

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



CLIENT'S INFORMATION:

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
GENERAL REQUIREMENTS										
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	\$ -	\$ -	\$ -	
Subtotal (General Requirements)										\$0
Division 27 -COMMUNICATION										
FIXTURES										
COMMUNICATION FIXTURES										
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 Manufacturer/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	
AUDIO VISUAL FIXTURES										
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	
40		HDMI Transmitter; Wall Plate Version Manufacturer: Extron Model: 60-1421-13	2	EA	0%	2	\$ 250.00	\$ 100.00	\$ 700	

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41	T0.1-TA5.1	Audio Amplifier Manufacturer: Extron Model: MPA 601-70V (60-1449-01)	2	EA	0%	2	\$ 300.00	\$ 150.00	\$ 900	
42		Ceiling Array Microphone Manufacturer: Shure Model: MXA920	4	EA	0%	4	\$ 250.00	\$ 100.00	\$ 1,400	
43		HDMI-To-USB Manufacturer: Mafewell Model: 32090	1	EA	0%	1	\$ 350.00	\$ 150.00	\$ 500	
44		Date License For VPX-TC1-LT Manufacturer: Aurora Multimedia Model: LCN-DTE-2	7	EA	0%	7	\$ 250.00	\$ 100.00	\$ 2,450	
45		43" Display Manufacturer: Samsung Model: UN43CU7000	8	EA	0%	8	\$ 400.00	\$ 200.00	\$ 4,800	
46		Digital Signage Player Manufacturer: Brightsign Model: LS445	2	EA	0%	2	\$ 350.00	\$ 150.00	\$ 1,000	
47		Rack Monitor For Troubleshooting & COnfig Manufacturer: TBD Model: TBD	1	EA	0%	1	\$ 500.00	\$ 200.00	\$ 700	
48		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: Cisco Model: Catalyst 9300-Series	5	EA	0%	5	\$ 1,000.00	\$ 500.00	\$ 7,500	
49		Amplification Manufacturer: Extron Model: Netpa U 2002 SB (60-1557-01)	4	EA	0%	4	\$ 250.00	\$ 100.00	\$ 1,400	
50		Ceiling Speaker Manufacturer: Extron Model: SF 3CT LP (60-1311-03)	36	EA	0%	36	\$ 300.00	\$ 150.00	\$ 16,200	
51		Ceiling Speaker Manufacturer: TOE Model: PC-580RU	117	EA	0%	117	\$ 300.00	\$ 150.00	\$ 52,650	
52		Wall Speaker Manufacturer: TOE Model: H-3 EX	18	EA	0%	18	\$ 300.00	\$ 150.00	\$ 8,100	
		SITE FIXTURES								
53		Ceiling Mounted Data Outlet WAP	2	EA	0%	2	\$ 200.00	\$ 100.00	\$ 600	
54		IP Intercommunication IC Manufacturer: E-30-IP-EWP	4	EA	0%	4	\$ 350.00	\$ 150.00	\$ 2,000	
55		Card Reader Manufacturer: HID PROX PRO	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	
		PANEL								
58		Touch Panel; Wall Mount; Verify Color W/Architect Manufacturer: Extron Model: TLP Pro 725M (60-1563-03)	7	EA	0%	7	\$ 550.00	\$ 150.00	\$ 4,900	
59		License; Touch Panel Control Processor Upgrade Manufacturer: Extron Model: Linklicense (79-2577-01)	2	EA	0%	2	\$ 500.00	\$ 150.00	\$ 1,300	
60		Touch Panel Manufacturer: Neat Model: Pad	2	EA	0%	2	\$ 550.00	\$ 150.00	\$ 1,400	
		GROUNDING								
61		Copper UL Listed Primary Bonding Grounding Busbar Size: 1/4"H X 4"W X 20"L Manufacturers: Chatsworth, Eritech, Harger, Homaco, & Pan Du It.	5	EA	0%	5	\$ 150.00	\$ 100.00	\$ 1,250	
		MISC								
62		Surge Power Strip Manufacturer: Belkin Model: BE106000-2.5	53	EA	0%	53	\$ 300.00	\$ 150.00	\$ 23,850	
63		Display Mount Manufacturer: Chief Model: TS318TU	41	EA	0%	41	\$ 400.00	\$ 200.00	\$ 24,600	
64		AV Box 'DT' Manufacturer: Chief Model: TA500	19	EA	0%	19	\$ 350.00	\$ 150.00	\$ 9,500	
65		Wall Plate 'W2' Size: 5"x5"x2.875" Box With One Gang Reducer Ring	3	EA	0%	3	\$ 250.00	\$ 100.00	\$ 1,050	
66		Power Supply For HDMI Receiver Manufacturer: Extron Model: PS 1215 C (70-1174-01)	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	

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68	T0.1-TA5.1	Display Mount; Portrait-Rail-Type Manufacturer: Chief Model: RMB400	10	EA	0%	10	\$ 300.00	\$ 150.00	\$ 4,500	
69		Unistrut Rail Manufacturer: N/A Model: N/A	2	EA	0%	2	\$ 300.00	\$ 150.00	\$ 900	
70		12-Unit Rack Mount Kit Manufacturer: Aurora Multimedia Model: RK2-5-K	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 STI	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 110	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	
		CONDUITS & WIRING								
		TRAYS								
78		12" Ladder Tray	162	LF	10%	178	\$ 4.00	\$ 3.00	\$ 1,248	
		CONDUITS								
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	
		WIRING								
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	
		Subtotal (Communication)								\$812,082
		Division 28 - ELECTRONIC SAFETY & SECURITY								
		VIDEO SURVEILLANCE CONTROL & MANAGEMENT SYSTEM								
		FIXTURES								
86		Exterior Wall Mounted Camera 'C1' Manufacturer: Axis Model: P3267-LVE Description: 5MP	3	EA	0%	3	\$ 350.00	\$ 150.00	\$ 1,500	
87		Interior 2MP Multi Sensor Camera 'C2' Manufacturer: Axis Model: P3735-PLE Description: Four Sensors Each 2mp Multi Sensor	52	EA	0%	52	\$ 400.00	\$ 150.00	\$ 28,600	
88		Exterior Fixed Wall Mount Camera 'C3' Manufacturer: Axis Model: P3267-LVE Description: 5MP 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.	16	EA	0%	16	\$ 350.00	\$ 150.00	\$ 8,000	
89		Interior Fixed Corner Camera 'C4' Manufacturer: Axis Model: Q9216-SLV Description: H.264 Ip Dome Camera, Day/night, Varifocal 2.8-12 Mm Lens, With Built In Ir. Poe Only	8	EA	0%	8	\$ 350.00	\$ 150.00	\$ 4,000	
90		Elevator Car Camera 'C5' Manufacturer: Axis Model: P9106-V (Corner Mount) Description: 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.	2	EA	0%	2	\$ 350.00	\$ 150.00	\$ 1,000	
91		Exterior Roof Parapet Mount Camera 'C6' Manufacturer: Axis Model: 3738 Discription: Four Sensors 4K Per Sensor IP With Heavy Duty (40 Pound) Roof Parapet Swivel Mount For Rooftop Servicing. Parapet Roof Mount. Notes: Requires Class 4 Poe+ 30 Watt Power Supply.	4	EA	0%	4	\$ 350.00	\$ 150.00	\$ 2,000	
92		Camera C9	8	EA	0%	8	\$ 300.00	\$ 150.00	\$ 3,600	
93		Camera Manufacturer: Vaddio Model: Easyip 10	3	EA	0%	3	\$ 300.00	\$ 150.00	\$ 1,350	
94		Camera Manufacturer: Axis Model: M4215-LV	1	EA	0%	1	\$ 300.00	\$ 150.00	\$ 450	
95		Camera Decoder Kit Manufacturer: Vaddio Model: Easyip Mixer	3	EA	0%	3	\$ 300.00	\$ 150.00	\$ 1,350	
96		Camera In-Wall Box Manufacturer: Vaddio Model: 999-2225-118	2	EA	0%	2	\$ 300.00	\$ 150.00	\$ 900	
		WIRING								
97		CAT-6 Cable (Category Cable)	6769	LF	10%	7446	\$ 3.00	\$ 2.00	\$ 37,230	

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**SWIFT PRO
ESTIMATE**

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