

**BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY**

Meeting Date: 12-19-07

Division: TECHNICAL SERVICES

Bulk Item: Yes X No

Department: TECHNICAL SERVICES

Staff Contact Person/Phone #: Vicki Yaklevich , 295-5118

AGENDA ITEM WORDING:

Approval of Proposal #MLAVIKWU1 by Audio Visual Innovations to upgrade video and audio broadcast equipment for MCTV in the Key West BOCC Chambers and the MCTV Broadcast Studio at the Harvey Government Center.

ITEM BACKGROUND: MCTV currently broadcasts all public meetings held in the Harvey Gov't Center using outdated analog video equipment which is no longer covered under warranty. A failure of any of the existing equipment would require a long-term outage. Furthermore, with the addition of requirements for ADA compliance, the existing mixer does not provide sufficient inputs to allow for the broadcast of both a speaker and a signer for the deaf simultaneously while maintaining a view of the BOCC dais as the main background.

PREVIOUS RELEVANT BOCC ACTION:

CONTRACT/AGREEMENT CHANGES: Purchase of new upgraded equipment.

STAFF RECOMMENDATIONS: Approval.

TOTAL COST: \$66,799.67 **BUDGETED:** Yes X No

COST TO COUNTY: \$66,799.67 **SOURCE OF FUNDS:** Primarily Ad Valorem

REVENUE PRODUCING: Yes No X **AMOUNT PER MONTH** **Year**

APPROVED BY: County Atty RB OMB/Purchasing Risk Management

DOCUMENTATION: Included X Not Required

DISPOSITION: **AGENDA ITEM #**

MCTV Key West Audio/Visual Equipment Upgrade

Technical Services

Monroe County BOCC

November 19, 2007

Background Information

Currently, Monroe County broadcasts Monroe County Television (MCTV) via Comcast channel 76 and the Internet to the residents of Monroe County and beyond. There are three BOCC meeting rooms from where meetings are broadcast: Key West, Marathon and Key Largo. This agenda item concerns the audio visual equipment located at the BOCC meeting room in the Harvey Government Center in Key West.

Our current equipment at the broadcast facility in Key West is very old. This equipment has been in use since 1992 when the studio was last upgraded. The current video mixing board that we use to combine the signals from the various cameras in the meeting room and the audio from the microphones to broadcast on the air is 15 years old and out of warranty. A failure of this center piece of our broadcast facility in Key West during a BOCC meeting would prevent the public from viewing the proceedings via channel 76 or the internet.

Furthermore, at the July 2007 BOCC meeting, the County received a request to have a portion of the meeting broadcast with signing for the deaf. This required us to use our only "picture in picture" (PIP) frame for the signer and the main screen was then focused typically on the speakers. We received several complaints from viewers who missed seeing the view of the entire Commission as people were speaking in front of them. The current video mixer has only 4 inputs and 1 PIP frame. The new equipment will provide for a minimum of 8 inputs and has multiple PIP frame capability. This will enable us to provide services for the deaf and maintain the usual broadcast format of BOCC meetings that our viewers have come to expect.

Finally, the new equipment will provide much better on-screen graphics. This will allow us to identify staff, commissioners, and other speakers who come before the BOCC to our audience as well as provide for additional titles to use during special presentations such as Employee service awards, etc. These and other digital capabilities will keep our equipment current for several years to come.

Proposed Equipment

The proposal calls for the replacement of our CRT televisions with 4 LCD monitors and tuners mounted in the ceiling near their present locations. These monitors will provide the audience with a better view of presentations or other content that is normally projected to the side of the dais when a presentation is made before the Commission. These monitors are 75% larger and more visually aesthetic than the existing 27-inch CRT screens.

The audio subsystem will be replaced as well. 16 new speakers will be installed throughout the chamber to provide better sound distribution. 13 new digital microphones will be installed, 10 will replace the fixed microphones at each Commissioner and Staff location, a new lectern microphone will be provided for the speakers, a new wireless microphone will be used for special award presentations, and a new wireless lavalier microphone will be available as well. These microphones will be wired to a new 16 input digital audio dsp/mixer/amplifier combination that will provide the audio feeds for on-air broadcasts and our digital archiving systems.

The video mixing and editing equipment will be replaced as well. A new Crestron video mixer with a minimum of 8 inputs and multi-PIP capability will be installed to control 4 new Sony Pan-Tilt-Zoom cameras which provide the camera angles used in our broadcasts. There will also be a new Crestron Touchpanel control system which will provide touch capabilities to control camera angles, zoom, etc for the Sony cameras as their signals are fed into the video mixer.

Staff Recommendation

Technical Services recommends that the Monroe County Board of County Commissioners approve Proposal #MLAVIKWU1 by Audio Visual Innovations to upgrade video broadcast equipment for MCTV in the Key West MCTV Studio at the Harvey Government Center.

MONROE COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACT SUMMARY			
Contract with:	<u>Audio Visual Innovations</u>	Contract #	<u>MLAVIKWU1</u>
		Effective Date:	<u>12/19/07</u>
		Expiration Date:	<u>N/A</u>
Contract Purpose/Description: <u>Approval of Proposal #MLAVIKWU1 from Audio Visual Innovations to upgrade video and audio broadcast equipment in the Key West BOCC Chambers/MCTV Broadcast Studio at the Harvey Government Center.</u>			
Contract Manager:	<u>Lisa Druckemiller</u> (Name)	<u>5100</u> (Ext.)	<u>Technical Services/5B</u> (Department/Stop #)
for BOCC meeting on	<u>12/19/07</u>	Agenda Deadline:	<u>12/19/07</u>

CONTRACT COSTS			
Total Dollar Value of Contract: \$	<u>66,799.67</u>	Current Year Portion: \$	<u>66,799.67</u>
Budgeted? Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Account Codes:	<u>001-05002-530-410-</u>
Grant: \$	_____	-	-
County Match: \$	_____	-	-
		-	-
ADDITIONAL COSTS			
Estimated Ongoing Costs: \$	<u>0/yr</u>	For:	<u>MCTV equipment upgrade in KW</u>
(Not included in dollar value above)		(eg. maintenance, utilities, janitorial, salaries, etc.)	

CONTRACT REVIEW				
	Date In	Changes Needed	Reviewer	Date Out
Division Director	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<u>[Signature]</u>	<u>11/20/07</u>
Risk Management	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>	_____	_____
^{PJL} O.M.B./Purchasing	<u>11-26-07</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<u>[Signature]</u>	<u>11/26/07</u>
County Attorney	_____	Yes <input type="checkbox"/> No <input type="checkbox"/>	_____	_____
Comments:	<u>Sole Source Provision</u>			

PROPOSAL SUMMARY



Prepared for:
Monroe County Florida
Key West, FL 33040

Prepared By: Martin A. Lois
Date Prepared: November 2, 2007
Proposal #: MLAVIKWU1
Project Name: Key West Upgrade

TOTAL EQUIPMENT COST	\$45,231.43
includes cable, connectors, hardware, switches, relays, terminal blocks, panels, etc., to insure a complete and operational system.	
LABOR	\$20,568.24
Including all on-site installation and wiring, coordination and supervision, testing, checkout, Owner training, etc. performed on the Owner's premises. Also includes all fabrication, modification, assembly, rack wiring, programming, etc., some performed at AV contractor's premises. May include design drawings, run sheets, instruction manuals, programming, etc. if required.	
TRAVEL	\$0.00
Includes per diem, hotels, air fare, and other travel related expenses.	
GENERAL AND ADMINISTRATIVE	\$0.00
Including all G & A expenses: Clerical, bonds, shipping, insurance and warranties.	
SUBTOTAL	\$65,799.67
WARRANTY	Included
Ninety days parts and labor, exclusive from manufacturer warranties.	
TAXES	\$0.00
GRAND TOTAL	<u>\$65,799.67</u>
TERMS	PO REQUIRED

SCOPE OF WORK

Please reference (1) Desoto County School Board Bid #SBDC0708-3 Panasonic 30% Discount (2) Seminole County School Board Bid #103050 AVI Catalog 21% Discount - Samsung 21% Discount - Sharp 21% Discount - Renkus Heinz 15% Discount - Audio Technica 40% Discount - Biamp 32% Discount - Crown 40% Discount (3) GSA Contract # GS-03F-4082B Panasonic (4) Extron - Crestron - AVI GSA Contract #GS-03F-0037M -(5) Broward County School Board Bid #25-105R Extron 15% Discount - (8) Broward County School Board Bid #26-069N Vaddio 15% Discount - Shure 21% Discount - Clearone 24% Discount (9) Hernando County 01-480-09 Labor \$65.00/hour Programming \$85.00/hour Engineering \$85.00/hour

Not included: Structural, ceiling, millwork, or AC/heat modifications, HV electrical or conduit.

Proposal valid for 60 days. This Entire Document and all information enclosed including drawings, specifications and designs is the property of Audio Visual Innovations (AVI). Proprietary information provided to our client or his agents is for the sole purpose of demonstrating AVI's capabilities and shall be held in confidence. These Materials may not be copied, distributed or disclosed in any way without the sole written permission of an authorized representative of AVI.

Martin A. Lois
Sales Engineer

Customer Signature

Print

Date

Phone: (954) 938-9382

Fax: (954) 776-4772

EXTENDED WARRANTY SCHEDULE

For new equipment only



Prepared for:
Monroe County Florida
Key West, FL 33040

Prepared By: Martin A. Lois
Date Prepared: November 2, 2007
Proposal #: SC MLAVIKWU1
Project Name: Key West Upgrade

BASIC WARRANTY

Ninety days Parts and Labor plus manufacturer's warranties on individual items of equipment. Customer is responsible for performing service required to keep the manufacturer's warranty intact.

