

SR. NO.	DESCRIPTION	QUANTITY	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT COST	UNIT	MATERIAL COST	LABOR RATE	LABOR	UNIT	TOTAL LABOR	LABOR COST	TOTAL COST
<b>NEW WORK</b>														
<b>LOW VOLTAGE</b>														
<b>CONDUITS</b>														
1	1/2" EMT Conduit	210	10%	231	FT	\$ 61.78	C	\$ 143	\$ 75	2.78	C	6.42	\$ 482	\$ 624
2	3/4" EMT Conduit with Pull Wire	15	10%	16.5	FT	\$ 96.84	C	\$ 16	\$ 75	5	C	0.83	\$ 62	\$ 78
3	3/4" Sloped RGS Conduit	14	0%	14	FT	\$ 335.33	C	\$ 47	\$ 75	5	C	0.70	\$ 53	\$ 99
4	1" EMT Conduit with Nylon Bushing on End	165	10%	181.5	FT	\$ 161.19	C	\$ 293	\$ 75	5.5	C	9.98	\$ 749	\$ 1,041
5	2" EMT Conduit with Pull Wire	45	10%	49.5	FT	\$ 375.43	C	\$ 186	\$ 75	6.8	C	3.37	\$ 252	\$ 438
<b>STUBS</b>														
6	1" EMT Stub	28	0%	28	EA	\$ 2,242.10	C	\$ 628	\$ 75	48	C	13.44	\$ 1,008	\$ 1,636
<b>CONDUCTORS</b>														
7	#22 CU THHN/THWN	338	10%	372	FT	\$ 32.42	M	\$ 12	\$ 75	5	M	1.86	\$ 139	\$ 151
8	#14 CU THHN/THWN	1014	10%	1115	FT	\$ 100.60	M	\$ 112	\$ 75	5	M	5.58	\$ 418	\$ 530
9	CAT6A	1555	10%	1711	FT	\$ 222.46	M	\$ 381	\$ 75	8	M	13.68	\$ 1,026	\$ 1,407
10	25 Pair Shielded Cable	438	10%	482	FT	\$ 184.00	M	\$ 89	\$ 75	12	M	5.78	\$ 434	\$ 522
11	24 OMS Fiber	438	10%	481.8	FT	\$ 303.00	M	\$ 146	\$ 75	12	M	5.78	\$ 434	\$ 580
12	24 Strand Backbone Cable	438	10%	482	FT	\$ 1,569.28	M	\$ 756	\$ 75	12	M	5.78	\$ 434	\$ 1,190
<b>GROUNDING</b>														
13	#2/0 Grounding Conductor (Assumed Length)	63	0%	63	FT	\$ 3,063.81	M	\$ 192	\$ 75	21	M	1.32	\$ 99	\$ 291
14	#3/0 Grounding Wire between IDF and MDF (By Division 26)	480	0%	480	FT	\$ 3,533.57	M	\$ 1,697	\$ 75	24	M	11.53	\$ 864	\$ 2,561
15	#6 Grounding Conductor (Assumed Length)	7	0%	7	FT	\$ 637.00	M	\$ 4	\$ 75	10.2	M	0.07	\$ 5	\$ 9
16	Copper UL Listed TGB Min 1/4"x2"x12" with Two Mounting Brackets and Insulators CHATSWORTH, ERITECH, HARGER, HOMACO or PANDUIT (BY Division 26)	1	0%	1	EA	\$ 434.62	E	\$ 435	\$ 75	2.5	E	2.50	\$ 188	\$ 622
