

GENERAL SUMMARY (HOTEL)

Prepared for: 0
 Project ID:
 Scope: MEP
 No. Of Floors: 4
 Date: 08/30/23



BUILDING GSF		13,407		
DIVISION NO.	DESCRIPTION	HOTEL	RESTAURANT	TOTAL
1000	General Requirments	\$ 962,000	\$ 444,000	\$ 1,406,000
22000	Plumbing	\$ 675,945	\$ 115,641	\$ 791,585
23000	HVAC	\$ 641,514	\$ 50,680	\$ 692,194
26000	Electrical	\$ 1,568,654	\$ 53,917	\$ 1,622,570
TOTAL TRADE COST		\$ 3,848,112	\$ 664,237	\$ 4,512,350
OVERHEAD AND PROFIT	15%	\$ 577,217	\$ 99,635.59	\$ 676,852.43
INSURANCE	3%	\$ 115,443	\$ 19,927	\$ 135,370
CONTINGENCY	5%	\$ 192,406	\$ 33,212	\$ 225,617
TAX	7%	\$ 0	\$ 8,154	\$ 8,154
TOTAL TRADE COST		\$ 4,733,178	\$ 825,166	\$ 5,558,344

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 70,000.00	\$ 70,000.00
2			Supervision and Coordination	LS	10	0%	10	0.000	\$ -	\$ -	\$ -	\$ 50,000.00	\$ 500,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 22,000.00	\$ 22,000.00
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 35,000.00	\$ 35,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 225,000.00	\$ 225,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 92,000.00	\$ 92,000.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 18,000.00	\$ 18,000.00
												SUBTOTAL	\$ 962,000

PLUMBING

COLD WATER PIPE (BELOW GRADE)													
Type "K" Soft Annealed Copper Tube, ASTM B 88M													
8			6" Dia Cold Water Pipe	LF	6	10%	6	0.075	\$ 72.00	\$ 5.40	\$ 245.00	\$ 250.40	\$ 1,547.97
COLD WATER PIPE FITTINGS:													
ELBOW:													
9			6" Dia Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	0.650	\$ 72.00	\$ 46.80	\$ 537.19	\$ 583.99	\$ 583.99
COLD WATER PIPE (ABOVE GRADE)													
Type "L" Hard Drawn Copper Tube, ASTM B 88M													
10			1/2" Dia Cold Water Pipe	LF	3235	10%	3559	0.035	\$ 72.00	\$ 2.52	\$ 4.18	\$ 6.70	\$ 23,849.07
11			3/4" Dia Cold Water Pipe	LF	47	10%	52	0.042	\$ 72.00	\$ 3.02	\$ 5.44	\$ 8.46	\$ 441.69
12			1" Dia Cold Water Pipe	LF	83	10%	91	0.045	\$ 72.00	\$ 3.24	\$ 5.31	\$ 8.55	\$ 781.60
13			1-1/2" Dia Cold Water Pipe	LF	52	10%	57	0.052	\$ 72.00	\$ 3.74	\$ 9.69	\$ 13.43	\$ 768.42
14			2" Dia Cold Water Pipe	LF	200	10%	220	0.055	\$ 72.00	\$ 3.96	\$ 20.40	\$ 24.36	\$ 5,359.20
15			2-1/2" Dia Cold Water Pipe	LF	124	10%	136	0.068	\$ 72.00	\$ 4.90	\$ 24.65	\$ 29.55	\$ 4,029.42
16			3" Dia Cold Water Pipe	LF	72	10%	79	0.075	\$ 72.00	\$ 5.40	\$ 34.00	\$ 39.40	\$ 3,120.48
17			4" Dia Cold Water Pipe	LF	54	10%	60	0.088	\$ 72.00	\$ 6.34	\$ 63.75	\$ 70.09	\$ 4,195.49
18			6" Dia Cold Water Pipe	LF	16	10%	17	0.095	\$ 72.00	\$ 6.84	\$ 175.10	\$ 181.94	\$ 3,148.11
		Assumed	3/4" Thick Fiberglass Insulation										
19			1/2" Dia Cold Water Pipe	LF	3235	10%	3559	0.058	\$ 72.00	\$ 4.18	\$ 3.33	\$ 7.51	\$ 26,710.10
20			3/4" Dia Cold Water Pipe	LF	47	10%	52	0.067	\$ 72.00	\$ 4.82	\$ 5.22	\$ 10.04	\$ 524.14
21			1" Dia Cold Water Pipe	LF	83	10%	91	0.070	\$ 72.00	\$ 5.04	\$ 6.62	\$ 11.66	\$ 1,065.28
22			1-1/2" Dia Cold Water Pipe	LF	52	10%	57	0.073	\$ 72.00	\$ 5.26	\$ 9.83	\$ 15.09	\$ 862.92
23			2" Dia Cold Water Pipe	LF	200	10%	220	0.076	\$ 72.00	\$ 5.47	\$ 14.57	\$ 20.04	\$ 4,408.51
24			2-1/2" Dia Cold Water Pipe	LF	124	10%	136	0.079	\$ 72.00	\$ 5.69	\$ 21.43	\$ 27.12	\$ 3,698.30
25			3" Dia Cold Water Pipe	LF	72	10%	79	0.083	\$ 72.00	\$ 5.94	\$ 29.33	\$ 35.27	\$ 2,793.38
26			4" Dia Cold Water Pipe	LF	54	10%	60	0.085	\$ 72.00	\$ 6.12	\$ 40.66	\$ 46.78	\$ 2,800.34
27			6" Dia Cold Water Pipe	LF	16	10%	17	0.092	\$ 72.00	\$ 6.62	\$ 55.29	\$ 61.91	\$ 1,071.30
COLD WATER PIPE FITTINGS:													
ELBOW:													
28			1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	373	0%	373	0.350	\$ 72.00	\$ 25.20	\$ 2.95	\$ 28.15	\$ 10,499.95
29			1" Dia Cold Water Pipe 90 Deg Elbow	EA	9	0%	9	0.380	\$ 72.00	\$ 27.36	\$ 16.00	\$ 43.36	\$ 390.24
30			1-1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	6	0%	6	0.420	\$ 72.00	\$ 30.24	\$ 37.00	\$ 67.24	\$ 403.44
31			2" Dia Cold Water Pipe 90 Deg Elbow	EA	19	0%	19	0.440	\$ 72.00	\$ 31.68	\$ 66.00	\$ 97.68	\$ 1,855.92
32			2-1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	12	0%	12	0.480	\$ 72.00	\$ 34.56	\$ 121.00	\$ 155.56	\$ 1,866.72
33			3" Dia Cold Water Pipe 90 Deg Elbow	EA	10	0%	10	0.520	\$ 72.00	\$ 37.44	\$ 174.00	\$ 211.44	\$ 2,114.40
34			4" Dia Cold Water Pipe 90 Deg Elbow	EA	4	0%	4	0.550	\$ 72.00	\$ 39.60	\$ 375.00	\$ 414.60	\$ 1,658.40
35			6" Dia Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	0.650	\$ 72.00	\$ 46.80	\$ 2,000.00	\$ 2,046.80	\$ 2,046.80
TEE:													

DETAILED BREAKDOWN OF ITEMS

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Project ID:
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Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
36			1/2" Dia Cold Water Pipe Tee	EA	162	0%	162	0.550	\$ 72.00	\$ 39.60	\$ 1.89	\$ 41.49	\$ 6,721.38
37			3/4" Dia Cold Water Pipe Tee	EA	1	0%	1	0.580	\$ 72.00	\$ 41.76	\$ 11.90	\$ 53.66	\$ 53.66
38			1-1/2" Dia Cold Water Pipe Tee	EA	1	0%	1	0.650	\$ 72.00	\$ 46.80	\$ 74.50	\$ 121.30	\$ 121.30
39			2" Dia Cold Water Pipe Tee	EA	9	0%	9	0.670	\$ 72.00	\$ 48.24	\$ 118.00	\$ 166.24	\$ 1,496.16
40			2-1/2" Dia Cold Water Pipe Tee	EA	6	0%	6	0.690	\$ 72.00	\$ 49.68	\$ 217.00	\$ 266.68	\$ 1,600.08
41			3" Dia Cold Water Pipe Tee	EA	4	0%	4	0.720	\$ 72.00	\$ 51.84	\$ 315.00	\$ 366.84	\$ 1,467.36
42			4" Dia Cold Water Pipe Tee	EA	3	0%	3	0.755	\$ 72.00	\$ 54.36	\$ 735.00	\$ 789.36	\$ 2,368.08
43			3/4" / 1/2" Dia Cold Water Pipe Tee	EA	7	0%	7	0.622	\$ 72.00	\$ 44.78	\$ 18.45	\$ 63.23	\$ 442.64
44			1" / 1/2" Dia Cold Water Pipe Tee	EA	2	0%	2	0.688	\$ 72.00	\$ 49.54	\$ 87.50	\$ 137.04	\$ 274.07
45			2" / 3/4" Dia Cold Water Pipe Tee	EA	1	0%	1	0.712	\$ 72.00	\$ 51.26	\$ 150.00	\$ 201.26	\$ 201.26
46			2-1/2" / 1/2" Dia Cold Water Pipe Tee	EA	4	0%	4	0.745	\$ 72.00	\$ 53.64	\$ 415.00	\$ 468.64	\$ 1,874.56
47			2" / 1" Dia Cold Water Pipe Tee	EA	4	0%	4	0.788	\$ 72.00	\$ 56.74	\$ 150.00	\$ 206.74	\$ 826.94
48			3" / 2" Dia Cold Water Pipe Tee	EA	2	0%	2	0.835	\$ 72.00	\$ 60.12	\$ 470.00	\$ 530.12	\$ 1,060.24
49			3" / 1-1/2" Dia Cold Water Pipe Tee	EA	2	0%	2	0.825	\$ 72.00	\$ 59.40	\$ 315.00	\$ 374.40	\$ 748.80
50			4" / 3/4" Dia Cold Water Pipe Tee	EA	1	0%	1	0.965	\$ 72.00	\$ 69.48	\$ 325.00	\$ 394.48	\$ 394.48
			REDUCER:										
51			3/4" / 1/2" Dia Cold Water Pipe Reducer	EA	4	0%	4	0.288	\$ 72.00	\$ 20.74	\$ 18.45	\$ 39.19	\$ 156.74
52			1" / 1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.300	\$ 72.00	\$ 21.60	\$ 87.50	\$ 109.10	\$ 109.10
53			1-1/2" / 1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.320	\$ 72.00	\$ 23.04	\$ 92.00	\$ 115.04	\$ 115.04
54			2" / 1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.350	\$ 72.00	\$ 25.20	\$ 150.00	\$ 175.20	\$ 175.20
55			2" / 1" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.380	\$ 72.00	\$ 27.36	\$ 150.00	\$ 177.36	\$ 177.36
56			2" / 1-1/2" Cold Water Pipe Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 172.00	\$ 200.80	\$ 200.80
57			2-1/2" / 2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 415.00	\$ 443.80	\$ 443.80
58			3" / 1-1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.420	\$ 72.00	\$ 30.24	\$ 470.00	\$ 500.24	\$ 500.24
59			3" / 2-1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.480	\$ 72.00	\$ 34.56	\$ 462.00	\$ 496.56	\$ 496.56
60			4" / 2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.552	\$ 72.00	\$ 39.74	\$ 622.00	\$ 661.74	\$ 661.74
61			4" / 3" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.566	\$ 72.00	\$ 40.75	\$ 725.00	\$ 765.75	\$ 765.75
			HOT WATER PIPE (ABOVE GRADE)										
			Type "L" Hard Drawn Copper Tube, ASTM B 88M										
62			1/2" Dia Hot Water Pipe	LF	2432	10%	2675	0.035	\$ 72.00	\$ 2.52	\$ 4.18	\$ 6.70	\$ 17,929.19
63			3/4" Dia Hot Water Pipe	LF	5	10%	5	0.042	\$ 72.00	\$ 3.02	\$ 5.44	\$ 8.46	\$ 45.34
64			1" Dia Hot Water Pipe	LF	85	10%	93	0.045	\$ 72.00	\$ 3.24	\$ 5.31	\$ 8.55	\$ 797.12
65			1-1/2" Dia Hot Water Pipe	LF	49	10%	54	0.052	\$ 72.00	\$ 3.74	\$ 9.69	\$ 13.43	\$ 724.09
66			2" Dia Hot Water Pipe	LF	186	10%	205	0.055	\$ 72.00	\$ 3.96	\$ 20.40	\$ 24.36	\$ 4,984.06
67			2-1/2" Dia Hot Water Pipe	LF	169	10%	186	0.068	\$ 72.00	\$ 4.90	\$ 24.65	\$ 29.55	\$ 5,503.65
68			3" Dia Hot Water Pipe	LF	73	10%	81	0.075	\$ 72.00	\$ 5.40	\$ 34.00	\$ 39.40	\$ 3,185.06
		Size Assumed	3/4" Thick Fiberglass Insulation										
69			1/2" Dia Hot Water Pipe	LF	2432	10%	2675	0.058	\$ 72.00	\$ 4.18	\$ 3.33	\$ 7.51	\$ 20,080.05
70			3/4" Dia Hot Water Pipe	LF	5	10%	5	0.067	\$ 72.00	\$ 4.82	\$ 5.22	\$ 10.04	\$ 53.81
71			1" Dia Hot Water Pipe	LF	85	10%	93	0.070	\$ 72.00	\$ 5.04	\$ 6.62	\$ 11.66	\$ 1,086.44
72			1-1/2" Dia Hot Water Pipe	LF	49	10%	54	0.073	\$ 72.00	\$ 5.26	\$ 9.83	\$ 15.09	\$ 813.14
73			2" Dia Hot Water Pipe	LF	186	10%	205	0.076	\$ 72.00	\$ 5.47	\$ 14.57	\$ 20.04	\$ 4,099.91
74			2-1/2" Dia Hot Water Pipe	LF	169	10%	186	0.079	\$ 72.00	\$ 5.69	\$ 21.43	\$ 27.12	\$ 5,051.38
75			3" Dia Hot Water Pipe	LF	73	10%	81	0.083	\$ 72.00	\$ 5.94	\$ 29.33	\$ 35.27	\$ 2,851.19
			HOT WATER PIPE FITTINGS:										
			ELBOW:										
76			1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	309	0%	309	0.350	\$ 72.00	\$ 25.20	\$ 2.95	\$ 28.15	\$ 8,698.35
77			1" Dia Hot Water Pipe 90 Deg Elbow	EA	6	0%	6	0.380	\$ 72.00	\$ 27.36	\$ 16.00	\$ 43.36	\$ 260.16
78			1-1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	6	0%	6	0.420	\$ 72.00	\$ 30.24	\$ 37.00	\$ 67.24	\$ 403.44
79			2" Dia Hot Water Pipe 90 Deg Elbow	EA	19	0%	19	0.440	\$ 72.00	\$ 31.68	\$ 66.00	\$ 97.68	\$ 1,855.92

DETAILED BREAKDOWN OF ITEMS

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Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
80			2-1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	18	0%	18	0.480	\$ 72.00	\$ 34.56	\$ 121.00	\$ 155.56	\$ 2,800.08
81			3" Dia Hot Water Pipe 90 Deg Elbow	EA	7	0%	7	0.520	\$ 72.00	\$ 37.44	\$ 174.00	\$ 211.44	\$ 1,480.08
			TEE:										
82			1/2" Dia Hot Water Pipe Tee	EA	22	0%	22	0.550	\$ 72.00	\$ 39.60	\$ 1.89	\$ 41.49	\$ 912.78
83			1" Dia Hot Water Pipe Tee	EA	2	0%	2	0.605	\$ 72.00	\$ 43.56	\$ 38.20	\$ 81.76	\$ 163.52
84			1-1/2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.650	\$ 72.00	\$ 46.80	\$ 74.50	\$ 121.30	\$ 121.30
85			2" Dia Hot Water Pipe Tee	EA	9	0%	9	0.670	\$ 72.00	\$ 48.24	\$ 118.00	\$ 166.24	\$ 1,496.16
86			2-1/2" Dia Hot Water Pipe Tee	EA	9	0%	9	0.690	\$ 72.00	\$ 49.68	\$ 217.00	\$ 266.68	\$ 2,400.12
86			3" Dia Hot Water Pipe Tee	EA	4	0%	4	0.720	\$ 72.00	\$ 51.84	\$ 315.00	\$ 366.84	\$ 1,467.36
87			3/4" / 1/2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.622	\$ 72.00	\$ 44.78	\$ 18.45	\$ 63.23	\$ 63.23
88			2" / 1/2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.655	\$ 72.00	\$ 47.16	\$ 150.00	\$ 197.16	\$ 197.16
89			2" / 3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.712	\$ 72.00	\$ 51.26	\$ 150.00	\$ 201.26	\$ 201.26
90			2" / 1" Dia Hot Water Pipe Tee	EA	5	0%	5	0.788	\$ 72.00	\$ 56.74	\$ 150.00	\$ 206.74	\$ 1,033.68
91			2-1/2" / 2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.745	\$ 72.00	\$ 53.64	\$ 415.00	\$ 468.64	\$ 468.64
92			3" / 1-1/2" Dia Hot Water Pipe Tee	EA	2	0%	2	0.825	\$ 72.00	\$ 59.40	\$ 315.00	\$ 374.40	\$ 748.80
93			3" / 2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.835	\$ 72.00	\$ 60.12	\$ 470.00	\$ 530.12	\$ 530.12
			REDUCER:										
94			3/4" / 1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.288	\$ 72.00	\$ 20.74	\$ 18.45	\$ 39.19	\$ 39.19
95			1" / 1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.300	\$ 72.00	\$ 21.60	\$ 87.50	\$ 109.10	\$ 109.10
96			1-1/2" / 1/2" Hot Water Pipe Reducer	EA	1	0%	1	0.320	\$ 72.00	\$ 23.04	\$ 92.00	\$ 115.04	\$ 115.04
97			2" / 1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.350	\$ 72.00	\$ 25.20	\$ 150.00	\$ 175.20	\$ 175.20
98			2" / 1" Dia Hot Water Pipe Reducer	EA	2	0%	2	0.380	\$ 72.00	\$ 27.36	\$ 150.00	\$ 177.36	\$ 354.72
99			2" / 1-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 172.00	\$ 200.80	\$ 200.80
100			2-1/2" / 2" Dia Hot Water Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 415.00	\$ 443.80	\$ 443.80
101			3" / 1-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.420	\$ 72.00	\$ 30.24	\$ 470.00	\$ 500.24	\$ 500.24
102			3" / 2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.460	\$ 72.00	\$ 33.12	\$ 462.00	\$ 495.12	\$ 495.12
103			3" / 2-1/2" Hot Water Pipe Reducer	EA	1	0%	1	0.480	\$ 72.00	\$ 34.56	\$ 462.00	\$ 496.56	\$ 496.56
			HOT WATER RETURN PIPE (ABOVE GRADE)										
			Type "L" Hard Drawn Copper Tube, ASTM B 88M										
104			3/8" Dia Hot Water Return Pipe	LF	38	10%	42	0.032	\$ 72.00	\$ 2.30	\$ 3.89	\$ 6.19	\$ 260.41
105			1/2" Dia Hot Water Return Pipe	LF	226	10%	249	0.035	\$ 72.00	\$ 2.52	\$ 4.18	\$ 6.70	\$ 1,665.62
106			3/4" Dia Hot Water Return Pipe	LF	360	10%	396	0.042	\$ 72.00	\$ 3.02	\$ 5.44	\$ 8.46	\$ 3,355.47
107			1" Dia Hot Water Return Pipe	LF	24	10%	27	0.045	\$ 72.00	\$ 3.24	\$ 5.31	\$ 8.55	\$ 228.45
			Size Assumed 3/4" Thick Fiberglass Insulation										
108			3/8" Dia Hot Water Return Pipe	LF	38	10%	42	0.052	\$ 72.00	\$ 3.74	\$ 2.95	\$ 6.69	\$ 281.43
109			1/2" Dia Hot Water Return Pipe	LF	226	10%	249	0.058	\$ 72.00	\$ 4.18	\$ 3.33	\$ 7.51	\$ 1,865.99
110			3/4" Dia Hot Water Return Pipe	LF	360	10%	396	0.067	\$ 72.00	\$ 4.82	\$ 5.22	\$ 10.04	\$ 3,981.84
111			1" Dia Hot Water Return Pipe	LF	24	10%	27	0.070	\$ 72.00	\$ 5.04	\$ 6.62	\$ 11.66	\$ 311.45
			HOT WATER RETURN PIPE FITTINGS:										
			ELBOW:										
112			3/8" Dia Hot Water Return Pipe 90 Deg Elbow	EA	3	0%	3	0.322	\$ 72.00	\$ 23.18	\$ 2.45	\$ 25.63	\$ 76.90
113			1/2" Dia Hot Water Return Pipe 90 Deg Elbow	EA	12	0%	12	0.350	\$ 72.00	\$ 25.20	\$ 2.95	\$ 28.15	\$ 337.80
114			3/4" Dia Hot Water Return Pipe 90 Deg Elbow	EA	46	0%	46	0.360	\$ 72.00	\$ 25.92	\$ 5.39	\$ 31.31	\$ 1,440.26
115			1" Dia Hot Water Return Pipe 90 Deg Elbow	EA	1	0%	1	0.380	\$ 72.00	\$ 27.36	\$ 16.00	\$ 43.36	\$ 43.36
			TEE:										
116			1/2" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.550	\$ 72.00	\$ 39.60	\$ 1.89	\$ 41.49	\$ 41.49
117			3/4" Dia Hot Water Return Pipe Tee	EA	21	0%	21	0.580	\$ 72.00	\$ 41.76	\$ 11.90	\$ 53.66	\$ 1,126.86
118			1" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.605	\$ 72.00	\$ 43.56	\$ 60.50	\$ 104.06	\$ 104.06
119			3/4" / 3/8" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.612	\$ 72.00	\$ 44.06	\$ 16.85	\$ 60.91	\$ 60.91
120			3/4" / 1/2" Dia Hot Water Return Pipe Tee	EA	2	0%	2	0.622	\$ 72.00	\$ 44.78	\$ 18.45	\$ 63.23	\$ 126.47

DETAILED BREAKDOWN OF ITEMS

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Date: **08/30/23**

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160			1-1/2" Dia Sanitary Pipe Wye	EA	80	0%	80	0.422	\$ 72.00	\$ 30.38	\$ 14.29	\$ 44.67	\$ 3,573.92
161			3" Dia Sanitary Pipe Wye	EA	148	0%	148	0.588	\$ 72.00	\$ 42.34	\$ 32.50	\$ 74.84	\$ 11,075.73
162			4" Dia Sanitary Pipe Wye	EA	39	0%	39	0.625	\$ 72.00	\$ 45.00	\$ 51.00	\$ 96.00	\$ 3,744.00
162			3" / 1-1/2" Dia Sanitary Pipe Wye	EA	37	0%	37	0.522	\$ 72.00	\$ 37.58	\$ 19.85	\$ 57.43	\$ 2,125.06
163			3" / 2" Dia Sanitary Pipe Wye	EA	58	0%	58	0.544	\$ 72.00	\$ 39.17	\$ 22.65	\$ 61.82	\$ 3,585.44
			REDUCER:										
164			3" / 1-1/2" Dia Sanitary Pipe Reducer	EA	130	0%	130	0.420	\$ 72.00	\$ 30.24	\$ 21.00	\$ 51.24	\$ 6,661.20
165			3" / 2" Dia Sanitary Pipe Reducer	EA	10	0%	10	0.435	\$ 72.00	\$ 31.32	\$ 28.25	\$ 59.57	\$ 595.70
166			3" / 1-1/2" Dia Sanitary Pipe Reducer	EA	15	0%	15	0.420	\$ 72.00	\$ 30.24	\$ 21.00	\$ 51.24	\$ 768.60
			VENT PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
167			1-1/2" Dia Vent Pipe	LF	1134	10%	1247	0.045	\$ 72.00	\$ 3.24	\$ 3.51	\$ 6.75	\$ 8,419.95
168			3" Dia Vent Pipe	LF	610	10%	670	0.065	\$ 72.00	\$ 4.68	\$ 7.88	\$ 12.56	\$ 8,420.85
			VENT PIPE FITTINGS:										
			ELBOW:										
169			3" Dia Vent Pipe 90 Deg Elbow	EA	24	0%	24	0.410	\$ 72.00	\$ 29.52	\$ 21.50	\$ 51.02	\$ 1,224.48
170			1-1/2" Dia Vent Pipe 45 Deg Elbow	EA	6	0%	6	0.260	\$ 72.00	\$ 18.72	\$ 5.30	\$ 24.02	\$ 144.12
			TEE:										
171			3" Dia Vent Pipe Tee	EA	8	0%	8	0.400	\$ 72.00	\$ 28.80	\$ 18.45	\$ 47.25	\$ 378.00
172			3" / 1-1/2" Dia Vent Pipe Tee	EA	12	0%	12	0.400	\$ 72.00	\$ 28.80	\$ 19.00	\$ 47.80	\$ 573.60
			REDUCER:										
173			3" / 1-1/2" Dia Vent Pipe Reducer	EA	8	0%	8	0.420	\$ 72.00	\$ 30.24	\$ 21.00	\$ 51.24	\$ 409.92
			STORM DRAIN PIPE (BELOW GRADE)										
			DWV Schedule 40 PVC										
174			10" Dia Storm Pipe	LF	7	10%	7	0.082	\$ 72.00	\$ 5.90	\$ 55.62	\$ 61.52	\$ 447.34
			STORM DRAIN PIPE FITTINGS:										
			ELBOW:										
175			10" Dia Storm Pipe 90 Deg Elbow	EA	1	0%	1	0.825	\$ 72.00	\$ 59.40	\$ 425.00	\$ 484.40	\$ 484.40
			STORM DRAIN PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
176			6" Dia Storm Pipe	LF	946	10%	1041	0.072	\$ 72.00	\$ 5.18	\$ 19.50	\$ 24.68	\$ 25,695.13
177			10" Dia Storm Pipe	LF	20	10%	22	0.082	\$ 72.00	\$ 5.90	\$ 55.62	\$ 61.52	\$ 1,329.84
			STORM DRAIN PIPE FITTINGS:										
			ELBOW:										
178			6" Dia Storm Pipe 90 Deg Elbow	EA	8	0%	8	0.685	\$ 72.00	\$ 49.32	\$ 176.50	\$ 225.82	\$ 1,806.56
179			10" Dia Storm Pipe 90 Deg Elbow	EA	2	0%	2	0.825	\$ 72.00	\$ 59.40	\$ 425.00	\$ 484.40	\$ 968.80
180			6" Dia Storm Pipe 45 Deg Elbow	EA	24	0%	24	0.685	\$ 72.00	\$ 49.32	\$ 125.00	\$ 174.32	\$ 4,183.68
			WYE:										
181			6" Dia Storm Pipe Wye	EA	26	0%	26	0.788	\$ 72.00	\$ 56.74	\$ 250.50	\$ 307.24	\$ 7,988.14
			PLUMBING FIXTURES										
182			SH -1: Shower	EA	3	0%	3	2.350	\$ 72.00	\$ 169.20	\$ 642.00	\$ 811.20	\$ 2,433.60
183			SH -2: Shower	EA	2	0%	2	2.350	\$ 72.00	\$ 169.20	\$ 642.00	\$ 811.20	\$ 1,622.40
184			SK -1: Sink	EA	2	0%	2	2.857	\$ 72.00	\$ 205.70	\$ 809.83	\$ 1,015.53	\$ 2,031.07
185			SK -2: Sink	EA	2	0%	2	2.857	\$ 72.00	\$ 205.70	\$ 809.83	\$ 1,015.53	\$ 2,031.07
186			SK -3: Sink	EA	2	0%	2	2.857	\$ 72.00	\$ 205.70	\$ 809.83	\$ 1,015.53	\$ 2,031.07
187			SK -4: Sink	EA	2	0%	2	2.857	\$ 72.00	\$ 205.70	\$ 809.83	\$ 1,015.53	\$ 2,031.07
188			FEX	EA	9	0%	9	0.850	\$ 72.00	\$ 61.20	\$ 64.30	\$ 125.50	\$ 1,129.50
189			GM-1: Gas Meter	EA	0	0%	0	1.000	\$ 72.00	\$ 72.00	\$ 530.00	\$ 602.00	\$ -
190			HD: Head	EA	1	0%	1	0.880	\$ 72.00	\$ 63.36	\$ 89.87	\$ 153.23	\$ 153.23

Schedule not given

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
191		given	JS-1 Janitor Sink	EA	2	0%	2	2.265	\$ 72.00	\$ 163.08	\$ 179.99	\$ 343.07	\$ 686.14
192			LAV-1: Lavatory	EA	5	0%	5	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 3,485.00
193			LAV -2: Lavatory	EA	8	0%	8	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 5,576.00
194			LAV-3: Lavatory	EA	1	0%	1	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 697.00
195			LAV-4: Lavatory	EA	1	0%	1	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 697.00
196			P-1 Pump	EA	1	0%	1	1.850	\$ 72.00	\$ 133.20	\$ 89.99	\$ 223.19	\$ 223.19
197			W/M-1 Commercial Water Meter	EA	1	0%	1	0.571	\$ 72.00	\$ 41.11	\$ 467.79	\$ 508.90	\$ 508.90
198			WC-1: Water Closet	EA	15	0%	15	3.019	\$ 72.00	\$ 217.37	\$ 895.34	\$ 1,112.71	\$ 16,690.62
			ELECTRIC WATER HEATER										
199			EW-1: Electric Water Heater	EA	3	0%	3	3.200	\$ 72.00	\$ 230.40	\$ 1,207.20	\$ 1,437.60	\$ 4,312.80
			WATER HEATER ACCESSORIES										
200			T-1" Expansion Tank	EA	1	0%	1	1.500	\$ 72.00	\$ 108.00	\$ 48.48	\$ 156.48	\$ 156.48
			MISCELLANEOUS										
201			2" Dia DCWP Cap	EA	1	0%	1	0.022	\$ 72.00	\$ 1.58	\$ 5.48	\$ 7.06	\$ 7.06
202			3/4" Dia Cam Lock Access Panel	EA	14	0%	14	0.580	\$ 72.00	\$ 41.76	\$ 129.82	\$ 171.58	\$ 2,402.12
203		No Detail	Manifold	EA	14	0%	14	0.740	\$ 72.00	\$ 53.28	\$ 32.59	\$ 85.87	\$ 1,202.18
204			1-1/2" Dia P- Trap	EA	5	0%	5	0.480	\$ 72.00	\$ 34.56	\$ 25.50	\$ 60.06	\$ 300.30
205			3" Dia P - Trap	EA	12	0%	12	0.550	\$ 72.00	\$ 39.60	\$ 53.05	\$ 92.65	\$ 1,111.80
206			4" Dia P-Trap	EA	4	0%	4	0.590	\$ 72.00	\$ 42.48	\$ 57.28	\$ 99.76	\$ 399.04
207			1-1/2" Dia Union	EA	6	0%	6	0.350	\$ 72.00	\$ 25.20	\$ 30.60	\$ 55.80	\$ 334.80
208			1/2" Dia Strainer	EA	1	0%	1	0.460	\$ 72.00	\$ 33.12	\$ 16.08	\$ 49.20	\$ 49.20
			CLEANOUTS & DRAINS:										
209			3" Dia Cleanout	EA	18	0%	18	0.950	\$ 72.00	\$ 68.40	\$ 59.69	\$ 128.09	\$ 2,305.62
210			4" Dia Cleanout	EA	24	0%	24	1.000	\$ 72.00	\$ 72.00	\$ 55.37	\$ 127.37	\$ 3,056.88
211			6" Dia Cleanout	EA	20	0%	20	1.223	\$ 72.00	\$ 88.06	\$ 62.53	\$ 150.59	\$ 3,011.72
212			8" Dia Cleanout	EA	1	0%	1	1.330	\$ 72.00	\$ 95.76	\$ 250.22	\$ 345.98	\$ 345.98
213			3" Dia, FD: Floor Drain, ZURN Z-1732, Notes: Floor Drain, Dura-Coated Cast Iron Body And Grate	EA	10	0%	10	0.950	\$ 72.00	\$ 68.40	\$ 74.19	\$ 142.59	\$ 1,425.90
214			4" Dia, FD: Floor Drain, ZURN Z-1732, Notes: Floor Drain, Dura-Coated Cast Iron Body And Grate	EA	1	0%	1	1.000	\$ 72.00	\$ 72.00	\$ 118.99	\$ 190.99	\$ 190.99
215			4" Dia, RD: Roof Drain, ZURN RD2130, Notes: Dura-Coa	EA	8	0%	8	1.000	\$ 72.00	\$ 72.00	\$ 75.79	\$ 147.79	\$ 1,182.32
216			6" Dia, RD: Roof Drain, ZURN RD2130, Notes: Dura-Coa	EA	6	0%	6	1.223	\$ 72.00	\$ 88.06	\$ 97.92	\$ 185.98	\$ 1,115.86
217			3" Dia Trench Drain - 1	EA	1	0%	1	1.500	\$ 72.00	\$ 108.00	\$ 54.58	\$ 162.58	\$ 162.58
218			Roof Drain-7	EA	9	0%	9	1.000	\$ 72.00	\$ 72.00	\$ 252.49	\$ 324.49	\$ 2,920.41
			VALVES:										
219			3/4" Dia Isolation Valve	EA	4	0%	4	0.400	\$ 72.00	\$ 28.80	\$ 97.62	\$ 126.42	\$ 505.68
220			3/4" Dia Mixing Valve	EA	2	0%	2	0.400	\$ 72.00	\$ 28.80	\$ 144.46	\$ 173.26	\$ 346.52
221			3/4" Dia Shutoff Valve	EA	14	0%	14	0.400	\$ 72.00	\$ 28.80	\$ 22.29	\$ 51.09	\$ 715.26
222			1/2" Dia Isolation Valve	EA	11	0%	11	0.380	\$ 72.00	\$ 27.36	\$ 13.79	\$ 41.15	\$ 452.65
223			1" Dia Isolation Valve	EA	2	0%	2	0.488	\$ 72.00	\$ 35.14	\$ 29.99	\$ 65.13	\$ 130.25
224			1-1/2" Dia Isolation Valve	EA	2	0%	2	0.522	\$ 72.00	\$ 37.58	\$ 29.47	\$ 67.05	\$ 134.11
225			2" Dia Isolation Valve	EA	22	0%	22	0.576	\$ 72.00	\$ 41.47	\$ 89.99	\$ 131.46	\$ 2,892.16
226			2-1/2" Dia Isolation Valve	EA	15	0%	15	0.612	\$ 72.00	\$ 44.06	\$ 95.23	\$ 139.29	\$ 2,089.41
227			3" Dia Isolation Valve	EA	8	0%	8	0.645	\$ 72.00	\$ 46.44	\$ 146.99	\$ 193.43	\$ 1,547.44
228			4" Dia Isolation Valve	EA	3	0%	3	0.699	\$ 72.00	\$ 50.33	\$ 247.00	\$ 297.33	\$ 891.98
229			1/2" Dia Pressure Reducing Valve	EA	1	0%	1	0.450	\$ 72.00	\$ 32.40	\$ 53.27	\$ 85.67	\$ 85.67
230			3/8" Dia Pressure Reducing Valve	EA	2	0%	2	0.525	\$ 72.00	\$ 37.80	\$ 75.08	\$ 112.88	\$ 225.76
231			3" Dia Pressure Reducing Valve	EA	2	0%	2	0.698	\$ 72.00	\$ 50.26	\$ 3,878.61	\$ 3,928.87	\$ 7,857.73

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
232			1-1/2" Dia Ball Valve	EA	3	0%	3	0.522	\$ 72.00	\$ 37.58	\$ 29.47	\$ 67.05	\$ 201.16
233			3" Check valve	EA	2	0%	2	0.645	\$ 72.00	\$ 46.44	\$ 138.34	\$ 184.78	\$ 369.56
234			3" Pressure Reducing Valve	EA	1	0%	1	0.698	\$ 72.00	\$ 50.26	\$ 3,878.61	\$ 3,928.87	\$ 3,928.87
235			1/2" Dia Ball Valve	EA	2	0%	2	0.380	\$ 72.00	\$ 27.36	\$ 13.79	\$ 41.15	\$ 82.30
236			1/2" Dia Check Valve	EA	1	0%	1	0.425	\$ 72.00	\$ 30.60	\$ 7.52	\$ 38.12	\$ 38.12
237			3" Check valve	EA	2	0%	2	0.645	\$ 72.00	\$ 46.44	\$ 138.34	\$ 184.78	\$ 369.56
238			3" Dia 3-Way Anti-Scald Mixing Valve	EA	1	0%	1	0.699	\$ 72.00	\$ 50.33	\$ 133.76	\$ 184.09	\$ 184.09
			PVC COUPLING:										
239			1-1/2" Dia Pipe	EA	260	0%	260	0.455	\$ 72.00	\$ 32.76	\$ 0.88	\$ 33.64	\$ 8,756.49
240			3" Dia Pipe	EA	153	0%	153	0.622	\$ 72.00	\$ 44.78	\$ 2.04	\$ 46.82	\$ 7,173.44
241			4" Dia Pipe	EA	80	0%	80	0.645	\$ 72.00	\$ 46.44	\$ 6.42	\$ 52.86	\$ 4,228.80
242			6" Dia Pipe	EA	101	0%	101	0.733	\$ 72.00	\$ 52.78	\$ 15.27	\$ 68.05	\$ 6,872.65
243			8" Dia Pipe	EA	6	0%	6	0.812	\$ 72.00	\$ 58.46	\$ 36.36	\$ 94.82	\$ 578.43
244			10" Dia Pipe	EA	1	0%	1	0.932	\$ 72.00	\$ 67.10	\$ 104.03	\$ 171.13	\$ 119.79
			PIPE SUPPORT:										
245			3/8" Dia Adjustable Clevis Hanger	EA	6	0%	6	0.119	\$ 72.00	\$ 8.57	\$ 1.87	\$ 10.44	\$ 62.63
246			1/2" Dia Adjustable Clevis Hanger	EA	981	0%	981	0.120	\$ 72.00	\$ 8.64	\$ 1.94	\$ 10.58	\$ 10,378.98
247			3/4" Dia Adjustable Clevis Hanger	EA	50	0%	50	0.123	\$ 72.00	\$ 8.86	\$ 2.20	\$ 11.06	\$ 552.80
248			1" Dia Adjustable Clevis Hanger	EA	31	0%	31	0.143	\$ 72.00	\$ 10.30	\$ 1.89	\$ 12.19	\$ 377.77
249			1-1/2" Dia Adjustable Clevis Hanger	EA	432	0%	432	0.156	\$ 72.00	\$ 11.23	\$ 2.32	\$ 13.55	\$ 5,854.46
250			2" Dia Adjustable Clevis Hanger	EA	38	0%	38	0.159	\$ 72.00	\$ 11.45	\$ 2.68	\$ 14.13	\$ 536.86
251			2-1/2" Dia Adjustable Clevis Hanger	EA	29	0%	29	0.166	\$ 72.00	\$ 11.95	\$ 3.55	\$ 15.50	\$ 449.56
252			3" Dia Adjustable Clevis Hanger	EA	132	0%	132	0.174	\$ 72.00	\$ 12.53	\$ 7.50	\$ 20.03	\$ 2,643.70
253			4" Dia Adjustable Clevis Hanger	EA	67	0%	67	0.178	\$ 72.00	\$ 12.82	\$ 7.21	\$ 20.03	\$ 1,341.74
254			6" Dia Adjustable Clevis Hanger	EA	95	0%	95	0.185	\$ 72.00	\$ 13.32	\$ 13.27	\$ 26.59	\$ 2,526.05
255			8" Dia Adjustable Clevis Hanger	EA	1	0%	1	0.193	\$ 72.00	\$ 13.90	\$ 24.65	\$ 38.55	\$ 38.55
256			10" Dia Adjustable Clevis Hanger	EA	2	0%	2	0.223	\$ 72.00	\$ 16.06	\$ 28.87	\$ 44.93	\$ 89.85
257			3/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	1500	0%	1500	0.050	\$ 72.00	\$ 3.60	\$ 4.77	\$ 8.37	\$ 12,555.00
258			1/2" Dia Threaded Rod (1 Each = 1 Feet)	EA	266	0%	266	0.050	\$ 72.00	\$ 3.60	\$ 5.63	\$ 9.23	\$ 2,455.18
259			5/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	98	0%	98	0.055	\$ 72.00	\$ 3.96	\$ 6.22	\$ 10.18	\$ 997.64
			TRENCHING & BACKFILLING:										
260			Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	2292	0%	2292	0.625	\$ 72.00	\$ 45.00	\$ -	\$ 45.00	\$ 103,140.00
												SUBTOTAL	\$ 675,945
HVAC													
FLEXIBLE DUCT													
261			6" Dia Flexible Duct	LF	4	10%	4	0.057	\$ 75.00	\$ 4.28	\$ 3.71	\$ 7.99	\$ 34.78
262			8" Dia Flexible Duct	LF	8	10%	9	0.080	\$ 75.00	\$ 6.00	\$ 4.87	\$ 10.87	\$ 93.62
263			10" Dia Flexible Duct	LF	31	10%	34	0.100	\$ 75.00	\$ 7.50	\$ 5.24	\$ 12.74	\$ 439.34
GAS LINE													
Schedule 40 Electric-Resistance Weld (ERW)													
264			1-1/2" Gas Line @ 2 PSI	LF	312	10%	344	0.080	\$ 75.00	\$ 6.00	\$ 11.20	\$ 17.20	\$ 5,910.80
265			2-1/2" Gas Line @ 2 PSI	LF	31	10%	34	0.102	\$ 75.00	\$ 7.65	\$ 29.50	\$ 37.15	\$ 1,257.82
GAS LINE FITTINGS:													
ELBOW:													
266			1-1/2" Gas Line @ 2 PSI 90 Deg Elbow	EA	20	0%	20	0.200	\$ 75.00	\$ 15.00	\$ 7.85	\$ 22.85	\$ 457.00

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
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Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
267			2-1/2" Gas Line @ 2 PSI 90 Deg Elbow	EA	4	0%	4	0.240	\$ 75.00	\$ 18.00	\$ 26.54	\$ 44.54	\$ 178.16
			TEE:										
268			1-1/2" Gas Line @ 2 PSI Tee	EA	3	0%	3	0.220	\$ 75.00	\$ 16.50	\$ 9.85	\$ 26.35	\$ 79.05
269			2-1/2" Gas Line @ 2 PSI Tee	EA	2	0%	2	0.260	\$ 75.00	\$ 19.50	\$ 28.47	\$ 47.97	\$ 95.94
			REDUCER:										
270			2-1/2" / 1-1/2" Gas Line Reducer	EA	1	0%	1	0.250	\$ 75.00	\$ 18.75	\$ 25.62	\$ 44.37	\$ 44.37
			REFRIGERANT PIPE										
			Type "ACR" Copper Pipe										
271		Assumed	3/8" Dia Refrigerant Liquid Pipe	LF	1339	10%	1473	0.032	\$ 75.00	\$ 2.40	\$ 2.64	\$ 5.04	\$ 7,422.58
272			5/8" Dia Refrigerant Suction Pipe	LF	1339	10%	1473	0.038	\$ 75.00	\$ 2.85	\$ 5.02	\$ 7.87	\$ 11,590.42
			1/2" Thick Fiberglass Insulation										
273		Assumed	3/8" Dia Refrigerant Liquid Pipe	LF	1339	10%	1473	0.012	\$ 75.00	\$ 0.90	\$ 2.68	\$ 3.58	\$ 5,272.39
274			5/8" Dia Refrigerant Suction Pipe	LF	1339	10%	1473	0.017	\$ 75.00	\$ 1.28	\$ 3.45	\$ 4.73	\$ 6,958.67
			REFRIGERANT PIPE FITTINGS:										
			ELBOW:										
275			3/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow	EA	31	0%	31	0.160	\$ 75.00	\$ 12.00	\$ 3.03	\$ 15.03	\$ 465.93
276			5/8" Dia Refrigerant Suction Pipe 90 Deg Elbow	EA	31	0%	31	0.180	\$ 75.00	\$ 13.50	\$ 4.85	\$ 18.35	\$ 568.85
			CONDENSATE DRAIN PIPE										
			Type "M" Copper										
277		Assumed	3/4" Dia Condensate Drain Pipe	LF	348	10%	383	0.063	\$ 75.00	\$ 4.73	\$ 3.65	\$ 8.38	\$ 3,205.95
			1/2" Thick Fiberglass Insulation										
278			3/4" Dia Condensate Drain Pipe	LF	348	10%	383	0.024	\$ 75.00	\$ 1.80	\$ 3.40	\$ 5.20	\$ 1,990.56
			CONDENSATE DRAIN FITTINGS:										
			ELBOW:										
279			3/4" Dia Condensate Drain Pipe 90 Deg Elbow	EA	30	0%	30	0.320	\$ 75.00	\$ 24.00	\$ 6.48	\$ 30.48	\$ 914.40
			AIR DEVICES										
280			Supply Air Ceiling Diffuser, Face Size: 8"x8"	EA	1	0%	1	0.280	\$ 75.00	\$ 21.00	\$ 35.60	\$ 56.60	\$ 56.60
281		Size Assumed	Supply Air Ceiling Diffuser, Face Size: 12"x6", Neck Size:	EA	1	0%	1	0.320	\$ 75.00	\$ 24.00	\$ 38.72	\$ 62.72	\$ 62.72
282			Supply Air Ceiling Diffuser, Face Size: 12"x6", Neck Size:	EA	1	0%	1	0.320	\$ 75.00	\$ 24.00	\$ 38.72	\$ 62.72	\$ 62.72
283			Supply Air Ceiling Diffuser, Face Size: 24"x8", Neck Size:	EA	5	0%	5	0.400	\$ 75.00	\$ 30.00	\$ 85.25	\$ 115.25	\$ 576.25
284			Supply Air Ceiling Diffuser, Face Size: 24"x24", Neck Size:	EA	1	0%	1	0.533	\$ 75.00	\$ 39.98	\$ 132.45	\$ 172.43	\$ 172.43
285		Size Assumed	Supply Air Ceiling Diffuser, Face Size: 24"x24", Neck Size:	EA	3	0%	3	0.533	\$ 75.00	\$ 39.98	\$ 132.45	\$ 172.43	\$ 517.28
286			Supply Air Ceiling Diffuser, Face Size: 24"x24", Neck Size: 10" Dia	EA	11	0%	11	0.533	\$ 75.00	\$ 39.98	\$ 132.45	\$ 172.43	\$ 1,896.68
287			Supply Air Ceiling Diffuser, Face Size: 26"x18", Neck Size:	EA	4	0%	4	0.533	\$ 75.00	\$ 39.98	\$ 109.67	\$ 149.65	\$ 598.58
288			Return Air Grille, Face Size: 14"x6", Neck Size: 14"x6"	EA	1	0%	1	0.360	\$ 75.00	\$ 27.00	\$ 35.69	\$ 62.69	\$ 62.69
289		Size Assumed	Return Air Grille, Face Size: 22"x6" (Size Assumed), Neck Size: 14"x6"	EA	1	0%	1	0.385	\$ 75.00	\$ 28.88	\$ 30.71	\$ 59.59	\$ 59.59
290			Return Air Grille, Face Size: 24"x10" (Size Assumed), Neck Size: 14"x10"	EA	2	0%	2	0.440	\$ 75.00	\$ 33.00	\$ 58.64	\$ 91.64	\$ 183.28
291			ER-1: Exhaust Air Grille, Face Size: 6"x4", Neck Size: 6"x4"	EA	60	0%	60	0.250	\$ 75.00	\$ 18.75	\$ 17.64	\$ 36.39	\$ 2,183.40
292			ER-1: Exhaust Air Grille, Face Size: 10"x4", Neck Size: 4"x4"	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 40.50	\$ 64.50	\$ 129.00
293		Size Assumed	ER-2: Exhaust Air Grille, Face Size: 6"x4", Neck Size: 6"x4"	EA	12	0%	12	0.250	\$ 75.00	\$ 18.75	\$ 17.64	\$ 36.39	\$ 436.68
294			ER-2: Exhaust Air Grille, Face Size: 10"x4", Neck Size: 4"x4"	EA	3	0%	3	0.320	\$ 75.00	\$ 24.00	\$ 40.50	\$ 64.50	\$ 193.50
295			Exhaust Air Grille, Face Size: 6"x6", Neck Size: 6" Dia	EA	4	0%	4	0.285	\$ 75.00	\$ 21.38	\$ 33.50	\$ 54.88	\$ 219.50
296			Exhaust Air Grille, Face Size: 6"x6", Neck Size: 4"x4"	EA	17	0%	17	0.285	\$ 75.00	\$ 21.38	\$ 33.50	\$ 54.88	\$ 932.88
297		Size Assumed	Exhaust Air Grille, Face Size: 20"x10", Neck Size: 10" Dia	EA	1	0%	1	0.500	\$ 75.00	\$ 37.50	\$ 65.98	\$ 103.48	\$ 103.48
			INDIRECT GAS FIRED MAKE-UP AIR UNIT										
298			MUA-1: Make Up Air Unit, ENGINEERED AIR FWE354, Air Flow (CFM): 6847, External static Pressure: 1.5, Heating Input (Btu/Hr): 800, Heating Output (Btu/Hr): 710, Cooling Capacity (Btu/Hr): 49, Electrical Requirements: Voltage (V):										
			AIR CONDITIONER										
299			PTAC-1: Packaged Terminal Air Conditioner, GE AZ65H07, DADA Location: Suite 80, Heat Capacity (MBH): 8, Cooling Capacity (Btu/Hr): 300, Voltage: 208-120V, for this system, No. of Units: 1, Total Btu/Hr:										
			AIR CONDITIONING SPLIT SYSTEM										
300			AC-1: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	5.200	\$ 75.00	\$ 390.00	\$ 5,850.00	\$ 6,240.00	\$ 6,240.00

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
301			AC-2: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 2,540.00	\$ 2,903.75	\$ 2,903.75
302			AC-3: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 1,685.00	\$ 2,048.75	\$ 2,048.75
303			AC-4: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 4,299.00	\$ 4,662.75	\$ 4,662.75
304			AC-5: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 2,540.00	\$ 2,903.75	\$ 2,903.75
305			AC-6: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 1,850.00	\$ 2,213.75	\$ 2,213.75
306			AC-7: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 4,750.00	\$ 5,113.75	\$ 5,113.75
307			AC-8: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 3,850.00	\$ 4,213.75	\$ 4,213.75
308			AC-9: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	5.200	\$ 75.00	\$ 390.00	\$ 5,200.00	\$ 5,590.00	\$ 5,590.00
309			AC-10: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 2,540.00	\$ 2,903.75	\$ 2,903.75
310			AC-11: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 4,750.00	\$ 5,113.75	\$ 5,113.75
311			AC-12: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	5.200	\$ 75.00	\$ 390.00	\$ 2,540.00	\$ 2,930.00	\$ 2,930.00
312			AC-13: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 1,685.00	\$ 2,048.75	\$ 2,048.75
			CONDENSING UNIT										
313			CU-1: Condensing Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.650	\$ 75.00	\$ 348.75	\$ 2,991.75	\$ 3,340.50	\$ 3,340.50
			POOL AIR HANDLING UNIT										
314			AHU-1: Air Handling Unit, DESERT AIRE LC06, Air Flow (CFM): 2000, Exhaust Latent, Pressure 1, Moisture	EA	1	0%	1	8.450	\$ 75.00	\$ 633.75	\$ 5,887.00	\$ 6,520.75	\$ 6,520.75
			POOL CONDENSING UNIT										
315			CU-2: Condensing Unit, DESERT AIRE RC5S032C3H21200, Cooling Capacity (MBH): 100, Electrical Requirements: Voltage: 208, Phase: (0) 3, Breaker: 40 (A), 50 (A), 60 (A), 75 (A), 100 (A), 125 (A), 150 (A), 200 (A), 250 (A), 300 (A), 350 (A), 400 (A), 450 (A), 500 (A), 600 (A), 700 (A), 800 (A), 900 (A), 1000 (A), Weight (Lbs.): 131.50, Notes: 12150	EA	1	0%	1	6.200	\$ 75.00	\$ 465.00	\$ 5,800.00	\$ 6,265.00	\$ 6,265.00
			GAS WATER HEATER										
316			DWH-1: Gas Water Heater, AO SMITH BTH-400, Capacity (GAL): 119, Heating (MBH): 399, Electrical Requirements: Voltage: 25 (V): 120V, Phase: (0) 1, Breaker: 15 (A), 20 (A), 25 (A), 30 (A), 35 (A), 40 (A), 45 (A), 50 (A), 60 (A), 70 (A), 75 (A), 80 (A), 90 (A), 100 (A), Weight (Lbs.): 908.16, Notes: 18075	EA	1	0%	1	4.000	\$ 75.00	\$ 300.00	\$ 2,908.16	\$ 3,208.16	\$ 3,208.16
317			DWH-2: Gas Water Heater, AO SMITH BTH-400, Capacity (GAL): 119, Heating (MBH): 399, Electrical Requirements: Voltage: 25 (V): 120V, Phase: (0) 1, Breaker: 15 (A), 20 (A), 25 (A), 30 (A), 35 (A), 40 (A), 45 (A), 50 (A), 60 (A), 70 (A), 75 (A), 80 (A), 90 (A), 100 (A), Weight (Lbs.): 908.16, Notes: 18075	EA	1	0%	1	4.000	\$ 75.00	\$ 300.00	\$ 2,908.16	\$ 3,208.16	\$ 3,208.16
318			DWH-3: Gas Water Heater, AO SMITH BTH-400, Capacity (GAL): 119, Heating (MBH): 399, Electrical Requirements: Voltage: 25 (V): 120V, