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Project Estimate

Date Prepared 5/12/2017

*Estimate is Valid for 30 Days from the above date

Prepared for: Montague Town Hall

1 Avenue A

Turner Falls, MA 01376 Contact Email deancgarvin@gmail.com

Project Location: Town Hall

	Meeting Room Camera and Audio Upgrades - Phase 1					
	Scope of work:					
Project Description:	1. Install locking wall rack in room and install conduit from ceiling to rack – Pull all new AV equipment wiring to this rack					
	2. Pull new SDI and Cat6 wire to 6 possible camera locations (current and future)					
	3. Install 4 new HD-PTZ Cameras on walls and locations TBD					
	4. Pull wire to 8 microphone locations for microphones					
	5. Install PTZ camera controller for control of 4 new cameras and future possible cameras – Program to new cameras with pres					
	6. Test and tune audio and video					
	7. Provide 1 day of training with staff on system and 1 come back for additional training as needed					
	Notes					
	1. All wiring will be professionally ran in conduit or above ceiling – no wire will be exposed					
	2. Call cameras will be wired back to rack and switcher for control and signal					
	3. System will allow for future upgrades or Phase 2 upgrades					

Time Frame TBD

*Time Frame refers to the full cycle from project approval to completion

Materials

				Manufacturer Warranty (if
Description	Quantity	Price	Total	applicable)
Base Equipment				
Middle Atlantic DWR-16-22 – Locking wall rack for equipment	1	\$689.00	\$689.00	
Middle Atlantic LVFD-16 – Locking Vented Door for Rack	1	\$275.00	\$275.00	
Power Strip for Rack - Vertical, surge protected	1	\$150.00	\$150.00	
Conduit from rack to ceiling	1	\$50.00	\$50.00	
SDI Cabling	1	\$500.00	\$500.00	
Cat6 Cabling	1	\$250.00	\$250.00	
Audio 9451 Cabling	1	\$250.00	\$250.00	
Rack Shelves, blanks and assorted install hardware (wireties, screws, labels, etc)	1	\$50.00	\$50.00	
Custom Interface Panel	1	\$250.00	\$250.00	
Connects the Data-Video Switcher to the rack with custom cabling in tech-flex wra	in hetween nar	al and switcher		

Connects the Data-Video Switcher to the rack with custom cabling in tech-flex wrap between panel and switcher

Panel will have:

- 6 SDI Connectors for Cameras
- 2 HDMI Connectors
- 2 Audio Connectors
- Ethernet and Spare Lan
- 2 Spare SDI Connectors for PGM

		Subtotal	\$2,464.00
Cameras			
PTZ Optics 12x SDI Cameras Gen 2 in Grey	4	\$1,799.00	\$7,196.00
PTZ Optics Wall Mounts	4	\$109.00	\$436.00



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PTZ Optics Joystick IP to control Cameras and Presets (controls up to 8 cameras)			\$799.00	\$799.00	
Netgear 24 Port POE Plus POE and IP Switch to Power and Control Cameras			\$450.00	\$450.00	
(powers camera over POE and control signal over POE			Subtotal	\$8,881.00	
Audio and Microphone Upgra	des				
Shure MXA910 Ceiling microphone for tables and members speaking			\$4,000.00	\$4,000.00	
Shure MX310 ceiling micropho	Shure MX310 ceiling microphone over audience to pick up public speaking			\$999.00	
RDL Ethernet to Audio adaptor	RDL Ethernet to Audio adaptor for breaking out microphone audio to recording			\$250.00	
Cat6 wire - 1000ft blue	•	1	\$225.00	\$225.00	
			Subtotal	\$5,474.00	
Total Material Cost				\$16,819.00	
Installation					
Number of Days	4				
Number of Technicians	2 (junior/senior)				
Total Installation Cost				\$4,448.00	
Tuning, testing, and training					
Number of Days	1				
Number of Technicians	1.5 (1/2 day to return at later date)				
Total Cost				\$1,068.00	
Project Subtotal				\$22,335.00	
CT Sales Tax (if Applicable)				\$0.00	
Project Total				\$22,335.00	