



**SERBAN**  
s o u n d & c o m m u n i c a t i o n s

312 Kentucky Street, Bakersfield, California 93305 (661) 371-3300 Fax: (661) 371-2626  
www.serban.com California Contractors lic#401115

June 5, 2017

MB#517030

Richland School District  
Richland Jr. High  
331 Shafter Ave  
Shafter, CA 93263

### **Richland Jr. High School Gym A/V System**

## **Scope of Work**

Serban Sound and Communications has designed a state-of-the-art Audio and Video system based on the room needs and size for optimal performance. All equipment is considered to be the industry's best and will perform as expected for years to come. All work will be performed as per DSA standards and in a safe manner by professionally trained and certified technicians.

Serban Sound presents this system solution for your review.

## **System Description**

### **Speaker and Amplification System:**

This proposal consists of a room designed audio sound system including:

(3) Crown 2 channel high power amplifier.

We will utilize the sites existing Bose Speakers

### **Digital Sound Processors:**

(1) BSS London BLU Digital Processor will be installed to adjust speaker crossover frequency's as well as controlling microphone feedback suppression. With the DSP unit we have a total of 12 analog inputs that can be used for Wired/wireless microphones, DVD players, Laptop with HDMI or 3.5mm audio cable.



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**Video:**

Serban will install a projector including the needed lenses and mounting brackets to be used with the new Da-lite motorized 16:10 projector screen. We will install cat6 wiring including HDBaseT or direct connectivity devices allowing connectivity to the Projector for the video feed.

**NOTE: Power will be required for the projector and projector screen. Installation of power is not included in this price and will need to be done by others in the event that power is not present.**

**Wired and Wireless Microphones:**

Serban has included (2) Shure wireless handheld microphone, (2) Shure wireless Lavalier microphones, (1) Shure wireless transmitter with 3.5mm input for mobile devices (2) Shure Wired microphone with (2) 50 ft cords. The wired input jacks will be located in the installed equipment rack inside the MPR. A antenna distribution amplifier and antennas will be installed for proper wireless microphone connectivity as needed for inside the MPR.

**Control and System Interface:**

System functions such as equipment power on/off, input/output routing and volume levels by custom written Crestron programming through the Crestron controller. (1) Crestron 7" touch panel located in the equipment rack will allow the user to simply control the systems functions.

**Racking and other equipment:**

Serban will install a free standing lockable floor rack to house the included equipment located inside the MPR. The equipment will also include (2) drawers to store microphones and cords. Any needed shelving and panels for devices are also included.

(1) HDMI feed from the equipment rack to the Projector. Serban Sound will also supply and install (1) Blu-ray player to be used for DVD movies or CD audio. There will also be (1) 3.5mm audio input jack for a BOYD audio source.

**NOTE: Power will be required for rack equipment. Installation of power is not included in this price and will need to be done by others in the event that power is not present.**

Other installed components of the Audio / Video system include needed wiring, connectors, local Crestron system network switching. Programming and staff training at completion of install.

**Major equipment list:**

- (1) Crestron 7" Touch Panel
- (1) Crestron Controller
- (1) 4x1 4K HDMI® Switcher
- (3) 2 Channel High Power Crown Amplifier
- (1) 12x8 Signal Processor (DSP)
- (1) 8-port Unmanaged Gigabit Switch with Rear Ports



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- (2) Shure Handheld wireless microphone receivers with SM58 Microphone
- (2) Shure Lavalier wireless microphones
- (2) Shure Handheld wired microphones with 50' cords
- (1) Shure Handheld wireless microphone receivers with 3.5mm headphone jack
- (1) Wireless antenna distribution system
- (1) 37U Equipment rack with needed shelving and panel blank offs
- (1) Power sequencer
- (1) Hitachi projector 7500Lmn including cage to fit the size of the projector
- (1) Da-Lite 16:10 motorized screen

**Note: price reflects a bulk pricing discount and is factored in with the combined awarding of the other following Projects, Sequoia Elementary MPR Sound System, Redwood MPR Sound System and Golden Oaks Elementary MPR.**

**Price for new MPR A/V System : \$44,178.00**

Serban's price is contingent upon:

1. Any changes not contained in the scope of work will be documented in writing and agreed by both the customer and Serban Sound and Communications.
2. All areas affected by the scope of work are accessible during normal working hours 8:00am to 5:00pm.
3. Pricing Valid for 60 days from June 5, 2017.

Bid Exclusions:

- Conduit, Back boxes, pathways, power or any structural backing.
- Any Lead and Asbestos testing or abatement.
- Any Structural Engineering or P.E Stamping if required.
- Pollution Liability Insurance, Builders Risk Insurance.
- Submittals, Permits and fees.
- Payment and Performance Bonds.
- Removal of existing or abandoned cable.

Signature \_\_\_\_\_

Date: \_\_\_\_\_

Purchase Order Number \_\_\_\_\_

If you have any questions please don't hesitate to contact me.

Sincerely,

Jerry Page

Phone 661-371-3300 ext136

Fax 661-371-2626