



## Scope of Work

California State University, East Bay  
Facilities Planning, Design and Construction

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### Project:

California State University East Bay, Recreation and Wellness Center Audio System

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### Scope Statement

**Base Bid:** As per Design Drawings AV/000, AV/201, AV/202, AV/206, AV/207, AV/401, AV/601 and associated specification, provide professional installation services including but not limited to the following.

Audio equipment in The California State University East Bay's new Recreations and Wellness Center. The system will be operated by a receiver/amplifier/computer unit located a 2<sup>nd</sup> floor utility closet. The system's output includes XM Satellite radio & iPod. Zoned speakers are to be placed throughout the areas outlined in this proposal. Additionally, install four FM transmitters at each of the four televisions located on the 1st floor so that users may hear the TV audio by tuning to a set channel.

Provide wall mounted outdoor speakers on the exterior of building facing the West plaza.

Provide a wireless microphone system capable of being addressed through the new audio speakers.

Wireless microphone zones shall be capable of addressing lower and upper fitness areas as one zone, entry lounge area as a separate zone & exterior West Plaza area as a separate zones or all said zones simultaneously. Voice activation must override music play in selected zones. Microphone and related zone / volume controls to be located at the front desk / reception desk located at the lower level Lounge area.

### Speaker Installation

#### 1. Zone One – Lounge Area (Base Bid)

- a. Provide speakers in two-story Lounge / entry area (wall mounted) and into the drop ceilings (ceiling mounted) at the end of the entry lounge on the first and second floors of the lounge area. The speakers will be used on a daily basis to provide background music. It is the intention of the RAW Center to use the lounge area for occasional special events where the volume will need to be increased above a "background" level.
- b. Speakers must fill the space with minimal sound "dead zones" throughout the lobby entry area
- c. Speakers must create minimal echo. The surfaces in this area are glass, sheetrock and terrazzo flooring.
- d. Users must have the ability to raise and lower the volume from the AV box, located on the 2<sup>nd</sup> floor independently by zone.

#### 2. Zone Two – Fitness Area, 1<sup>st</sup> & 2<sup>nd</sup> Floors (Base Bid)

Provide ceiling mounted speakers in the approximately 4000 square foot first-floor Fitness Center. The fitness area has a tiled drop-ceiling. Exact number of speakers and their location to be determined but will meet the following requirements.

- a. Speakers must fill the space with minimal "dead zones" throughout fitness area
  - b. Users must have the ability to raise and lower the volume from the AV box, located on the 2<sup>nd</sup> floor independently by zone.
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### **3. Zone Three – Outside West Plaza Area (Base Bid )**

Provide beam or wall mounted outdoor speakers on the exterior of building facing the West plaza. The intent of the music is to provide ambiance and would not be used for events. An exact number of speakers, type and location the location to be determined by vendor but will meet the following requirements.

- a. Speakers must be secured so that they are not easily subject to theft.
- b. Speakers must be all weather, so that can withstand rain and sun.
- c. Users must have the ability to raise and lower the volume from the AV box, located on the 2<sup>nd</sup> floor.

**4. Zone Four – Utility Closet 2<sup>nd</sup> Floor Fitness Room. (Base Bid)** Provide a single speaker within the closet for programming purposes. All speaker wire to be concealed from sight whenever possible. If run along the open ceiling, beams or walls, wire should closely match the color of the existing wall material.

### **Wireless Microphone System (Base Bid)**

1. Provide a wireless voice microphone system zoned as follows (lounge = zone one) and (fitness areas 1st & 2<sup>nd</sup> floors = zone 2. West Plaza exterior = zone three). Voice activation to over-ride / interrupt music signal by zones selected.
2. Mount wireless microphone transmitters within drop ceilings as needed to achieve design intent.
3. Microphone zone / voice activation controls to be located at the entry lounge service desk and capable of adjusting voice volume by zone selected. Other components to be located in the 2<sup>nd</sup> floor utility closet.
4. Indicate power / data requirements for wireless microphone at service desk, lounge area as existing (E) or new (N).

### **XM Antennae (Base Bid)**

1. Provided programmable XM receiver unit
2. Mount XM antennae on the exterior South gray siding wall.
3. System intent is to provide XM Radio throughout the 1<sup>st</sup> and second floor newly installed speakers to all zones and as selected.
4. Caulk cable penetration area.

### **Amplifier & Controller Equipment (Base Bid)**

1. Equipment requirements to be specified in the design specification / equipment list.
2. Amplifier, receiver / controller to be mounted in Wall rack (typical U.N.O.) located in 2<sup>nd</sup> Floor closet identified as Zone Four

### **Equipment Rack (Base Bid)**

1. Wall mount equipment rack in the 2<sup>nd</sup> Floor Fitness Center utility closet (Zone Four).
2. Use 110v outlet for power supply (to be provided by others)

### **TV Audio FM Transmitters (Base Bid)**

1. Install four FM transmitters at the each of the televisions located on the 1<sup>st</sup> floor so that users may hear the TV audio by tuning to a set channel.
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### Out of Scope

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- 1- Building Power receptacles as specified in the drawings. (To be installed by CSUEB electricians.)
- 2- XM subscription (Provided by CSUEB ASI)

### Assumptions

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- 1- Contractor will be given access to the Recreation and Wellness Center Facilities from 7:00 am to 5:00 pm by the Center's staff

### Deliverables

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- 1- All user manuals and warranties to be delivered to the University Project at the completion of the project

### Acceptance Criteria

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- ☐ System will play input from both an XM connection and an iPod.
- ☐ Wireless microphone output is available in single and multiple zones as designated.
- ☐ Each Zones' speakers' volume can be adjusted separately with wireless voice microphone over-ride / interrupt of music signal when activated by selected zone. Music shall continue to play in non-voice activated / selected zones while speaking into the elected area / zone
- ☐ End-users are trained on the operation of the sound equipment and know how to change output types (iPod, XM, microphone)
- ☐ Installed per plans and specification

### Project Dependencies

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- 1- CSUEB Electrician's installation of building power receptacles in the equipment control room & on the South wall of the dining area above the wall tile.
  - 2- Comcast HD Cable installation
  - 3- XM Satellite license/connection
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