

# BIDS ESTIMATING

Client: (Hidden for Privacy)  
 Project Name: (Hidden for Privacy)  
 Project ID: (Hidden for Privacy)  
 Last Updated: 19/01/2022



Website: bidsestimating.com  
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## Quantity Takeoff Sheet Electrical

ITEM #	REF. SHEET	DETAIL	CSI SECT	Sub Contractor	DESCRIPTION	QTY.	WAST AGE	QTY WITH WASTAGE	UNIT	UNIT LABOR HOURS	TOTAL LABOR HOURS	PER HOUR LABOR RATE	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	ITEM COST	TRADE COST
			<b>DIV-02</b>	<b>Selective Removal And Demolition</b>													<b>\$ 2,494</b>
					<b>Demolition</b>												
1	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Panel X & its Entirety & Circuits	1	0%	1	EA	5.000	5.00	\$ 21.9	\$ 109.4	\$ -	\$ -	\$ 109	
2	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Transformer "TX" & Associated items	1	0%	1	EA	11.250	11.25	\$ 21.9	\$ 246.2	\$ -	\$ -	\$ 246	
3	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Disconnect Switch & Associated Wiring-5	1	0%	1	EA	1.625	1.63	\$ 21.9	\$ 35.6	\$ -	\$ -	\$ 36	
4	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing 14L Panel & its Entirety-6	1	0%	1	EA	5.588	5.59	\$ 21.9	\$ 122.3	\$ -	\$ -	\$ 122	
5	E101-E301	E101-E301	DIV-02	Demo - Building	Remove MCC In Its Entirety & Remove Associated Feeder or Conductors -17	1	0%	1	EA	8.375	8.38	\$ 21.9	\$ 183.3	\$ -	\$ -	\$ 183	
6	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing .Exit Light	73	0%	73	EA	1.125	82.13	\$ 21.9	\$ 1,797.3	\$ -	\$ -	\$ 1,797	
7	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing 1L Panel	1	0%	1	EA	5.030	5.03	\$ 21.9	\$ 110.1	\$ -	\$ -	\$ 110	
8	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Panel 4SPD With Circuit & Wiring	1	0%	1	EA	6.185	6.19	\$ 21.9	\$ 135.4	\$ -	\$ -	\$ 135	
9	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing TF-6 Transformer	1	0%	1	EA	11.250	11.25	\$ 21.9	\$ 246.2	\$ -	\$ -	\$ 246	
10	E101-E301	E101-E301	DIV-02	Demo - Building	Remove 4SP With 100A-MCB Panel	1	0%	1	EA	8.955	8.96	\$ 21.9	\$ 196.0	\$ -	\$ -	\$ 196	
11	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Panel	1	0%	1	EA	5.000	5.00	\$ 21.9	\$ 109.4	\$ -	\$ -	\$ 109	
12	E101-E301	E101-E301	DIV-02	Demo - Building	Remove FDP With 400A-MLO Panel	1	0%	1	EA	9.565	9.57	\$ 21.9	\$ 209.3	\$ -	\$ -	\$ 209	
13	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Surface Mounted Distribution Panel With 600A MCB Panel -14	1	0%	1	EA	10.320	10.32	\$ 21.9	\$ 225.8	\$ -	\$ -	\$ 226	
14	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Panel 4LD With 600A-MLO Distribution panel	1	0%	1	EA	10.005	10.01	\$ 21.9	\$ 219.0	\$ -	\$ -	\$ 219	
15	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Panel A & Associated Items With 1L Panel	1	0%	1	EA	4.965	4.97	\$ 21.9	\$ 108.7	\$ -	\$ -	\$ 109	
16	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Panel B with 100A-MLO Panel	1	0%	1	EA	8.955	8.96	\$ 21.9	\$ 196.0	\$ -	\$ -	\$ 196	
17	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing 1LD Panel With 400A MLO-15	1	0%	1	EA	9.565	9.57	\$ 21.9	\$ 209.3	\$ -	\$ -	\$ 209	
18	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing TF-1 Transformer	1	0%	1	EA	11.250	11.25	\$ 21.9	\$ 246.2	\$ -	\$ -	\$ 246	
19	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Panel 1P With 100A MLO-17	1	0%	1	EA	8.955	8.96	\$ 21.9	\$ 196.0	\$ -	\$ -	\$ 196	
20	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Surface Mount 1PD	1	0%	1	EA	6.083	6.08	\$ 21.9	\$ 133.1	\$ -	\$ -	\$ 133	
21	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Chiller Connection	1	0%	1	EA	3.633	3.63	\$ 21.9	\$ 79.5	\$ -	\$ -	\$ 79	
22	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing 5LD Panel	1	0%	1	EA	5.500	5.50	\$ 21.9	\$ 120.4	\$ -	\$ -	\$ 120	
23	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Distribution Panel	1	0%	1	EA	8.375	8.38	\$ 21.9	\$ 183.3	\$ -	\$ -	\$ 183	
24	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing 100A Panel 23L	1	0%	1	EA	12.230	12.23	\$ 21.9	\$ 267.6	\$ -	\$ -	\$ 268	
25	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Distribution Panel 8LD	1	0%	1	EA	6.685	6.69	\$ 21.9	\$ 146.3	\$ -	\$ -	\$ 146	
26	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Transformer TF-8	1	0%	1	EA	11.250	11.25	\$ 21.9	\$ 246.2	\$ -	\$ -	\$ 246	
27	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Distribution Panel 8PD	1	0%	1	EA	5.500	5.50	\$ 21.9	\$ 120.4	\$ -	\$ -	\$ 120	
28	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Panel	1	0%	1	EA	5.000	5.00	\$ 21.9	\$ 109.4	\$ -	\$ -	\$ 109	
29	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Downlight	8	0%	8	EA	2.235	17.88	\$ 21.9	\$ 391.3	\$ -	\$ -	\$ 391	
30	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Distribution Panel 3LD	1	0%	1	EA	5.000	5.00	\$ 21.9	\$ 109.4	\$ -	\$ -	\$ 109	
31	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing 20P Panel	1	0%	1	EA	9.193	9.19	\$ 21.9	\$ 201.2	\$ -	\$ -	\$ 201	

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32	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Surface Mount 19L Panel	1	0%	1	EA	6.083	6.08	\$ 21.9	\$ 133.1		\$ -	\$ 133	
33	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Distribution Panel 6LD	1	0%	1	EA	6.375	6.38	\$ 21.9	\$ 139.5		\$ -	\$ 140	
34	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Outlet With New Outlet	10	0%	10	EA	0.875	8.75	\$ 21.9	\$ 191.5		\$ -	\$ 191	
35	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Outlet	9	0%	9	EA	0.875	7.88	\$ 21.9	\$ 172.3		\$ -	\$ 172	
36	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Outlet	2	0%	2	EA	0.875	1.75	\$ 21.9	\$ 38.3		\$ -	\$ 38	
37	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Recessed Panel 4P	1	0%	1	EA	7.755	7.76	\$ 21.9	\$ 169.7		\$ -	\$ 170	
38	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Switch	3	0%	3	EA	0.635	1.91	\$ 21.9	\$ 41.7		\$ -	\$ 42	
39	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Recessed 4SP Panel	1	0%	1	EA	6.185	6.19	\$ 21.9	\$ 135.4		\$ -	\$ 135	
40	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Range Outlet	2	0%	2	EA	0.875	1.75	\$ 21.9	\$ 38.3		\$ -	\$ 38	
41	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Outlet	1	0%	1	EA	0.875	0.88	\$ 21.9	\$ 19.1		\$ -	\$ 19	
42	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing 8 FT Long P8E Light	9	0%	9	EA	4.000	36.00	\$ 21.9	\$ 787.8		\$ -	\$ 788	
43	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing 8 FT Long P8 Light	19	0%	19	EA	4.000	76.00	\$ 21.9	\$ 1,663.2		\$ -	\$ 1,663	
44	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing 4 FT Long P4 Light	2	0%	2	EA	2.000	4.00	\$ 21.9	\$ 87.5		\$ -	\$ 88	
45	E101-E301	E101-E301	DIV-02	Demo - Building	Remove Existing Light Switch	1	0%	1	EA	0.635	0.64	\$ 21.9	\$ 13.9		\$ -	\$ 14	
46	E101-E301	E101-E301	DIV-02	Demo - Building	Remove all Associated Wirings & Conduits (375,089.05 SF)	1	0%	1	LS	375.089	375.09	\$ 21.9	\$ 8,208.6		\$ -	\$ 8,209	
					<b>Demo Technology</b>												
47	T100-T301	T100-T301	DIV-02	Demo - Building	Remove Technology Items	2	0%	2	EA	0.854	1.71	\$ 21.9	\$ 37.4		\$ -	\$ 37	
			DIV-02	Demo - Building	Dumpsters / Hauling	1	0%	1	LS	200.000	200.00	\$ 21.9	\$ 4,376.9		\$ -	\$ 4,377	
			<b>DIV-26</b>		<b>Electrical</b>												<b>\$ 535,175</b>
					<b>Lighting Fixtures</b>												
48	E101-E301	E101-E301	DIV-26	Electrician	Exit Light Lithonia : #LQM2W3GMVOLTELNSD-2	73	0%	73	EA	2.066	150.83	\$ 53.9	\$ 8,136.6	\$ 55.5	\$ 4,052.2	\$ 12,189	
49	E301	E301	DIV-26	Electrician	LED Light Fixture Ceiling Mounted -A-11	8	0%	8	EA	2.225	17.80	\$ 53.9	\$ 960.2	\$ 145.0	\$ 1,160.0	\$ 2,120	
50	E301	E301	DIV-26	Electrician	LED Light Fixture Ceiling Mounted -A-11	14	0%	14	EA	1.737	24.32	\$ 53.9	\$ 1,311.9	\$ 120.6	\$ 1,688.3	\$ 3,000	
51	E101-E301	E101-E301	DIV-26	Electrician	8 FT Long P8E LED Light	9	0%	9	EA	2.830	25.47	\$ 53.9	\$ 1,373.8	\$ 380.0	\$ 3,420.0	\$ 4,794	
52	E101-E301	E101-E301	DIV-26	Electrician	8 FT Long P8 LED Light	19	0%	19	EA	2.414	45.87	\$ 53.9	\$ 2,474.8	\$ 350.0	\$ 6,649.8	\$ 9,125	
53	E101-E301	E101-E301	DIV-26	Electrician	4 FT Long P4 LED Light	2	0%	2	EA	2.007	4.01	\$ 53.9	\$ 216.5	\$ 180.0	\$ 359.9	\$ 576	
					Note : Lighting Schedule IS Attached												
					<b>Power Items</b>												
54	E301	E301	DIV-26	Electrician	New Nema 6-30,4Prong Outlet-7	1	0%	1	EA	0.756	0.76	\$ 53.9	\$ 40.8	\$ 8.5	\$ 8.5	\$ 49	
55	E101-E301	E101-E301	DIV-26	Electrician	LED Downlights (C,D)	8	0%	8	EA	2.022	16.18	\$ 53.9	\$ 872.6	\$ 145.0	\$ 1,160.0	\$ 2,033	
56	E101-E301	E101-E301	DIV-26	Electrician	Duplex Outlet	10	0%	10	EA	0.795	7.95	\$ 53.9	\$ 428.9	\$ 3.0	\$ 29.8	\$ 459	
57	E101-E301	E101-E301	DIV-26	Electrician	Duplex Receptacle AC\GFI\TR	9	0%	9	EA	0.825	7.43	\$ 53.9	\$ 400.6	\$ 5.7	\$ 51.3	\$ 452	
58	E101-E301	E101-E301	DIV-26	Electrician	Quad Receptacle TR/GFI Outlet	2	0%	2	EA	1.116	2.23	\$ 53.9	\$ 120.4	\$ 11.7	\$ 23.4	\$ 144	
59	E101-E301	E101-E301	DIV-26	Electrician	Single Phase Switch	3	0%	3	EA	0.954	2.86	\$ 53.9	\$ 154.4	\$ 3.3	\$ 9.8	\$ 164	
60	E101-E301	E101-E301	DIV-26	Electrician	Nema 6-50 Outlet	3	0%	3	EA	1.111	3.33	\$ 53.9	\$ 179.8	\$ 8.9	\$ 26.8	\$ 207	
61	E101-E301	E101-E301	DIV-26	Electrician	Dimmer Switch	1	0%	1	EA	1.742	1.74	\$ 53.9	\$ 94.0	\$ 11.7	\$ 11.7	\$ 106	
62	E101-E301	E101-E301	DIV-26	Electrician	Connection of Circuit With Chiller	1	0%	1	EA	1.440	1.44	\$ 53.9	\$ 77.7		\$ -	\$ 78	
63	E101-E301	E101-E301	DIV-26	Electrician	Unswitched Hot legs With Light Fixture	8	0%	8	EA	0.854	6.83	\$ 53.9	\$ 368.6	\$ 32.0	\$ 255.9	\$ 624	

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64	E301	E301	DIV-26	Electrician	Line Voltage Wall Mounted Vacancy Sensor	2	0%	2	EA	1.320	2.64	\$ 53.9	\$ 142.4	\$ 96.3	\$ 192.5	\$ 335		
65	E301	E301	DIV-26	Electrician	Line Voltage Ceiling Mounted Occupancy Sensor	1	0%	1	EA	1.182	1.18	\$ 53.9	\$ 63.8	\$ 70.0	\$ 70.0	\$ 134		
					<b>Panel</b>													
66	E101-E301	E101-E301	DIV-26	Electrician	Nema-3R 100A Panel	1	0%	1	EA	4.711	4.71	\$ 53.9	\$ 254.2	\$ 278.0	\$ 278.0	\$ 532		
67	E101-E301	E101-E301	DIV-26	Electrician	100A MLO Panel Surface Mounted	5	0%	5	EA	4.274	21.37	\$ 53.9	\$ 1,153.0	\$ 239.0	\$ 1,195.0	\$ 2,348		
68	E101-E301	E101-E301	DIV-26	Electrician	100A MCB Panel & Serve it From 4SPD	2	0%	2	EA	4.814	9.63	\$ 53.9	\$ 519.4	\$ 297.0	\$ 594.0	\$ 1,113		
69	E101-E301	E101-E301	DIV-26	Electrician	225A MLO Panel	3	0%	3	EA	6.672	20.02	\$ 53.9	\$ 1,079.8	\$ 447.0	\$ 1,341.0	\$ 2,421		
70	E101-E301	E101-E301	DIV-26	Electrician	400A-MLO Panel	4	0%	4	EA	7.440	29.76	\$ 53.9	\$ 1,605.5	\$ 590.0	\$ 2,360.0	\$ 3,965		
71	E101-E301	E101-E301	DIV-26	Electrician	600A MCB Panel	2	0%	2	EA	9.936	19.87	\$ 53.9	\$ 1,072.0	\$ 3,360.0	\$ 6,720.0	\$ 7,792		
72	E101-E301	E101-E301	DIV-26	Electrician	600A Distribution Panel	1	0%	1	EA	9.578	9.58	\$ 53.9	\$ 516.7	\$ 2,080.0	\$ 2,080.0	\$ 2,597		
73	E101-E301	E101-E301	DIV-26	Electrician	600A-MLO Distribution panel	2	0%	2	EA	9.578	19.16	\$ 53.9	\$ 1,033.5	\$ 2,080.0	\$ 4,160.0	\$ 5,193		
74	E101-E301	E101-E301	DIV-26	Electrician	1200A Surface Mounted Distribution Panel	1	0%	1	EA	11.586	11.59	\$ 53.9	\$ 625.0	\$ 6,689.7	\$ 6,689.7	\$ 7,315		
					<b>Transformer</b>													
75	E101-E301	E101-E301	DIV-26	Electrician	225KVA Transformer	2	0%	2	EA	22.500	45.00	\$ 53.9	\$ 2,427.6	\$ 29,833.1	\$ 59,666.2	\$ 62,094		
76	E101-E301	E101-E301	DIV-26	Electrician	500 KVA Transformer	1	0%	1	EA	35.000	35.00	\$ 53.9	\$ 1,888.2	\$ 53,501.2	\$ 53,501.2	\$ 55,389		
					<b>Allowances</b>													
77	E101-E301	E101-E301	DIV-26	Electrician	Allowance For Wiring	8,910	5%	9,356	LF	0.015	140.33	\$ 53.9	\$ 7,570.5	\$ 0.2	\$ 1,871.1	\$ 9,442		
78	E101-E301	E101-E301	DIV-26	Electrician	Allowance For Conduits	2,970	5%	3,119	LF	0.050	155.93	\$ 53.9	\$ 8,411.7	\$ 2.0	\$ 6,237.0	\$ 14,649		
79			DIV-26	Electrician	<b>Additional cost based on GIA</b>	375,090	5%	393,844	SF	0.010	3,938.44	\$ 52.2	\$ 205,584.2	\$ 0.3	\$ 118,153.3	\$ 323,737		
			<b>DIV-28</b>		<b>Electronic Safety and Security</b>												<b>\$ 68,538</b>	
					<b>Telecommunication</b>													
80	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	Smoke Detector -SD	13	0%	13	EA	2.561	33.29	\$ 53.9	\$ 1,796.1	\$ 121.3	\$ 1,577.3	\$ 3,373		
81	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	Technology Data Outlet -D2	19	0%	19	EA	0.282	5.36	\$ 53.9	\$ 289.0	\$ 8.8	\$ 167.8	\$ 457		
82	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	Card Reader	4	0%	4	EA	1.015	4.06	\$ 53.9	\$ 219.0	\$ 160.0	\$ 639.8	\$ 859		
83	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	Junction Box ( V.I.R)	4	0%	4	EA	1.006	4.02	\$ 53.9	\$ 217.0	\$ 11.1	\$ 44.4	\$ 261		
84	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	Door Contact -DC	14	0%	14	EA	0.780	10.92	\$ 53.9	\$ 589.1	\$ 16.3	\$ 228.8	\$ 818		
85	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	ADA Push Button-ADA	3	0%	3	EA	0.900	2.70	\$ 53.9	\$ 145.7	\$ 39.0	\$ 117.0	\$ 263		
86	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	Door Release Button-DR	1	0%	1	EA	0.660	0.66	\$ 53.9	\$ 35.6	\$ 33.5	\$ 33.5	\$ 69		
87	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	Aiphone Video Intercom Door Station-AI	1	0%	1	EA	3.568	3.57	\$ 53.9	\$ 192.5	\$ 1,500.0	\$ 1,500.0	\$ 1,692		
88	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	Faceplate With 4 Ports (19)	19	0%	19	EA	0.390	7.41	\$ 53.9	\$ 399.7	\$ 3.0	\$ 56.4	\$ 456		
89	T100-T301	T100-T301	DIV-28	Electrician (Low Volt.)	Double Gang Box With 1 Gang Box Reducer(19)	19	0%	19	EA	0.806	15.32	\$ 53.9	\$ 826.6	\$ 10.0	\$ 189.6	\$ 1,016		
90			DIV-28	Electrician (Low Volt.)	<b>Additional cost based on GIA</b>	375,090	5%	393,844	SF	0.002	787.69	\$ 65.2	\$ 51,396.0	\$ 0.0	\$ 7,876.9	\$ 59,273		
<b>SUB TOTAL</b>											<b>Total Lab. Hours =</b>	<b>6,721</b>	<b>Total Lab</b>	<b>\$ 330,529</b>	<b>Total Mat. Co</b>	<b>\$ 296,448</b>	<b>\$ 626,977</b>	<b>\$ 603,713</b>
<b>MATERIAL TAX</b>												<b>9.5%</b>			<b>\$ 28,163</b>	<b>\$ 28,163</b>	<b>\$ 28,163</b>	
<b>OVERHEAD AND PR</b>												<b>25%</b>		<b>\$ 82,632</b>	<b>\$ 74,112</b>	<b>\$ 156,744</b>	<b>\$ 156,744</b>	
<b>TOTAL BASE BID</b>													<b>\$ 413,161</b>		<b>\$ 398,722</b>	<b>\$ 811,883</b>	<b>\$ 788,620</b>	

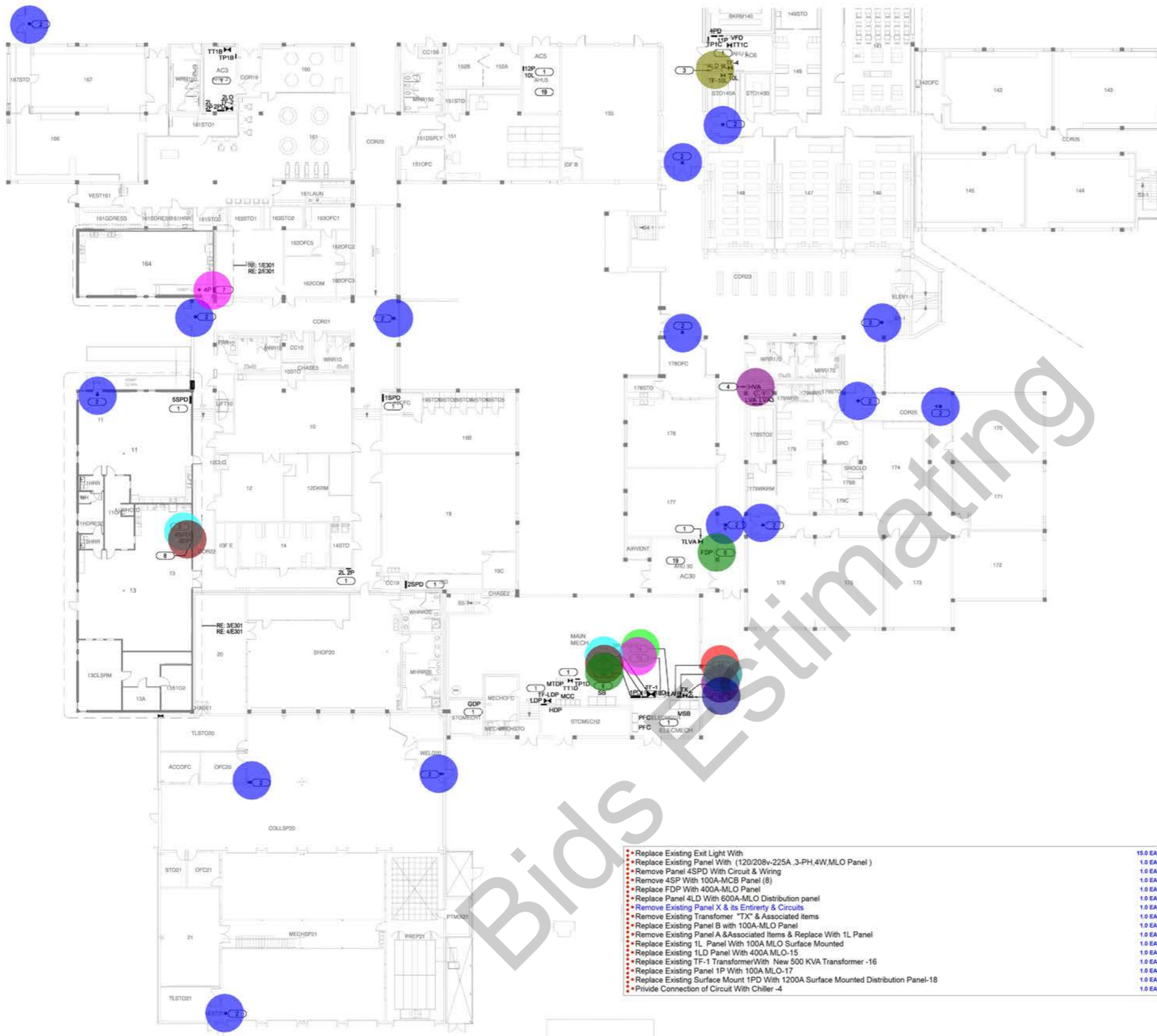


**GENERAL NOTES**

1. CONTRACTOR SHALL COORDINATE ALL POWER OUTAGES WITH OWNER A MINIMUM OF 72 HOURS PRIOR TO OUTAGE. CONTRACTOR SHALL NOT PROCEED WITH OUTAGE WITHOUT OWNER WRITTEN APPROVAL. OWNER SHALL COORDINATE ANY CRITICAL LOADS THAT ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION WITH THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
2. REFER TO "T" AND "TS" SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS AND ROOM-IN LOCATIONS TO BE INSTALLED BY DIV. 26 CONTRACTOR.
3. INSTALL A DEDICATED NEUTRAL FOR EACH 120V OR 277V BRANCH CIRCUIT.

**KEYED NOTES - ELECTRICAL**

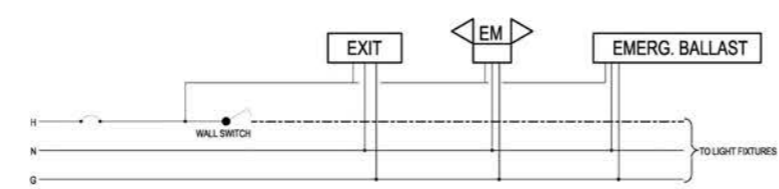
1. EXISTING ELECTRICAL EQUIPMENT IN SPACE TO REMAIN UNLESS OTHERWISE NOTED.
2. REPLACE EXISTING EXIT LIGHT WITH EXIT LIGHT LITHONIA MODEL #LQMGW3GMVOLTENSD AT SAME LOCATION AS EXISTING FIXTURE. EXISTING EXIT LIGHTS SHALL BE REMOVED IN THEIR ENTIRETY AND ALL ASSOCIATED LOW VOLTAGE WIRING TO BE REMOVED IN ITS ENTIRETY. CONTRACTOR TO SERVE NEW EXIT LIGHT FROM EXISTING LIGHTING CIRCUIT SERVING EXISTING LIGHTING IN THE SPACE. CONTRACTOR SHALL PULL UN-SWITCHED HOTLEG FROM EXISTING CIRCUIT AND CONNECT TO NEW EXIT LIGHT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS. SEE DETAIL 2 BELOW. NEW EXIT LIGHT SHALL BE INSTALLED IN THE SAME ORIENTATION AND SHALL HAVE DIRECTIONAL CHEVRONS TO MATCH EXISTING.
3. REPLACE EXISTING SURFACE MOUNTED DISTRIBUTION PANEL 4LD AT THIS LOCATION WITH NEW 277/480V, 600A MLO DISTRIBUTION PANEL AT SAME LOCATION. EXISTING CONDUIT SERVING PANEL SHALL REMAIN. CONTRACTOR TO REMOVE EXISTING FEEDER CONDUCTORS IN THEIR ENTIRETY BACK TO SOURCE AND REPLACE THEM WITH TWO SETS OF 4#350KCMIL #1GND. EXISTING LOADS NOT BEING REPLACED SHALL BE RECONNECTED TO NEW PANEL AT THE SAME BREAKER LOCATION AS THE EXISTING PANEL.
4. REPLACE EXISTING SURFACE MOUNTED DISTRIBUTION PANEL HVA AT THIS LOCATION WITH NEW 277/480V, 225A MLO PANEL AT SAME LOCATION. EXISTING CONDUIT SERVING PANEL SHALL REMAIN. CONTRACTOR TO REMOVE EXISTING FEEDER CONDUCTORS IN THEIR ENTIRETY BACK TO SOURCE AND REPLACE THEM WITH 4#350KCMIL #1GND. EXISTING LOADS NOT BEING REPLACED SHALL BE RECONNECTED TO NEW PANEL AT THE SAME BREAKER LOCATION AS THE EXISTING PANEL.
5. REMOVE EXISTING PANEL 4SPD IN ITS ENTIRETY. REMOVE ALL ASSOCIATED BRANCH CIRCUIT WIRING IN ITS ENTIRETY. CONTRACTOR SHALL VERIFY THAT PANEL DOES NOT SERVE ANY LOAD EXISTING LOADS THAT ARE TO REMAIN. EXISTING FEEDER CONDUIT SHALL BE REUSED TO SERVE NEW PANEL 4SP.
6. REPLACE EXISTING SURFACE MOUNTED DISTRIBUTION PANEL FDP AT THIS LOCATION WITH NEW 277/480V, 400A MLO DISTRIBUTION PANEL AT SAME LOCATION. EXISTING CONDUIT SERVING PANEL SHALL REMAIN. CONTRACTOR TO REMOVE EXISTING FEEDER CONDUCTORS IN THEIR ENTIRETY BACK TO SOURCE AND REPLACE THEM WITH 4#350KCMIL #1GND. EXISTING LOADS NOT BEING REPLACED SHALL BE RECONNECTED TO NEW PANEL AT THE SAME BREAKER LOCATION AS THE EXISTING PANEL.
7. REPLACE EXISTING RECESSED PANEL 4P AT THIS LOCATION WITH NEW 120/208V, 225A, 3-PH, 4W, MLO PANEL AT SAME LOCATION. EXISTING FEEDER CONDUIT TO REMAIN AND SHALL BE RE-USED. CONTRACTOR TO REMOVE EXISTING FEEDER CONDUCTORS IN THEIR ENTIRETY BACK TO PANEL 2PD AND REPLACE THEM WITH 4#350KCMIL #1GND IN EXISTING CONDUIT AND TERMINATE AT EXISTING 200A3P BREAKER IN PANEL 2PD. EXISTING LOADS NOT BEING REPLACED SHALL BE RECONNECTED TO NEW PANEL 4P AT THE SAME BREAKER LOCATION AS THE EXISTING PANEL.
8. REPLACE EXISTING RECESSED PANEL 4SP AT THIS LOCATION WITH NEW 120/208V, 100A, 3-PH, 4W PANEL WITH 100A MCB AT SAME LOCATION. EXISTING PANEL 4SP IS SERVED FROM PANEL 4SPD. EXISTING FEEDER CONDUCTORS IN THEIR ENTIRETY TO SOURCE. CONTRACTOR TO INTERCEPT EXISTING CONDUIT SERVING EXISTING PANEL 4SPD BEING REMOVED AND RE-USE TO SERVE NEW PANEL 4SP. INSTALL 4#350KCMIL #1GND IN EXISTING FEEDER CONDUIT THAT SERVED PANEL 4SPD AND TERMINATE AT 100A3P BREAKER IN NEW PANEL 4SP. EXISTING LOADS NOT BEING REPLACED SHALL BE RECONNECTED TO NEW PANEL 4SP AT THE SAME BREAKER LOCATION AS THE EXISTING PANEL.
9. EXISTING 277/480V, 3PH, 4W, 2000A SWITCHBOARD TO REMAIN.
10. REMOVE EXISTING PANEL "X" IN ITS ENTIRETY. ALL EXISTING EXIT LIGHT CIRCUITS SHALL BE REMOVED IN THEIR ENTIRETY. ALL OTHER LOADS SERVED FROM PANEL SHALL BE SERVED FROM NEW PANEL "B". CONTRACTOR TO EXTEND CONDUIT AND BRANCH CIRCUIT WIRING FOR LOADS SERVED FROM PANEL "X" TO NEW PANEL "B". CONDUIT AND BRANCH CIRCUIT WIRING TO MATCH EXISTING.
11. REMOVE EXISTING TRANSFORMER "TX" IN ITS ENTIRETY. REMOVE ALL ASSOCIATED CONDUIT IN ITS ENTIRETY TO THE GREATEST EXTENT POSSIBLE. REMOVE ALL ASSOCIATED PRIMARY AND SECONDARY FEEDER CONDUCTORS IN THEIR ENTIRETY.
12. REPLACE EXISTING SURFACE MOUNTED PANEL B AT THIS LOCATION WITH NEW 120/208V, 100A MLO PANEL AT SAME LOCATION. REMOVE EXISTING CONDUIT AND BRANCH FEEDER CONDUCTORS SERVING PANEL IN THEIR ENTIRETY. INSTALL NEW FEEDER WITH 4#350KCMIL #1GND IN EXISTING CONDUIT. EXISTING LOADS NOT BEING REPLACED SHALL BE RECONNECTED TO NEW PANEL AT THE SAME BREAKER LOCATION AS THE EXISTING PANEL.
13. REMOVE EXISTING PANEL A IN ITS ENTIRETY. REMOVE ASSOCIATED FEEDER CONDUIT AND CONDUCTORS IN THEIR ENTIRETY BACK TO SOURCE. ALL EXISTING BRANCH CIRCUITS SHALL BE RECONNECTED TO NEW PANEL 1L LOCATED NEXT TO PANEL A. CONTRACTOR SHALL INVESTIGATE AND IDENTIFY EXISTING CIRCUITS ROUTED THROUGH EXISTING CONTACTORS AND EXTEND CIRCUIT FROM NEW PANEL THROUGH EXISTING CONTACTORS TO CONTROL EXTERIOR LIGHTING.
14. REPLACE EXISTING PANEL 1L WITH NEW 277/480V, 100A MLO SURFACE MOUNTED PANEL AT SAME LOCATION. REMOVE ASSOCIATED FEEDER CONDUCTORS IN THEIR ENTIRETY BACK TO SOURCE. ALL EXISTING BRANCH CIRCUITS SHALL BE RECONNECTED TO NEW PANEL 1L. CONTRACTOR SHALL INVESTIGATE AND IDENTIFY EXISTING CIRCUITS ROUTED THROUGH EXISTING CONTACTORS AND EXTEND CIRCUIT FROM NEW PANEL THROUGH EXISTING CONTACTORS TO CONTROL EXTERIOR LIGHTING.
15. REPLACE EXISTING SURFACE MOUNTED DISTRIBUTION PANEL 1LD AT THIS LOCATION WITH NEW 277/480V, 400A 3PH, 4W, MLO SURFACE MOUNTED DISTRIBUTION PANEL AT SAME LOCATION. EXISTING CONDUIT SERVING PANEL SHALL REMAIN. CONTRACTOR TO REMOVE EXISTING FEEDER CONDUCTORS IN THEIR ENTIRETY BACK TO SOURCE AND REPLACE THEM WITH 4#350KCMIL #1GND. EXISTING LOADS NOT BEING REPLACED SHALL BE RECONNECTED TO NEW PANEL AT THE SAME BREAKER LOCATION AS THE EXISTING PANEL.
16. REPLACE EXISTING TRANSFORMER TF-1 WITH NEW 500KVA TRANSFORMER NEAR SAME LOCATION AS EXISTING. REMOVE ALL ASSOCIATED FEEDER CONDUCTORS ON THE PRIMARY AND SECONDARY SIDE OF THE TRANSFORMER IN THEIR ENTIRETY. EXISTING FEEDER CONDUITS ON PRIMARY SIDE OF TRANSFORMER SHALL REMAIN AND SHALL BE REUSED TO SERVE NEW TRANSFORMER TF-1. REMOVE EXISTING WIREWAY ON SECONDARY SIDE OF TRANSFORMER SERVING EXISTING PANEL 1PD IN ITS ENTIRETY. INSTALL NEW TRANSFORMER TF-1 ON 4" CONCRETE HOUSEKEEPING PAD. PAD TO EXTEND NOT MORE THAN 4" BEYOND THE DIMENSIONS OF THE TRANSFORMER. REPLACE EXISTING PRIMARY FEEDER CONDUCTORS WITH TWO SETS OF 3#350KCMIL #1GND IN EXISTING CONDUITS AND TERMINATE ON LINE SIDE OF TRANSFORMER AND LOAD SIDE OF EXISTING 600A3P BREAKER IN SWITCHBOARD 88.
17. REPLACE EXISTING SURFACE MOUNTED PANEL 1P AT THIS LOCATION WITH NEW 120/208V, 100A, 3PH, 4W, MLO PANEL AT SAME LOCATION. REMOVE EXISTING CONDUIT AND BRANCH FEEDER CONDUCTORS SERVING PANEL IN THEIR ENTIRETY. INSTALL NEW FEEDER WITH 4#350KCMIL #1GND IN EXISTING CONDUIT. EXISTING LOADS NOT BEING REPLACED SHALL BE RECONNECTED TO NEW PANEL 1P AT THE SAME BREAKER LOCATION AS THE EXISTING PANEL.
18. REPLACE EXISTING SURFACE MOUNTED DISTRIBUTION PANEL 1PD AT THIS LOCATION WITH NEW 277/480V, 1000A, 3PH, 4W SURFACE MOUNTED DISTRIBUTION PANEL WITH 1200A MAIN CIRCUIT BREAKER AT SAME LOCATION. REMOVE EXISTING FEEDER CONDUIT AND CONDUCTORS SERVING PANEL IN THEIR ENTIRETY BACK TO SOURCE. INSTALL NEW FEEDER FROM SECONDARY SIDE OF TRANSFORMER TF-1 CONSISTING OF FOUR SETS OF 4#350KCMIL #1GND, 3" C. EXISTING LOADS NOT BEING REPLACED SHALL BE RECONNECTED TO NEW PANEL AT THE SAME BREAKER LOCATION AS THE EXISTING PANEL.
19. EXISTING HVAC UNITS IN SPACE TO BE REPLACED WITH NEW UNITS AT SAME LOCATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO RECONNECT NEW HVAC UNITS TO SAME CIRCUITS SERVING EXISTING UNITS. REMOVE DURING DEMOLITION. CONTRACTOR TO PROVIDE ALL CONDUIT, FITTINGS, WIRING, ETC. AS REQUIRED FOR RECONNECTION OF UNIT TO EXISTING CIRCUITS. SIZE OF CONDUIT AND WIRING TO MATCH EXISTING. CONTRACTOR SHALL VERIFY THAT EXISTING CIRCUIT IS ADEQUATE FOR NEW UNITS PRIOR TO THE START OF CONSTRUCTION.



- Replace Existing Exit Light With
- Replace Existing Panel With (120/208v-225A, 3-PH,4W,MLO Panel )
- Remove Panel 4SPD With Circuit & Wiring
- Remove 4SP With 100A-MCB Panel (8)
- Replace FDP With 400A-MLO Panel
- Replace Panel 4LD With 600A-MLO Distribution panel
- Remove Existing Panel X & its Entirety & Circuits
- Remove Existing Transformer "TX" & Associated Items
- Replace Existing Panel B with 100A-MLO Panel
- Remove Existing Panel A & Associated Items & Replace With 1L Panel
- Replace Existing 1L Panel With 100A MLO Surface Mounted
- Replace Existing 1LD Panel With 400A MLO-15
- Replace Existing TF-1 Transformer With New 500 KVA Transformer -16
- Replace Existing Panel 1P With 100A MLO-17
- Replace Existing Surface Mount 1PD With 1200A Surface Mounted Distribution Panel-18
- Provide Connection of Circuit With Chiller-4

- 15.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA

**1 ELECTRICAL PLAN - FIRST FLOOR AREA A**  
SCALE: 1/8" = 1'-0"



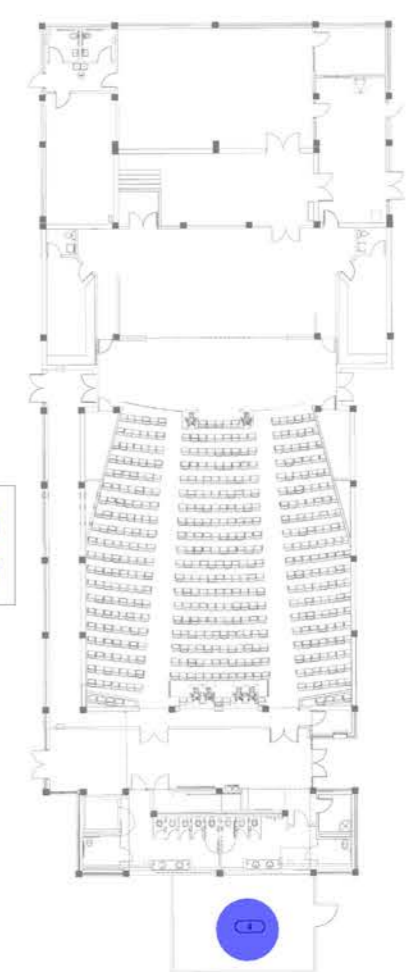
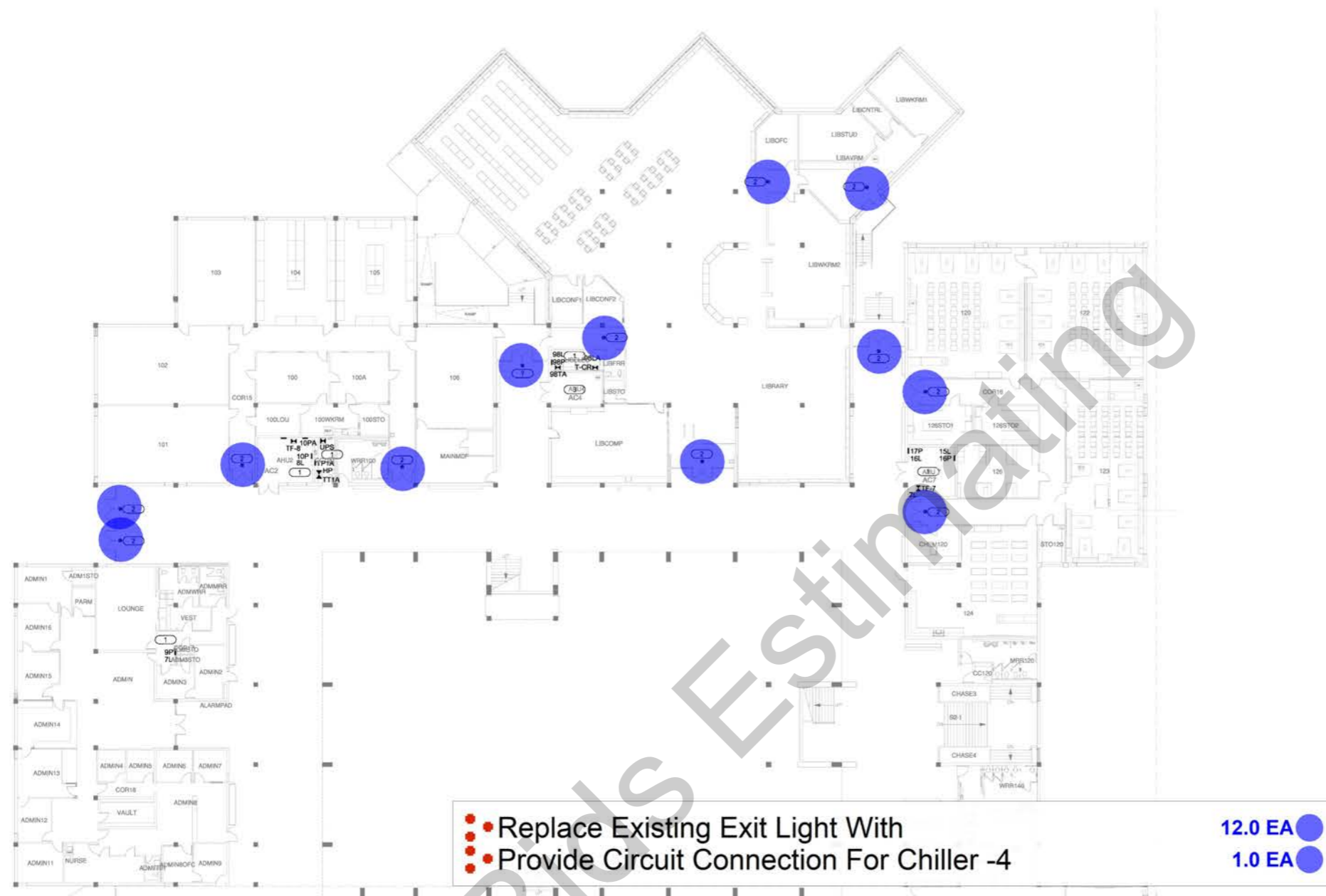
**2 EMERGENCY FIXTURE WIRING DIAGRAM**  
SCALE: NONE

**GENERAL NOTES**

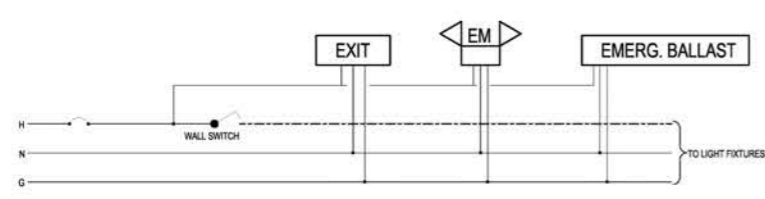
1. CONTRACTOR SHALL COORDINATE ALL POWER OUTAGES WITH OWNER A MINIMUM OF 72 HOURS PRIOR TO OUTAGE. CONTRACTOR SHALL NOT PROCEED WITH OUTAGE WITHOUT OWNER WRITTEN APPROVAL. OWNER SHALL COORDINATE ANY CRITICAL LOADS THAT ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION WITH THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
2. REFER TO "T" AND "TS" SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS AND ROUGH-IN LOCATIONS TO BE INSTALLED BY DIV. 26 CONTRACTOR.
3. INSTALL A DEDICATED NEUTRAL FOR EACH 120V OR 277V BRANCH CIRCUIT.

**KEYED NOTES - ELECTRICAL**

1. EXISTING ELECTRICAL EQUIPMENT IN SPACE TO REMAIN UNLESS OTHERWISE NOTED.
2. REPLACE EXISTING EXIT LIGHT WITH EXIT LIGHT LITHONIA MODEL #LQM2W3GMVOLTENSD AT SAME LOCATION AS EXISTING FIXTURE. EXISTING EXIT LIGHTS SHALL BE REMOVED IN THEIR ENTIRETY AND ALL ASSOCIATED LOW VOLTAGE WIRING TO BE REMOVED IN ITS ENTIRETY. CONTRACTOR TO SERVE NEW EXIT LIGHT FROM EXISTING LIGHTING CIRCUIT SERVING EXISTING LIGHTING IN THE SPACE. CONTRACTOR SHALL PULL UN-SWITCHED HOT/LEG FROM EXISTING CIRCUIT AND CONNECT TO NEW EXIT LIGHT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS. SEE DETAIL 2 BELOW. NEW EXIT LIGHT SHALL BE INSTALLED IN THE SAME ORIENTATION AND SHALL HAVE DIRECTIONAL CHEVRONS TO MATCH EXISTING.
3. EXISTING HVAC UNIT(S) IN SPACE TO BE REPLACED WITH NEW UNITS AT SAME LOCATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO RECONNECT NEW HVAC UNIT(S) TO SAME CIRCUIT(S) SERVING EXISTING UNIT(S) REMOVED DURING DEMOLITION. CONTRACTOR TO PROVIDE ALL CONDUIT, FITTINGS, WIRING, ETC. AS REQUIRED FOR RECONNECTION OF UNIT TO EXISTING CIRCUIT(S). SIZE OF CONDUIT AND WIRING TO MATCH EXISTING. CONTRACTOR SHALL VERIFY THAT EXISTING CIRCUIT IS ADEQUATE FOR NEW UNIT(S) PRIOR TO THE START OF CONSTRUCTION.
4. EXISTING CHILLER TO BE REPLACED WITH NEW CHILLER AT SAME LOCATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO RECONNECT NEW CHILLER TO SAME CIRCUIT SERVING EXISTING UNIT REMOVED DURING DEMOLITION. CONTRACTOR TO PROVIDE ALL CONDUIT, FITTINGS, WIRING, ETC. AS REQUIRED FOR RECONNECTION OF UNIT TO EXISTING CIRCUIT. SIZE OF CONDUIT AND WIRING TO MATCH EXISTING. CONTRACTOR SHALL VERIFY THAT EXISTING CIRCUIT IS ADEQUATE FOR NEW CHILLER PRIOR TO THE START OF CONSTRUCTION.



**1 ELECTRICAL PLAN - FIRST FLOOR AREA B**  
SCALE: 1/8" = 1'-0"



**2 EMERGENCY FIXTURE WIRING DIAGRAM**  
SCALE: NONE

**3 ELECTRICAL PLAN - FIRST FLOOR AREA D**  
SCALE: 1/8" = 1'-0"

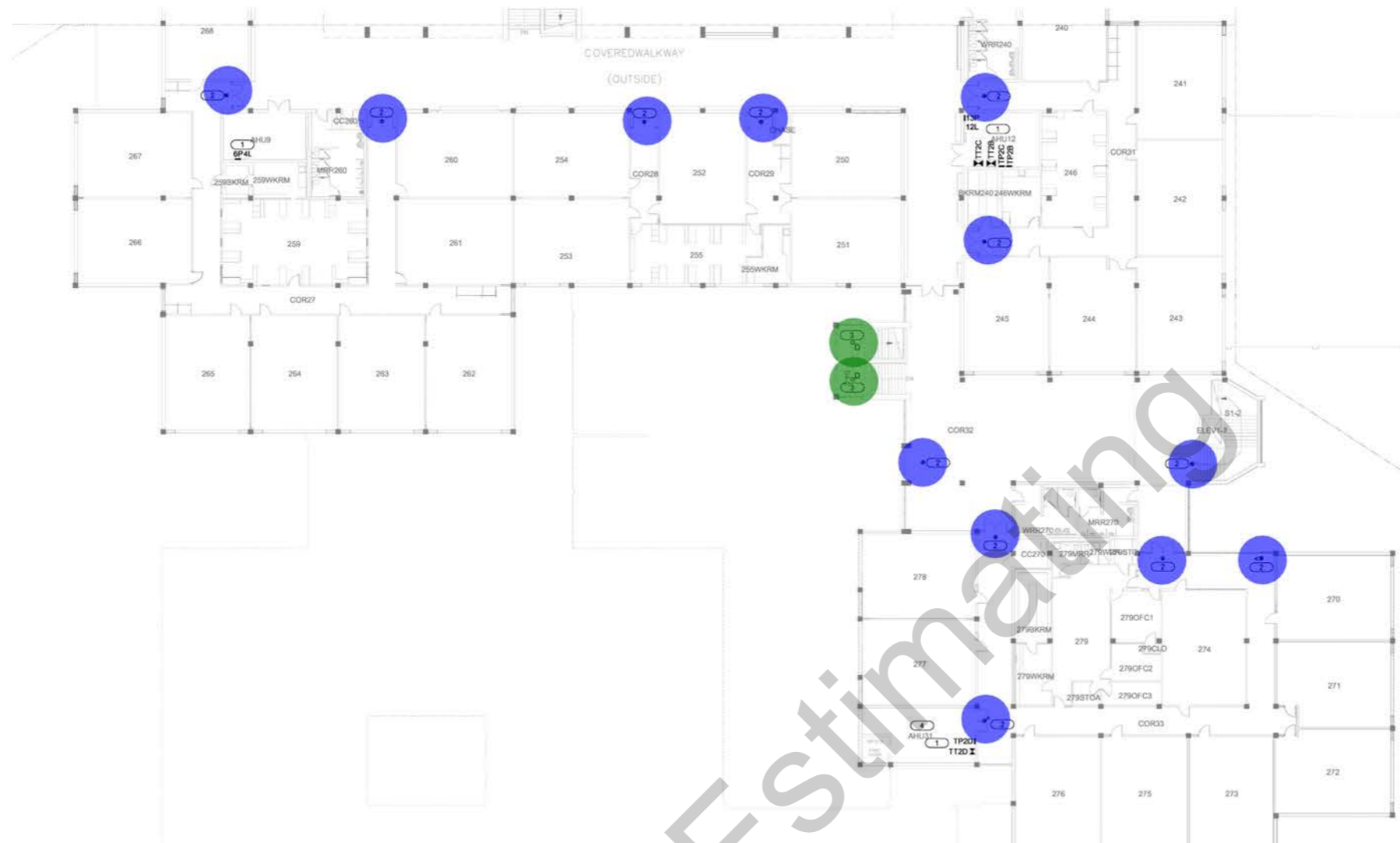


**GENERAL NOTES**

1. CONTRACTOR SHALL COORDINATE ALL POWER OUTAGES WITH OWNER A MINIMUM OF 72 HOURS PRIOR TO OUTAGE. CONTRACTOR SHALL NOT PROCEED WITH OUTAGE WITHOUT OWNER WRITTEN APPROVAL. OWNER SHALL COORDINATE ANY CRITICAL LOADS THAT ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION WITH THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
2. REFER TO "T" AND "T2" SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS AND ROOM-IN-LOCATIONS TO BE INSTALLED BY DIV. 26 CONTRACTOR.
3. INSTALL A DEDICATED NEUTRAL FOR EACH 120V OR 277V BRANCH CIRCUIT.

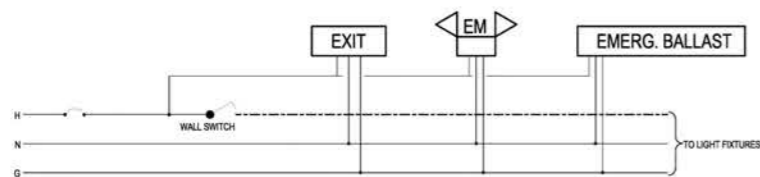
**KEYED NOTES - ELECTRICAL**

1. EXISTING ELECTRICAL EQUIPMENT IN SPACE TO REMAIN UNLESS OTHERWISE NOTED.
2. REPLACE EXISTING EXIT LIGHT WITH EXIT LIGHT LITHONIA MODEL #LQM2V3GMVOLTLENSD AT SAME LOCATION AS EXISTING FIXTURE. EXISTING EXIT LIGHTS SHALL BE REMOVED IN THEIR ENTIRETY AND ALL ASSOCIATED LOW VOLTAGE WIRING TO BE REMOVED IN ITS ENTIRETY. CONTRACTOR TO SERVE NEW EXIT LIGHT FROM EXISTING LIGHTING CIRCUIT SERVING EXISTING LIGHTING IN THE SPACE. CONTRACTOR SHALL PULL UNSWITCHED HOTLEG FROM EXISTING CIRCUIT AND CONNECT TO NEW EXIT LIGHT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS. SEE DETAIL 2 BELOW. NEW EXIT LIGHT SHALL BE INSTALLED IN THE SAME ORIENTATION AND SHALL HAVE DIRECTIONAL CHEVRONS TO MATCH EXISTING.
3. REPLACE EXISTING DOWN LIGHTS IN STAR WITH NEW DOWN LIGHTS AT SAME LOCATION. CONTRACTOR TO RECONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS. CONTRACTOR TO INSTALL UNSWITCHED HOTLEG TO EACH FIXTURE FOR CONNECTION TO EMERGENCY BATTERY PACK IN FIXTURE UPSTREAM OF CONTROLS. SEE DETAIL 2 BELOW.
4. EXISTING HVAC UNIT(S) IN SPACE TO BE REPLACED WITH NEW UNITS AT SAME LOCATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO RECONNECT NEW HVAC UNIT(S) TO SAME CIRCUIT(S) SERVING EXISTING UNIT(S) REMOVED DURING DEMOLITION. CONTRACTOR TO PROVIDE ALL CONDUIT, FITTINGS, WIRING, ETC. AS REQUIRED FOR RECONNECTION OF UNIT TO EXISTING CIRCUIT(S). SIZE OF CONDUIT AND WIRING TO MATCH EXISTING. CONTRACTOR SHALL VERIFY THAT EXISTING CIRCUIT IS ADEQUATE FOR NEW UNIT(S) PRIOR TO THE START OF CONSTRUCTION.



● Replace Existing Exit Light With  
● Replace Existing Downlight With New Lights  
● 12.0 EA  
● 2.0 EA

**1 ELECTRICAL PLAN - SECOND FLOOR AREA A**  
SCALE: 1/8" = 1'-0"



**2 EMERGENCY FIXTURE WIRING DIAGRAM**  
SCALE: NONE

**GENERAL NOTES**

1. CONTRACTOR SHALL COORDINATE ALL POWER OUTAGES WITH OWNER A MINIMUM OF 72 HOURS PRIOR TO OUTAGE. CONTRACTOR SHALL NOT PROCEED WITH OUTAGE WITHOUT OWNER WRITTEN APPROVAL. OWNER SHALL COORDINATE ANY CRITICAL LOADS THAT ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION WITH THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
2. REFER TO "T" AND "TS" SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS AND ROOM-IN-LOCATIONS TO BE INSTALLED BY DIV. 26 CONTRACTOR.
3. INSTALL A DEDICATED NEUTRAL FOR EACH 120V OR 277V BRANCH CIRCUIT.

**KEYED NOTES - ELECTRICAL**

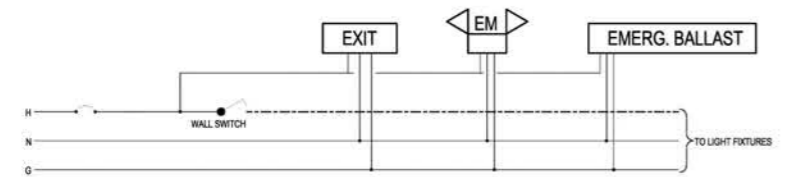
1. EXISTING ELECTRICAL EQUIPMENT IN SPACE TO REMAIN UNLESS OTHERWISE NOTED.
2. REPLACE EXISTING EXIT LIGHT WITH EXIT LIGHT LITHONIA MODEL #LQM2W3GMVOLT/ELNSD AT SAME LOCATION AS EXISTING FIXTURE. EXISTING EXIT LIGHTS SHALL BE REMOVED IN THEIR ENTIRETY AND ALL ASSOCIATED LOW VOLTAGE WIRING TO BE REMOVED IN ITS ENTIRETY. CONTRACTOR TO SERVE NEW EXIT LIGHT FROM EXISTING LIGHTING CIRCUIT SERVING EXISTING LIGHTING IN THE SPACE. CONTRACTOR SHALL PULL UN-SWITCHED HOT/LEG FROM EXISTING CIRCUIT AND CONNECT TO NEW EXIT LIGHT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS. SEE DETAIL 2 BELOW. NEW EXIT LIGHT SHALL BE INSTALLED IN THE SAME ORIENTATION AND SHALL HAVE DIRECTIONAL CHEVRONS TO MATCH EXISTING.
3. REPLACE EXISTING SURFACE MOUNTED 277/480V DISTRIBUTION PANEL 3LD AT THIS LOCATION WITH NEW 277/480V, 400A, MLO DISTRIBUTION PANEL AT SAME LOCATION. EXISTING CONDUIT SERVING PANEL SHALL REMAIN. CONTRACTOR TO REMOVE EXISTING FEEDER CONDUCTORS IN THEIR ENTIRETY BACK TO SOURCE AND REPLACE THEM WITH #4SSJKCML #42ND. EXISTING BRANCH CIRCUIT WIRING SHALL BE RECONNECTED TO NEW PANEL AT THE SAME LOCATION AS THE EXISTING PANEL.
4. REPLACE EXISTING DOWN LIGHTS IN STAR WITH NEW DOWN LIGHTS AT SAME LOCATION. CONTRACTOR TO RECONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS. CONTRACTOR TO INSTALL UNSWITCHED HOT/LEG TO EACH FIXTURE FOR CONNECTION TO EMERGENCY BATTERY PACK IN FIXTURE UPSTREAM OF CONTROLS. SEE DETAIL 2 BELOW.
5. EXISTING HVAC UNIT(S) IN SPACE TO BE REPLACED WITH NEW UNITS AT SAME LOCATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO RECONNECT NEW HVAC UNIT(S) TO SAME CIRCUIT(S) SERVING EXISTING UNIT(S) REMOVED DURING DEMOLITION. CONTRACTOR TO PROVIDE ALL CONDUIT, FITTINGS, WIRING, ETC. AS REQUIRED FOR RECONNECTION OF UNIT TO EXISTING CIRCUIT(S). SIZE OF CONDUIT AND WIRING TO MATCH EXISTING. CONTRACTOR SHALL VERIFY THAT EXISTING CIRCUIT IS ADEQUATE FOR NEW UNIT(S) PRIOR TO THE START OF CONSTRUCTION.

- Replace Existing Exit Light With
- Replace Existing Distribution Panel 3LD With 400A MLO -3
- Replace Existing Downlight With New Lights

9.0 EA ●  
 1.0 EA ●  
 6.0 EA ●



**1 ELECTRICAL PLAN - SECOND FLOOR AREA B**  
 SCALE: 1/8" = 1'-0"



**2 EMERGENCY FIXTURE WIRING DIAGRAM**  
 SCALE: NONE

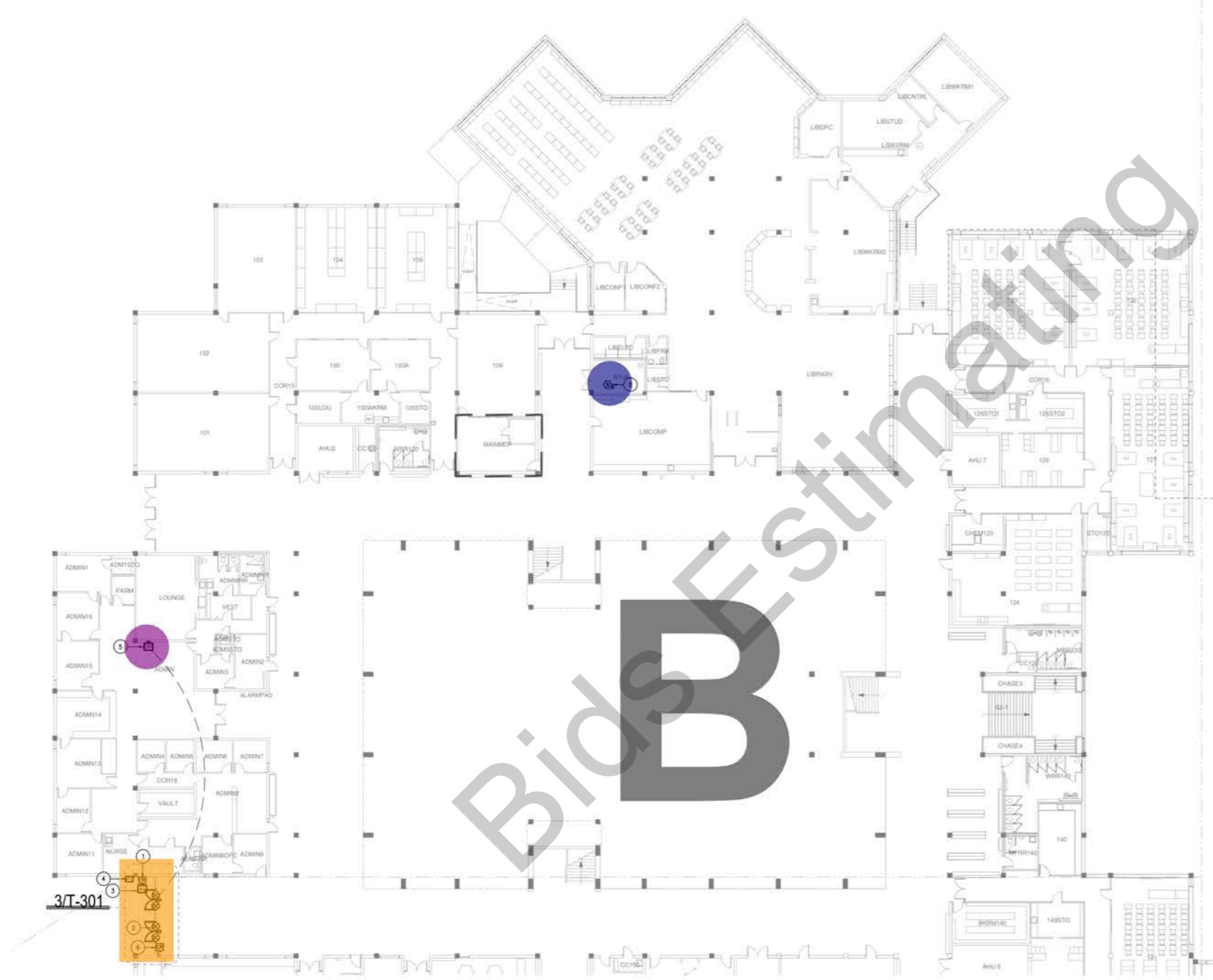






**SPECIAL SYSTEMS PLAN KEYED NOTES**

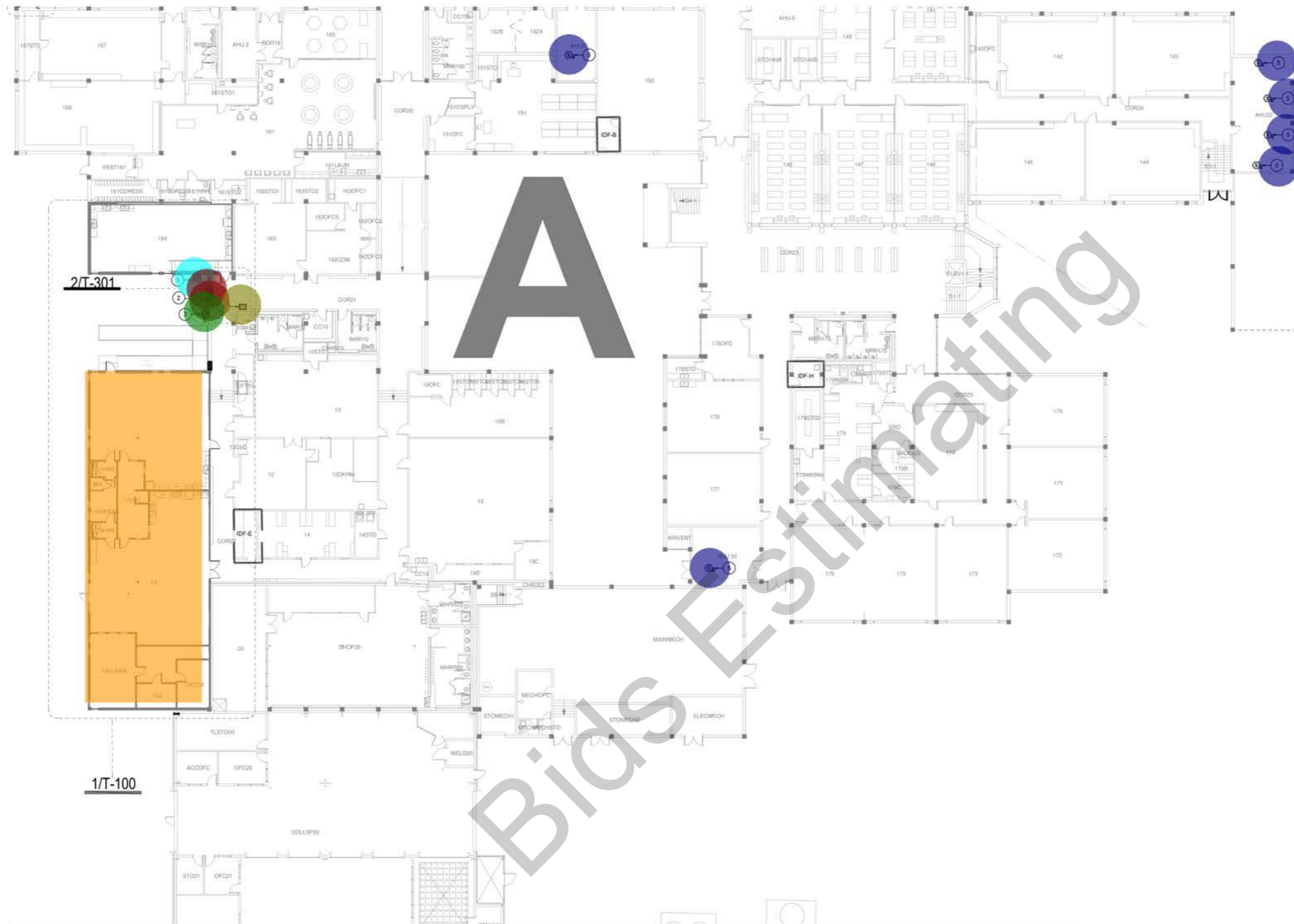
- ① INDICATES THE LOCATION OF A NEW CARD READER TO BE PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR.
  - ② INDICATES THE LOCATION OF A NEW DOOR CONTACT.
  - ③ INDICATES THE LOCATION OF A NEW AIPHONE VIDEO INTERCOM DOOR STATION CONNECTED TO A COMPUTER IN THE RECEPTION AREA WITH THE MASTER STATION SOFTWARE.
  - ④ INDICATES THE LOCATION OF A NEW ADA PUSH BUTTON TO BE TIED INTO THE EXISTING ACCESS CONTROL SYSTEM. SEE ARCHITECTURAL PLANS FOR THE ADA PUSH BUTTON INSTALLATION INFORMATION.
  - ⑤ INDICATES THE APPROXIMATE LOCATION OF A NEW DOOR RELEASE BUTTON ASSOCIATED TO THE INDICATED DOOR. RELEASE BUTTON TO BE LOCATED WITHIN THE ADMIN SUITE, FINAL LOCATION TO BE COORDINATED WITH AISD AND ARCHITECT.
  - ⑥ INDICATES THE LOCATION OF AN EXISTING CARD READER TO BE REMOVED. THE REMAINING BOX SHALL BE COVERED WITH A STAINLESS STEEL BLANK COVER PLATE.
- INDICATES THE LOCATION OF A NEW DUCT TYPE SMOKE DETECTOR PLACED INSIDE THE SUPPLY DUCT OF THE AHU. CONTRACTOR WILL COORDINATE THE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.



<ul style="list-style-type: none"> <li>• Smoke Detector -SD</li> <li>• Door Release Button-DR</li> </ul>	<p>1.0 EA <span style="color: blue;">●</span></p> <p>1.0 EA <span style="color: purple;">●</span></p>
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**SPECIAL SYSTEMS PLAN KEYED NOTES:**

- 1 INDICATES THE LOCATION OF A NEW CARD READER TO BE PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR.
- 2 INDICATES THE LOCATION OF A NEW DOOR CONTACT.
- 3 INDICATES THE LOCATION OF AN EXISTING CARD READER TO BE REMOVED. THE REMAINING BOX SHALL BE COVERED WITH A STAINLESS STEEL BLANK COVER PLATE.
- 4 INDICATES THE LOCATION OF A NEW ADA PUSH BUTTON TO BE TIED INTO THE EXISTING ACCESS CONTROL SYSTEM. SEE ARCHITECTURAL PLANS FOR THE ADA PUSH BUTTON INSTALLATION INFORMATION.
- 5 INDICATES THE LOCATION OF A NEW DUCT TYPE SMOKE DETECTOR PLACED INSIDE THE SUPPLY DUCT OF THE AHU. CONTRACTOR WILL COORDINATE THE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.



- Card Reader
- Door Contact -DC
- Remove Techonology Items
- ADA Push Button-ADA
- Smoke Detector -SD

- 1.0 EA ●
- 2.0 EA ●
- 1.0 EA ●
- 1.0 EA ●
- 6.0 EA ●

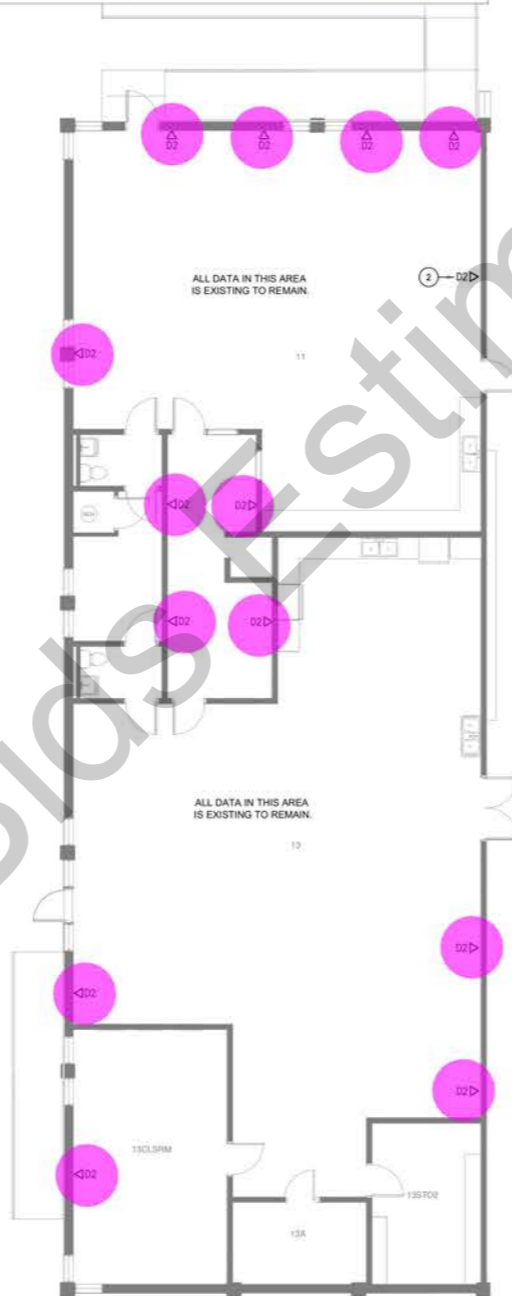




**SPECIAL SYSTEMS PLAN KEYED NOTES:**

- ① INDICATES THE LOCATION OF A NEW DATA OUTLET INSTALLED AT 18" A.F.F. AND RUN BACK TO THE NEAREST IDF CLOSET.
- ② INDICATES THE LOCATION OF AN EXISTING DATA OUTLET TO REMAIN.

- Technology Data Outlet -D2 ● 19.0 EA
- Faceplate With 4 Ports (19) ● 1.0 EA
- Double Gang Box With 1 Gang Box Reducer(19) ● 1.0 EA



TECHNOLOGY LEGEND		
GROUP	SYMBOL	DESCRIPTION
DEVICES	▽	INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH 4 PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. PROVIDE BLANK COVERS ON UNUSED PORTS. THE ANNOTATION 'D' INDICATES IT IS A DATA OUTLET. THE 'W' NEXT TO THE 'D' INDICATES THE NUMBER OF CABLES IN THE OUTLET. ELECTRICAL CONTRACTOR TO PROVIDE IN DOUBLE GANG BOX WITH 1 GANG REDUCER AND 1" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING.

NOTE:  
 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.  
 2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.  
 3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.  
 4. ALL CONDUIT STUB-OUTS SHALL BE EQUIPPED WITH A PLASTIC PROTECTIVE BUSHING TO PREVENT CABLE DAMAGE.

- TECHNOLOGY PLAN GENERAL NOTES**
- THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.
  - SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSIE/IA/TIA, BICSI, AND THE NEC.
  - ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
  - ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
  - ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING IN ANY PARALLEL OPEN WIRE RUN.
  - ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
  - ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER THE TECHNOLOGY DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND CONSULTANT.
  - ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
  - NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
  - CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
  - CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS. ENTER INTO ALL ROOMS FROM THE CORRIDOR ABOVE THE MAIN DOORWAY.
  - THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A J-HOOK CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, PIPING, OR DUCTWORK. CABLING SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING IN ANY LOCATION.
  - ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.
  - ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.

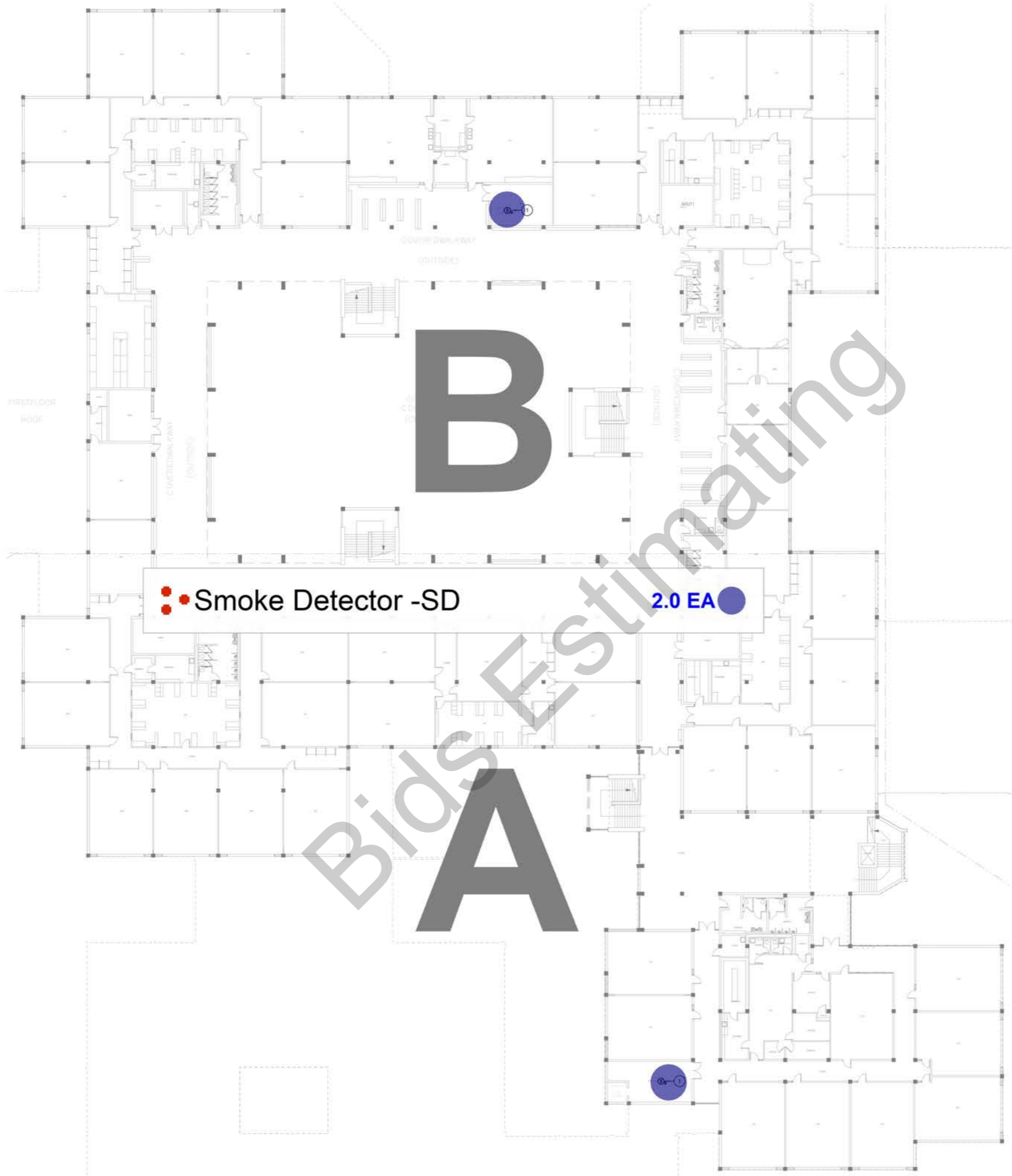
SPECIAL SYSTEMS LEGEND		
GROUP	SYMBOL	DESCRIPTION
DEVICES	ASB	ADA PUSH BUTTON
	ACR	ACCESS CONTROL PROXIMITY CARD READER. MOUNT AT 42" A.F.F. PROVIDE ALTRONIX LPD FOR EACH CARD READER.
	DRB	DOOR RELEASE BUTTON (TO BE CONNECTED TO DOOR INDICATED).
	CC	DOOR CONTACT. PROVIDE SURFACE MOUNT CONTACT ON ROLL-UP DOORS. PROVIDE DOOR CONTACT ON ALL ROOF HATCHES.

NOTE:  
 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.  
 2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.  
 3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

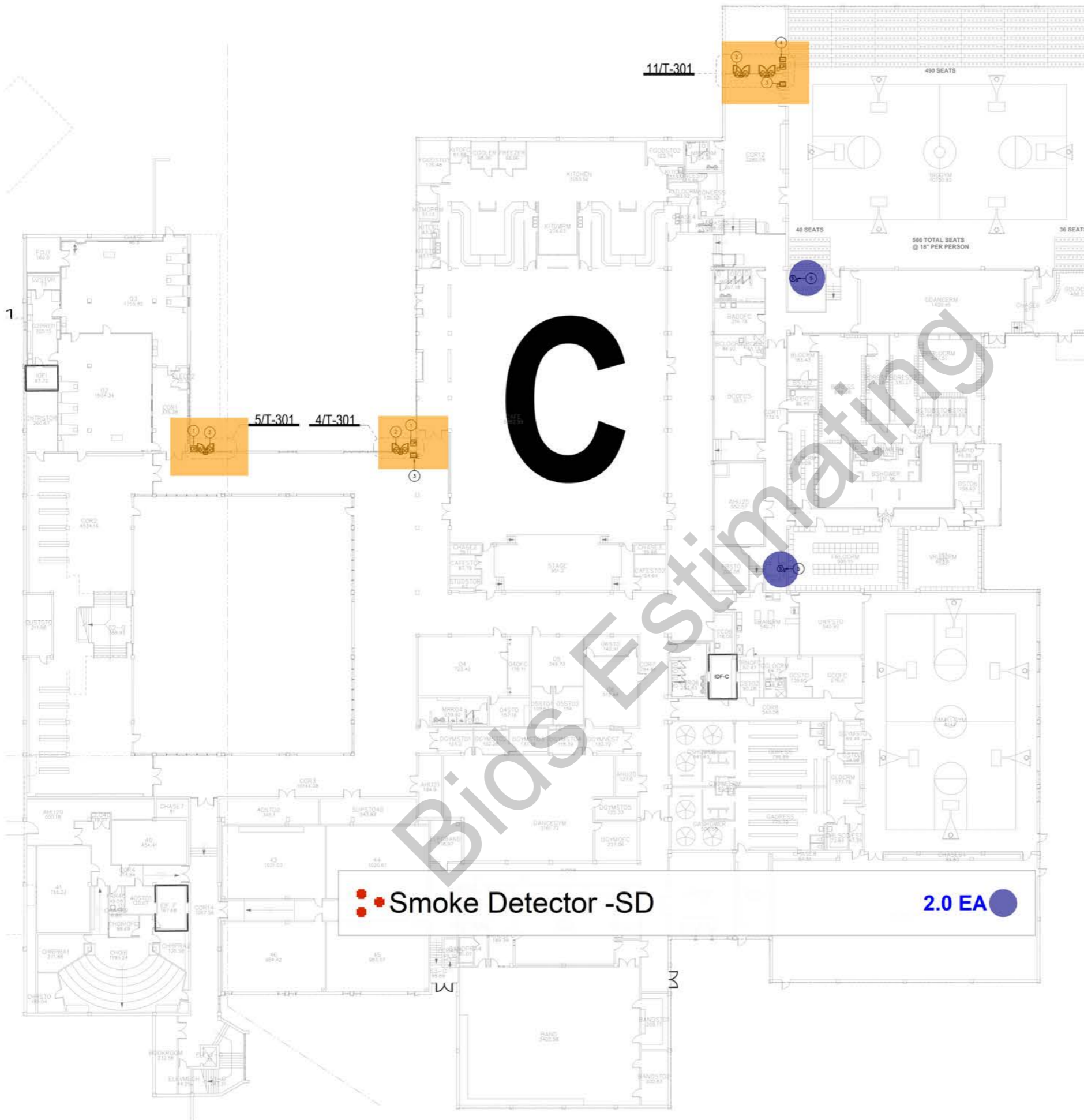
- SPECIAL SYSTEMS GENERAL NOTES**
- ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4"
  - ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
  - ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN.
  - ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.

**SPECIAL SYSTEMS PLAN KEYED NOTES:**

① INDICATES THE LOCATION OF A NEW DUCT TYPE SMOKE DETECTOR PLACED INSIDE THE SUPPLY DUCT OF THE AHU. CONTRACTOR WILL COORDINATE THE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.







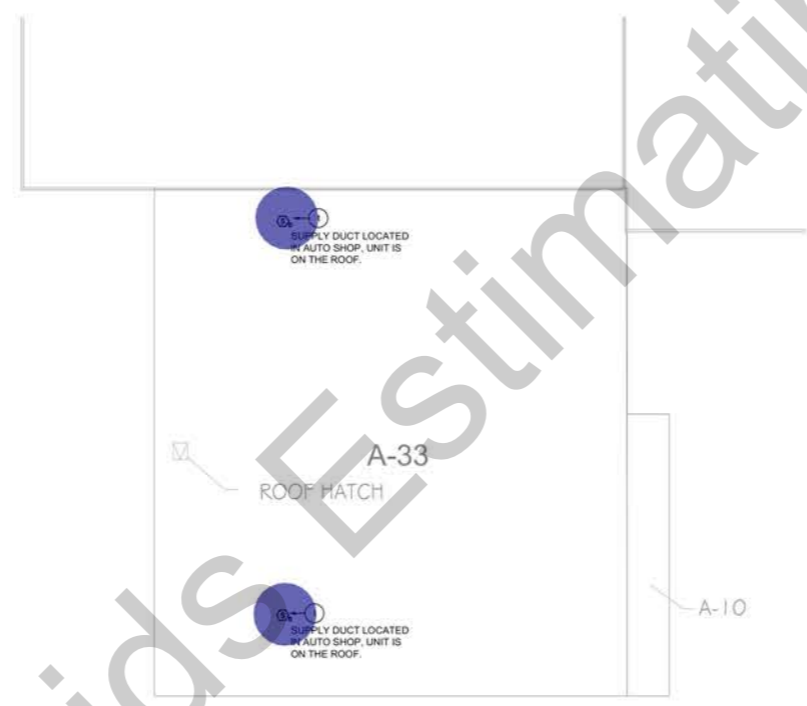
**SPECIAL SYSTEMS PLAN KEYED NOTES:**



- ① INDICATES THE LOCATION OF A NEW CARD READER TO BE PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR.
- ② INDICATES THE LOCATION OF A NEW DOOR CONTACT.
- ③ INDICATES THE LOCATION OF AN EXISTING ADA PUSH BUTTON.
- ④ INDICATES THE LOCATION OF A NEW ADA PUSH BUTTON TO BE TIED INTO THE EXISTING ACCESS CONTROL SYSTEM.
- ⑤ INDICATES THE LOCATION OF A NEW DUCT TYPE SMOKE DETECTOR PLACED INSIDE THE SUPPLY DUCT OF THE AHU. CONTRACTOR WILL COORDINATE THE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.

■ Smoke Detector -SD
 2.0 EA ●

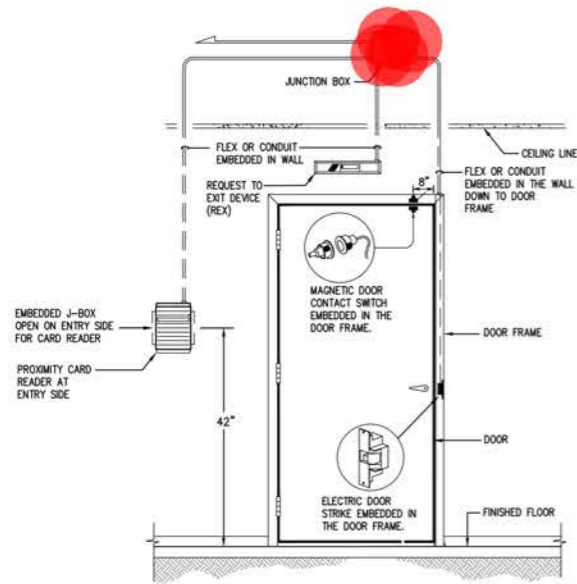
**SPECIAL SYSTEMS PLAN KEYED NOTES:**

- ① INDICATES THE LOCATION OF A NEW DUCT TYPE SMOKE DETECTOR PLACED INSIDE THE SUPPLY DUCT OF THE AHU. CONTRACTOR WILL COORDINATE THE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.

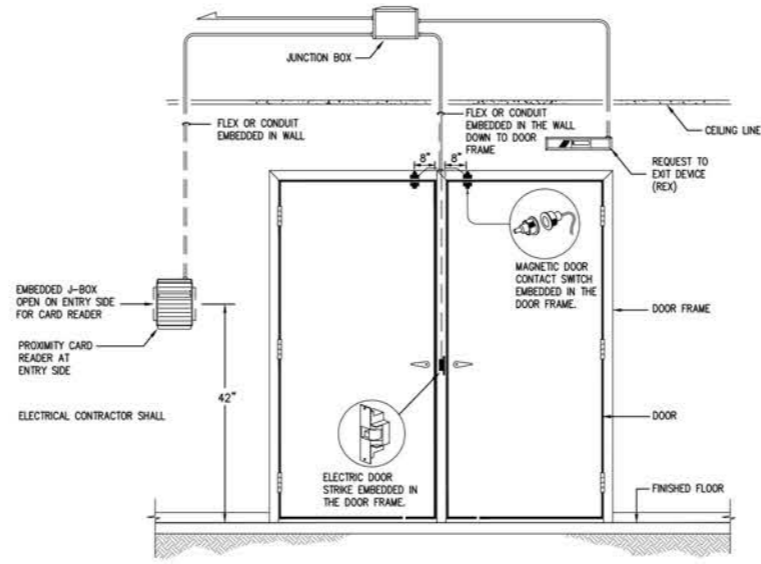


 Smoke Detector -SD      2.0 EA 

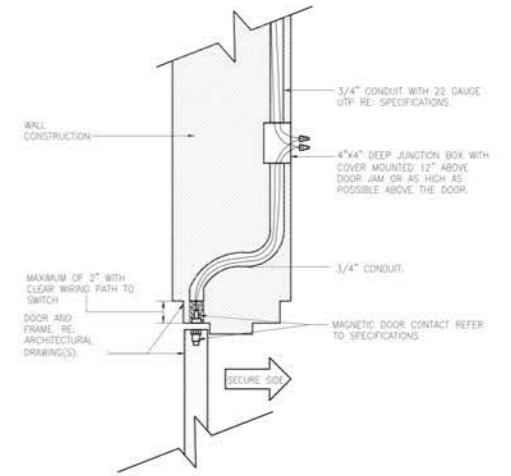




NOTE:  
ELECTRICAL CONTRACTOR TO COORDINATE ALL BOX AND CONDUIT REQUIRED ROUTING AND MOUNTING LOCATION WITH THE PROJECT'S CONSULTANT PRIOR TO ROUGH-IN. THE ACCESS CONTROL SYSTEM, INCLUDING ACCESS CONTROL CABLING AND CARD READERS, IS NOT PART OF THIS BASE PROPOSAL. THIS DETAIL IS FOR CONDUIT AND BACK BOX ROUGH-IN ONLY.



NOTE:  
ELECTRICAL CONTRACTOR TO COORDINATE ALL BOX AND CONDUIT REQUIRED ROUTING AND MOUNTING LOCATION WITH THE PROJECT'S CONSULTANT PRIOR TO ROUGH-IN. THE ACCESS CONTROL SYSTEM, INCLUDING ACCESS CONTROL CABLING AND CARD READERS, IS NOT PART OF THIS BASE PROPOSAL. THIS DETAIL IS FOR CONDUIT AND BACK BOX ROUGH-IN ONLY.



24 SINGLE DOOR CARD READER INTERFACE DETAIL  
N.T.S.

22 DOUBLE DOOR CARD READER INTERFACE DETAIL  
N.T.S.

20 DOOR CONTACT DETAIL  
N.T.S.

- Remove Techonology Items
- Door Contact -DC
- Card Reader
- ADA Push Button-ADA
- Aiphone Video Intercom Door Station-AI
- Junction Box ( V.I.R)

- 1.0 EA
- 12.0 EA
- 3.0 EA
- 2.0 EA
- 1.0 EA
- 4.0 EA

**DOOR GENERAL NOTES**

1. REFER TO SPECIFICATIONS FOR HARDWARE SETS
2. REFER TO TECHNOLOGY DRAWINGS FOR CARD ACCESS DOOR LOCATIONS
3. REFER TO A-101A FOR DOOR, WINDOW AND FRAME ELEVATIONS
4. ALL DOUBLE DOORS, INCLUDING CARD-ACCESS DOORS, SHALL HAVE REMOVABLE CENTER MILLIONS, UNLCO.
5. DOOR CLOSERS AND OVERHEAD STOPS SHALL BE THROUGH-BOLTED.
6. WHERE HARDWARE SET IS ELECTRIFIED OR USED IN CONJUNCTION WITH A CARD READER, TIE IN HARDWARE TO EXISTING CAMPUS SECURITY WIRING. PROVIDE APPROPRIATE WIRING AND PROGRAMMING TO ENSURE A COMPLETE FUNCTIONING AND SECURE HARDWARE SET.

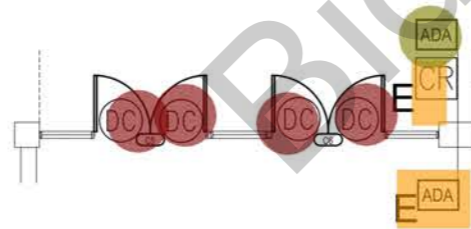
**DOOR HARDWARE KEY**  
 OF - OFFICE (SET LOCK AND UNLOCK WITH PUSH BUTTON ON DOOR EDGE)  
 ST - STORAGE (ALWAYS LOCKS)  
 PP - PUSH-PULL (NO LOCK AND NO LATCH)  
 PS - PASSAGE (NO LOCK, LATCH AND LEVEL HARDWARE)  
 PC - PANIC  
 CR - STANDARD (SET LOCK AND UNLOCK WITH KEY)

**DOOR SCHEDULE REMARKS**

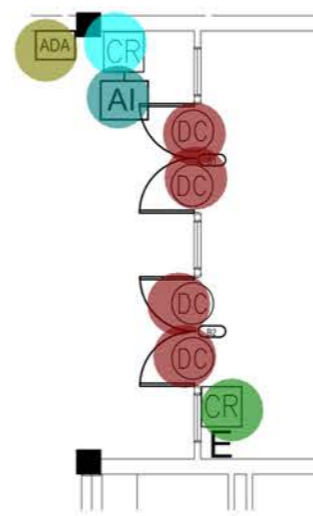
1. PAINT EXISTING DOOR FRAME. PREPARE OPENING TO RECEIVE NEW DOOR AND HARDWARE
2. PAINT EXISTING DOOR AND FRAME.
3. PAINT EXISTING FRAME
4. 30"X STAINLESS STEEL KICK PLATE
5. HORIZONTAL BLINDS
6. INSTALL DOOR CLOSER
7. WEATHER PROOF THRESHOLD SEAL
8. EXISTING DOOR HARDWARE TO REMAIN
9. ELECTRONIC CONTROLLED ACCESS HARDWARE WITH CARD READER
10. PATCH, PREP FRAME FOR NEW HARDWARE

**DOOR SCHEDULE**

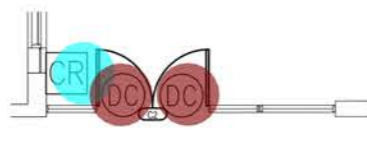
MARK	PANEL PAIR (PR)SINGLE (SGL)	HARDWARE SET	REMARKS
A1	PR	PC	9, 10
B1	PR	PC	9, 10
B2	PR	PC	9, 10
C2	PR	PC	9, 10
C3	PR	PC	9, 10
C5	PR	PC	9, 10
C6	PR	PC	9, 10



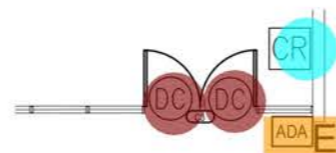
11 ENLARGED PLAN - AREA C  
1/4" = 1'-0"



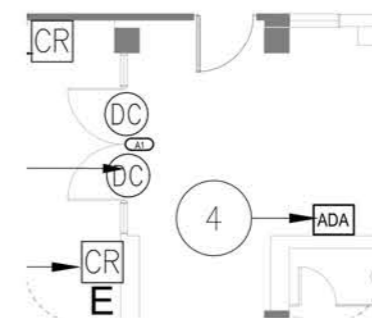
3 ENLARGED PLAN - AREA B  
1/4" = 1'-0"



5 ENLARGED PLAN - AREA C  
1/4" = 1'-0"



4 ENLARGED PLAN - AREA C  
1/4" = 1'-0"



2 ENLARGED PLAN - AREA A  
1/4" = 1'-0"