

PROJECT ID: Fredrick Police Headquarters  
 ADDRESS:  
 SCOPE: Communication & Electronic Safety & Security



CONTACT:  
 E-MAIL ADDRESS:  
 PHONE NUMBER:  
 Date:

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	WSTG	QUANTITY W/ WASTAGE	UNIT COST (Material)	UNIT COST (Labor)	TOTAL COST (Labor + Material)	TRADE COST
<b>GENERAL REQUIREMENTS</b>										
1		Supervision	1	LS	0%	1	\$ -	\$ -	\$ -	
2		Permits	1	LS	0%	1	\$ -	\$ -	\$ -	
3		Final Clean-up	1	LS	0%	1	\$ -	\$ -	\$ -	
4		Mobilization Costs	1	LS	0%	1	\$ -	\$ -	\$ -	
5		Bonds	1	LS	0%	1	\$ -	\$ -	\$ -	
6		Temporary Control & Facilities	1	LS	0%	1	\$ -	\$ -	\$ -	
7		Mobile Scaffolding/ Lift	1	SF	0%	1	\$ -	\$ -	\$ -	
		<b>Subtotal (General Requirements)</b>								<b>\$0</b>
<b>Division 27 -COMMUNICATION</b>										
<b>FIXTURES</b>										
<b>COMMUNICATION FIXTURES</b>										
8		Data Outlet	13	EA	0%	13	\$ 200.00	\$ 100.00	\$ 3,900	
9		2 RJ45 Data Outlet W/ Single Gang Series 2 Face Plate	168	EA	0%	168	\$ 220.00	\$ 100.00	\$ 53,760	
10		4 RJ45 Data Outlet W/ Single Gang Series 2 Face Plate	124	EA	0%	124	\$ 220.00	\$ 100.00	\$ 39,680	
11		6 Data Outlet W/ Single Gang Face Plate -4 RJ45 Data Outlet -2 RJ45 VOIP Voice	9	EA	0%	9	\$ 250.00	\$ 100.00	\$ 3,150	
12		Data Outlet For AV Network 2V	3	EA	0%	3	\$ 200.00	\$ 100.00	\$ 900	
13		Ceiling Mounted Data Outlet WAP	79	EA	0%	79	\$ 200.00	\$ 100.00	\$ 23,700	
14		Data Outlet For AV Network Ceiling Mounted 2V	6	EA	0%	6	\$ 200.00	\$ 100.00	\$ 1,800	
15		Wireless Data Outlet W	2	EA	0%	2	\$ 200.00	\$ 100.00	\$ 600	
16		Data Outlet For AV Network 4V	61	EA	0%	61	\$ 200.00	\$ 100.00	\$ 18,300	
17		Data Outlet For AV Network Ceiling Mounted 4V	1	EA	0%	1	\$ 200.00	\$ 100.00	\$ 300	
18		Video Outlet V	4	EA	0%	4	\$ 200.00	\$ 100.00	\$ 1,200	
19		Elevator Lobby Intercom IP Station ICE Manufacture/Model: RATH 2100-958NSIP	3	EA	0%	3	\$ 450.00	\$ 150.00	\$ 1,800	
20		Floor Box W/ 2 Data Outlet	7	EA	0%	7	\$ 250.00	\$ 100.00	\$ 2,450	
21		Floor Box W/ 4 Data Outlet	4	EA	0%	4	\$ 300.00	\$ 150.00	\$ 1,800	
22		Floor Box W/ 6 Data Outlet	6	EA	0%	6	\$ 300.00	\$ 150.00	\$ 2,700	
23		Digital 4" IP Clock-Mount 96" C	3	EA	0%	3	\$ 180.00	\$ 100.00	\$ 840	
24		18" x18" Pull Box	2	EA	0%	2	\$ 150.00	\$ 100.00	\$ 500	
<b>AUDIO VISUAL FIXTURES</b>										
25		75" Audiovisual Display 'D1' Manufacturer: Samsung Model: UN75CU7000	10	EA	0%	10	\$ 550.00	\$ 200.00	\$ 7,500	
26		55" Audiovisual Display 'D1' Manufacturer: Samsung Model: UN55CU7000	36	EA	0%	36	\$ 500.00	\$ 200.00	\$ 25,200	
27		Network Video Encoder Manufacturer: Aurora Multimedia Model: VPX-TC-LT	37	EA	0%	37	\$ 300.00	\$ 150.00	\$ 16,650	
28		Network Video Decoder Manufacturer: Aurora Multimedia Model: VPX-TC1-LT	43	EA	0%	43	\$ 300.00	\$ 150.00	\$ 19,350	
29		IR Receiver For Remote Control; Use With Aurora Multimedia Electronic Programming Guide For Channel Mapping And On-Screen Channel Guide; Control Processor Captured In "Shared Equipment" Manufacturer: Aurora Multimedia Model: CA0062-1	27	EA	0%	27	\$ 350.00	\$ 150.00	\$ 13,500	
30		IR Remote Control Manufacturer: Aurora Multimedia Model: IRC-17	12	EA	0%	12	\$ 400.00	\$ 200.00	\$ 7,200	
31		HDMI Receiver Manufacturer: Extron Model: DRP2 T 211 (60-1631-63)	1	EA	0%	1	\$ 300.00	\$ 150.00	\$ 450	
32		HDMI Transmitter; Wall Plate Version Manufacturer: Extron Model: DRP2 T 201 D (60-1741-53)	1	EA	0%	1	\$ 300.00	\$ 150.00	\$ 450	
33		AV Box 'D2' Size: 5"x5"x2.875" Box With Two Gang Reducer Ring	4	EA	0%	4	\$ 300.00	\$ 150.00	\$ 1,800	
34		Dante License For VPX-TC1-LT Manufacturer: Aurora Multimedia Model: LCN-DTE-2	5	EA	0%	5	\$ 300.00	\$ 150.00	\$ 2,250	
35		Audio Amplifier; 2-CH; 100W/CH Manufacturer: Extron Model: Netpa U 1002-70V	3	EA	0%	3	\$ 300.00	\$ 150.00	\$ 1,350	
36		Audio Processor Manufacturer: Extron Model: DMP 64 PLUS C AT (60-1823-10)	5	EA	0%	5	\$ 350.00	\$ 150.00	\$ 2,500	
37		HDMI Receiver Manufacturer: Extron Model: DTP HDMI 4K 230 RX	5	EA	0%	5	\$ 300.00	\$ 150.00	\$ 2,250	
38		HDMI Transmitter Manufacturer: Extron Model: DTP HDMI 4K 230 TX	3	EA	0%	3	\$ 250.00	\$ 100.00	\$ 1,050	
39		Camera Bar Manufacturer: Neat Model: Bar Pro	3	EA	0%	3	\$ 250.00	\$ 100.00	\$ 1,050	

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40		HDMI Transmitter; Wall Plate Version Manufacturer: <b>Extron</b> Model: <b>60-1421-13</b>	2	EA	0%	2	\$ 250.00	\$ 100.00	\$ 700	
41		Audio Amplifier Manufacturer: <b>Extron</b> Model: <b>MPA 601-70V (60-1449-01)</b>	2	EA	0%	2	\$ 300.00	\$ 150.00	\$ 900	
42		Ceiling Array Microphone Manufacturer: <b>Shure</b> Model: <b>MXA920</b>	4	EA	0%	4	\$ 250.00	\$ 100.00	\$ 1,400	
43		HDMI-To-USB Manufacturer: <b>Mafewell</b> Model: <b>32090</b>	1	EA	0%	1	\$ 350.00	\$ 150.00	\$ 500	
44		Date License For VPX-TC1-LT Manufacturer: <b>Aurora Multimedia</b> Model: <b>LCN-DTE-2</b>	7	EA	0%	7	\$ 250.00	\$ 100.00	\$ 2,450	
45		43" Display Manufacturer: <b>Samsung</b> Model: <b>UN43CU7000</b>	8	EA	0%	8	\$ 400.00	\$ 200.00	\$ 4,800	
46		Digital Signage Player Manufacturer: <b>Brightsign</b> Model: <b>LS445</b>	2	EA	0%	2	\$ 350.00	\$ 150.00	\$ 1,000	
47		Rack Monitor For Troubleshooting & COnfig Manufacturer: <b>TBD</b> Model: <b>TBD</b>	1	EA	0%	1	\$ 500.00	\$ 200.00	\$ 700	
48	<b>T0.1-TA5.1</b>	Network Switch; 48-port Including Multimode Sfp Modules, 8x Network Modules, Appropriate & Redundant Power Supplies According To Poe Requirements, Stacking Accessories And/or Cables, 3-year Term Smart Net And Software Licenses Transferred To Owner Account. Product Shall Meet Design Intent And All Accessories Shall Be Included As Required For A Turnkey System. Manufacturer: <b>Cisco</b> Model: <b>Catalyst 9300-Series</b>	5	EA	0%	5	\$ 1,000.00	\$ 500.00	\$ 7,500	
49		Amplification Manufacturer: <b>Extron</b> Model: <b>Netpa U 2002 SB (60-1557-01)</b>	4	EA	0%	4	\$ 250.00	\$ 100.00	\$ 1,400	
50		Ceiling Speaker Manufacturer: <b>Extron</b> Model: <b>SF 3CT LP (60-1311-03)</b>	36	EA	0%	36	\$ 300.00	\$ 150.00	\$ 16,200	
51		Ceiling Speaker Manufacturer: <b>TOE</b> Model: <b>PC-580RU</b>	117	EA	0%	117	\$ 300.00	\$ 150.00	\$ 52,650	
52		Wall Speaker Manufacturer: <b>TOE</b> Model: <b>H-3 EX</b>	18	EA	0%	18	\$ 300.00	\$ 150.00	\$ 8,100	
		<b>SITE FIXTURES</b>								
53		Ceiling Mounted Data Outlet <b>WAP</b>	2	EA	0%	2	\$ 200.00	\$ 100.00	\$ 600	
54		IP Intercommunication <b>IC</b> Manufacturer: <b>E-30-IP-EWP</b>	4	EA	0%	4	\$ 350.00	\$ 150.00	\$ 2,000	
55		Card Reader Manufacturer: <b>HID PROX PRO</b>	4	EA	0%	4	\$ 250.00	\$ 100.00	\$ 1,400	
56		DISTEK 4L VPCR SURGE Protection Unit	4	EA	0%	4	\$ 450.00	\$ 150.00	\$ 2,400	
57		DISTEK ET1500C Ethernet Poe Extender	1	EA	0%	1	\$ 400.00	\$ 150.00	\$ 550	
		<b>PANEL</b>								
58		Touch Panel; Wall Mount; Verify Color W/Architect Manufacturer: <b>Extron</b> Model: <b>TLP Pro 725M (60-1563-03)</b>	7	EA	0%	7	\$ 550.00	\$ 150.00	\$ 4,900	
59		License; Touch Panel Control Processor Upgrade Manufacturer: <b>Extron</b> Model: <b>Linklicense (79-2577-01)</b>	2	EA	0%	2	\$ 500.00	\$ 150.00	\$ 1,300	
60		Touch Panel Manufacturer: <b>Neat</b> Model: <b>Pad</b>	2	EA	0%	2	\$ 550.00	\$ 150.00	\$ 1,400	
		<b>GROUNDING</b>								
61		Copper UI Listed Primary Bonding Grounding Busbar Size: <b>1/4"H X 4"W X 20"L</b> Manufacturers: <b>Chatsworth, Eritech, Harger, Homaco, &amp; Pan Du It.</b>	5	EA	0%	5	\$ 150.00	\$ 100.00	\$ 1,250	
		<b>MISC</b>								
62		Surge Power Strip Manufacturer: <b>Belkin</b> Model: <b>BE106000-2.5</b>	53	EA	0%	53	\$ 300.00	\$ 150.00	\$ 23,850	
63		Display Mount Manufacturer: <b>Chief</b> Model: <b>TS318TU</b>	41	EA	0%	41	\$ 400.00	\$ 200.00	\$ 24,600	
64		AV Box 'DT' Manufacturer: <b>Chief</b> Model: <b>TA500</b>	19	EA	0%	19	\$ 350.00	\$ 150.00	\$ 9,500	
65		Wall Plate 'W2' Size: <b>5"x5"x2.875" Box With One Gang Reducer Ring</b>	3	EA	0%	3	\$ 250.00	\$ 100.00	\$ 1,050	



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66		Power Supply For HDMI Receiver Manufacturer: <b>Extron</b> Model: <b>PS 1215 C (70-1174-01)</b>	4	EA	0%	4	\$ 350.00	\$ 150.00	\$ 2,000	
67		AV Box Wall Plate 'W4' Three-gang Box, Quad-gang Reducing Ring, 1/1.25" Knock-outs, Hubbell Hbl-987 Or Equivalent, U.O.N	1	EA	0%	1	\$ 250.00	\$ 100.00	\$ 350	
68		Display Mount; Portrait-Rail-Type Manufacturer: <b>Chief</b> Model: <b>RMB400</b>	10	EA	0%	10	\$ 300.00	\$ 150.00	\$ 4,500	
69		Unistrut Rail Manufacturer: <b>N/A</b> Model: <b>N/A</b>	2	EA	0%	2	\$ 300.00	\$ 150.00	\$ 900	
70		12-Unit Rack Mount Kit Manufacturer: Aurora Multimedia Model: <b>RK2-5-K</b>	2	EA	0%	2	\$ 250.00	\$ 100.00	\$ 700	
71		Fire Stop Sleeves	48	EA	0%	48	\$ 60.00	\$ 40.00	\$ 4,800	
72		Fire Stop Sleeve <b>ST1</b>	64	EA	0%	64	\$ 60.00	\$ 40.00	\$ 6,400	
73		2 Post Rack (2'-0"x2'-0")	10	EA	0%	10	\$ 400.00	\$ 150.00	\$ 5,500	
74		Junction Box	2	EA	0%	2	\$ 150.00	\$ 100.00	\$ 500	
75		100 Wall Termination Blocks <b>110</b>	10	EA	0%	10	\$ 300.00	\$ 150.00	\$ 4,500	
76		4' x 8' Plywood Back Board	2	EA	0%	2	\$ 300.00	\$ 150.00	\$ 900	
77		VOIP System	1	EA	0%	1	\$ 250.00	\$ 100.00	\$ 350	
<b>CONDUITS &amp; WIRING</b>										
<b>TRAYS</b>										
78		12" Ladder Tray	162	LF	10%	178	\$ 4.00	\$ 3.00	\$ 1,248	
<b>CONDUITS</b>										
79		3" PVC Conduit	23	LF	10%	25	\$ 4.00	\$ 3.00	\$ 174	
80		4" Conduit	205	LF	10%	226	\$ 4.00	\$ 3.00	\$ 1,580	
81		3" EMT Conduit	286	LF	10%	315	\$ 4.00	\$ 3.00	\$ 2,202	
82		1-1/4" Conduit	13725	LF	10%	15098	\$ 3.00	\$ 2.00	\$ 75,488	
<b>WIRING</b>										
83		CAT-6 Cable (Category Cable)	34945	LF	10%	38439	\$ 3.00	\$ 2.00	\$ 192,196	
84		CAT-6A Cable (Category Cable)	3756	LF	10%	4132	\$ 3.00	\$ 2.00	\$ 20,659	
85		RG-11 Cable	7027	LF	10%	7729	\$ 4.00	\$ 3.00	\$ 54,105	
<b>Subtotal (Communication)</b>										<b>\$812,082</b>
<b>Division 28 - ELECTRONIC SAFETY &amp; SECURITY</b>										
<b>VIDEO SURVEILLANCE CONTROL &amp; MANAGEMENT SYSTEM</b>										
<b>FIXTURES</b>										
86		Exterior Wall Mounted Camera 'C1' Manufacturer: <b>Axis</b> Model: <b>P3267-LVE</b> Description: <b>SMP</b>	3	EA	0%	3	\$ 350.00	\$ 150.00	\$ 1,500	
87		Interior 2MP Multi Sensor Camera 'C2' Manufacturer: <b>Axis</b> Model: <b>P3735-PLE</b> Description: <b>Four Sensors Each 2mp Multi Sensor</b>	52	EA	0%	52	\$ 400.00	\$ 150.00	\$ 28,600	
88		Exterior Fixed Wall Mount Camera 'C3' Manufacturer: <b>Axis</b> Model: <b>P3267-LVE</b> Description: <b>SMP H.264 Vandal/weather Ip Dome Camera, Day/night, Varifocal 2.8-12 Mm Lens, With Built In Ir Illuminator Poe Only, Class 0 Poe. Provide Mount.</b>	16	EA	0%	16	\$ 350.00	\$ 150.00	\$ 8,000	
89		Interior Fixed Corner Camera 'C4' Manufacturer: <b>Axis</b> Model: <b>Q9216-SLV</b> Description: <b>H.264 Ip Dome Camera, Day/night, Varifocal 2.8-12 Mm Lens, With Built In Ir. Poe Only</b>	8	EA	0%	8	\$ 350.00	\$ 150.00	\$ 4,000	
90		Elevator Car Camera 'C5' Manufacturer: <b>Axis</b> Model: <b>P9106-V (Corner Mount)</b> Description: <b>Provide Poe Over 2 Wire Converter (By 2N) In Elevator Car And To Ip Converter In Telecom Room. Coordinate With Elevator Contractor On Traveling Cable With Stranded Coaxial Cable.</b>	2	EA	0%	2	\$ 350.00	\$ 150.00	\$ 1,000	
91		Exterior Roof Parapet Mount Camera 'C6' Manufacturer: <b>Axis</b> Model: <b>3738</b> Discription: <b>Four Sensors 4K Per Sensor IP With Heavy Duty (40 Pound) Roof Parapet Swivel Mount For Rooftop Servicing. Parapet Roof Mount.</b> Notes: <b>Requires Class 4 Poe+ 30 Watt Power Supply.</b>	4	EA	0%	4	\$ 350.00	\$ 150.00	\$ 2,000	
92		Camera <b>C9</b> Camera	8	EA	0%	8	\$ 300.00	\$ 150.00	\$ 3,600	
93		Camera Manufacturer: <b>Vaddio</b> Model: <b>Easyip 10</b>	3	EA	0%	3	\$ 300.00	\$ 150.00	\$ 1,350	
94		Camera Manufacturer: <b>Axis</b> Model: <b>M4215-LV</b>	1	EA	0%	1	\$ 300.00	\$ 150.00	\$ 450	

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95	TO.1-TA5.1	Camera Decoder Kit Manufacturer: <b>Vaddio</b> Model: Easyip Mixer	3	EA	0%	3	\$ 300.00	\$ 150.00	\$ 1,350	
96		Camera In-Wall Box Manufacturer: <b>Vaddio</b> Model: <b>999-2225-118</b>	2	EA	0%	2	\$ 300.00	\$ 150.00	\$ 900	
		<b>WIRING</b>								
97		CAT-6 Cable (Category Cable)	6769	LF	10%	7446	\$ 3.00	\$ 2.00	\$ 37,230	
		<b>FIXTURES ATTACHED TO ACCESS CONTROL AND INTRUSION ALARM</b>								
		<b>FIXTURES</b>								
98		Door Contacts <b>DC</b>	85	EA	0%	85	\$ 120.00	\$ 80.00	\$ 17,000	
99		Card Reader <b>CR</b>	90	EA	0%	90	\$ 200.00	\$ 100.00	\$ 27,000	
100		Video Door Station <b>IC</b>	5	EA	0%	5	\$ 350.00	\$ 150.00	\$ 2,500	
101		Door Control Console Push Button <b>DCC</b>	2	EA	0%	2	\$ 150.00	\$ 100.00	\$ 500	
102		Actuator For Automatic Door Operator <b>A</b>	3	EA	0%	3	\$ 400.00	\$ 150.00	\$ 1,650	
103		Detention Grade Intercom IP Station Video Door Station <b>ICD</b>	6	EA	0%	6	\$ 450.00	\$ 150.00	\$ 3,600	
104		Panic Alarm- IP Call For Help Station <b>PA</b>	14	EA	0%	14	\$ 400.00	\$ 150.00	\$ 7,700	
105		Combination Card Reader & Key Pad <b>KP</b>	6	EA	0%	6	\$ 350.00	\$ 150.00	\$ 3,000	
106		Automatic Door Operator <b>ADO</b>	1	EA	0%	1	\$ 150.00	\$ 100.00	\$ 250	
107		Duress Alarm-IP Call For Help Station <b>DA</b>	1	EA	0%	1	\$ 200.00	\$ 100.00	\$ 300	
108		Push Button <b>PB</b>	4	EA	0%	4	\$ 150.00	\$ 100.00	\$ 1,000	
		<b>PANELS</b>								
109	Large Expansion Chasis Access Control Pnael Manufacturer/Model: <b>BRIVE B-ACS6100L-E</b>	8	EA	0%	8	\$ 1,600.00	\$ 500.00	\$ 16,800		
110	All Two Reader Expansion Boards Manufacturer/Model: <b>BRIVE B-ACS6100-DB</b>	8	EA	0%	8	\$ 450.00	\$ 150.00	\$ 4,800		
111	Input/Output Boards Manufacturer/Model: <b>BRIVE B-ACS6100-IO</b>	8	EA	0%	8	\$ 450.00	\$ 150.00	\$ 4,800		
112	Large Expansion Chasis Access Control Pnael Manufacturer/Model: <b>BRIVE B-ACS6100R-E</b>	1	EA	0%	1	\$ 1,800.00	\$ 500.00	\$ 2,300		
113	Lock Power Supply Panels <b>PS</b>	4	EA	0%	4	\$ 2,000.00	\$ 500.00	\$ 10,000		
	<b>MISC</b>									
114	Power Supply Manufacturer: <b>ALTRTONIX</b>	90	EA	0%	90	\$ 300.00	\$ 150.00	\$ 40,500		
115	12"W x 12"H x 6"D Access Control Junction Box	90	EA	0%	90	\$ 150.00	\$ 100.00	\$ 22,500		
	<b>CONDUIT</b>									
116	1/2" Conduit	1225	LF	10%	1348	\$ 3.00	\$ 2.00	\$ 6,738		
	<b>WIRING</b>									
117	4 Conductor AWG Wire	3904	LF	10%	4295	\$ 3.00	\$ 2.00	\$ 21,474		
118	6 Conductor AWG Wire	3393	LF	10%	3732	\$ 4.00	\$ 3.00	\$ 26,123		
		<b>Subtotal (Electronic Safety &amp; Security)</b>								<b>\$310,515</b>

<b>SUBTOTAL</b>										<b>\$1,122,597.56</b>
<b>OVERHEAD/PROFIT</b>		15%								<b>\$168,389.63</b>
<b>INSURANCE</b>		5%								<b>\$56,129.88</b>
<b>CONTINGENCY</b>		7%								<b>\$78,581.83</b>
<b>TOTAL BASE BID</b>										<b>\$1,425,698.90</b>

Note: