

NEW HAVEN UNIFIED SCHOOL DISTRICT

REQUEST FOR PROPOSAL

For

AUDIO VIDEO SYSTEMS

RFP #776

**NEW HAVEN UNIFIED SCHOOL DISTRICT
REQUEST FOR PROPOSALS #776
Audio Video Systems**

NOTICE TO BIDDERS

1. NOTICE IS HEREBY GIVEN that The New Haven Unified School District (“District”) hereby invites qualified specialists to submit proposals (“Proposals”) for the procurement and installation of **Audio Video Systems**, which shall also include related equipment, software, and the provision of training and support services to the District in response to this Request for Proposals (“RFP”).
2. Proposals should be submitted in the manner prescribed herein and for the systems and services requested herein. All required forms and submissions requirements are provided herein or attached hereto. Each person or entity that submits a Proposal to the District in response to this RFP shall be designated as a “Vendor”.
3. Please contact Chris Hobbs, Director of Technology, at New Haven Unified (510) 471-1100 x 60434, for information about the RFP.
4. Sealed proposals should be delivered to New Haven Unified School District. Proposals must be received by New Haven Unified no later than **2:00 P.M. on Friday, May 5, 2017**.

**New Haven Unified School District
34200 Alvarado-Niles Rd
Union City, CA
Phone: (510) 471-1100
Attention: Akur Varadarajan, Co-Superintendent**

5. A mandatory pre-bid conference will be held on **Tuesday, April 25 at 2:30 p.m.** at the Educational Services Center at 34200 Alvarado Niles Road, Union City, California.
6. If awarded the contract, the successful Bidder shall be required to furnish
 - a. A 100% Performance Bond
7. New Haven Unified reserves the right to reject any and all proposals and to waive any informality, technical defect or clerical error in any Bid Proposal Package, as the interest of the New Haven Unified School District may require. Any proposer may withdraw his/her proposal, either personally or by written request, at any time prior to the scheduled closing time for receipt of proposals.

Equal Opportunity Employer

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I. SCHEDULE OF EVENTS

The following are key dates for this RFP. The District is committed to adhering to this schedule, but reserves the right to make modifications.

- A. Publication in Newspapers: April 14 and April 21, 2017
- B. Potential Walkthrough Date: April 25, 2017 at 2:30 p.m. Educational Service Center.
- C. Vendor Questions Due: April 28, 2017
- D. Responses to Vendor Questions: May 2, 2017
- E. Proposals Due Date: **2:00 p.m. Friday, May 5, 2017**
- F. Vendor Selection/Staff Recommendation to Board: May 16, 2017
- G. Estimated Completion Date: July 31, 2017

All Proposals must include timelines for the start and end dates for the project, including major milestones.

II. SCOPE OF WORK

PART 1 GENERAL

1.1 DESCRIPTION

A. Scope of Work: This specification section defines certain audiovisual systems to be installed in the New Haven Educational Services Center.

B. Definition of Terms:

- 1. The term "Owner" shall refer to New Haven Unified School District (NHUSD).

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2. The term "Contractor" shall refer to the Systems Contractor who has responsibility for performance of the work specified herein.
3. The term "shall" is mandatory; the term "will" is informative; the term "should" is advisory; and the term "provide" means furnish and install.
4. The term "custom" indicates systems or components that shall be fabricated by the Contractor based on these specifications and drawings.
5. The term "OFE" refers to Owner Furnished Equipment. Provide for removal, relocation and testing prior to installation. Coordinate the integration of existing components or new components, provided by the Owner into the sound system. Provide required mounting hardware, rack panels, cable, connectors, etc. to ensure proper operation of the OFE systems as specified.
6. The term "A/R" indicates component quantities as required. Quantities not explicitly indicated shall be determined from the drawings.
7. The term "NIC" refers to work or equipment that is not in contract covered in this section.
8. The term "future" indicates equipment that will be added to the systems by the Owner or Owner representative at a later date. Provisions shall be made for this equipment.
9. The term "or pre-approved equal" indicates equal in materials, size, color, design, function, efficiency, and all operational capacities conforming to the base bid manufacturer/model specified.

C. Section Includes:

1. Supply and install turnkey audiovisual systems, to include equipment and materials, whether specifically mentioned herein or not, to ensure a complete and operating system.

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2. Generate submittal information for the complete fabrication, installation and wiring of the system. Provide (or sub-contract for) the on-site installation and wiring, and provide on-going supervision and coordination during implementation.
3. Provide for the adjustment of the systems as herein prescribed and provide test equipment for the system checkout and acceptance tests. Prior to the systems acceptance tests submit a testing and tuning report showing methods and results for tests performed.
4. Provide on-the-job training in the operation and maintenance of the systems for personnel designated by the Owner.
5. Provide equipment manuals and complete system operation manuals. Provide complete and accurate as-built drawings.
6. Provide two-year warranty for systems installed.

D. Substitutions:

1. Submit bids on the basis of the specified equipment. Submit all proposals for "substitutions" with equipment costs shown separate and apart from the costs of the equipment "as specified". All requests for Substitutions shall be submitted with the original bid.
2. Proposals for alternate equipment will receive careful and equitable consideration in the differences do not depart from the overall intent of the design and operation of the system, and are in the best interests of the Owner.
3. All such proposals for alternate equipment shall be accompanied by full technical information, "cuts", and specifications for the equipment proposed.
4. Submit a written request for modification to any installation practice desired or required which is contrary to these specifications or drawings. Modifications shall not commence

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without written approval from the Architect and the Consultant.

5. Submit recommendations that will enhance the performance of the system, or reduce costs without loss of performance, in the bid submission. All suggestions that are of value to the Owner will be taken into consideration in the evaluation of the bid returns. All such proposals shall be made as "substitution", with the appropriate cost modifications shown separate and apart from the costs of the system "as specified".
6. Make any and all exceptions to these specifications and related drawings with the bid submission. In the absence of exceptions, these specifications and related drawings shall be binding in letter and intent. It will further be assumed that the design and specifications have been examined in detail, and full responsibility for the performance of the complete installation as designed and specified is accepted.

1.2 SYSTEM DESCRIPTION

A. Video System

1. Install three (3) manual projection screens in the Board Room walls as shown in the drawings. Locate the screens and coordinate with the existing (OFE) projectors to optimize the projector image with the projection screens.
2. Install three (3) new cameras as shown in the drawings. Coordinate exact location with Owner and Consultant based on available space in the rear upper wall.
3. Install new AV components into the existing equipment rack in the adjacent equipment room. Remove all unused equipment and wiring and provide to the Owner. Provide an equipment rack elevation of the new AV system as part of the shop drawing submittal.
4. Install AV input/output plates on the rear wall of the Board Room in "Home" and "Visitor" positions and the Dais-Right

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position for feeding AV signals to/from the equipment rack in the adjacent equipment room. Provide plate details as part of the shop drawing submittal

5. Provide AV signal connectivity from the existing floor box to the equipment rack for use by the mobile lectern. Outfit the lectern with a mounted AV transmitter box for sending AV source inputs from the mobile lectern to the floor box via shielded CAT6 cabling satisfying the AMX DXLink signal criteria. Provide a dressed DXlink umbilical cable for facilitating AV connection from the lectern to the floor box.
6. Provide a portable/mobile rack at the back of the room for connection to the equipment rack via AV wall plates at the back of the room. Relocate existing (OFE) DVD, Blu-ray, and confidence monitor into the portable rack.
7. Relocate the existing composite video distribution amplifier (DA), RF modulator, and composite video monitor (all OFE) into the main AV equipment rack. Extend the output of the RF modulator to the existing feed as is currently connected. Provide a composite video feed from the output of the composite video DA to the wall plate at the back of the Board Room (designated for connection to a new video monitor in the mobile rack).

B. Audio System

1. Install new microphones into the dais. Provide the ability for the users to locally mute on/off microphones as well as the ability to control the muting remotely from the touch panel(s).
2. Install new program loudspeakers designated for stereo program audio from AV sources; remove the old/existing mounts.
3. Reconnect all existing ceiling-recessed loudspeakers to the new amplifiers as shown in the drawings.
4. Configure an Audio DSP for the audio connectivity as shown in the audio functional drawings. Provide room combine/divide capability of the A and B room subsections with the ability to

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add/remove room subsections C and D from the combined A and B spaces.

5. In the audio DSP, follow the existing audio routing scheme where all speech signals are sent to the ceiling-recessed loudspeakers, and stereo program sources are sent to the program loudspeakers.
6. Install a wireless microphone system as shown in the drawings. Ensure that wireless frequencies are coordinated with the area RF traffic to provide adequate wireless transmission with no audible crosstalk between wireless channels/frequencies.
7. Install a new RF assisted listening system (ALS). Ensure that there is adequate RF coverage in the Board Room area.
8. Install audio input plate in the existing floor box for connectivity to the AV equipment rack. Install two (2) new gooseneck microphones into the existing (OFE) mobile lectern for connection into the floor box. Provide a dressed umbilical connection for the microphones, separate from the AV source connection to the AV transmitter.

C. Control System

Provide a touch panel to be connected at the rear Board Room technician “Home” position. Provide and program a control system emulating the existing control in the Board Room with the addition of the following (if not already included): Make an investigation of the existing AMX control system in order to emulate the functionality that is currently in place.

Additionally, provide the following functions on the touch panel(s):

1. Projector power/mute control
2. Video source select to multiple destinations
3. Camera PTZ control and participant preset selection for each of the two (2) rear cameras
4. Camera preset saving control

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5. Lighting control by interfacing with the existing (OFE) lighting controller
6. Audio room combine/divide control: Room A, Room B, Room A & B combine, Add audio to Room C, Add audio to Room D.
7. Individual dais and lectern microphone mute & volume control
8. Overall speech and program source volume control
9. Transport control of main equipment rack-mounted equipment: audio recorder, video recorder, Blu-ray (OFE).
10. Provide AV source queueing control with a preview and program monitor video window on the touch panel.
11. Provide a preview monitor window on the touch panel showing the video recorded to the solid state video recorder.
12. Provide touch panel pages on the ipad for wireless control mirroring the control provided by the wired touch panel.

D. Wall Plates

Provide wall plates with appropriate labels for making all connections as depicted in the functional diagrams. Provide wall plate details with the shop drawing submittal. The following wall plates apply to the design:

1. Install camera plates at the three (3) camera positions. Coordinate mounting and exact positions based on field conditions with the Owner and Consultant.
2. Install connectors/plates into the existing wall box at the rear of the Board Room in the "Visitor" position including two (2) DXLink HDMI/VGA combo transmitter plates, and a composite video BNC for the video confidence monitor.
3. Install connectors/plates into the existing wall box at the rear of the Board Room in the "Home" position including a DXLink (CAT6) ethercon, and an Ethernet (CAT6) for the tech touch panel connection. Provide "strong" labeling as the connectors can easily be incorrectly switched.

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4. Install a DXLink HDMI/VGA combo transmitter into the dais-right plate. Retain the existing XLR microphone input.
5. Install a DXLINK (CAT6) ethercon into the existing floor box for connection to the lectern mounted DXLink transmitter box. Retain and verify the continuity of the two (2) existing microphone XLR connections for the two (2) lectern microphones.

1.3 SUBMITTALS AND SHOP DRAWINGS

A. General: Provide submittals and shop drawings as defined in this section and the corresponding bid documents. All electronic drawings shall be original drawings by the audiovisual contractor. The consultant will not be providing electronic drawing files.

B. Bid Information Submittal:

1. Equipment Costs: Include detailed lists of all equipment to be supplied. Each piece of equipment shall be individually priced. Equipment costs shall reflect all required modifications and accessories.
2. Non-Equipment Costs: Furnish separately non-equipment costs for each of the following categories:
 - a. Engineering: Including all required design, drawings, run sheets, instruction manuals, etc.
 - b. Pre-Installation: Including all fabrication, modification, assembly, rack wiring, etc., performed on the Contractor's premises.
 - c. Installation: Including all on-site installation and wiring, coordination and supervision, testing, checkout, Owner training, etc., performed on the Owner's premises.
 - d. General and Administrative: Including all G & A expenses, shipping, insurance, and guarantees.
 - e. Taxes: Including all applicable Local, State, and Federal taxes.