Included

1st YEAR WARRANTY & PREVENTATIVE MAINTENANCE

Full system warranty coverage

\$5,500.00

2nd YEAR PREVENTATIVE MAINTENANCE

Does not include warranty for malfunctioning equipment

\$7,150.00

By signing the appropriate space above, customer agrees to purchase the applicable extended warranty. Tax not included.

PREVENTATIVE MAINTENANCE PLAN

Clean and inspect all surfaces, electrical and signal connections, etc.	Yes
Clean, inspect and lubricate (as required) all VCRs, audio cassette player/recorders, dubbing machines, DVD players, CD players, DAT players and cameras.	Yes
Clean, inspect, lubricate, and perform any optical, mechanical and electrical alignments/adjustments required to optimize image quality from projection system. Complete a Projector Status Card for each projector.	Yes
Perform complete system checkout. Test every user function available to customer under remote or direct control. Select and re-select projector sources testing multiple resolutions with each source (as applicable).	Yes
Perform a system walk-thru with client representative. Demonstrate system cleanliness and performance.	Yes
Additional training session for the year	1
Loaner table top LCD projector (if applicable)	NO
Emergency visit at no charge	4
Telephone support	Unlimited
Preventative Maintenance Inspections (PMI) per year	2

Consumables such as lamps & filter replacement not included

Additional SERVICE PLANS available upon request

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EQUIPMENT LIST



Prepared for:
Monroe County Florida
 Key West, FL 33040

Prepared By: Martin A. Lois
 Date Prepared: November 2, 2007
 Proposal #: MLAVIKWU1
 Project Name: Key West Upgrade

ITEM NO.	QTY	MFG	MODEL	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
DISPLAY SYSTEM						
3	4	NEC	M40AVT	40" LCD Monitors with Tuners (2)	\$2,844.00	\$11,376.00
4	4	Chief	MCS6241	Ceiling Mount for LCD (2)	\$173.01	\$346.02
AUDIO SYSTEM						
34	2	Clearone	910155001	Audio DSP Processor (8)	\$1,633.24	\$3,266.48
36	10	Shure	MX418D/C	Push to Talk Microphone (8)	\$315.20	\$3,152.00
37	1	Shure	MX418SS	Gooseneck Lectern Microphone (8)	\$268.00	\$268.00
38	1	Shure	ULXS2458M1	Wireless Handheld Microphone (8)	\$787.50	\$787.50
39	1	Shure	ULXS1484M1	Wireless Lavalier Microphone (8)	\$786.44	\$786.44
40	1	Shure	UA507	Rack Mount Kit (8)	\$24.54	\$24.54
41	1	Biamp	MXA150	Power Amplifier (2)	\$583.44	\$583.44
42	1	QSC	CX108V	Multi Channel Amplifier (2)	\$1,390.40	\$1,390.40
44	8	JBL	Control23CT	Fold Back Speakers (2)	\$97.17	\$777.36
45	8	JBL	Control26CT	Ceiling Mounted Speaker (2)	\$116.00	\$928.00
CONTROL SYSTEM						
49	1	Crestron	PRO2	Central Controller (4)	\$2,083.50	\$2,083.50
50	2	Crestron	C2COM3	RS232 Input Module (4)	\$405.12	\$810.24
51	1	Crestron	CNTBLOCK	Network Block (4)	\$98.38	\$98.38
52	1	Crestron	PW2420RU	Power Supply (4)	\$155.68	\$155.68
53	4	Crestron	IRP2	IR Emitter (4)	\$28.93	\$115.72
54	1	Crestron	TPS12B	12" Rack Mount Touchpanel (4)	\$3,935.50	\$3,935.50
55	1	Crestron	TPS2000L	Mini Touchpanel (4)	\$1,099.62	\$1,099.62
56	1	Crestron	TPMC8X	Wireless WiFi Panel (4)	\$2,199.25	\$2,199.25
57	1	Crestron	TPMC8XDS	Docking Station (4)	\$289.37	\$289.37
58	1	Crestron	C2ENET1	Ethernet Card (4)	\$520.87	\$520.87
59	2	AVI	CUSTOM	WiFi Access Point	\$157.14	\$314.28
BROADCAST CAMERA SYSTEM						
63	4	Sony	SNC-RZ50N	Pan Tilt Zoom Camera (2)	\$1,817.00	\$7,268.00
64	4	Vaddio	535-2000-213	Mounts	\$38.71	\$154.84
	LOT	AVI	Custom	Miscellaneous Materials	\$2,500.00	\$2,500.00
TOTAL EQUIPMENT & MATERIALS						\$45,231.43

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