

# BROADCAST COMMITTEE AGENDA

January 22, 2020

IMMEDIATELY FOLLOWING THE FINANCE COMMITTEE MEETING

304 E. Grand River, Conference Room 4, Howell, MI 48843

Members:

Gary Childs, Wes Nakagiri, Douglas Helzerman

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## **BROADCAST COMMITTEE**

### **MEETING MINUTES**

January 13, 2020, 6:30 p.m.  
304 E. Grand River, Conference Room 4, Howell, MI 48843

Members Present: Gary Childs, Wes Nakagiri, Douglas Helzerman

#### **1. CALL TO ORDER**

Commissioner Childs called the meeting to order at 6:30 p.m.

#### **2. APPROVAL OF MINUTES**

Minutes Dated: August 26, 2019

**Moved by:** W. Nakagiri

**Seconded by:** D. Helzerman

Yes: (3): G. Childs, W. Nakagiri, and D. Helzerman

**Motion Carried (3 to 0)**

#### **3. APPROVAL OF AGENDA**

Motion to approve the agenda as amended to move Item 6.1: Board Chambers Broadcasting System to be Item 6.2, and Item 6.2 Board Chambers AV Upgrades to be item 6.1.

**Moved by:** D. Helzerman

**Seconded by:** W. Nakagiri

Yes: (3): G. Childs, W. Nakagiri, and D. Helzerman

**Motion Carried (3 to 0)**

#### **4. CALL TO THE PUBLIC**

None.

#### **5. REPORTS**

#### **6. DISCUSSION**

##### **6.1 Board Chambers AV Upgrades**

Third Coast Tech, LLC. Proposal dated 12-19-2019

Dianne Gregor reviewed upgrades

- This quote is to replace items that are already in place in Board Chambers.
- projector and screen will be removed and replaced with a 98" wall mounted screen facing toward the audience, Diane explained that a larger screen was better visually than additional monitors.
- Commissioner Childs recommended changing the screen to an 86" screen.
- Speakers are included in the upgrade proposal; microphones are included in the broadcast system proposal. Microphones would work with the speakers if installed.

- Commissioner Helzerman explained his concerns with the current audio issues in Board Chambers.
- Commissioner Nakagiri referred to the budget for 2020. Cindy answered that the equipment is in the budget, broadcasting was not budgeted. The budget was for upgrades including monitors, and microphones.
- Diane explained that this equipment in the upgrade proposal would be phase 1 for moving toward recording/broadcasting.

## **6.2 Board Chambers Broadcast System**

Third Coast Tech, LLC Proposal dated 12-19-2019

This proposal would allow for recording and publishing content to our website. If a live broadcast was desired, this equipment could be used for that purpose.

- Discussed options and logistics of using equipment
- Discussed lapel mic, committee agreed that this item is not needed and to remove it.
- Diane explained the 2nd camera was to ensure a presentation was available in a recording.
- Members discussed doing everything but camera and camera mounts, possibly add the cameras in 2021.
- Commissioner Helzerman would like to prepare for cameras, but hold off on that purchase until there is personnel authorized to manage recording.
- Commissioner Nakagiri stated the mission of this committee was to record and broadcast, he will be disappointed if they are not able to do so by the end of 2020.
- Discussed possible option of recording with voice only and personnel to manage equipment
- Committee asked if the quote for set-up would include training, Diane will request this to be included on the new quote.

Commissioner Childs requested Diane Gregor to obtain a combined quote for upgrades and the broadcast system; remove the lapel mic; 2nd camera, replace the screen with a smaller screen; change from 9 to 5 microphones for the commissioners, all to be included in one total. Then, this Committee would review and determine a recommendation to the Board of Commissioners.

Commissioner Childs also requested that items that are not necessary for the project are indicated on the revised quote, include an option to only provide the recording, and if our staff can complete installation.

Committee members agreed to schedule the next meeting for January 22, 2019 immediately following the Finance Committee meeting.

## **7. CALL TO THE PUBLIC**

None.

## **8. ADJOURNMENT**

Motion to adjourn the meeting at 7:28 p.m.

**Moved by:** D. Helzerman

**Seconded by:** W. Nakagiri

Yes: (3): G. Childs, W. Nakagiri, and D. Helzerman

**Motion Carried (3 to 0)**

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Natalie Hunt, Recording Secretary

UNAPPROVED

## Broadcast Video Recording System & AV Upgrades combined

### Livingston County

304 E. Grand River  
Howell, MI 48843 United States  
586-601-4698



**Presented By:**



**Third Coast Tech, LLC.**  
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Waterford, Michigan 48328  
800-828-9517  
[www.thirdcoasttech.com](http://www.thirdcoasttech.com)

Modified: 1/16/2020  
Revision: 1

## Video Recording System

*New system will feature:*

- \* Single 12x Camera
- \* Video Recording system
- \* System control from Touch panel
- \* 1 year parts and labor warranty

1	<b>EIPHAN</b> Record, stream and switch up to three full HD video inputs from HDMI™, SDI, and USB sources. Epiphan Pearl Mini™ takes your video production to the next level.	\$3,271.32
1	<b>PTZOptics</b> The PTZOptics ZCAM-12X is a 1080p box camera with 12X optical zoom for capturing HD video even at a distance. With support for 3G-SDI & IP streaming, this camera is ideal for broadcasting high definition video signals for broadcast or video conferencing applications up to 1080p/60 resolution.	\$699.00
1	<b>TCT</b> 8-Port Gigabit Ethernet PoE Switch/4-Port PoE/802.3at/af, 60W PoE	\$171.18
1	<b>TCT</b> Quoted at \$49/Hour as per G2G contract	\$784.00
1	<b>TCT</b> Cabling & Hardware	\$449.98
1	<b>TCT</b> Quoted at \$95/Hour as per G2G Contract	\$1,520.00

<b>Video Recording System</b>	<b>Equipment Total:</b>	<b>\$4,591.48</b>
	<b>Labor Total:</b>	<b>\$2,304.00</b>
	<b>Total:</b>	<b>\$6,895.48</b>

\* Price Includes Accessories

Presented By: Third Coast Tech, LLC.

1/16/2020

Project Name: Broadcast Video Recording System & AV  
Upgrades combined

Project No.: TCT-0489

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## AV Upgrades

### System Features:

- \* New 86 inch LCD Display
- \* Video Distribution System
- \* Video Input Adapter ring
- \* Wireless presentation Gateway with two dongles
- \* New Line Array Speakers and amplifier
- \* 6 Gooseneck Microphones
- \* 2 Wireless Gooseneck Microphones
- \* Digital Sound Processor
- \* Control system with 7 inch touch panel controller
- \* 1 Year Warranty

6	<p><b>Audio Technica</b></p> <p>Quick-mount plug-in desk stand with user-programmable control switch (touch on/off, touch to talk, touch to mute) and LED micstatus indicator. 3-pin XLR-type in, 3-pin XLRM-type out.</p>	\$811.20
1	<p><b>Audio Technica</b></p> <p>The System 10 PRO Rack-Mount Digital Wireless System from Audio-Technica includes an receiver chassis with rack-mount adapters, two receiver units with corresponding receiver unit mounting brackets, a joining plate, one cable, one AC adapter, and two Wireless transmitter basis</p>	\$1,136.20
8	<p><b>Audio Technica</b></p> <p>Ideal for conference centers, boardrooms, courtrooms, houses of worship, and other installed applications, the U857Q is designed to plug directly into a panel- or desk-mounted XLR-type connector. This cardioid condenser quick-mount gooseneck microphone offers unsurpassed immunity from radio frequency interference thanks to Audio-Technicas UniGuard innovations. The 14.47 long microphone features an ultra-flexible small-diameter gooseneck and accepts interchangeable elements, available in cardioid, hypercardioid, omnidirectional and UniLine line cardioid polar patterns. Equipped with self-contained electronics, the phantom-powered microphone also offers an 80 Hz low-cut UniSteep filter that reduces pickup of low-frequency ambient noise.</p>	\$1,716.00
1	<p><b>Biamp</b></p> <p>The TesiraFORT DAN VT is a digital audio server with 12 analog inputs and 8 analog outputs, and includes Acoustic Echo Cancellation (AEC) technology on all 12 inputs. It includes up to 8 channels of configurable USB audio, a 2-channel VoIP interface, a standard FXO telephone interface, and Dante digital audio networking.</p>	\$2,728.70

\* Price Includes Accessories

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1	<p><b>Crestron</b> 4x2 4K HDMI® Switcher</p>	\$562.50
1	<p><b>Crestron</b> The HD-RX-101-C-E is a surface-mountable DM Lite receiver designed to pair with a DM Lite transmitter to form a point-to-point signal extender for HDMI signals. The DM Lite family of products offers a very simple and versatile solution for extending HD, UHD, 2K, and 4K video signals, with stereo or surround sound audio, over a single CAT5e (or better) cable. A cable length of up to 230 ft (70 m) is supported for HD 1080p, WUXGA, and 2K signals, or up to 130 ft (40 m) for UHD and 4K</p>	\$247.50
1	<p><b>Crestron</b> The HD-TX-101-C-E is a surface-mountable DM Lite transmitter designed to pair with a DM Lite receiver to form a point-to-point signal extender for HDMI signals. The DM Lite family of products offers a very simple and versatile solution for extending HD, UHD, 2K, and 4K video signals, with stereo or surround sound audio, over a single CAT5e (or better) cable. A cable length of up to 230 ft (70 m) is supported for HD 1080p, WUXGA, and 2K signals, or up to 130 ft (40 m) for UHD and 4K.</p>	\$247.50
1	<p><b>Crestron</b> The Crestron RMC3 is a compact and cost-effective 3-Series Control System designed to provide control and monitoring for a single display device, a small AV system, lighting and shading, climate control, security, energy management, and many other specialized applications. Its tiny form factor allows it to be placed just about anywhere with the option to attach it to a flat surface or DIN rail using the mounting bracket provided. It can fit easily behind a video display or above a projector, and provides enough control ports to control the display device along with a screen or lift. Cresnet and Ethernet connectivity provides full support for the full line of Crestron touch screens, keypads, dimmers, shades, thermostats, and other peripherals. Featuring the 3-Series control engine, the RMC3 provides a robust, feature-packed controller that's ideal for mass deployment across college campuses, corporate office buildings, museums, MDUs, hotels, and convention centers.</p>	\$700.00
1	<p><b>Crestron</b> A Crestron touch screen offers an ideal user-interface for controlling all the technology in your home, boardroom, classroom, courtroom, or command center. Touch screens do away with piles of remote controls, cluttered wall switches, and cryptic computer screens, simplifying and enhancing the way you use technology. For controlling audio, video, lighting, shades, HVAC, security, and other systems, Crestron touch screens are fully-customizable with easy-to-use controls and icons, true feedback and real-time status display, live streaming video, voice recognition, web browsing, and advanced navigation of digital media servers, tuners, and other devices.</p>	\$910.00