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- f. Hourly Rates: For standards rates, evening hours and weekend hours.
3. Audiovisual System Service Contract:
- a. Submit a separate one-year service contract, covering all installed systems. This service contract shall commence immediately after expiration of the warranty period. The cost for this service contract shall not be commingled with the costs for the systems base bid.
 - b. Submit separate costs for "on-call" service, both in-house and in-shop.
4. Schedule of Implementation:
- a. Submit a scheduling plan with the bid return indicating the various pertinent terminal dates after award of contract for completion of design, pre-installation work, on-site installation work, and testing and acceptance.
 - b. Obtain projected dates when the relevant areas will be available for the on-site installation.
 - c. Investigate all potential contract, union, and scheduling questions, and guarantee compliance with all requirements and regulations in effect on the job site.
5. Sub-Contract Information:
- a. Identify sub-contractors and their responsibilities and qualifications in the bid submission.
 - b. Because of the complexity of the systems, the supervision of such sub-contracted work cannot be intermittent. Provide virtually continuous supervision of subcontractors during the installation.
 - c. List of Replacement Parts: Provide a list of necessary and recommended replacement parts for a normal maintenance period of one year.
- C. Prior to Fabrication - Submittal 1:
- 1. Sample panels, plates, and designation strips, including details and samples relating to terminology, engraving, finish and color.

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2. Custom designed consoles, tables, carts, support bases, and shelves.
3. Schematic drawings of circuitry.
4. Unusual equipment modifications.
5. Loudspeaker mounting hardware details showing coordination with physical elements, stamped and signed by a licensed structural engineer.
6. Specific loudspeaker locations, angles, and orientation.

D. At the Completion of the Installation - Submittal 2:

1. Notification: Provide written notification to the Owner and General Contractor when checkout is complete, normal settings are documented, as-built and operational documentation are complete, and systems are available for final acceptance tests. Provide a completed copy of the testing report in accordance with Part 3.
2. Submit equipment manufacturer's operation and maintenance manuals for each piece of equipment.
3. Submit "as-built" drawings for systems and items indicated as "Custom" in both electronic and paper format.
4. Submit System Operations and Maintenance Manuals:
 - a. Describe in the "Operation" section, typical procedures necessary to activate each system to provide for the functional requirements as listed under the System Description. Include normal settings for equalizer, amplifier, signal processing, and user-operated controls (as established during system check-out) in tabular or pictorial form.
 - b. Provide in the "Maintenance" section, a recommended maintenance schedule with reference to the applicable pages in the manufacturer's maintenance manuals. Where the manufacturer provides inadequate information, provide the information necessary for proper maintenance.

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- c. List of Replacement Parts: Provide a list of necessary and recommended replacement parts for a normal maintenance period of one year.
 - d. Assume the reader of this manual to be technically competent, but unfamiliar with this particular facility.
5. System Software: Provide copy of all software associated with any device or component in the system. All system software, including control system software program containing source code and comments shall be submitted on CDROM disk. Provide CDROM copies of all sound system software furnished by manufacturers.

1.4 PERFORMANCE STANDARDS

A. Meet the following performance standards for each system, unless restricted by the published specifications of a particular piece of equipment:

B. Audio Signal:

1. Signal-to-Noise Ratio (including crosstalk): 85dB minimum.
2. Total Harmonic Distortion: 0.1% maximum from 20 Hz to 20,000 Hz.
3. Frequency Response: +/- 3.0 dB, 20 Hz to 20,000 Hz.

C. Audio Reproduction:

1. Signal-to-Noise Ratio (including crosstalk): 65dB minimum.
2. Total Harmonic Distortion: 1% maximum from 60 Hz to 15,000 Hz.
3. Frequency Response: + 2 dB, a flat response from 125 Hz to 5 kHz, decreasing uniformly from a relative level of 0 dB at 5 KHz to a relative level of -3 dB at 15 kHz and decreasing 3 dB from 125 Hz to 50 Hz as measured on axis of loudspeakers.

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4. Sound Output Capability: Provide program levels of not less than 100 dB and speech reinforcement levels of not less than 90 dB in the seating area without objectionable distortion, rattles, or buzzes, employing as test signals several different samples of recorded music and microphones applied at each system input.
5. Hum and Noise: Hum and noise shall be inaudible (below the background noise level of the space) under normal operation and as observed in normal seat locations.
6. Wireless systems shall neither be the source of, nor be affected by, radio-frequency interference to/from external signal devices.

D. Video Signal:

1. Signal-to-Noise Ratio (peak to RMS) Un-weighted DC to 4.2 MHz: 55 dB minimum
2. Crosstalk: Crosstalk (Un-weighted DC to 4.2 MHz): 45 dB minimum
3. Frequency Response: Within plus-or-minus 0.5 dB to 4.2 MHz
4. Line and Field Tilt: 2% minimum
5. Differential Gain: 3% maximum
6. Differential Phase: 2° maximum
7. No video or grounding roll is acceptable

E. Video Timing:

1. System Timing: Sync coincidence in 50 nanoseconds
2. Color Timing: Within 2° at 3.58 MHz

F. The following guidelines should be followed:

1. Refer to section 1.2, for system description.
2. Verify functional operation for specified control operations.
3. The following guidelines should be followed:
 - a. Touch panel graphical interfaces and programming shall be produced by a certified programmer.

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- b. Maintain background to lettering contrast
- c. Timing: Avoid the possibility for two or more serial macros or actions being sent simultaneously to the same piece of equipment through flag checking/setting routines.
- d. Defaults: Establish default conditions for the system at power-up including device audio levels, warm-up routine, power conditions, receiver status and other default conditions as required by the Owner or Owner's representative.

1.5 DELIVERY, STORAGE AND HANDLING

Bear costs of shipping to the site, and of unusual storage requirements. Make appropriate arrangements, and coordinate with authorized personnel at the site, for the proper acceptance, handling, protection, and storage of equipment so delivered.

1.6 WARRANTY

- A. Warranty the entire system for a minimum of two years from the date of system acceptance by the Owner. Component warranties shall be honored for the term established by the manufacturer, if greater than two years. Include in the warranty quarterly site visits to check and adjust equipment and restore systems to original performance standards.
- B. Activate manufacturer's equipment warranties in Owner's name to commence on the date of acceptance. In the case of Contractor- modified equipment, the manufacturer's warranty is normally voided. In such cases, provide the Owner with a warranty equivalent to that of the original manufacturer.

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PART 2 PRODUCTS

2.1 SUPPLIERS AND INSTALLERS

- A. Provide information proving the firm has been in business providing similar service required by this section for not less than five consecutive years.
- B. Firm can outline the general scope of past projects, normal staffing levels, and union status of shop and field installation personnel.
- C. Firm can list a minimum of three (3) projects of similar scope successfully completed, indicating the location, type of system installed, total contract amount, date completed, and include persons and telephone number to contact.
- D. Firm can submit confirmation of current state or local contracting licenses, as required to perform the work under this section.
- E. Firm shall submit confirmation of shop & drawing submittal capabilities.
- F. Firm shall submit confirmation of factory approved & qualified control system programming and graphic layout capabilities as outlined in this specification.

2.2 EQUIPMENT

- A. Provide equipment as specified in the Equipment Schedule submitted during project Phase 3.
- B. To ensure that the latest technology equipment is provided to the project, at the time of installation supply the latest model of the product which is available for each piece of equipment.
- C. Materials: Verify that supplied materials and equipment are new and shall meet or exceed the latest published specifications of the manufacturer.

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- D. Should there be a difference in pricing between the equipment model cost at the time of bid and the pricing of that same model or the latest equipment model to be provided at the time of installation, the price differential will be compensated accordingly. The contractor will need to provide detailed pricing invoices to demonstrate the change in costs from bid to installation.

2.3 CUSTOM FABRICATION

- A. Electrical Power Connections: Electrical power, junction boxes, and circuits will be provided by others. Provide required interconnections to the power system from these junction boxes to the equipment and equipment racks.
- B. Seismic Safety: Mount and brace permanently installed equipment to the building structure to minimize potential damage to personnel or equipment from foreseeable seismic events. Secure all hanging equipment such as loudspeakers, graphic cameras, et cetera, both to minimize sway and to prevent detachment from the overhead structure. All supports require review by a structural engineer with their stamp, certifying acceptance of the proposed mounting design.
- C. Remote Control Panels and Receptacle Plates: Fabricate with 1/8-inch thick #6061-T6 aluminum material. Finish brushed with 150 grit paper. Anodized finish is to be approved by the General Contractor.
- D. Equipment Rack: Provide power receptacle strips, with "U" ground outlets. Power receptacle strips shall be mounted on the rear interior of the rack space on the left side as viewed from the rear. Insulate power receptacle strips from the rack. Power receptacle strips shall be SGL Waber Company or approved equal. Provide UL-approved incandescent work light mounted on the upper left interior panel of each rack space.
- E. Project Information Label: Permanently mount, at the top facing edge of each equipment rack, an engraved plastic laminate plate, with filled lettering on contrasting background. Plate shall identify "Designed by: Rosen Goldberg, Der & Lewitz, Inc., Larkspur, CA. (415) 464-0150; Installation by: Contractor, City, ST, Phone."

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- F. Audio Transformers: Provide appropriate impedance ratio and power handling capacity for the function intended of audio transformers specified in the system.
- G. Networks and Pads: Provide networks and pads as shown on the drawings or as required to achieve proper impedance matching and levels. Networks and pads shall be balanced. 0.5 watt, 5% composition resistors shall be soldered to fixed connection points at each end.
- H. Loudspeakers: Guarantee that there are no rattles or buzzes from the tile loudspeakers. Trouble shoot and remedy any buzzes or rattles caused by ceiling loudspeakers emitting audio.
- I. Labeling: Provide permanently mounted 1/32" thick by 1/4" high black lamicoid or anodized, brushed aluminum labels with 1/8" engraved lettering for each piece of equipment and every user-adjustable control and input on the audiovisual equipment.
- J. Rack Mount Adapters and Security Covers: Provide the appropriate factory or custom rack mount adapters for equipment installed in the audiovisual equipment rack, whether specifically itemized or not. Provide security covers for equalizers, crossovers, signal delays, and other adjustable signal processors.
- K. System Functional Diagrams: Provide reduced-size as-built functional diagram for the control and audio system. Frame with acrylic cover, or laminate drawing, and mount in the equipment rack closet.

PART 3 EXECUTION

3.1 EXAMINATION

Verify that electrical requirements including junction boxes, floor boxes, ceiling loudspeaker enclosures, empty conduit and power circuits and receptacles are in place as shown on the drawings.

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3.2 INSTALLATION

A. General: Include the delivery, unloading, setting in place, fastening to walls, floors, ceilings, counters, or other structures where required, interconnecting wiring of the system components, equipment alignment and adjustment, and other work, whether or not expressly required, which is necessary to result in complete operational systems.

B. Physical Installation:

1. Firmly secure equipment in place unless requirements of portability dictate otherwise.
2. Provide adequate support for fastenings and supports with a safety load factor of at least three.
3. Secure plumb and square boxes, equipment, etc.
4. Give consideration, not only to operational efficiency, but also to overall aesthetic factors in the installation of equipment and cable.

C. Loudspeaker Enclosure Mounting and Preparation:

1. Mount the loudspeakers so that each unit may be reoriented slightly for optimum coverage, but will maintain its precise location and orientation after the system has been adjusted. Alternatively, mount the loudspeakers using industry standard portable rigging methods, such as rated hanging devices.
2. Verify that line-of-sight to the column array is not broken by lighting components, building structure, or other. Report any conflicts in writing to the Owner.
3. Allow no bracing or support members greater than 1/4" in front of the loudspeaker components where they would interfere with proper sound coverage.
4. Provide shop drawings of the loudspeaker framing and mounting arrangements (stamped and signed by a licensed

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structural engineer, and any other special construction, for approval by the Owner and Consultant prior to fabrication.

D. Projector or Flat Panel Display Mounting Systems:

1. Mount the individual projector displays on an architectural frame system. Provide a copy of reviewed and stamped drawing from a Structural Engineer showing details and calculations of mount connection to support structure. AVC is responsible for complying with all local codes and permit drawing requirements with respect to all hung devices.
2. Mount the projector or flat panel displays using rigid supports that will maintain its precise location and orientation as shown on the AV drawings.
3. Pay particular attention to arranging the projector or flat panel display components exactly as indicated on the AV drawings to ensure proper viewing angles and relationship to the seating areas. Projector or flat panel display aiming angles, dimensions, and location shall be exactly as shown on AV drawings.
4. Provide shop drawings of the projector or flat panel display mounting arrangements for approval by the Owner, General Contractor and Consultant prior to fabrication/installation.
5. Work out all mounting detail issues with the General Contractor and their structural engineer to ensure a safe and secure and aesthetically pleasing AVC installation. All special installation requirements such as “Genie Lifts”, scaffolding, special ceiling work, and any structural mounting hardware will be the responsibility of the AV contractor. This work can be subcontracted if desired with the approval of the General Contractor but must be done in accordance with structurally engineered drawings.

E. Cable Installation:

1. Mark cables, regardless of length, with permanent, non-handwritten number or letter cable markers within six inches of both ends. All shall be marked within the system.

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Marking codes used on cables shall correspond to codes shown on drawings and/or run sheets.

2. Furnish screw-type terminal blocks, boards, strips, or connectors, for cables that interface with racks, cabinets, consoles, or equipment modules. Terminate wires terminating at screw-type terminals with crimp-on lugs. "Telephone-style" punch-down blocks are not acceptable for signal or data wiring.
3. Group cables according to the signals being carried. . In order to reduce signal contamination, form separate groups for the following cables:
 - a. Power cables
 - b. Video cables/ Broadband RF cables/ Data Lines/Control cables
 - c. Audio cables carrying signals less than minus 30 dBm. (Microphone Level)
 - d. Audio cables carrying signals above plus 30 dBm. (Line Level and Intercom)
4. As a general practice, run power cables, control cables, and high-level cables on the left side of an equipment rack as viewed from the rear. Run other cables on the right side of an equipment rack, as viewed from the rear.
5. Unless otherwise called for in these specifications and drawings, use the following cables, or their approved equals, in these systems:
 - a. Individual microphone and line-level audio cable in conduit: Belden 1800F, 9451, or pre-approved equal.
 - b. Multi-channel (8/9-pair) microphone audio cable in conduit: Belden 1219B or pre-approved equal
 - c. Multi-channel (24-pair) microphone audio cable in conduit: Belden 1427B or pre-approved equal
 - d. Microphone and line-level audio cable for rack wiring: Belden 8761, 9451 or pre-approved equal
 - e. Microphone and line-level audio cable for plenum wiring: Belden 82761

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- f. DC Control cable: Belden 9740, 9156, 8690, 9157, 9159, 8691, 9161 or pre-approved equal
- g. Intercom cable: Belden 8760 or pre-approved equal
- h. Low-impedance speaker cable, Monitor loudspeaker receptacles: 14 AWG, Belden 8473 or pre-approved equal
- i. Individual 12 gauge low-impedance speaker cables, Main Loudspeaker runs: 12 AWG Belden 8477 or pre-approved equal
- j. Multi-channel speaker cable: 12 AWG, 2 pair, Whirlwind W12/4 or pre-approved equal
- k. Whirlwind snakes or cables for all audio signals not in conduit.
- l. Composite video cable runs: Belden 1505A, 1506A or Extron RG59
- m. SDI video cable runs: Belden 1505A, 1506A
- n. Component video cable runs: <100' Belden 1164B and Extron MHR-3 (P) or >100' Belden 1824A or Extron M59-3
- o. RGBHV video cable runs >100': Belden 1418B or Extron M59-5
- p. RGBHV video cable runs <100': Extron MHR-5 (P)
- q. RGBHV video cable runs >150': Extron RG59 (P) x5
- r. Infrared/Serial Digital: Belden 1583 or Equal
- s. 70-volt speaker cable: <200' Non-Plenum Belden 5300UE, Plenum Belden 6300UE, >200' Non-Plenum Belden 5100UE, Plenum Belden 6100UE
- t. Loudspeaker cable <50' Non-Plenum Belden 5100UE, Plenum Belden 6100UE
- u. Loudspeaker cable >50' Non-plenum Belden 5000UE, Plenum Belden 6000UE
- v. RS232: Belden 9538 or Equal
- w. Data Cable, CAT5e: Belden 1872A, 1874A, 1700A, 1701A or Equal

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- x. DTP, shielded twisted pair: Extron XTP DTP 24 or Equal

- 6. Cut cables to the length dictated by the run. For equipment mounted in drawers or on slides, provide the interconnecting cables with a service loop of appropriate length.

- 7. Install no cable with a bend radius less than that recommended by the cable manufacturer.

- 8. Clearly identify cable terminated in a floor pocket with permanent, indelible labels within 6" of the cable connector. Provide strain relief for cables. Provide connectors with metal shell/casing. Provide a minimum of 3' of free cable coiled in the floor pocket. Use spiral wrap to group similar cable types.

- 9. Use plenum-rated cable in plenum-rated spaces. Where plenum-rated cable is used, provide plenum-rated and approved tie-wraps and supports (Thomas & Betts #TYV525M, or pre-approved equal).

- 10. Where cable is used above accessible ceilings, provide tie-wraps and supports (Thomas & Betts #TYV525M, or approved equal).

F. Receptacle Plate Connectors:

- 1. Unless otherwise detailed herein, use the following types of panel receptacles on *connection boxes, panels, plates, and wireways*:
 - a. Audio (microphone): Neutrik XLR-3 (female) type.
 - b. Audio input/output (line level): Neutrik 1/4-inch diameter tip/ring/sleeve type. Insulate from panel.
 - c. Audio (loudspeaker level): Neutrik NL4MP.
 - d. Intercom: Neutrik XLR-3 (male) type.
 - e. Audio input (line level): Neutrik RCA

- 2. Receptacle Plate Designation: Clearly engrave wall mounted receptacle plates with alphanumeric identification of input type

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(i.e., mic, line, loudspeaker, etc) and corresponding audio patch field designation.

G. Grounding Procedures: In order to minimize problems resulting from improper grounding, and to achieve maximum signal-to-noise ratios, adhere to the following grounding procedures:

1. General: Because of the great number of possible variations in grounding systems, follow good engineering practice, as outlined above, and deviate from these practices only when necessary to minimize crosstalk and to maximize signal-to-noise ratios in the audio, and control systems.
2. System Grounds: Establish a single primary "system ground" for the systems in each particular area. Connect grounding conductors in that area to this primary system ground. Provide the system ground in the audio equipment rack for the area. The ground shall consist of a copper bar of sufficient size to accommodate secondary ground conductors.
3. Rack Ground: Connect the No.2 insulated copper wire connected to the earth ground to the primary system ground busbar in the Equipment Rack.
 - a. Bond a No.12 TW stranded wire from the Equipment Rack frame to the primary system ground bus bar.
4. Equipment Grounds: Grounding methods used will be dependent upon individual equipment interconnection of chassis ground, circuit common, and power supply common within the units. Provide ground method for equipment types as follows:
 - a. Equipment having a 3-wire power cord with green wire of the power cord connected to chassis (Signal common is not internally connected to chassis): Make no connection from chassis ground to primary systems ground busbar in Equipment Rack.
 - b. Equipment having a 3-wire power cord with green wire of the power cord connected to chassis: Make no connection from chassis ground to primary system busbar, but do make connection with 14AWG insulated

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wire from circuit common to primary system ground busbar in Equipment Rack. Separate circuit common from chassis ground.

- c. Equipment having a 2-wire power cord, no green wire, neutral is not tied to chassis, and circuit common is tied to chassis: Make connection from chassis to primary system ground busbar using 14AWG insulated wire.
5. Audio Cable Shields: Ground audio cable shields at one point only. There are no exceptions. For inter- and intra-rack wiring connect the shield at one end only. For ungrounded portable equipment, such as microphones, connect the shield at both ends but grounded at only one end.

3.3 FIELD QUALITY CONTROL

- A. Tests and Measurements: Before final acceptance tests are scheduled, perform system checkout, including tuning, balance, adjustment, and equalization. Furnish required test equipment and perform work necessary to determine and/or modify performance of the system to meet the requirements of this specification. Include the following:
1. Test audio, RF, and remote control systems for compliance with the functional requirements and Performance Standards.
 2. Adjust, balance, and align equipment for optimum quality and to meet the manufacturer's published specifications including equalization, delays, and crossovers.
 3. Prepare and maintain documentation of performance tests, including numerical values of established equipment settings, for reference during the System Acceptance Tests. Submit final results prior to scheduling Final Acceptance Tests Manual.
 4. Install 1/8" diameter vinyl "map dots" as indicators for nominal operating positions of rotary, slider, or switch controls available for operator adjustment. Provide multiple indicators, adequately distinguished, for controls having more than one nominal operating position.

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5. Follow Electronic Industries Association Standards RS 219 and RS 160 in performing these tests.

B. Audio System:

1. Loudspeaker-Line Impedance: Measure the impedance at 250 Hz, 1 kHz, and 4 kHz and the resistance of each loudspeaker line leaving the sound equipment rack with the line disconnected from its normal driving source. For lines to full-range distributed loudspeaker systems, measure the magnitude of impedance at 1 kHz.
2. Hum and Noise Level:
 - a. Measure the hum and noise levels of the overall system for each line-level input channel.
 - b. Adjust gain controls for optimum signal-to-noise ratio so that full amplifier output will be achieved with 0 dBm at a line-level input.
 - c. Terminate line-level inputs with shielded resistors of 150 and 600 ohms, respectively, for these measurements.
 - d. Disconnect the loudspeaker lines and terminate the power-amplifier outputs with power resistors for these measurements. The value of the load resistor shall be within 5% of the nominal load impedance of the amplifier under test. The power rating of the resistor shall equal the power rating of the amplifier.
3. Frequency Response of the System: Measure the frequency response using the audio systems as described in Part 1. Adjust gain controls and equalizers to provide the octave-band sound levels as specified.
4. Uniformity of Coverage: Measure octave band of pink noise test signal, centered at 4 kHz, played through loudspeaker system.

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5. Power-Output and Signal-Level Adjustment within System:

- a. Measure the electrical distortion of the overall system for each line-level input channel.
- b. Adjust gain control as for the tests specified herein.
- c. Apply a 1-kHz sine-wave signal from an oscillator having less than 0.5% total harmonic distortion at the input tested, at a level required to produce full amplifier output. Note that a pad with 150-ohm output impedance is required for driving the microphone-level input in accordance with the EIA standard.
- d. Use a distortion analyzer to measure the output level and the total harmonic distortion of the amplification and control equipment. In the absence of a distortion analyzer, a high input impedance, measuring device such as a DMM may be used to measure the output level. Lack of clipping or apparent deformation of a sine-wave input signal at the power-amplifier output, as seen on the oscilloscope, may serve as evidence that distortion of amplification and control equipment is within acceptable limits.
- e. Make measurements with loads actually incurred in the system operation. Power-amplifier loads shall be power resistors equal to the nominal load impedance of the output terminals used in the system.

6. Loudspeaker Polarity:

- a. Perform polarity checks of loudspeaker lines by means of a polarity tester or use DC source at one end of each line and a voltmeter at the other end. Loudspeaker lines shall be identically polarized with respect to color-coding.
- b. Test polarity of the loudspeakers using a sine-wave test signal warbled about 500 Hz. The listener shall be located on axis of the loudspeaker. Switch the loudspeakers from nominally in polarity to nominally out of polarity with respect to the selected loudspeaker. With the loudspeakers in proper polarity, the quality and clarity of the music or speech should be

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greater, and the warble test signal should clearly come to the surrounding space from the loudspeaker.

7. Freedom from Parasitic Oscillation and Radio-Frequency Pickup:
 - a. With systems set up for each mode of operation specified in the functional requirements, check to ensure that systems are free from spurious oscillation and radio-frequency pickup, in the absence of audio input signal and when the system is driven to full output at 100 Hz.
 - b. Employ an oscilloscope having at least a 50 MHZ bandwidth for these checks.
 - c. Apply slow sine-wave sweep from 50 Hz to 5 kHz at a level of 6 dB below rated power-amplifier output voltage to each system. Listen carefully for buzzes, rattles and objectionable distortion.
 - d. Correct causes of these defects unless the cause is clearly from other than the sound amplification system's equipment and installation, in which case bring the cause to the attention of the General Contractor.

8. Audio Test Signal Paths: Verify operation from source inputs (for microphones, audio tape units, tape units, etc.) through audio distribution amplifiers, mixers, switchers, etc., to signal destinations.

3.4 OWNER TRAINING

- A. Provide on-the-job training by a suitably qualified instructor, to designated personnel, to instruct them in the operation and maintenance of the systems.

- B. Arrange with the equipment manufacturer for such instruction, at no additional cost, in the event qualified instructors are not available on staff for certain sophisticated equipment.

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- C. Schedule the first training after the systems are operational. Provide a minimum of (3) 2-hour training sessions (6 hours of training total) on the systems included in this specification.
- D. Provide a video recording of the training sessions to the Owner for their future use in describing the operation of the system.

3.5 SYSTEM ACCEPTANCE TESTS

- A. System acceptance tests shall not be performed until the contractor's system checkout and testing and tuning report have been completed by the Contractor. The system acceptance tests consist of the following:
 - 1. Take a physical inventory of equipment on site and compare to equipment lists in the contract documents.
 - 2. Demonstrate the operation of system equipment.
 - 3. Both subjective and objective tests will be required to determine compliance with the specifications. Provide test equipment specified for these tests.
- B. Provide final, "as-built" drawings and run sheets in both electronic and paper format. Provide manuals, and other required documents in electronic format, as detailed in Submittal 2, in Part 1 of this specification.
- C. In the event further adjustment is required, or defective equipment must be repaired or replaced, tests may be suspended or continued at the option of the Owner.
- D. If the need for further adjustments becomes evident during the demonstration and testing, continue work until the installation operates properly. Included in the continued work shall include, but not be limited to, changes to or installation of resistive pads, readjustment of loudspeaker aiming, adjustment of system equalizers, programming changes to the control system, if these adjustments are required.

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- E. If acceptance of the system is delayed because of defective equipment or because the equipment does not fulfill this specification, reimburse the Owner for time and expenses for these tests during extensions of the acceptance-testing period.

3.6 CLEANUP AND REPAIR

Upon completion of the work, remove refuse and rubbish from and about the premises, and shall leave the relevant areas and equipment clean and in an operational state. Repair damage caused to the premises by the installation activities, at no cost to the Owner.

3.7 PROTECTION OF WORK

During the installation, and up to the date of final acceptance, protect finished and unfinished work against damage and loss. In the event of such damage or loss, replace or repair such work at no cost to the Owner.

END OF *SCOPE OF WORK* DOCUMENT

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OTHER TERMS & CONDITIONS

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I. SUGGESTED ENHANCEMENTS; REFERENCES.

The Vendor may, but shall not be required to, propose additional suggested enhancements beyond the scope of this RFP as part of its Proposal. However, Proposals should clearly indicate any elements of the Proposal that are suggested enhancements, and the Proposal Costs must clearly indicate the base cost to provide the equipment, software and training services sought by this RFP. Selection of any Proposal by the District shall not obligate the District to purchase any suggested enhancements included in that Proposal.

II. QUESTIONS.

All questions regarding this RFP shall be submitted by email no later than **April 28, 2017** to the District employee designated below. No telephone questions shall be entertained.

Chris Hobbs
Director, Technology Services
New Haven Unified School
District rfp776@nhusd.k12.ca.us

III. AMENDMENTS.

The District may, at its sole discretion, issue amendments to this RFP at any time prior to the deadline stated below. The District shall attempt to issue all amendments, if any, prior to **May 5, 2017**, but may issue amendments after that date if necessary. In order to receive such amendments, each Vendor intending to make an offer in response to this RFP is requested to designate to the person named in Section VI, above, an email address to which such amendments should be sent.

The District is not responsible for ensuring that amendments are received by any person or entity not providing a valid email address for receipt of such amendments. Each Vendor is required to acknowledge receipt of any amendments issued to this RFP by completing Exhibit B and attaching it to the Vendor's Proposal.

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IV. SUBMISSION OF PROPOSAL.

Sealed Proposals shall be submitted to:

Akur Varadarajan
Co-Superintendent
New Haven Unified School District
34200 Alvarado-Niles Rd
Union City, California 94587

Proposals must be received at or before **2:00 p.m. on Friday, May 5, 2017** (“Deadline”). Proposals must be received in sealed envelopes or containers clearly showing the Vendor’s company name, address and must also include the label “Response to RFP – Audio Video System.” Faxed Proposals will not be accepted. Only Proposals received by the Deadline will be considered. Each submission shall consist of one signed original Proposal and three copies of the Proposal. Each Proposal received in response to this RFP shall remain the property of the District. Any Vendor may modify or withdraw a Proposal in writing at any time prior to the Deadline.

V. WITHDRAWAL OF PROPOSAL

Any Bidder may withdraw his or her proposal, either personally or by written request, at any time prior to the scheduled time for receipt of proposals. A successful Bidder shall not be relieved of the proposal submitted without New Haven Unified consent or Bidder's recourse pursuant to Public Contract Code Section 5100 et seq.

VI. BID PROTESTS

Any Vendor protesting the award of a contract to another Vendor must do so, in writing to the District, within five (5) days after it receives a Notice of Award from the District. The District shall provide a timely response to the to the Vendor's Protest. The Vendor may appeal the District's decision to the Board of Education for the District. If the Protest to the Award shall result in another Vendor not receiving a contract with the District, that other Vendor may participate in the RFP Process. Protests involving non-material irregularities in the processing or evaluation of RFPs shall be rejected.

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VII. CONFIDENTIALITY OF PROPOSAL CONTENTS.

Following the award of the contract, Proposals may be subject to release as public information under applicable law unless the Proposal or specific parts of the Proposal can be shown to be exempt from disclosure under such law. Vendors are advised to consult as necessary with legal counsel regarding disclosure issues and take appropriate precautions to safeguard trade secrets and confidential data. The District assumes no obligation or responsibility for asserting legal arguments concerning exemption from disclosure on behalf of any Vendor.

If any Vendor believes that portions of a Proposal constitute trade secrets or confidential commercial, financial, geological, or geophysical data, then the Vendor must so specify by, at a minimum, stamping in bold red letters the term "CONFIDENTIAL" on that part of the Proposal which the Vendor believes to be protected from disclosure. All Proposals and parts of Proposals that are not marked as confidential may be automatically considered public information after a contract is awarded. The Vendor is hereby notified that the District may consider all or parts of the Proposal public information under applicable law even though marked confidential.

VIII. NO REPRESENTATIONS.

The District makes no representations or guarantees of any kind, express or implied, with regard to the matters contained in this RFP, including any exhibits, attachments, letters of transmittal, or any other related documents. Each Vendor must rely solely on its own independent assessment as the basis for the submission of any Proposal.

IX. CONTRACT INTERPRETATION

- A. Articles and services covered by this quotation must comply with applicable laws, ordinances and other legal requirements.

- B. A written purchase order or other acceptance mailed or otherwise furnished to the successful bidder within specified acceptance time results in a binding contract without further action by either party. If the price, taxes, surcharge, shipping etc. indicated in the purchase order is different or higher the vendor

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must notify the Business Services department prior to delivery of goods and services.

- C. Should any questions arise as to the meaning and intent of the contract, the matter shall be referred to the Chief Business Officer, New Haven Unified School District, who shall decide the true meaning and intent of the contract, and his decision shall be final and conclusive.

X. CONDITION OF ARTICLES

Articles offered and furnished must be new and previously unused, and of manufacturer's latest model, unless otherwise specified herein.

XI. INSPECTION

All articles supplied shall be subject to inspection and rejection by the Business Department or at the delivery location.

XII. FAILURE TO DELIVER

When Vendor/Contractor fails to deliver an article or service of the quality, in the manner or within the time called for by his contract, such article or service may be bought from any source by the Business Department and if a greater price than that named in the contract be paid for such article or service the excess price will be charged to and collected from the contractor or sureties on his bond if bond has been required.

XIII. FIRM PRICE

Prices/quotations must be firm and shall be in effect for a period of not less than twelve (12) months.

XIV. CAL-OSHA

CAL-OSHA required if applicable.

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XV. DELIVERIES

F.O.B. destination in Union City otherwise specified.

XVI. AWARD OF CONTRACT

- A. The District reserves the right to reject any or all proposals, or to waive any irregularities or informalities in any proposals. Further, the District reserves the right to be the sole judge of the merit and qualifications of products and/or services offered. The District may award the bid in the most beneficial manner to the District: either in aggregate of all items or individual line items.

- B. After the proposals have been opened, and the lowest responsible bidder determined, they will be submitted to the Governing Board of the District for approval. Should an award be made, the successful contractor will be notified in writing and a purchase order will be issued for the procurement of items.

XVII. MISCELLANEOUS.

- A. By issuing this RFP, the District assumes no obligation, explicit or implied, to make an award to any Vendor.

- B. For any products or services not included in the initial contract award, Vendor agrees to hold prices as proposed for one (1) year following the initial award unless mutually agreed otherwise in the negotiated final contract.

- C. Any published price change after the RFP submission date will not be considered in the evaluation of proposals. However, once a Vendor has been selected as the finalist Vendor, District reserves the right to apply the lower of the published prices with the proposed discounts applied or the proposal prices, whichever are lower.

- D. In the event of any conflict or ambiguity between the terms of this RFP and state or federal law or regulations, the latter shall prevail. Additionally, all equipment to be supplied or services to be performed shall conform to all applicable requirements of local, state and federal law.

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- E. The successful Response to this RFP and any NHUSD generated Amendments to this RFP shall all become an integral part of any Vendor / NHUSD contract resulting from this RFP.

- F. Vendor guarantees that all contracted work shall be managed by a qualified and designated Vendor project manager, who shall:
 - 1. attend all scheduled project status meetings;
 - 2. be available to NHUSD at all reasonable times and respond to NHUSD's questions;
 - 3. problems and/or concerns in timely manner;
 - 4. be on-site at scheduled times to inspect work progress;
 - 5. be on-site during critical phases of work, including systems testing and cutover.

- G. The designated Vendor project manager for this project, whose name and phone numbers (office and cellular) shall be provided to NHUSD prior to any on-site work under the Agreement shall:
 - 1. be Vendor's single-point-of-contact to NHUSD;
 - 2. have the authority to make necessary decisions and enlist necessary resources to ensure successful completion of all contracted work in the required timeframes;
 - 3. be trained in and responsible for identification of any hazardous materials relative to any construction portion of this project.

- H. Vendor agrees to provide necessary liaison and coordination functions and activities, in a timely and professional manner.

- I. ALL installation, warranty, and post-warranty maintenance of the acquired systems resulting from this RFP shall be performed by fully qualified, Vendor-employed personnel. Vendors planning to utilize subcontractors must adhere to the following guidelines:

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1. Every subcontractor performing work on the Project or Services on behalf of Vendor shall be bound by the conditions and provisions of the Agreement as applicable to its work.
 2. Nothing contained in any Vendor/ NHUSD Agreement shall create any contractual relations between the subcontractor and NHUSD.
 3. Vendor shall be fully responsible to NHUSD for the acts and omissions of its subcontractors.
 4. Vendors must provide in their Proposals:
 - a. The complete names and addresses of all subcontractors proposed to be used;
 - b. The type and percentage of work each proposed subcontractor will be providing;
 - c. Each proposed subcontractor's qualifications to perform such work:
 5. Substitution of any proposed subcontractor will only be allowed after prior written permission is received from NHUSD. NHUSD reserves the right to reject any proposed subcontractor for reasonable cause.
- J. New Haven Unified School District is not liable for any cost associated with the preparation or presentation of any proposals.
- K. Proposals submitted to the District will not be returned to the bidder.
- L. New Haven Unified School District has right to cancel this RFP at any time and to reissue it for any reason whatsoever.
- M. New Haven Unified School District reserves the right to negotiate any alterations to bid specifications due to oversight or error.

END OF *OTHER TERMS & CONDITIONS* DOCUMENT

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Audio Video Systems

**CONTRACT
TERMS & CONDITIONS**

New Haven Unified School District

UNION CITY • SOUTH HAYWARD • (510) 471-1100

34200 ALVARADO NILES ROAD • UNION CITY • CA 94587

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Linda Canlas, President
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CO-SUPERINTENDENTS

Arlando Smith
Akur Varadarajan



CONTRACT AGREEMENT BETWEEN THE NEW HAVEN UNIFIED SCHOOL DISTRICT AND

This Agreement is dated for convenience on _____ and is entered into between _____, (hereinafter "Contractor") and the New Haven Unified School District (hereinafter "District").

WITNESSTH, that the Contractor and the District, for considerations stated herein, mutually agree as follows:

1. SERVICES CONTRACTOR AGREES TO PERFORM

The Contractor shall provide the District with [Audio Video Systems](#) to all requesting sites and administration offices as per [RFP #776 \(Bid/RFP#\)](#), received and opened on _____ consisting of signed Purchase Agreement Proposal, General Terms, Conditions, Instructions and Information for Bidders, Special Conditions and Bid Sheet. All Terms and Conditions of the RFP become part of this Contract.

2. INFRINGEMENTS – INDEMNIFICATION

The Contractor shall assume the defense of all claims and suits against the District, its officers and agents, for infringement of the patents, copyrights, or trademarks of any person arising out of the use by District, its officers or agents, or any article supplied under this Purchase Agreement Proposal, and the Contractor shall indemnify and hold harmless the District, its officers and agents, from any and all liability, loss, or damage arising from such claims or suits. The Contractor agrees to hold the New Haven Unified School District harmless from any and all claims and liabilities for damage to all persons, including but not limited to employees of the contractor arising out of and in the course of the performance of this agreement.

3. COMPENSATION

The Contractor shall be paid as per the RFP. Requests for compensation shall be monthly, complete with a breakdown of charges and receipts as applicable. Payments shall be made in a reasonable time upon approval that services have been rendered in a

professional and timely manner as set forth in Section 1 of this Agreement. The amount of money to be paid to the Contractor under this Agreement shall not exceed _____. If the scope of work described herein is increased, the Agreement amount may also be increased, provided that there is a prior written modification to the Agreement *and* a Board Resolution authorizing said increases. It shall be the responsibility of the Contractor to ensure that the total approved amount of the Agreement is not exceeded. Any work performed in excess of said amount shall not be compensated.

4. TERM OF AGREEMENT

The term of the contract shall be from the award date of _____ until completion.
Expected date of completion: July 31, 2017.

5. INSURANCE AND BONDS

The Contractor shall provide all required certificates of insurance and performance bonds as evidence thereof.

Prior to award, contractor must submit written evidence of the following insurance which must be maintained in force during the term of this contract:

AUTOMOBILE AND GENERAL LIABILITY INSURANCE

The Bidder shall take out and maintain during the life of the Agreement such General Liability and Automobile Liability Insurance providing protection against Bodily injury Liability and Property Damage as shall protect him/her, while performing work covered by the Contract, from any and all claims for damages for bodily injury including accidental death, as well as any and all claims for property damage which may arise from the Bidder's operations under the Contract, whether such operations are by him/herself or by anyone directly employed or retained by either of them. The limits of liability for each policy, both on a per accident or occurrence basis, and the aggregate amounts of such insurance, the exclusions, and the deductibles shall all be acceptable to New Haven Unified School District.

Commercial General Liability Insurance, including Bodily Injury, Personal Injury, Property Damage, Advertising Injury, and Medical Payments with limits of not less than \$1,000,000 for each occurrence and \$2,000,000.00 for General Aggregate.

- a. Comprehensive or Business Automobile Liability insurance with limits of not less than \$1,000,000 for each occurrence for combined single limit for Bodily Injury and Property Damage.
- b. Professional Liability insurance with limits of not less than \$1,000,000 for each occurrence.

- c. Workman's Compensation with Employers Liability limits of not less than \$1,000,000 or Statutory Limits per each accident.
- d. Employers Liability insurance with limits of not less than \$1,000,000 for each occurrence.
- e. If any policies are written on claims made from, the contractor agrees to maintain such insurance continuously in force for three years following the completion of this contract.
- f. Certificate of Insurance, satisfactory to the District, evidencing all coverage above shall furnished to the District before commencing any operations under this contract, with complete copies of policies upon District request.
- g. Approval of the insurance by the District shall not relieve or decrease the liability of the Contractor hereunder.
- h. The General Liability and Comprehensive Automobile Liability Insurance shall be endorsed to provide:
 - Name as additional insured the New Haven Unified School District, its board, officers and employees.
 - Such policies shall be primary insurance to any other insurance available to the additional insured, with respect to any claim arising out of this Agreement, and that insurance applies separately to each insured against whom a claim is made or a suit is brought against.
 - The certificate of insurance for the above shall provide 30 days advance written notice to Purchasing regarding cancellation, non-renewal or reduction of coverage of any of the above insurance.

6. TERMINATION

In the event the Contractor fails to perform any of its obligations under this Agreement, the District through the Chief Business Officer may terminate this Agreement, and all of the Contractor's rights hereunder ended. Termination shall be effective after ten (10) days written notice to the Contractor. No new work will be undertaken after the date of receipt of any notice of termination, or five days after the date of the notice, whichever is earlier. In the event of such termination, the Contractor shall be paid for its services under this agreement, up to the date of termination that has been performed to the satisfaction of the District.

The District may terminate this agreement in whole or in part for its convenience by giving 30 days written notice of its intent.

Upon receipt of written notice that this Agreement is terminated, the Contractor will submit an invoice to the District for an amount that represents the value of services

actually performed up to the date of termination for which the Contractor has not previously been compensated as per Section 3. Upon approval and payment of this invoice by the District, the District shall be under no further obligation to the Contractor, monetary or otherwise.

7. CONTRACTOR'S DEFAULT

Failure or refusal of the Contractor to perform or do any act herein required shall constitute default. In the event of any default, in addition to any other remedy available to the District, the District may terminate this Agreement pursuant to the terms of Section 6 herein. Such a termination shall not waive any other legal remedies available to the District.

8. LIQUIDATED DAMAGES:

Time is of the essence for all work under this Agreement. It is hereby understood and agreed that it is and will be difficult and/or impossible to ascertain and determine the actual damage that the District will sustain in the event of and by reason of Contractor's delay; therefore, Contractor agrees that it shall pay to the District the sum of One Thousand Dollars (\$1,000) per day as liquidated damages for each and every day's delay beyond the time herein prescribed in finishing the Work. It is hereby understood and agreed that this amount is not a penalty.

In the event any portion of the liquidated damages are not paid to the District, the District may deduct that amount from any money due or that may become due the Contractor under this Agreement. The District's right to assess liquidated damages is as indicated herein and in the General Conditions.

The time during which the Contract is delayed for cause as hereinafter specified may extend the time of completion for a reasonable time as the District may grant. This provision does not exclude the recovery of damages for delay by either party under other provisions in the Contract Documents.

9. LOSS OR DAMAGE:

The District and its authorized representatives shall not in any way or manner be answerable or suffer loss, damage, expense, or liability for any loss or damage that may happen to the Work, or any part thereof, or in or about the same during its construction and before acceptance, and the Contractor shall assume all liabilities of every kind or nature arising from the Work, either by accident, negligence, theft, vandalism, or any cause whatever; and shall hold the District and its authorized representatives harmless from all liability of every kind and nature arising from accident, negligence, or any cause whatever.

10. PAYMENT OF PREVAILING WAGES:

The Contractor and all Subcontractors under the Contractor shall pay all workers on all Work performed pursuant to this Contract not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code.

11. ENTIRE CONTRACT

All of the agreements between the parties are included herein and no warranties, expressed or implied, representations, promises or statements have been made by either party unless endorsed here in writing and no change or waiver or of any provision hereof shall be valid unless made in writing and executed in the same manner as the Contract.

12. ASSIGNMENT

The Contractor shall not assign or transfer by operation of law or otherwise any or all of its rights, including the right to receive payment, burdens, duties or obligations without the prior written consent of the District.

Any assignment of the Contract by the Contractor with the approval of the District shall be subject to the terms and conditions hereof and to the rights of the District contained in the Contract. No transfer or assignment of the Contract by the Contractor shall release it from its obligations hereunder.

13. INDEPENDENT CONTRACTOR: PAYMENT OF TAXES & OTHER EXPENSES

The Contractor shall be deemed at all times to be an independent contractor and shall be wholly responsible for the manner in which the Contractor performs the service required of the Contractor by the terms of this Agreement. The Contractor shall be liable for the acts and omissions of it, its employees and its agents. Nothing contained herein shall be construed as creating an employment or agency relationship between the District and the Contractor. Terms in this Agreement referring to direction from the District shall be construed as providing for direction as to policy and the result of the Contractor's work only and not as to the means by which such a result is obtained.

14. INCIDENTAL AND CONSEQUENTIAL DAMAGES

The Contractor shall be responsible for incidental and consequential damages resulting in whole or in part from contractor's acts or omissions. Nothing in this agreement shall constitute a waiver or limitation of any rights, which the District may have under applicable law.

15. BUDGET AND FISCAL PROVISIONS

The Contract is subject to the budget and fiscal policies of the District. Charges will accrue only after prior written authorization certified by the District's Chief Business Officer and any amount of the District's obligation hereunder shall not at any time exceed the amount certified for the purpose and periods stated in such advance authorization. If funds are appropriated for a portion of a fiscal year, this agreement will terminate, without penalty, at the end of the term for which funds are appropriated, unless additional funds are appropriated. This section shall control against any and all other provisions of the Contract.

16. CONFLICT OF INTEREST

Contractor understands the following and certifies that it does not know of any facts which constitutes a violation

Contractor hereby certifies that no current Board member or employee of the New Haven Unified School District, and no one who has been a Board member or who has been employed by the New Haven Unified School District within the past two years has participated in bidding, selling or promoting this contract. Furthermore, Contractor certifies that no such current or former Board member or employee has an ownership interest in this contract, nor shall any such current or former Board member or employee derive any compensation, directly or indirectly, from this contract. Contractor understands that any violation of this provision of the contract shall make the agreement violable by the District.

Government Code of the State of California, Section 87100 et. seq. Public officials; state and local; financial interest.

No public official at any level of state or local government shall make, participate in making or in any way attempt to use his official position to influence a governmental decision in which he knows or has reason to know he has a financial interest.

17. PROPRIETARY OR CONFIDENTIAL INFORMATION OF THE DISTRICT

The Contractor understands and agrees, that in the performance of the work of services under this Agreement, or in contemplation thereof, the Contractor may have access to private or confidential information which may be owned or controlled by the District, and that such information may contain proprietary details, the disclosure of which to

third parties will be damaging to the District. The Contractor agrees that all information disclosed by the District, its employees or students. The Contractor also understands and agrees that the disclosure of such information by violates state and/or federal law. The Contractor agrees that all information disclosed by the District to the Contractor shall be held in confidence and used only in performance of the Agreement. The Contractor shall exercise the same standard of care to protect such information as is used to protect its own proprietary data.

18. MODIFICATION OF AGREEMENT

This Agreement may not be modified, nor may compliance with any of its terms be waived, except by written instrument executed and approved in the same manner as this Agreement.

The District may order changes in the work herein required and may order extra materials and extra work in connection with the performance of the contract and the Contractor must comply with such orders, except that:

If changes in services are of such a nature as to increase or decrease the cost of any part of the work, the price fixed in the contract may be increased or decreased by such amount as the Contractor and the Chief Business Officer may agree upon as the reasonable and proper allowance for the increase or decrease in the cost of work, and

No order for any alteration, modification, or extra which will increase or decrease the cost of the services shall be valid unless the resulting increase or decrease in price shall have been agreed upon in writing and approved by the Chief Business Officer. No oral statement of any person whomsoever shall in any manner or degree modify or otherwise affect the terms of this contract.

19. ADMINISTRATIVE REMEDY FOR AGREEMENT INTERPRETATION

Should any question arise as to the meaning and intent of this Agreement, the question shall, prior to any other action or resort to any other legal remedy, be referred to the Chief Business Officer who shall decide the true meaning and intent of the Agreement. The Chief Business Officer's decision shall be final and conclusive.

20. AGREEMENT MADE IN CALIFORNIA: VENUE

The formation, interpretation and performance of this Agreement shall be governed by the laws of the State of California, excluding its conflict of laws rules. Venue for all litigation relative to the formation, interpretation and performance of this Agreement shall be in Alameda County.

21. LAWS AND REGULATIONS

Articles and services covered by this contract must comply with applicable Federal, State, and Local Laws, ordinances, and other law requirements which are in effect at the day and year first herein about written. If any term or provision of this agreement shall be found to be illegal or unenforceable, notwithstanding, this Agreement shall remain in full force and effect and such term or provision shall be deemed stricken.

22. NON-COLLUSION

Bidder declares that the Bid is not made in the interest of, or on behalf of any undisclosed person, partnerships, company, association, organization or corporation; that the bid is genuine and not collusive or sham; that the Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived or agreed with any Bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding, that the Bidder has not in any manner, directly or indirectly, sought by agreement, communication or conference with anyone to fix the bid price of the Bidder or any other Bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further that the Bidder has not directly or indirectly submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

23. SUBCONTRACTING

The Contractor is prohibited from subcontracting this Contract or any services provided pursuant to this Contract unless such subcontracting is agreed to in writing and executed in the same manner as this Contract. No party on the basis of this Contract shall in any way contract on behalf of or in the name of the other party of this Contract, and violation of this provision shall confer no rights on any party and shall be void.

24. NON-DISCRIMINATION

Contractor agrees that it shall not discriminate on the basis of sex, race, religious creed, national origin, age, marital status, sexual orientation, gender identity, AIDS/ARC/HIV status, or disability, in its performance under this Contract.

25. SAFETY AND SECURITY

It shall be the responsibility of the Contractor to ascertain from, and comply with, the District's rules and regulations pertaining to safety, security, and driving on school grounds, particularly when students are present.

26. BANKRUPTCY

In the event that either party shall cease conducting business in the normal course, become insolvent, make a general assignment for the benefit of creditors, suffer or permit the appointment of a receiver for its business or assets or shall avail itself of, or become subject to, any proceeding under the Federal Bankruptcy Act or any other statute of any state relating to insolvency or the protection of rights of creditors, then at the option of the other party this Agreement shall terminate and be of no further force and effect, and any property or rights of such other party, tangible or intangible, shall forthwith be returned to it. The Contractor shall notify the District within ten (10) days of filing and bankruptcy petition under the Federal Bankruptcy Act.

27. The District's terms and conditions will supersede any other terms and conditions submitted by the Contractor, in case of a conflict.

CONTRACTOR:

BY: _____
Signature

Title

(Date)

DISTRICT:

New Haven Unified School District:

BY: _____
Signature

CO-SUPERINTENDENT
Superintendent or Designee

(Date)

**NEW HAVEN UNIFIED SCHOOL DISTRICT
REQUEST FOR PROPOSALS #776**

Audio Video Systems

AV DRAWINGS

ARCHITECTURAL NOTES

1. VERIFY SIZE, DIMENSIONS, AND LOCATIONS WITH ARCHITECTURAL AND INTERIORS DRAWINGS. WHERE CONFLICTS OCCUR, ARCHITECTURAL DRAWINGS TAKE PRECEDENCE.
2. ALL AUDIO EQUIPMENT IS FOR REFERENCE ONLY. SUCH EQUIPMENT WILL BE PROVIDED AND INSTALLED BY THE AUDIO CONTRACTOR, NOT THE GENERAL CONTRACTOR. ALL OTHER CONSTRUCTION WORK SHOWN ON THESE DRAWINGS IS BY THE GENERAL CONTRACTOR, COMMUNICATIONS CONTRACTOR, OR ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
3. WHERE EXACT DIMENSIONS ARE NOT CALLED FOR, THE SCALE OF THIS DRAWING IS SUFFICIENT TO DETERMINE THE EXACT DIMENSIONS. WHERE EXACT DIMENSIONS ARE CALLED FOR, THE REFERENCE SURFACE SHALL BE THE FINAL FINISHED SURFACE INCLUDING ANY ACoustICAL TREATMENT.
4. WHERE METAL OR PLASTIC LOUSPEAKER GRILLES ARE SHOWN INSTALLED IN PAINTED CEILING OR WALL SURFACES, THE GENERAL CONTRACTOR SHALL PAINT THE GRILLES TO MATCH THE ADJACENT SURFACE PRIOR TO ASSEMBLY AND INSTALLATION.

ELECTRICAL NOTES

1. VERIFY SIZE, DIMENSIONS, AND LOCATIONS WITH ARCHITECTURAL AND INTERIORS DRAWINGS. WHERE CONFLICTS OCCUR, ARCHITECTURAL DRAWINGS TAKE PRECEDENCE.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL, LOCAL, AND OTHER APPLICABLE CODES.
3. ALL AUDIO EQUIPMENT IS FOR REFERENCE ONLY. SUCH EQUIPMENT WILL BE PROVIDED AND INSTALLED BY THE AUDIO SYSTEMS CONTRACTOR, NOT THE ELECTRICAL CONTRACTOR. ALL OTHER CONSTRUCTION WORK SHOWN ON THESE DRAWINGS IS BY THE GENERAL CONTRACTOR, COMMUNICATIONS CONTRACTOR, OR ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
4. IDENTIFY ALL ELECTRICAL AND AUDIO JUNCTION BOXES, OUTLETS, RECEPTACLES, RACEWAYS, ETC. WHERE EXACT DIMENSIONS ARE CALLED FOR, THE REFERENCE SURFACE SHALL BE THE FINAL FINISHED SURFACE INCLUDING ANY ACoustICAL TREATMENT.
5. WHERE POWER, COMMUNICATION, OR AUDIO JUNCTION BOXES MUST COORDINATE WITH FIXED ARCHITECTURAL FEATURES, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS AND DETAILS.
6. WHERE POWER, COMMUNICATION, AND AUDIO JUNCTION BOXES ARE PROVIDED TOGETHER AT THE SAME LOCATION AND ELEVATION, INSTALL AS CLOSE TOGETHER AS PHYSICALLY POSSIBLE WITH SUFFICIENT SEPARATION FOR INDIVIDUAL DEVICE COVER PLATES.
7. POWER RECEPTACLES SHOWN ON THESE DRAWINGS ARE DEDICATED FOR USE WITH SPECIFIC AUDIO, DATA, AND COMMUNICATIONS EQUIPMENT. ADDITIONAL UTILITY POWER RECEPTACLES MAY BE INDICATED ON ARCHITECTURAL DRAWINGS OR RECORDS BY CODE.
8. ALL AUDIO SYSTEM POWER CIRCUITS SHALL HAVE ISOLATED GROUNDS AND SHALL BE PROTECTED BY 20 AMPERE BRACEDS UNLESS OTHERWISE NOTED.
9. WHERE DUPLEX AND 4-LEXP POWER RECEPTACLES ARE SHOWN ON THESE DRAWINGS IN WHOLE OR PART, THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND BE POWERED FROM STANDARD BUILDING POWER PANELS (NON-ISOLATED GROUND CIRCUITS) AND SHALL BE WIRING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL ELECTRICAL CODES.
10. ALL AUDIO SYSTEMS SHALL SHOW THE LOCATION OF ALL JUNCTION BOXES WITHOUT IDENTIFIABLE LABELS. THE WIRING SHALL BE LABELED AND THE BOXES COVERED. THESE SHALL BE CONNECTED BY THE ELECTRICAL CONTRACTOR DURING THE INSTALLATION OF SPECIAL AUDIO EQUIPMENT, TO BE COORDINATED WITH THE AUDIO CONTRACTOR.
11. AUDIO SYSTEM POWER CIRCUITS SHALL BE KEPT ISOLATED FROM LIGHT DIMMERS, LARGE MOTORIZED EQUIPMENT, AND OTHER INDUCTIVE OR NOISY ELECTRICAL LOADS.
12. EMPTY CONDUIT RUNS SHOWN ON THESE DRAWINGS SHOW ONLY INTERCONNECTIONS BETWEEN TERMINATION POINTS. THE EXACT PATH OF THE CONDUIT IS TO BE COORDINATED ON SITE.
13. WHERE POSSIBLE, EMPTY CONDUIT RUNS FOR AUDIO SIGNAL CIRCUITS SHALL BE KEPT FOUR FEET ABOVE ALL OTHER CONDUIT RUNS. EMPTY CONDUIT FOR AUDIO SIGNAL CIRCUITS SHALL NOT RUN PARALLEL TO POWER CIRCUITS CLOSER THAN FOUR FEET FOR DISTANCES EXCEEDING 20 FEET.
14. ALL EMPTY CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED, AND FURNISHED WITH PULL STRINGS.
15. THERE SHALL BE A MINIMUM OF ONE PULL BOX FOR EVERY 100 FEET OF STRAIGHT EMPTY CONDUIT AND EXTRA PULL BOXES FOR EVERY TWO 90 DEGREE BENDS IN A CONDUIT RUN.
16. THE METHOD OF INSTALLATION OF BOXES AND THE PASSAGE OF CONDUIT THROUGH ACoustICALLY SENSITIVE WALLS SHALL BE COORDINATED WITH THE ACoustICAL CONSULTANT. ALL JUNCTION BOXES SHALL BE COORDINATED WITH THE ACoustICAL CONSULTANT. THEIR BACKS SEALED WITH AIRTIGHT ADHESIVE OUTLET PADS. JUNCTION BOXES PLACED TO-BACK ON ACoustICALLY SENSITIVE WALLS SHALL NOT SHARE THE SAME STUD CAVITY.

SOUND SYSTEM DRAWING INDEX

- AV00 DRAWING INDEX, LISTS, LEGENDS AND NOTES
- AV10 AV FLOOR PLAN - DEVICES
- AV11 AV REFLECTED CEILING PLAN - DEVICES
- AV20 AV VIDEO FUNCTIONAL DIAGRAM
- AV21 AV AUDIO FUNCTIONAL DIAGRAM
- AV22 AV CONTROL FUNCTIONAL DIAGRAM

ABBREVIATIONS

AC	ALTERNATING CURRENT	IG	ISOLATED GROUND
AFR	ABOVE FINISHED FLOOR	LS	LOUDSPEAKER
ARCHT	ARCHITECT	MIN	MINIMUM
AV	AUDIOSIGNAL	MTD	MOUNTED
AVC	AUDIOSIGNAL CONTRACTOR	(N)	NEW
C	EMPTY CONDUIT	INC	NOT IN CONTRACT
CL or E	CENTER LINE	NIS	NOT TO SCALE
DP	DEEP (DEPTH)	OFE	OWNER-FURNISHED EQUIPMENT
(E)	EXISTING	TBD	TO BE DETERMINED
EC	ELECTRICAL CONTRACTOR	TRP	TYPICAL
GC	GENERAL CONTRACTOR	UDN	UNLESS OTHERWISE NOTED
H	HIGH (HEIGHT)		

REV.	DATE	BY:

NEW HAVEN EDUCATIONAL SERVICES CENTER
AUDIOVISUAL FACILITIES
MODERNIZATION

DRAWING INDEX, LISTS, LEGENDS AND NOTES

DATE	1/23/2017
SCALE	NOTED
DESIGNER	PAF
DRAWN	PAF
CHECKED	PAF
PROJECT NO.	16-025
SHEET	

AV0.0

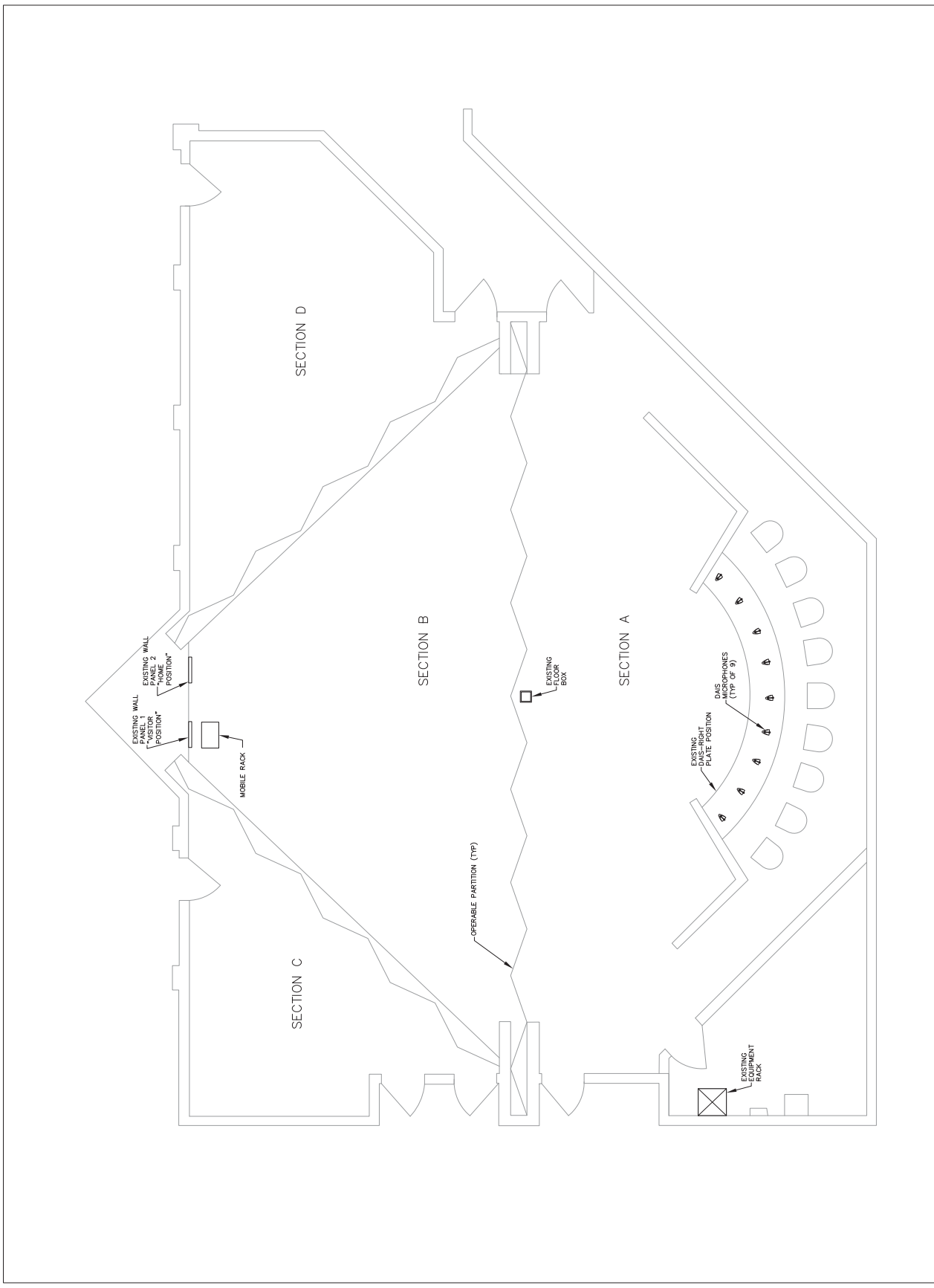
REV.	DATE	BY:

NEW HAVEN EDUCATIONAL SERVICES CENTER
 AUDIOVISUAL FACILITIES MODERNIZATION

AV FLOOR PLAN - DEVICES

DATE	1/23/2017
SCALE	NOTED
DESIGNER	P-AF
DRAWN	P-AF
CHECKED	P-AF
PROJECT NO.	16-025
SHEET	

AV1.0



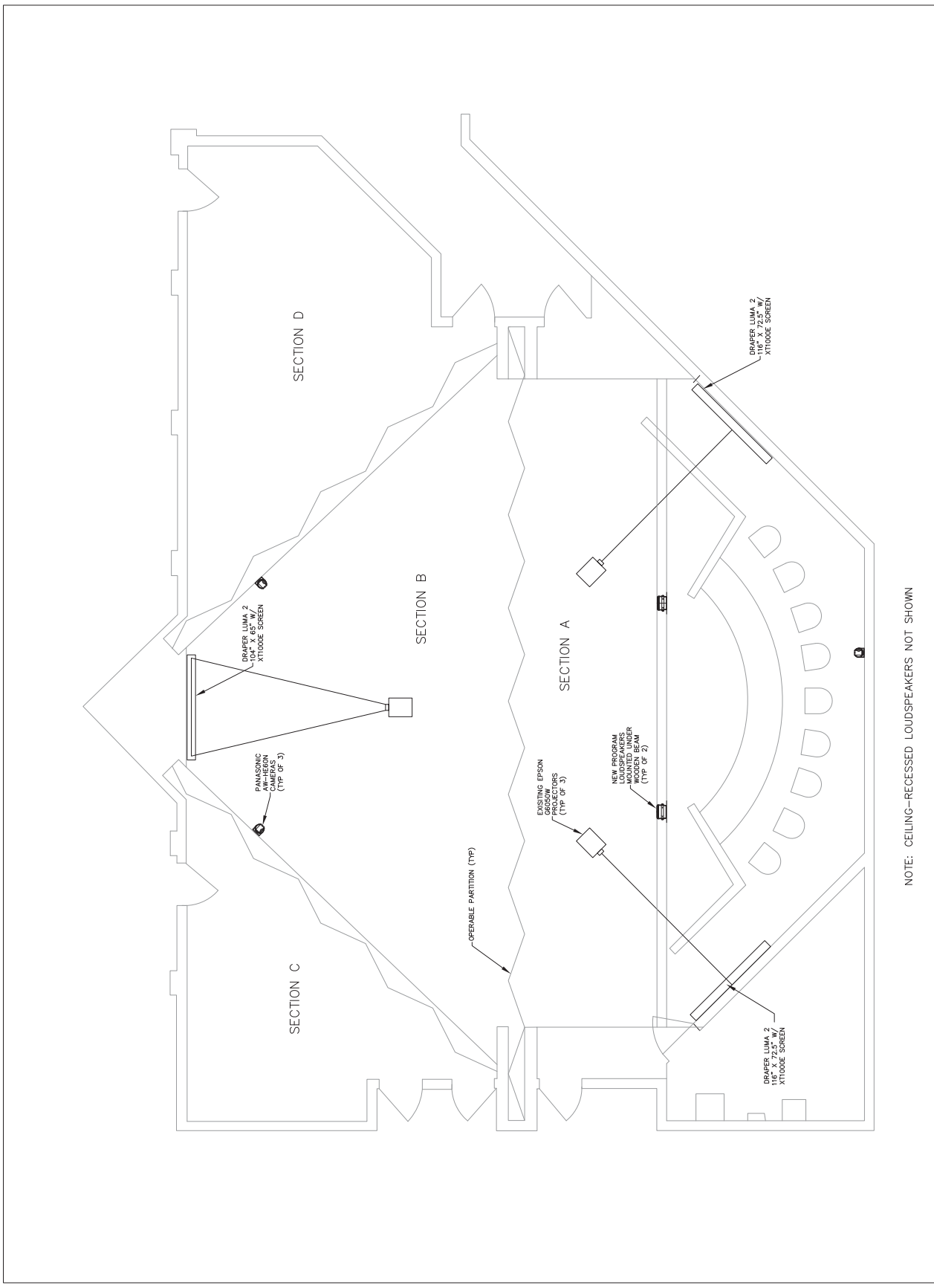
BOARD ROOM FLOOR PLAN - DEVICES 1
 SCALE 3/8"=1'-0"

REV.	DATE	BY:

NEW HAVEN EDUCATIONAL SERVICES CENTER
 AUDIOVISUAL FACILITIES MODERNIZATION

AV REFLECTED CEILING PLAN - DEVICES

DATE	1/23/2017
SCALE	NOTED
DESIGNER	PAF
DRAWN	PAF
CHECKED	PAF
PROJECT NO.	16-025
SHEET	AV1.1



NOTE: CEILING-RECESSED LOUDSPEAKERS NOT SHOWN

BOARD ROOM REFLECTED CEILING PLAN - DEVICES 1
 SCALE: 3/8"=1'-0"

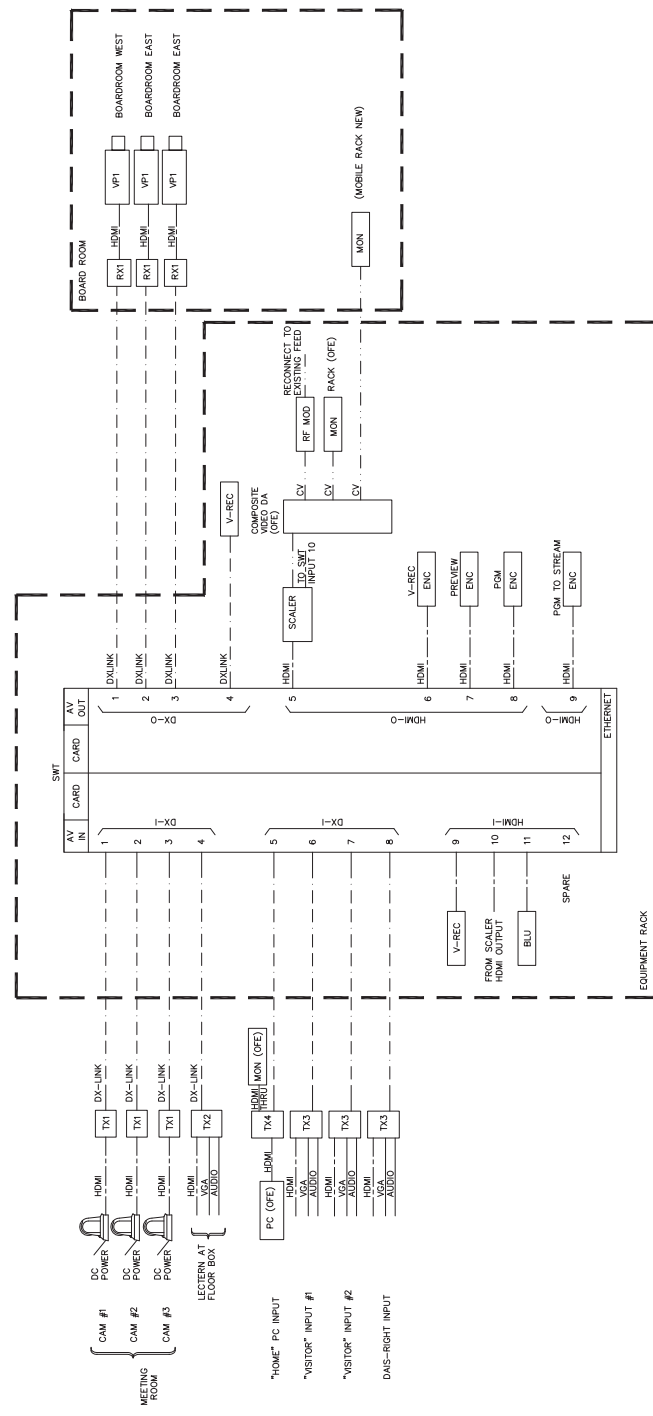
REV.	DATE	BY:

NEW HAVEN EDUCATIONAL SERVICES CENTER
 AUDIOVISUAL FACILITIES MODERNIZATION

AV VIDEO FUNCTIONAL DIAGRAM

DATE	1/23/2017
SCALE	NOTED
DESIGNER	PAF
DRAWN	PAF
CHECKED	PAF
PROJECT NO.	16-025
SHEET	

AV3.0



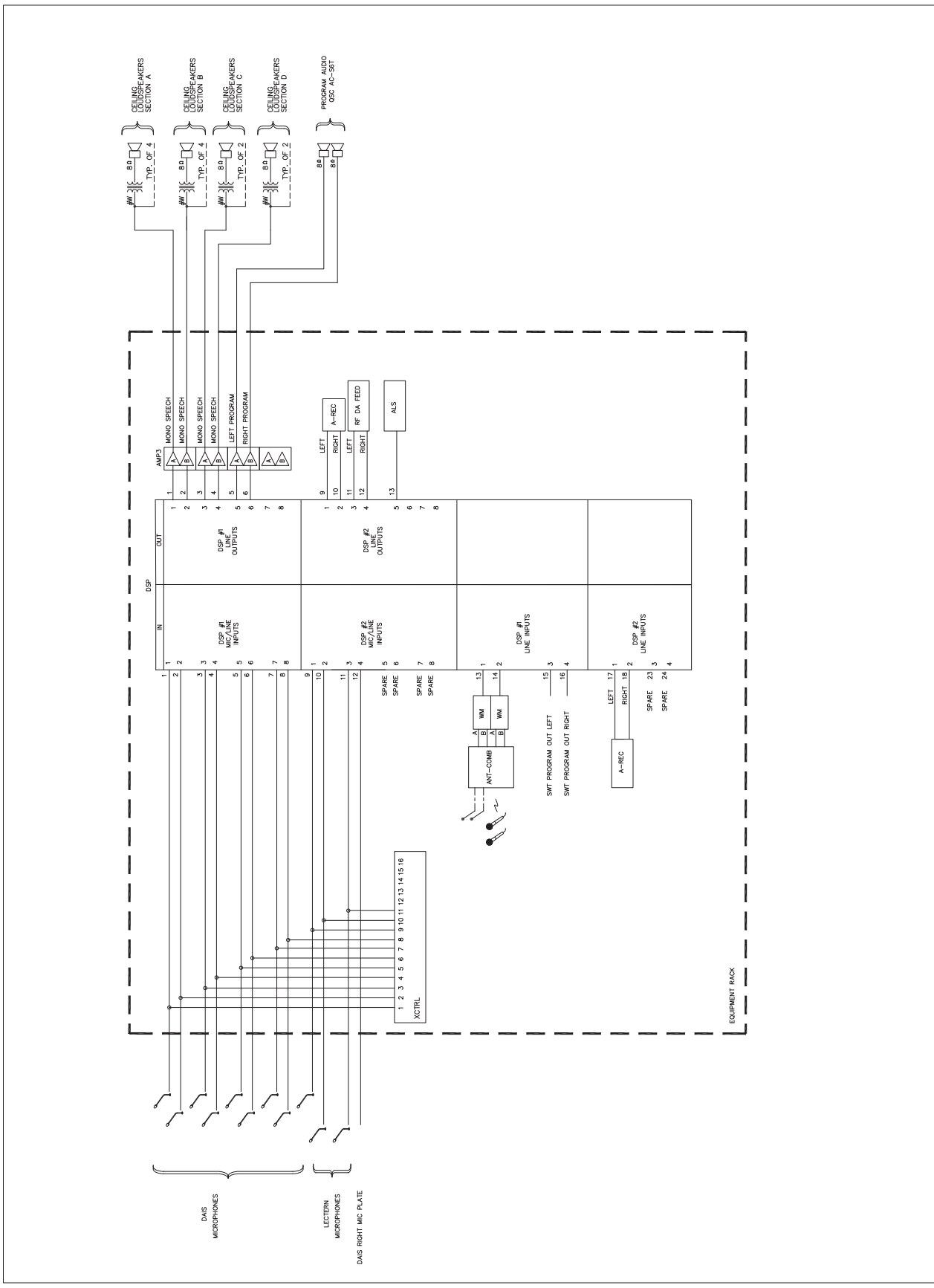
VIDEO FUNCTIONAL DIAGRAM 1
 SCALE: NONE

REV.	DATE	BY:

NEW HAVEN EDUCATIONAL SERVICES CENTER
 AUDIOVISUAL FACILITIES
 MODERNIZATION

AV AUDIO
 FUNCTIONAL DIAGRAM

DATE	1/23/2017
SCALE	NOTED
DRAWN	PAF
CHECKED	PAF
PROJECT NO.	16-025
SHEET	AV3.1



AUDIO FUNCTIONAL DIAGRAM 1
 SCALE NONE

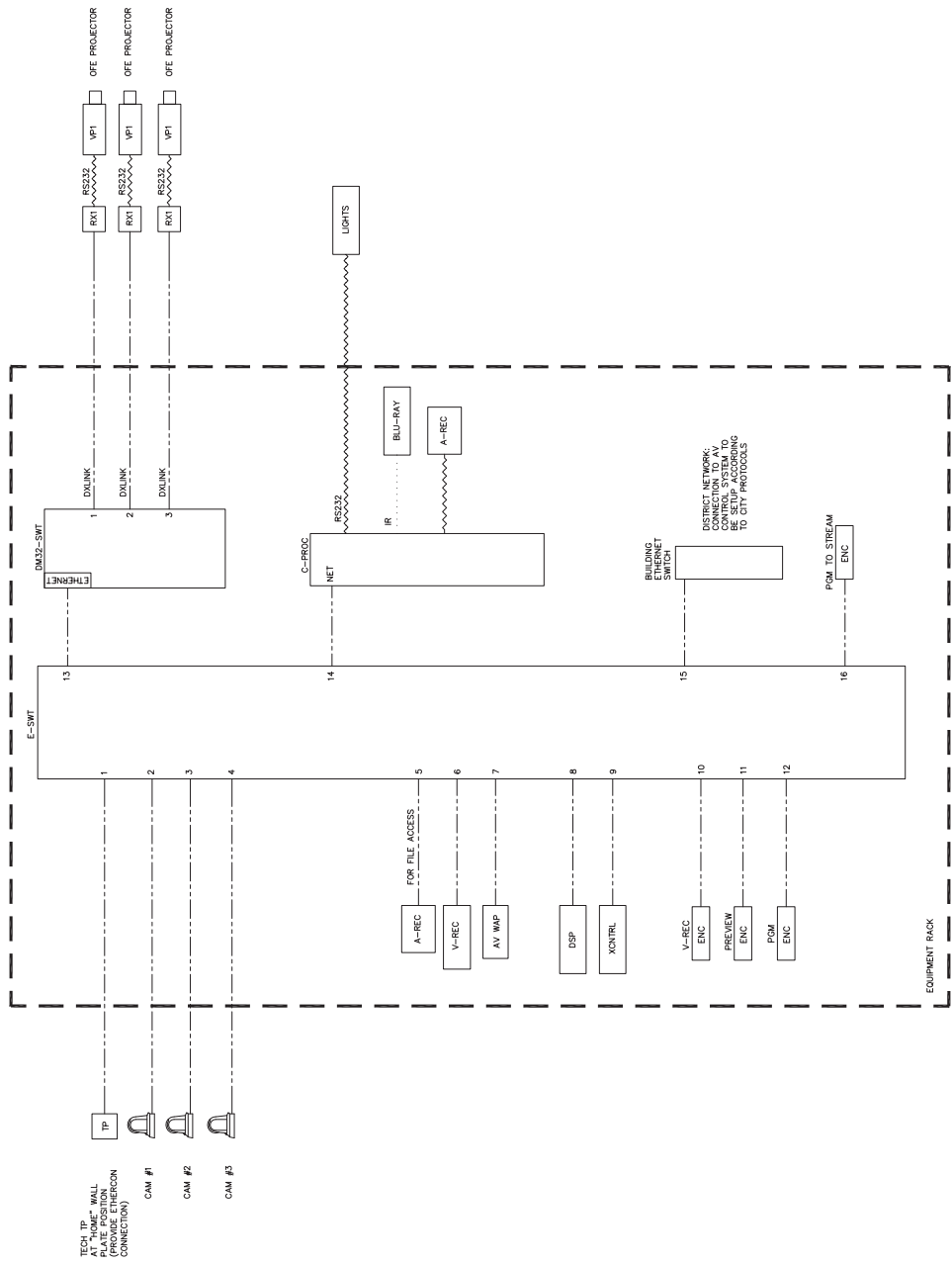
REV.	DATE	BY:

NEW HAVEN EDUCATIONAL SERVICES CENTER
 AUDIOVISUAL FACILITIES
 MODERNIZATION

AV CONTROL
 FUNCTIONAL DIAGRAM

DATE	1/23/2017
SCALE	NOTED
DRAWN	PAF
CHECKED	PAF
PROJECT NO.	16-025
SHEET	

AV3.2



CONTROL FUNCTIONAL DIAGRAM 1

**NEW HAVEN UNIFIED SCHOOL DISTRICT
REQUEST FOR PROPOSALS #776**

Audio Video Systems

PROPOSAL SUBMISSION

**NEW HAVEN UNIFIED SCHOOL DISTRICT
REQUEST FOR PROPOSALS #776
Audio Video Systems
PROPOSAL SUBMISSION**

BIDDER'S SIGNATURE AND AUTHORITY

Each Proposal must provide the full business address of the Bidder and be signed by Bidder with Bidder's usual signature. All required signatures must be in longhand. The name of the person signing shall also be typed or printed below the signature.

NEW HAVEN UNIFIED SCHOOL DISTRICT
REQUEST FOR PROPOSALS #776
Audio Video Systems
PROPOSAL SUBMISSION

VENDOR REPRESENTATION AND CERTIFICATION

The undersigned hereby affirms that:

1. He/she is a duly authorized agent of the Vendor with the authority to submit a Proposal on behalf of the Vendor (corporate or other authorization confirmation may be requested prior to final contract execution).
2. He/she has read the complete RFP and all amendments issued pursuant thereto.
3. The offer complies with State conflict of interest laws. The Vendor certifies that no employee of its firm has discussed, or compared the Proposal with any other Vendor or District employee, and has not colluded with any other Vendor or District employee.
4. If the Vendor's Proposal is accepted by the District on or before _____, the Vendor will enter into a contract with the District to provide the System described by the Proposal on terms mutually acceptable to the District and the Vendor.

I hereby certify that I am submitting the attached Proposal on behalf of _____
_____ [Specify Entity Submitting Proposal]. I understand that by virtue of
executing and returning with the Proposal this required response form, I further certify that the
Vendor understands and does not dispute any of the contents of this Request for Proposals
(except as may be noted in the Proposal).

Submitted: _____
Date

Company Name: _____

Address: _____

Telephone: FAX: E-Mail: _____

By: _____ Date: _____
Manual Signature of Agent(s)

Name and Title of Authorized Agent: _____

NOTE: If joint venture, each separate party must provide a completed certification form.

END OF DOCUMENT

NEW HAVEN UNIFIED SCHOOL DISTRICT

RFP #776

AUDIO VIDEO SYSTEMS

PROPOSAL FORM

CODE	MAKE/MODEL	DESCRIPTION	QTY	UNIT PRICE	EXTENDED PRICE
------	------------	-------------	-----	------------	----------------

SCHEDULE OF EQUIPMENT					
		Projection/Display			
1	SCR	Draper Luma 2 116" x 72.5" w/ XT1000E Screen	Manual Projection Screen	2	
2	SCR	Draper Luma 2 104" x 65" w/ XT1000E Screen	Manual Projection Screen	1	
3					
4		Cameras			
5	CAM1	Panasonic AW-HE60N	1080i HD Camera w/ 18x Optical Zoom	3	
6		Vaddio 535-2000-243 White	Camera Wall Mounting Bracket (White)	3	
7					
8		Recording			
9		Aja KiStor500	500 GB SATA Hard drive	2	
10	VREC	Aja KiProRack	Solid State HD Recorder	1	
11	AREC	Denon DN-700R	Solid State Audio recorder w/ Networking	1	
12	BLU	Denon DN-500BD	Blu-ray Player	1	
13					
14		Mics			
15		Shure MX418D/S	18" Desktop Gooseneck Mic w/ logic functions, programmable (Dais)	9	
16		Shure MX418S/S	18" Gooseneck Mic w/ preamp (Lectern)	2	
17	WM	Shure QLXD124/85	Wireless Mics Combo System	2	
18		Shure UA221	Passive Antenna Combiner	1	
19		Shure B58A		2	
20					
21		Audio System			
22	DSP	Symetrix Radius 12x8 EX	12x8 DSP	2	
23		Symetrix xControl	Control Expander	2	
24	AMP1	Crown Dci 8/300	8 Ch 300W	1	
25		QSC AC-S6T	Program Loudspeakers	2	
26	ALS	Listen Technologies LT-800-072	72MHZ RF ALS Transmitter	1	
27		Listen Technologies LR-4200-072	ALS RF Receiver	6	
28		Listen Technologies LA-430	Earphone/Neck Loop Lanyard	6	
29		Listen Technologies LA-405	Earphones	6	
30					
31		Video Switching			
32	SWT	AMX DGX1600-ENC	16x16 Matrix Switch	1	
33		Input Cards			
34	DX-I	AMX DGX-I-DXL	DX x4 Input Card	2	
35	HDMI-I	AMX DGX-I-HDMI	HDMI x4 Input Card	1	
36					
37		TX Devices			
38	TX1	AMX DX-TX-DWP-4k	HDMI DX Transmitter Plate (Cameras)	3	

NEW HAVEN UNIFIED SCHOOL DISTRICT

RFP #776

AUDIO VIDEO SYSTEMS

PROPOSAL FORM

	CODE	MAKE/MODEL	DESCRIPTION	QTY	UNIT PRICE	EXTENDED PRICE
39	TX2	AMX DX-TX	HDMI/VGA DX Transmitter Box (Lectern)	0		
40	TX3	AMX DX-TX-WP	HDMI/VGA DX Transmitter Plate (Back Wall)	3		
41		AMX DX-TX-DWP	HDMI/VGA DX Transmitter Box (Back Wall) Decora Style	0		
42	TX4	AMX SDX-410-DX	HDMI DX Transmitter Box w/ Thru	1		
43						
44		Output Cards				
45	DX-O	AMX DGX-O-DXL	DX x 4 Output Card	1		
46	HDMI-O	AMX DGX-O-HDMI	HDMI x 4 Output Card	2		
47						
48		RX Devices				
49	RX1	AMX DX-RX	DX HDMI Receiver Box	3		
50		AMX DGX-AIE	DGX Audio Insert/Extract Board	1		
51	SCALER	Atlona AT-HD530	HDMI to Video Scaler	1		
52	ENC	Intelix INT-IPEX1001 IP Encoder	Layer 2 & 3 JPEG2000 IP Encoder	3		
53	MON	Marshall Electronics V-LCD5.6-PRO	Composite Video Monitor in Portable Rack	1		
54						
55		Control				
56	C-PROC	AMX NX-2200	Central Processor	1		
57		AMX MXT-1001	10" Touch Panel	1		
58		AMX PS-POE-AF-TC	POE Injector	1		
59	E-SWT	HP 1920-24G	24 Port Gigabit Ethernet Switch	1		
60		AMX TPC-iPAD	Ipad App License	1		
61	WAP	AMX NXA-WAPR500	Wireless Access Point	1		
62		AMX NXA-WAPR500-PS	Power Supply	1		
63						
64		Miscellaneous				
65	POWER	Furman CN2400S	Power Sequencer/Conditioner	2		
66		Miscellaneous rack shelving		A/R		
67		Miscellaneous Plates, cabling		A/R		
68	RACK	AtlasIED RX14-25SFD	14RU Portable EQP Rack	1		

TOTAL COST FOR SCHEDULE OF EQUIPMENT:	
--	--

TOTAL COST FOR INSTALLATION/CONFIGURATION:	
---	--

GRAND TOTAL/PROJECT COST/BID PROPOSAL:	
---	--

PERFORMANCE BOND
(100% of Contract Price)

(Note: Bidders must use this form, NOT a surety company form.)

KNOW ALL PERSONS BY THESE PRESENTS:

That WHEREAS, the governing board ("Board") of the New Haven Unified School District, ("District") and _____, ("Principal") have entered into a contract for the furnishing of all materials and labor, services and transportation, necessary, convenient, and proper to perform the following project:

_____ (Project Name)

("Project" or "Contract")

which Contract dated _____, 20____, and all of the Contract Documents attached to or forming a part of the Contract, are hereby referred to and made a part hereof, and

And WHEREAS, said Principal is required under the terms of the Contract to furnish a bond for the faithful performance of the Contract;

NOW, THEREFORE, the Principal and _____ ("Surety") are held and firmly bound unto the Board of the District in the penal sum of _____ DOLLARS (\$ _____), lawful money of the United States, for the payment of which sum well and truly to be made we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents, to perform all the work required to complete the Project and to pay to the District all damages the District incurs as a result of the Principal's failure to perform all the Work required to complete the Project.

The condition of the obligation is such that, if the above bounden Principal, his or its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in the Contract and any alteration thereof made as therein provided, on his or their part to be kept and performed at the time and in the intent and meaning, and shall indemnify and save harmless the District, its trustees, officers and agents, as therein stipulated, then this obligation shall become null and void, otherwise it shall be and remain in full force and virtue.

And the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond,

and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of the Contract or to the work or to the specifications.

IN WITNESS WHEREOF, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety above named, on the ____ day of _____, 20____.

(Affix Corporate Seal)

Principal

By

Surety

By

Name of California Agent of Surety

Address of California Agent of Surety

Telephone Number of California Agent of Surety

Bidder must attach a Notarial Acknowledgment for all Surety's signatures and a Power of Attorney and Certificate of Authority for Surety. The California Department of Insurance must authorize the Surety to be an admitted surety insurer.