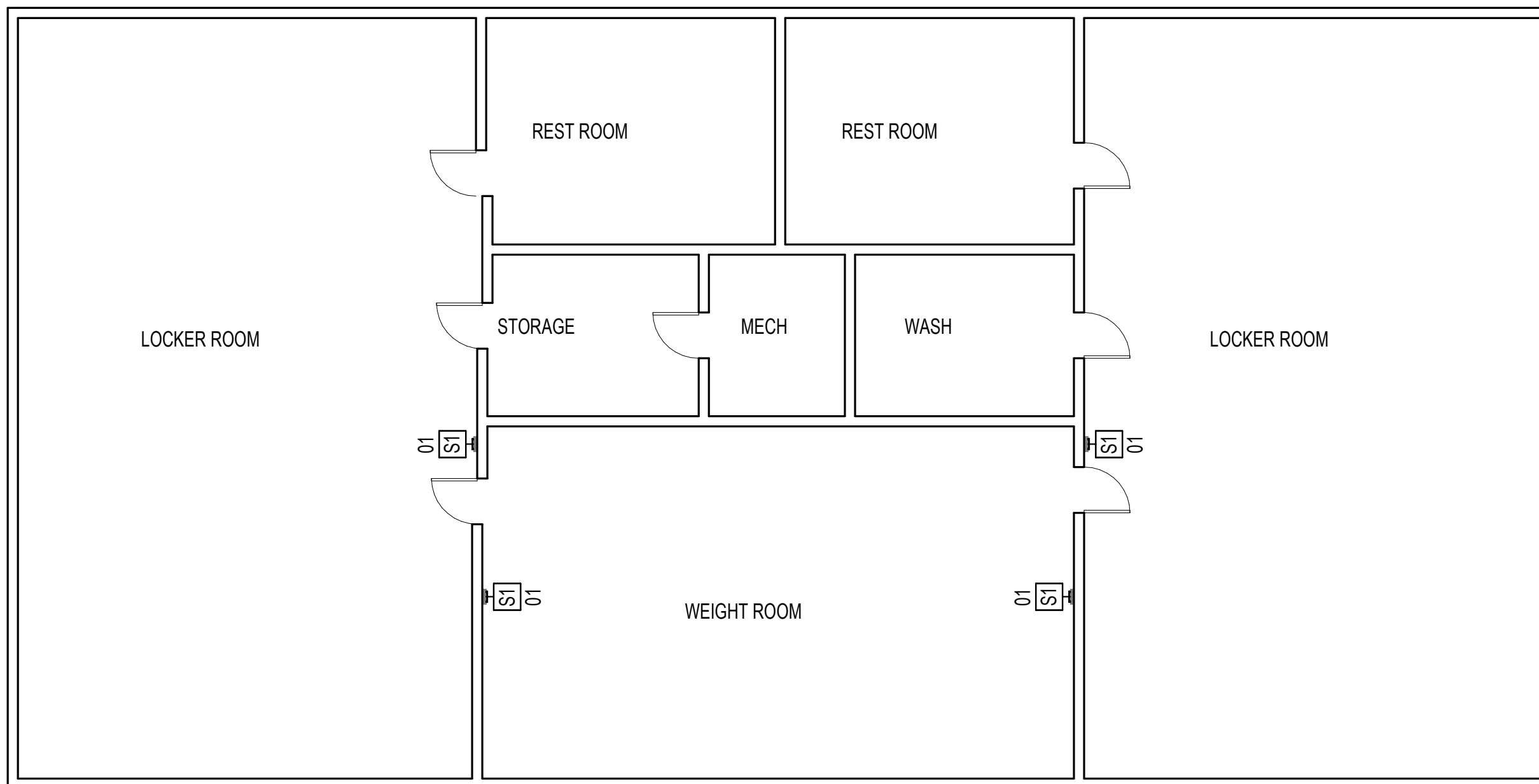
1. ALL EXISTING CLOCK LOCATIONS SHALL BE REMOVED BY THE CONTRACTOR. NEW IP CLOCK DEVICES SHALL BE INSTALLED PER SPECIFICATIONS.
2. EXISTING EXTERIOR, CORRIDOR AND COMMON AREA SPEAKERS SHALL BE RE-USED. COMPLETE INITIAL TESTING PRIOR TO DEMOLITION OF EXISTING HEADEND. PROVIDE COMPLETE TEST REPORT WITH A RECOMMENDED REMEDY TO ANY DEFECTIVE EQUIPMENT.
3. ALL EXISTING CLASSROOM AUDIO SYSTEMS TO REMAIN. THE NEW PUBLIC ADDRESS SYSTEM SHALL CONNECT TO THE EXISTING AUDIO SYSTEM TO PROVIDE FOR AN EMERGENCY PAGE MUTE FUNCTIONALITY.

ADD 01	PUBLIC ADDRESS SYSTEM REPLACEMENT
	JARRELL ISD ELEMENTARY SCHOOL
 <small>TECHNOLOGY + SECURITY CONSULTING 800.685.6440 www.cruxsolutions.com</small>	Sheet Name: MASTER PLAN - FIRST FLOOR
	Sheet No: T1.01



Request For Competitive Sealed Proposals
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“Jarrell MS– Public Address System Replacement”
[2 pages]



1 FLOOR PLAN - SECTION 3
T1.3 1/8" = 1'-0"

Description

ADD 01

Date: 3/29/24

Revision: 2

JARRELL MS PUBLIC ADDRESS REPLACEMENT
FOR
JARRELL I.S.D.
JARRELL, TEXAS

Project:



FLOOR PLAN - SECTION 3
FIELD HOUSE

VOLUME	
Job No. D-JAR-1001-03	Sheet No. ADD 01
Drawn By: MB	T1.3
Designed By: MB	
Date: 03/29/24	of