



FCSD#25 RHS Gym Sound system Remove and Replace

Scope of Work & Specification Sheet

RHS Gym AV Project
Scope of Work & Specifications

Audio System:

The project involves the complete removal and replacement of the existing audio system within the 18,365-square-foot gymnasium, with a 35 ft+ ceiling height which maintains a spectator capacity of 3,000. The new system must be engineered for high-performance audio and visual delivery across two primary facility configurations: a "Tournament Mode" featuring three active full-size basketball courts with bleachers retracted, and a "Varsity Competition Mode" utilizing a single central court with bleachers fully extended. The solution must provide high-intelligibility speech and high-fidelity music reinforcement for Wyoming varsity basketball, volleyball, and wrestling competitions, as well as large-scale public events such as prom and graduation ceremonies.

Audio & Control System:

- Appropriate speakers in quality and quantity for the specified space and uses
- Wireless Lavalier Microphone, qty 2
- Wireless Handheld Microphone, qty 2
- Wired Microphone, qty 4
- Dual (or multi) Channel Commercial Amplifier(s)
- Power Conditioner and Distribution Unit(s)
- Multiple types of audio inputs including but not limited to: 3.5mm audio, USB-C, USB-A, & bluetooth.
- Touch screen wall mounted controller(s)
- Common cabinet/rack to locate and hold all equipment, must include doors, lock, & microphone storage
- Wiring & required components for all equipment



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- Installation, configuration and integration

Control must be centralized through a fixed wall panel. The system must be fully functional without needing a mobile unit, tablet, or handheld remote. If handheld remotes are included, they are to be treated as optional accessories only; the system's core functionality must not depend on them.

Video Display Addition:

Integrate two high-output projectors to display video onto two 20'x20' screens. The system must deliver clear, high-contrast video quality under partial ambient lighting conditions (i.e., the gymnasium will remain illuminated during use). Audio from video sources must be fully integrated into the specified sound system for synchronized distribution. Both projectors shall be ceiling-mounted at a fixed height and enclosed in security cages designed to allow for various lens offsets and positions.

Projector Specs:

Feature	Requirement
Brightness	Minimum 8,500 Lumens (ISO/IDMS)
Light Source	Solid-state Laser (20,000-hour life)
Resolution	WUXGA with 4K Enhancement Technology
Lens Options	Interchangeable (to be determined by site throw distance)
Connectivity	HDBaseT, HDMI (HDCP 2.3), and 3G-SDI

Installation and configuration requirements:

Installation & Infrastructure

- Conduit & Cabling: The local Electrical Contractor (EC) shall provide and install a minimum of ¾ inch EMT conduit for all speaker and system cabling. All wiring must be pulled and terminated according to local electrical codes.
- All conduit and fittings to be black in color



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- **Equipment Mounting:** The contractor is responsible for the physical installation of all speakers, projectors, and hardware, including the necessary EMT infrastructure.

Programming, Commissioning & Warranty

- **System Configuration:** Programming may be performed off-site (in-house) or on-site (in the field). However, final system commissioning, testing, and performance verification must be completed in person at the RHS Gym.
- **90-Day Post-Install Support:** A 90-day programming warranty is included, starting from the date of system hand-off. During this period, the client may request modifications to the initial functionality at no additional cost.
- **Standard Rates:** Any programming changes or "feature creep" requested after the 90-day warranty period will be billed at standard hourly service rates.

Training & Documentation

- **On-Site Training:** Professional training shall be conducted on-site for at least one representative from the Athletics, IT, and Maintenance/Custodial departments.
- **Operational Scenarios:** Training must be comprehensive, ensuring staff can confidently operate the system for the following events:
 - Varsity Basketball and Volleyball competitions.
 - Multi-day Basketball tournaments.
 - Wrestling tournaments.
 - Special events (Prom, Graduation, etc.).
- **Deliverables:** The contractor shall provide complete system documentation, including "as-built" diagrams and operating manuals, in both printed and electronic formats within 30 days of project completion.

Timeline & Coordination

This audio-visual project is a critical component of a multi-phase gymnasium renovation that includes the installation of new flooring, bleachers, and lighting. Successful execution requires proactive coordination between the school district and all active contractors to ensure seamless integration. Contractors must adhere to a strict project timeline: the facility will remain in use for competitions through March 11th, 2026, with the entire renovation—including all AV integration—required to reach final completion by September 1st, 2026.



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A primary constraint of this project is the protection of the newly installed gymnasium flooring. Once the new floor is laid, the use of lifts will be strictly prohibited without exception. All overhead work, including conduit runs, speaker mounting, and projector installation, must be carefully scheduled and coordinated with the flooring contractor to be completed prior to floor installation

Accounting and Billing

To accommodate the use of multiple funding sources, the video components of this project must be line-itemed, bid, and invoiced separately from the audio and control systems. Despite this administrative separation, the project is being awarded as a single, unified contract. To be considered for a contract award, bidders must submit a comprehensive proposal that includes both components; the district will not accept partial bids for only one portion of the system.

Ed McPherson

Building and Grounds Supervisor
Cell – 307-438-1600
emcpherson@fremont25.org



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