



# CHANGE ORDER

## Fort Bend County

Medical Examiners Training Room TIPS Contract #200904

### DATE

Wednesday, November 29, 2023

### PREPARED BY

Victoria Ferrari  
Design Consultant



# Change Order

## Client Requested Changes

**Proposal Number:** J23180125

**CO Number:** ECO-02

**Proposal Date:** 11/29/2023

**Prepared for:** Fort Bend County

**Attn:** Lee Powell

**Phone:** (346) 481-6155

**Email:** lee.powell@fortbendcountytx.gov

**Prepared by:** Victoria Ferrari

**Phone:** 832-787-2421

**Email:** Victoria.Ferrari@cti.com

# Scope of Work

## Description of Change

As per a site visit conducted on Friday, November 17, 2023, the following change order has been assembled based upon the needs of the Fort Bend County Medical Examiner's office staff and representatives present at the time. Between the time the original system, specified by the client and the walkthrough, the client's needs have changed and additions to the functionality were requested.

These additions to the functionality are the following:

- The ability to broadcast a live stream directly from the room.
- The ability to record training sessions for later post-production and creation of video content
- The addition of three (3) wireless handheld/lavalier combo microphone systems for a total of four (4) for panel type discussions.
- The ability to send the same OR separate content to either of the two flat panel displays.
- The addition of an equipment rack in the storage room located at the front left side of the training room.
- The addition of a wall-mounted iPad docking station at the front right side of the room for the control system user interface (a client provided iPad, 10th Generation).
- The addition of eight (8) line-level audio feeds from the audio system for press connectivity.
- Changing the originally specified 4" ceiling speakers to larger 6" speakers for better audio quality.
- The addition of two (2) wall-mounted speakers in the front of the room.



In order to facilitate the requested changes and additional functionality to the system, the following components in the original proposal will be eliminated and credited back to the project:

- One (1) QSC NV-32H, network endpoint and associated power supply
- One (1) 8-Port network switch
- One (1) 2-Channel audio amplifier
- Eight (8) 4" ceiling speakers
- One (1) Crestron VC-4-ROOM virtual Control System Server License
- One (1) Apple iPad 10th generation (to be provided by the client)
- One (1) FSR HDMI wallplate
- One (1) QSC NX12X80 PTZ Camera

The following components shall be added to the remaining components originally specified:

- Two (2) HDMI over IP encoders
- Three (3) HDMI over IP decoders (same model as the encoders)
- One (1) video recorder/streaming appliance
- Eight (8) 6" ceiling speakers
- Two (2) 6" surface mounted speakers
- One (1) 4-channel audio amplifier
- Three (3) additional wireless microphones consisting of a rack mounted receiver, handheld microphone transmitter, bodypack transmitter, and a lavalier microphone. (These are listed as individual components, as the package system has a much longer lead-time, however the price remains the same.)
- One (1) active antenna combiner for the above listed systems.
- One (1) 1x8 audio distribution amplifier for the press audio feeds.
- One (1) rack-mounted control system processor
- One (1) 21RU equipment rack with the appropriate power conditioner, equipment rack mounting shelves, and a 3RU storage drawer for storage of the wireless microphones when not in use.
- One (1) Custom wallplate with the 8 line-level press feeds
- One (1) custom wallplate for the podium microphone and HDMI hardwired input.
- Two (2) wallplates for the microphone antenna extensions.
- One (1) NC-110 Fixed Camera

This change order represents all the needs and additions requested by the client, along with the programming required.



## Totals

Description	Price
Equipment Total	\$16,337.90
Implementation Services Total	\$16,203.76
Freight	\$285.88
Subtotal	\$32,827.54
Tax	\$0.00
<b>Total</b>	<b>\$32,827.54</b>



# Bill of Materials

## Added Items

Description	Qty	Unit Price	Ext. Price
Video Systems Equipment: <b>\$12,169.67</b>			
HD Pro P/50 - 50' (15.2 m)	1	\$323.53	\$323.53
Pearl Nano	1	\$1,881.41	\$1,881.41
VIDEO,NC-110,CN	1	\$1,023.53	\$1,023.53
ACCESSORY,,POWER SUPPLY, NV-21-HU, NA	5	\$200.00	\$1,000.00
VIDEO,NV-21-HU,SMB	5	\$1,588.24	\$7,941.20
Audio Systems Equipment: <b>\$9,095.12</b>			
Rack adapter for RACK-UP series	1	\$67.98	\$67.98
Audio Distribution Amplifier - Balanced/Unbalanced - 2x4, 1x8	1	\$314.02	\$314.02
Five-way active antenna splitter and power distribution system for QLX-DÂ®, ULXÂ®, ULX-DÂ®, SLXÂ®, and BLXÂ® (BLX4R only) receivers. (470-952 MHz)	1	\$480.59	\$480.59
24 Vdc Switching Power Supply, North American AC Plug, 500 mA, dc Plug	1	\$28.26	\$28.26
Cardioid-18" Desktop Gooseneck Condenser Microphone, Attached 10' XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	1	\$267.12	\$267.12
LOUDSPEAKER,AC-C6T,6" CEILING,W/XFMR & BACKCAN	8	\$110.82	\$886.56
AMPLIFIER,SPA-QF60X4-NA,100-240V,4CH,60W	1	\$1,176.47	\$1,176.47
Handheld Transmitter with SM58Â® Microphone	4	\$378.88	\$1,515.52
LOUDSPEAKER,AC-S6T-WH,6",SURFACE MOUNT	2	\$122.82	\$245.64
Half-Rack, Single Channel Receiver	4	\$608.00	\$2,432.00



