STAFF REPORT

SUBJECT:	SJCOG Board and Conference Room AV Upgrades
RECOMMENDED	Recommend the SJCOG Board Authorize the Executive Director to Contract with AVDG for Audio Visual Improvements Not to Exceed $50,000.

SUMMARY:

On April 2017, SJCOG staff distributed a Request for Proposal (RFP) for the replacement of the wireless microphone system in the SJCOG board room with a digital version and additional gooseneck mics and further improvements to conference room AV 201 on the second floor. The RFP posted on the SJCOG web site and sent out to 19 vendors with three sent to local businesses. Other firms were in the Sacramento region, Bay Area and Southern California. The original due date for the RFP was May 1st but an extension was requested by one of the local vendors. The extension was granted to May 8th. Because of the RFP, SJCOG received requests from two vendors to view the architectural plans. One vendor also arrived on site to do a walkthrough to familiarize themselves with the building. Subsequently only one RFP was received by the May 8th deadline, from AVDG.

RECOMMENDATION:

That the Board authorize the Executive Director to contract with AVDG for audio visual improvements in the SJCOG building.

BACKGROUND

The current aging microphone system has shown to receive more interference as frequencies have been taken over by local television stations, resulting in the phasing out of legacy analog microphone systems over time. The current system was installed with the construction of the SJCOG building in 2003. This project will replace the wireless microphones with four (4) digital wireless microphones and eight (8) gooseneck microphones for workshop/large meeting scenarios. Three of these digital microphones will be hand-held with the fourth being a lapel microphone. A new antenna distribution system will be added to cover the board conference room area. The system will come equipped with a rechargeable battery system along with two dual charging stations to make it easier to grab and go during a meeting.

AV 201 (second floor conference room) will be upgraded to a touch control system similar to the other conference rooms. The current 80" LED screen mounted to the wall. Removal of PC behind the LED unit will need to occur to reconfigure it inside the rack room. Replacement of the analog video switcher with a digital video switcher will improve resolution and signal strength. In addition, the new digital video switcher will have better compatibility with Windows and Apple/Macintosh based systems. The digital switcher will be housed in the existing rack location. The two existing ceiling speakers will be replaced with four new speakers to reinforce both program audio from computer sources and audio conference calls. This system will provide highly intelligible, natural sounding speech reproduction and eliminate feedback. The installation of two tabletop mics on the conference table will pick up 360 degrees of conversation.

Work will take approximately 8 weeks to be completed from the notice to proceed.

FISCAL IMPACT:

The proposal is for $44,704.15. Staff recommends adding an 11% contingency making the not to exceed amount $50,000. Funds are included in the FY 16/17 Annual Financial Plan.

Prepared by: Steve Dial, Deputy Executive Director/CFO

Based on our recent meeting regard the programming report and budget estimate, we have recommended the following approach to meet the functional needs and basic requirements defined for the project, as follows:

Boardroom
Audio Systems: wireless microphones input adds

Your current microphone system has shown more interference over the last year so we will a replace four existing Audio Technica wireless microphone systems. The other units will still work but we will add four more digital wireless microphones. We will install three handheld and one lapel microphone. We will include a new antenna distribution to cover the conference room area. The system will have rechargeable batteries and two dual charging station to make it easier to grab and go for the meetings. We will adjust the new mic levels to ensure proper audio levels. The microphone will be demonstrated to the client to confirm audio levels are correct.

Remote Control Systems:

We will not have to change any AMX programming since their inputs have already been programmed.

Cables, Connectors & Support Hardware:

All the audiovisual components will be installed in an existing equipment rack. The rack equipment includes, automatic microphone mixer, and related electronics.

Boardroom
Audio Systems: 8 Wired floor inputs add

We will a replace the existing floor plates with a new layout. We will add four new XLR inputs in the AV130 room, remove the control port since you have your wireless IPad and the other will have the same but we will have a custom grommet with four more XLRs cables coming from a cable spool not an input plate because the lack of space on plate. We must pull four new cables to each location from rack room. Your current DSP does not have any more inputs so we are going to add two new input modules giving 8 new microphone inputs. We will balance the new audio system with all eight owners furnished microphones.

Remote Control Systems:

We will add new programming to your existing AMX control system programmed with the following control features:
Speech Volume - Raise / Lower / Mute for the eight new inputs
Add the eight new Mic inputs on the touch screen under advanced page

Cables, Connectors & Support Hardware:

All of the audiovisual components will be installed in an existing equipment rack. The rack equipment includes, automatic microphone mixer, and related electronics.

Room AV201

Display System:

AVDG will reuse the existing 70" display currently mounted to the wall. We will remove the existing PC behind the display and relocate it back into the existing rack location.

Video Inputs:

We will replace the analog video switcher with a digital video switcher in order to improve resolution and signal strength. In addition, the new digital video switcher has better compatibility with Windows and Apple based systems. The digital switcher will be house in the existing rack location **Inputs**

1. OFE Direct TV
2. OFE Apple TV
3. OFE Desktop DisplayPort
a. NOTE: USB will be extended from the rack mounted computer to the conference table so users can access the USB ports, on the computer, in an efficient manner.

Conference table inputs

4. Back Laptop Input HDMI/ VGA with Audio existing HSA822

Audio Systems:

The two existing ceiling speakers will be replaced with four new JBL speakers in order to reinforce both program audio from computer sources and audio conference calls.

We will provide a new Biamp VOIP DSP. The Audio conferencing is provided by new sound system. This system will provide highly intelligible, feedback elimination and natural sounding speech reproduction. We will install two tabletop mic that will pick up 360 degrees. We will install into existing table.

Remote Control Systems:

We will install a new control system will simplify the control of your A/V system. We will use your own IPAD mini and include an app to install on your device and configure it to work on your network. We will provide a docking station and a skin to fit over the mini IPAD to make it easy to remove and reattach from recharge the unit. The unit will sit on top of the rack listed below. We will work with you on the design of your new touch panel layout.

A programmable remote control processor will be supplied, installed and programmed with the following control features:
SJCOG (Logo Page)
System - On / Off
Program Volume - Raise / Lower / Mute
Speech Volume - Raise / Lower / Mute
Display 1 – On/off
Source Select – Laptop HDMI VGA / Desktop/ Direct TV and Apple TV
Audio Conference over VOIP – All Control Features

Cables, Connectors & Support Hardware:

All the audiovisual components will be installed in an equipment rack within millwork at the front of the room within the space. The rack equipment includes, audio conferencing hybrid, automatic microphone mixer, power amplifier, remote control processor and related electronics.

SUMMARY OF INVESTMENT

The following is a summary of audio visual systems for the areas of concern for the project. The Display, Video, Audio and Remote Control Systems cost reflects all the major components necessary to meet the project's functional goals. Support Hardware cost includes the cable, connectors, plate, panels and miscellaneous incidental components required to integrate the Audio-Visual components into the final system solution. The Technical Services cost includes the Design Engineering, Project Engineering, Remote Control Programming, CAD, Project Management, Shop Fabrication and Field Installation Labor required for the project.

Boardroom Wireless Mic adds		
Display System		
Video Inputs		
Audio System		
Shure QLX wireless system 3 wireless handheld and one lapel		$6,128.11
Remote Control System		
Cables, Connectors and Support Hardware		
Rack Accessories, Connectors, Etc.		$153.85
Technical Services		
Design, Engineering, CAD, Programming, PM, Installation Technical Labor, Etc.		$3,915.00
	Tax	$590.82
	Shipping	$282.69
	System Total	$11,070.47

Boardroom wired Mic Adds		
Display System		
Video Inputs		
Audio System		
Biamp 4 port expanded		$915.00
Remote Control System		
Cables, Connectors and Support Hardware		
Rack Accessories, Launch port, Connectors, Hardware, Etc.		$533.34
Technical Services		
Design, Engineering, CAD, Programming, PM, Installation Technical Labor, Etc.		$6,965.00
	Tax	$136.22
	Shipping	$65.18
	System Total	$8,614.74

AV201		
Display System		
Video Inputs		
Crestron DM 4X1 switcher, Cat 5 Sender and receivers, USB extenders Etc.		$2,770.66
Audio System		
DSP Automatic Microphone Mixer, Audio Power Amplifier, 4 ceiling Loudspeakers, table mics		$4,894.65
Remote Control System		
Remote Control Processor, table top holder for OFE IPad, Etc.		$1,893.27
Cables, Connectors and Support Hardware		
Rack Accessories, Launch port, Connectors, Hardware, Etc.		$1,528.67
Technical Services		
Design, Engineering, CAD, Programming, PM, Installation Technical Labor, Etc.		$12,390.00
	Tax	$1,042.76
	Shipping	$498.93
	System Total	$25,018.94

SJCOG 2017 RFP		
Summary of Spaces		
Board Room Wireless Microphone adds		$11,070.47
Board Room 8 Wired Microphone adds		$8,614.74
AV201		$25,018.94
	System Total	$44,704.15

+11% 50,000

SUMMARY

Audio Visual Design Group is committed to improving how our clients present, receive and exchange important information in their Meeting and Conference Room environments. We have the experience and expertise to provide SJCOG with multimedia systems that will serve as models for innovative presentation environments.

We are confident that our participation on this project will contribute to its success. We appreciate the opportunity to submit this design / build proposal and look forward to reviewing the next phase of the project. Prices are guaranteed for 90 days.

Sincerely,

Ed Newton, CTS, DMC-D
Senior Account Executive

AUDIO VISUAL
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