



CLIENT'S INFORMATION:

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)
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)									

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 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
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	T0.1-TA5.1	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
41	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

68		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)							
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	T0.1-TA5.1	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
		FIXTURES ATTACHED TO ACCESS CONTROL AND INTRUSION ALARM							
		FIXTURES							
98		Door Contacts DC	85	EA	0%	85	\$120.00	\$80.00	\$17,000
99		Card Reader CR	90	EA	0%	90	\$200.00	\$100.00	\$27,000
100		Video Door Station IC	5	EA	0%	5	\$350.00	\$150.00	\$2,500

101	Door Control Console Push Button DCC	2	EA	0%	2	\$150.00	\$100.00	\$500
102	Actuator For Automatic Door Operator A	3	EA	0%	3	\$400.00	\$150.00	\$1,650
103	Detention Grade Intercom IP Station Video Door Station ICD	6	EA	0%	6	\$450.00	\$150.00	\$3,600
104	Panic Alarm- IP Call For Help Station PA	14	EA	0%	14	\$400.00	\$150.00	\$7,700
105	Combination Card Reader & Key Pad KP	6	EA	0%	6	\$350.00	\$150.00	\$3,000
106	Automatic Door Operator ADO	1	EA	0%	1	\$150.00	\$100.00	\$250
107	Duress Alarm-IP Call For Help Station DA	1	EA	0%	1	\$200.00	\$100.00	\$300
108	Push Button PB	4	EA	0%	4	\$150.00	\$100.00	\$1,000
	PANELS							
109	Large Expansion Chasis Access Control Pnael Manufacturer/Model: BRIVE B-ACS6100L-E	8	EA	0%	8	\$1,600.00	\$500.00	\$16,800
110	All Two Reader Expansion Boards Manufacturer/Model: BRIVE B-ACS6100-DB	8	EA	0%	8	\$450.00	\$150.00	\$4,800
111	Input/Output Boards Manufacturer/Model: BRIVE B-ACS6100-IO	8	EA	0%	8	\$450.00	\$150.00	\$4,800
112	Large Expansion Chasis Access Control Pnael Manufacturer/Model: BRIVE B-ACS6100R-E	1	EA	0%	1	\$1,800.00	\$500.00	\$2,300
113	Lock Power Supply Panels PS	4	EA	0%	4	\$2,000.00	\$500.00	\$10,000
	MISC							
114	Power Supply Manufacturer: ALTRTONIX	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
	CONDUIT							
116	1/2" Conduit	1225	LF	10%	1348	\$3.00	\$2.00	\$6,738
	WIRING							
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
	Subtotal (Electronic Safety & Security)							

SUBTOTAL	
OVERHEAD/PROFIT	15%
INSURANCE	5%
CONTINGENCY	7%
TOTAL BASE BID	

PRIMAGE ESTIMATE