Bodypack Transmitter	4	\$319.65	\$1,278.60
Microflex Cardioid Lavalier Microphone	4	\$100.59	\$402.36
<b>Control Systems Equipment: \$4,208.29</b>			
Wall Mount MX for iPad 10th Generation - Black Grey - H755-BG	1	\$175.29	\$175.29
Ethernet and PoE+ Power USB-C Adapter for MX Wall Mount	1	\$0.00	\$0.00
M4250 26G4F POE PLUS PLUS MN S	1	\$2,221.24	\$2,221.24
4-Series Control System	1	\$1,811.76	\$1,811.76
<b>Rack Accessories and Furniture: \$1,112.55</b>			
15A Power Conditioner and Distribution Unit with IEC Power Cord	1	\$107.44	\$107.44
Vented All-Purpose Rack Shelf 1RU	2	\$33.35	\$66.70
25 inch Deep, 21RU Mobile Equipment Rack Includes: Casters, Side Handles, and Solid Doors	1	\$776.05	\$776.05
Storage Drawer - Recessed 3RU w/ 14 inch Extension	1	\$162.36	\$162.36
<b>Installation Materials: \$329.18</b>			
Custom Wallplate for Podium HDMI and Microphone Inputs	1	\$69.33	\$69.33
Custom Wallplate for Eight Press Audio Feeds	1	\$182.73	\$182.73
Wallplate for Wireless Microphone Antenna	2	\$38.56	\$77.12

**Total Equipment Adds:** \$26,914.81

## Canceled/Returned Items

Description	Qty	Unit Price	Ext. Price
<b>Video Systems Equipment: (\$7,441.25)</b>			



12x Optical Zoom 80° Horizontal Field of View, PTZ Network Camera, PoE, with HDMI and SDI output. Includes PTZ-WMB1 wall mount bracket	-1	\$3,264.71	(\$3,264.71)
4K60 4:4:4 Network Video Endpoint for the Q-SYS Ecosystem, software configurable as Encoder or Decoder. 3 HDMI 2.0 Inputs, 2 HDMI 2.0 Outputs, on-board AV Bridging. Supports optional stand-alone "Q-SYS Core Mode" operation for audio DSP with local video switching and AV Bridging	-1	\$2,941.18	(\$2,941.18)
PoE+ 8x1G PoE+ 125W 2x1G and 2xSFP Managed Switch (GSM4212P)	-1	\$738.89	(\$738.89)
Systems 1/2 RU 2 Channel ENERGY STAR amplifier/ Stereo Operation 60 watts into 8ohm & 4ohm, Bridged operation 200 watts into 8ohm & 4ohm, and 250 watts into 70V and 100V/100-240 VAC Operation	-1	\$496.47	(\$496.47)
<b>Audio Systems Equipment: (\$2,035.99)</b>			
4" Ceiling Mounted Loudspeaker, 70/100 with 8ohm bypass, includes Mounting Hardware. Sold individually, ships in pairs.	-8	\$82.94	(\$663.52)
Bodypack and Vocal Combo System with WL185 and SM58®	-1	\$1,372.47	(\$1,372.47)
<b>Control Systems Equipment: (\$1,066.02)</b>			
Crestron Virtual Control Server Software - Single-Room License	-1	\$588.24	(\$588.24)
IPAD 10th Gen	-1	\$477.78	(\$477.78)
Cloud 9, MX1616-AUHD-GEN2, CX84, MX-88HDBT, AXION-8	-1	\$0.00	\$0.00
<b>Installation Materials: (\$33.65)</b>			
White HDMI Wall Plate	-1	\$33.65	(\$33.65)

**Total Credits:** (\$10,576.91)



# Change Order Acceptance

## Notice of Acceptance

I hereby agree to the listed changes to the original scope of work. Original contract terms and conditions remain in effect. Shipping and handling fee are estimated and will be billed as an actual charge. State and local taxes will be incurred as applicable.

Please return this signed and dated acceptance to Victoria Ferrari for change order work to commence. Form can be emailed to [Victoria.Ferrari@cti.com](mailto:Victoria.Ferrari@cti.com) or faxed to (855) 329-2844. Thank you.

### Bill to

Fort Bend County  
301 Jackson Street  
Richmond, 77469

### Ship to

Fort Bend County  
301 Jackson Street  
Richmond, 77469

Total
J23180125 – \$32,827.54

## Agreed and Accepted by:

\_\_\_\_\_  
Customer Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
CTI Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date