17	Copper UL Listed TMGB Min 1/4"x4"x20" with Two Mounting Brackets and Insulators CHATSWORTH, ERITECH, HARGER, HOMACO or PANDUIT (BY Division 26, Assumed Existing)	1	0%	1	EA	\$ 264.64	E	\$ 265	\$ 75	2.19	E	2.19	\$ 164	\$ 429
18	Crimp Connector	2	0%	2	EA	\$ 0.17	E	\$ 0	\$ 75	0.125	E	0.25	\$ 19	\$ 19
19	Individual Equipment Grounding Terminal	10	0%	10	EA	\$ -	E	\$ -	\$ 75	0.125	E	1.25	\$ 94	\$ 94
20	Rack Mounted Grounding Busbar	2	0%	2	EA	\$ 285.42	E	\$ 571	\$ 75	2.5	E	5.00	\$ 375	\$ 946
21	Typical 2 Hole Lugs	6	0%	6	EA	\$ 54.64	E	\$ 328	\$ 75	1.2	E	7.20	\$ 540	\$ 868
22	Typical Mounting Bracket by Div. 27	2	0%	2	EA	\$ 1.33	E	\$ 3	\$ 75	0.125	E	0.25	\$ 19	\$ 21
<b>DEVICES</b>														
22	Ceiling Mounted Data Outlet for WAP	1	0%	1	EA	\$ 12.42	E	\$ 12	\$ 75	0.30	E	0.30	\$ 23	\$ 35
	Dual Gang Backbone with Single Gang Box Mudring	1	0%	1	EA	\$ 39.99	E	\$ 40	\$ 75	0.37	E	0.37	\$ 28	\$ 68
23	Wall Mounted Data Outlet for WAP	7	0%	7	EA	\$ 746.65	C	\$ 52	\$ 75	57.64	C	4.03	\$ 303	\$ 355
	Single Gang Back Box 2.5"x4"x2.5"	7	0%	7	EA	\$ 2.46	E	\$ 17	\$ 75	0.37	E	2.59	\$ 194	\$ 211
	Single Gang Mudring	7	0%	7	EA	\$ 0.76	E	\$ 5	\$ 75	0.37	E	2.59	\$ 194	\$ 200
24	AV1 Wall Outlet with 4-11/16"x4-11/16"x3-1/4" Back Box	1	0%	1	EA	\$ 619.91	C	\$ 6	\$ 75	35.00	C	0.35	\$ 26	\$ 32
	Double Gang Mudring	1	0%	1	EA	\$ 0.76	E	\$ 1	\$ 75	0.37	E	0.37	\$ 28	\$ 29
25	AV2 Wall Outlet with 4-11/16"x4-11/16"x3-1/4" Back Box	1	0%	1	EA	\$ 619.91	C	\$ 6	\$ 75	35.00	C	0.35	\$ 26	\$ 32
	Double Gang Mudring	1	0%	1	EA	\$ 0.76	E	\$ 1	\$ 75	0.37	E	0.37	\$ 28	\$ 29
	Audio Input Plate RDL DS-J3	1	0%	1	EA	\$ 0.13	E	\$ 0	\$ 75	0.37	E	0.37	\$ 28	\$ 28
	MIC Input Plate EDL DS-J1 Series	1	0%	1	EA	\$ -	E	\$ -	\$ 75	0.37	E	0.37	\$ 28	\$ 28
26	AV3 Wall Outlet with 4-11/16"x4-11/16"x3-1/4" Back Box	1	0%	1	EA	\$ 619.91	C	\$ 6	\$ 75	35.00	C	0.35	\$ 26	\$ 32
	Single Gang Mudring	1	0%	1	EA	\$ 0.76	E	\$ 1	\$ 75	0.37	E	0.37	\$ 28	\$ 29
	WHIRLWIND MIP3B Media Input Plate	1	0%	1	EA	\$ -	E	\$ -	\$ 75	0.37	E	0.37	\$ 28	\$ 28
27	Card Reader Wall Mounted	1	0%	1	EA	\$ 73.70	E	\$ 74	\$ 75	1.00	E	1.00	\$ 75	\$ 149
	2 Gang Back Box with 1 Gang Mudring	1	0%	1	EA	\$ 39.99	E	\$ 40	\$ 75	0.30	E	0.30	\$ 23	\$ 62