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1	<p><b>Crestron</b> Tabletop Kit for TSW-760, Black Smooth</p>	\$130.00
1	<p><b>Crown</b> Cdi Series Professional Amplifier</p>	\$710.00
2	<p><b>Jbl Pro</b> 50 cm Straight Line Array Column with 8 x 2" Drivers and Constant Beamwidth Technology, 20° vertical coverage, music (flat)/speech switch, 60W multi-tap transformer or 8 ohms, 80 Hz – 20 kHz, 150W cont pink (600W peak), wall bracket included. (priced and sold individually)</p>	\$818.10
1	<p><b>Liberty AV</b> This Item Includes: 1 Base security clamp, cable and hardware for DL-AR system (DL-CL) 1 4K DisplayPort to HDMI Cable Adapter (AR-DP4K-HDF) 1 4K Mini DisplayPort to HDMI Cable Adapter (AR-MDP4K-HDF) 1 Adapter Cable USB "C" male to HDMI female 9 inches long (AR-UCM-HDF)</p>	\$127.36
1	<p><b>Panasonic</b> 86" 4K Ultra high definition Commercial LCD display</p>	\$4,048.96
1	<p><b>RDL</b> The part of the group of versatile TX series products from Radio Design Labs. The TX series feature the advanced circuitry for which RDL products are known, combined with durable, quality connectors. The ultra-compact TX series can be mounted in limited space using the adhesive methods popularized by RDL's STICK-ON Series. The TX-J2 may be mounted directly to a backboard or chassis using a variety of mounting options available from Radio Design Labs</p>	\$68.40
1	<p><b>TCT</b> 8-Port Gigabit Ethernet PoE Switch/4-Port PoE/802.3at/af, 60W PoE</p>	\$171.18
1	<p><b>TCT</b> Quoted at \$49/Hour as per G2G service contract</p>	\$5,292.00
1	<p><b>TCT</b> Cabling &amp; connectors</p>	\$749.96

\* Price Includes Accessories

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# Third Coast Tech, LLC.

1	<b>TCT</b> Quoted at \$95/Hour as per G2G Contract	\$1,520.00
1	<b>Vivitek</b> Professional presentation collaboration system USB Dongle (2-Pak)	\$362.70
1	<b>Vivitek</b> NovoPRO supports true screen mirroring from iOS and Android devices. It features screen preview/moderator control, 4-to-1 projection, video streaming, instant response system (IRS), file sharing, and access to cloud-based resources. Built-in, whiteboard-interactive features encourage meeting or classroom participation, and all Novo's can be managed remotely over the network. The built-in Ethernet port allows for dual-network connection to accommodate Corporate/Guest or Student/Faculty networks. The NovoPRO can also be optionally equipped with the Launcher; a USB-connected device with software preloaded that, with the insertion and click of the Launcher, displays the computer screen. A true plug-n-play-to-display solution.	\$604.50

	<b>AV Upgrades</b>	<b>Equipment Total:</b>	<b>\$16,850.76</b>
		<b>Labor Total:</b>	<b>\$6,812.00</b>
		<b>Total:</b>	<b>\$23,662.76</b>
	<b>Project Equipment Subtotal:</b>		<b>\$21,442.24</b>
	<b>Project Labor Subtotal:</b>		<b>\$9,116.00</b>
	<b>Project Subtotal:</b>		<b>\$30,558.24</b>

\* Price Includes Accessories

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1/16/2020

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**Project Summary**

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<b>Equipment:</b>	<b>\$21,442.24</b>
<b>Labor:</b>	<b>\$9,116.00</b>
<b>Grand Total:</b>	<b>\$30,558.24</b>

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**Client:**      **Cindy Catanach**

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**Date**

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**Contractor:**    **Third Coast Tech, LLC.**

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**Date**

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\* Price Includes Accessories

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