	8"x8"x6" Junction Box with Cover	1	0%	1	EA	\$ 39.99	E	\$ 40	\$ 75	0.30	E	0.30	\$ 23	\$ 62
28	Data Outlets	6	0%	6	EA	\$ 12.42	E	\$ 75	\$ 75	0.30	E	1.80	\$ 135	\$ 210
	4-11/16" x 4-11/16" x3 -1/4" Deep Back Box	3	0%	3	EA	\$ 746.65	C	\$ 22	\$ 75	57.64	C	1.73	\$ 130	\$ 152

	Single Gang Mudring	3	0%	3	EA	\$ 0.76	E	\$ 2	\$ 75	0.37	E	1.11	\$ 83	\$ 86
29	Data Outlet with ANT written, Wall Mounted (Details not Given)	3	0%	3	EA	\$ 12.42	E	\$ 37	\$ 75	0.30	E	0.90	\$ 68	\$ 105
30	ADD MA SR-40-28 with Zero Latch Configuration, Vented Front Door with Fan Kit FK-22 and Thermostatic Fan Control FC-4-1CA	1	0%	1	EA	\$ 466.32	E	\$ 466	\$ 75	2.00	E	2.00	\$ 150	\$ 616
31	Black Hawk Labs 12U+4U Miniraq Secure - Tall with Vented Bottom - MRO301S16 Data Cabinet with S16 Pro Kit and BD2020 Brush Access Plates	1	0%	1	EA	\$ 636.76	E	\$ 637	\$ 75	2.00	E	2.00	\$ 150	\$ 787
32	OPMICN 10' Star Quad Mic Cable w/Neutrik Black X-Series Connectors, Gold Contacts & Blue Boots	4	0%	4	EA	\$ -	E	\$ -	\$ 75	0.00	E	1.00	\$ 75	\$ 75
33	OPMICN 15' Star Quad Mic Cable w/Neutrik Black X-Series Connectors, Gold Contacts & Blue Boots	4	0%	4	EA	\$ -	E	\$ -	\$ 75	0.00	E	1.00	\$ 75	\$ 75
34	OPMICN 25' Star Quad Mic Cable w/Neutrik Black X-Series Connectors, Gold Contacts & Blue Boots	4	0%	4	EA	\$ -	E	\$ -	\$ 75	0.00	E	1.00	\$ 75	\$ 75
35	OPMICN 50' Star Quad Mic Cable w/Neutrik Black X-Series Connectors, Gold Contacts & Blue Boots	2	0%	2	EA	\$ -	E	\$ -	\$ 75	0.00	E	1.00	\$ 75	\$ 75
36	SHURE ULXD1 Wireless Bodypack Transmitters	2	0%	2	EA	\$ 238.24	E	\$ 476	\$ 75	0.13	E	0.25	\$ 19	\$ 495
37	SHURE ULX2/B58 Wireless Handheld Microphones	2	0%	2	EA	\$ -	E	\$ -	\$ 75	1.00	E	2.00	\$ 150	\$ 150
38	SHURE 58 Beta Wired Handheld Microphones	2	0%	2	EA	\$ -	E	\$ -	\$ 75	1.00	E	2.00	\$ 150	\$ 150
39	Proco IFACE	1	0%	1	EA	\$ -	E	\$ -	\$ 75	1.00	E	1.00	\$ 75	\$ 75
40	Point Source CR-8S Earset (BEIGE)	2	0%	2	EA	\$ 6.99	E	\$ 14	\$ 75	0.13	E	0.25	\$ 19	\$ 33
41	Rack Header	1	0%	1	EA	\$ 223.47	E	\$ 223	\$ 75	0.30	E	0.30	\$ 23	\$ 246
42	Rackmount Power Sequencer	1	0%	1	EA	\$ 1,964.00	E	\$ 1,964	\$ 75	0.13	E	0.13	\$ 10	\$ 1,974
43	Audio Power Amplifier QSC CX-Q8K4	1	0%	1	EA	\$ -	E	\$ -	\$ 75	0.13	E	0.13	\$ 10	\$ 10
44	Audio Power Amplifier QSC CX-Q8K4 (Future)	2	0%	2	EA	\$ -	E	\$ -	\$ 75	0.13	E	0.26	\$ 20	\$ 20
45	Blank Middle Atlantic VTF1	12	0%	12	EA	\$ 2.79	E	\$ 33	\$ 75	0.13	E	1.56	\$ 117	\$ 150
46	AV Network Switch (Future) DANTE Networks Switch	1	0%	1	EA	\$ 16.50	E	\$ 17	\$ 75	0.13	E	0.13	\$ 10	\$ 26
47	Digital Signal Processor BIAMP TESIRAFORTE DAN AI	1	0%	1	EA	\$ 177.68	E	\$ 178	\$ 75	1.00	E	1.00	\$ 75	\$ 253
48	Digital Signal Processor (Future) BIAMP TESIRAFORTE DAN AI	1	0%	1	EA	\$ 224.13	E	\$ 224	\$ 75	1.00	E	1.00	\$ 75	\$ 299
49	Wireless Receiver SHURE SLX4	1	0%	1	EA	\$ 114.12	E	\$ 114	\$ 75	0.12	E	0.12	\$ 9	\$ 123
50	Wireless Receiver Future	1	0%	1	EA	\$ 114.12	E	\$ 114	\$ 75	0.12	E	0.12	\$ 9	\$ 123
51	Assistive Listening System WILLIAMS SOUND PPA	1	0%	1	EA	\$ -	E	\$ -	\$ 75	0.00	E	0.00	\$ -	\$ -
52	Assistive Listening System Future	1	0%	1	EA	\$ -	E	\$ -	\$ 75	0.00	E	0.00	\$ -	\$ -
53	Rack Drawer Middle Atlantic D4	1	0%	1	EA	\$ -	E	\$ -	\$ 75	0.30	E	0.30	\$ 23	\$ 23
54	Power Strip MIDDLE ATLANTIC PD-915R	1	0%	1	EA	\$ 40.95	E	\$ 41	\$ 75	0.30	E	0.30	\$ 23	\$ 63
55	Wireless Microphone Receiver SHURE ULXD4D	1	0%	1	EA	\$ 114.12	E	\$ 114	\$ 75	0.12	E	0.12	\$ 9	\$ 123
56	Wireless Transmitter SHURE P9T	1	0%	1	EA	\$ 114.12	E	\$ 114	\$ 75	0.12	E	0.12	\$ 9	\$ 123
57	QSC TOUCHMIX 16 Mixer	1	0%	1	EA	\$ -	E	\$ -	\$ 75	2.00	E	2.00	\$ 150	\$ 150
58	Portable Cart Shall be Gator Case GRC-10X12PU or Equal with Pop Up Top for QSC Mixer	1	0%	1	EA	\$ -	E	\$ -	\$ 75	0.14	E	0.14	\$ 11	\$ 11
59	CD Player DENON DN-500CB	1	0%	1	EA	\$ -	E	\$ -	\$ 75	0.12	E	0.12	\$ 9	\$ 9
60	S1 Ceiling Speaker	7	0%	7	EA	\$ 149.99	E	\$ 1,050	\$ 75	0.75	E	5.25	\$ 394	\$ 1,444
61	S3 Wall ATLAS Sound RES161 Recessed Horn Box, Provided by PA Contractor Installed by EC	3	0%	3	EA	\$ 45.64	E	\$ 137	\$ 75	0.8	E	2.40	\$ 180	\$ 317
62	S5 Ceiling Speaker	1	0%	1	EA	\$ 149.99	E	\$ 150	\$ 75	0.75	E	0.75	\$ 56	\$ 206
63	S6 Ceiling Speaker	4	0%	4	EA	\$ 149.99	E	\$ 600	\$ 75	0.75	E	3.00	\$ 225	\$ 825
64	S8 Ceiling Speaker	3	0%	3	EA	\$ 149.99	E	\$ 450	\$ 75	0.75	E	2.25	\$ 169	\$ 619
	Dual Gang Back Box	3	0%	3	EA	\$ 39.99	E	\$ 120	\$ 75	0.37	E	1.11	\$ 83	\$ 203
	Single Gang Mudring	3	0%	3	EA	\$ 0.76	E	\$ 2	\$ 75	0.37	E	1.11	\$ 83	\$ 86
65	Wall Box FSR WB-X2-GNG Wall Box with WB-X2-CVR-WHT White Locking Cover Provided by Div. 27 and Installed by EC	3	0%	3	EA	\$ 29.99	E	\$ 90	\$ 75	0.3	E	0.90	\$ 68	\$ 157
<b>SECURITY</b>														
<b>CONDUITS</b>														
66	1" EMT Conduit	255	10%	281	FT	\$ 162.19	C	\$ 455	\$ 75	5.5	C	15.43	\$ 1,157	\$ 1,612
67	1-1/4" EMT Conduit	120	10%	132	FT	\$ 254.33	C	\$ 336	\$ 75	6.2	C	8.18	\$ 614	\$ 950
68	1-1/4" EMT Conduit with Nylon Bushing on End	225	10%	248	FT	\$ 255.63	C	\$ 633	\$ 75	6.2	C	15.35	\$ 1,151	\$ 1,784
<b>STUBS</b>														
69	1-1/4" EMT Stub	30	0%	30	EA	\$ 2,242.10	C	\$ 673	\$ 75	48	C	14.40	\$ 1,080	\$ 1,753
<b>CONDUCTORS</b>														
70	6#18 Unshielded Twisted Pair	60	10%	66	FT	\$ 212.42	M	\$ 14	\$ 75	8	M	0.53	\$ 39	\$ 53
71	#18 CU	2576	10%	2834	FT	\$ 82.32	M	\$ 233	\$ 75	5	M	14.17	\$ 1,063	\$ 1,296
72	CAT6A	999	10%	1099	FT	\$ 222.46	M	\$ 244	\$ 75	8	M	8.79	\$ 659	\$ 904

DEVICES														
73	Electric Power Transfer Box	2	0%	2	EA	\$ 62.42	E	\$ 125	\$ 75	1	E	2.00	\$ 150	\$ 275
74	Electrified Latch Ceiling	1	0%	1	EA	\$ 62.42	E	\$ 62	\$ 75	2	E	2.00	\$ 150	\$ 212
75	Camera 360 Ceiling Mounted	2	0%	2	EA	\$ 181.13	E	\$ 362	\$ 75	0.75	E	1.50	\$ 113	\$ 475
	CADDY SNAP on Fixture/Box Hanger Assembly PART #512	3	0%	3	EA	\$ 9.35	E	\$ 28	\$ 75	0.12	E	0.36	\$ 27	\$ 55
	Data Outlet	3	0%	3	EA	\$ 12.42	E	\$ 37	\$ 75	0.30	E	0.90	\$ 68	\$ 105
	Dual Gang Backbone with Single Gang Box Mudring	3	0%	3	EA	\$ 39.99	E	\$ 120	\$ 75	0.37	E	1.11	\$ 83	\$ 203
	Dual Gang Box with Single Gang Plaster Ring	3	0%	3	EA	\$ 0.76	E	\$ 2	\$ 75	0.37	E	1.11	\$ 83	\$ 86
76	Camera 180 Degree Wall Mounted	4	0%	4	EA	\$ 173.00	E	\$ 692	\$ 75	0.75	E	3.00	\$ 225	\$ 917
	2-Gang Box with 1-Gang Opening	7	0%	7	EA	\$ 39.99	E	\$ 280	\$ 75	0.37	E	2.59	\$ 194	\$ 474
	Data Connection Terminated in Single Gang Metallic Box with Stainless Steel Faceplate	7	0%	7	EA	\$ -	E	\$ -	\$ 75	0.12	E	0.84	\$ 63	\$ 63
	Patch Cable to Exterior Camera	7	0%	7	EA	\$ -	E	\$ -	\$ 75	0.12	E	0.84	\$ 63	\$ 63
	POE Lightning Arrestor	7	0%	7	EA	\$ 69.54	E	\$ 487	\$ 75	0.30	E	2.10	\$ 158	\$ 644
	Single Gang Back Box 2.5"x4"x2.5"	7	0%	7	EA	\$ 39.99	E	\$ 280	\$ 75	0.37	E	2.59	\$ 194	\$ 474
	Single Gang Mudring	7	0%	7	EA	\$ 0.76	E	\$ 5	\$ 75	0.37	E	2.59	\$ 194	\$ 200
77	Intercom Wall Mounted	1	0%	1	EA	\$ 227.40	E	\$ 227	\$ 75	0.75	E	0.75	\$ 56	\$ 284
78	Keypad Wall Mounted	1	0%	1	EA	\$ 232.12	E	\$ 232	\$ 75	0.3	E	0.30	\$ 23	\$ 255
79	Request to Exit, Integrated	1	0%	1	EA	\$ 109.40	E	\$ 109	\$ 75	0.8	E	0.80	\$ 60	\$ 169
80	Door Contact/Monitor Ceiling	5	0%	5	EA	\$ 34.42	E	\$ 172	\$ 75	0.8	E	4.00	\$ 300	\$ 472
	Styrofoam Blocking in Frames that will be Concrete Filled	10	0%	10	EA	\$ -	E	\$ -	\$ 75	0	E	0.00	\$ -	\$ -
81	Motion Detector Wall Mounted	6	0%	6	EA	\$ 54.78	E	\$ 329	\$ 75	0.5	E	3.00	\$ 225	\$ 554
	Single Gang Back Box	6	0%	6	EA	\$ 39.99	E	\$ 240	\$ 75	0.37	E	2.22	\$ 167	\$ 406
	Single Gang Mudring	6	0%	6	EA	\$ 0.76	E	\$ 5	\$ 75	0.37	E	2.22	\$ 167	\$ 171
<b>MISCELLANEOUS</b>														
82	3/4" Plywood Back Board	3	0%	3	EA	\$ -	E	\$ -	\$ 75	0.12	E	0.36	\$ 27	\$ 27
83	Basket Tray for IDF (Assumed Length, Exact not Shown)	19.99	0%	19.99	FT	\$ 21.25	E	\$ 425	\$ 75	0.1	E	2.00	\$ 150	\$ 575
84	Bonding Conductor BCT to Building Grounding Electrode (By Division 26)	1	0%	1	EA	\$ -	E	\$ -	\$ 75	0.3	E	1.00	\$ 75	\$ 75
85	J Hooks	88	0%	88	EA	\$ 4.32	E	\$ 380	\$ 75	0.05	E	4.40	\$ 330	\$ 710
86	RJ45 Jacks	37	0%	37	EA	\$ 5.34	E	\$ 198	\$ 75	0.2	E	7.40	\$ 555	\$ 753
											<b>TOTAL MATERIAL COST</b>	\$	<b>21,454</b>	
											<b>TOTAL LABOR'S COST</b>	\$	<b>21,899</b>	
											<b>TOTAL COST</b>	\$	<b>43,353</b>	
											<b>OVERHEADS &amp; PROFIT</b>	25%	\$	<b>10,838</b>
											<b>TOTAL BID</b>	\$	<b>54,192</b>	

**SCOPE OF ESTIMATE:**

**I SUPPLY & INSTALLATION**

1	Low Voltage
2	Security
3	Miscellaneous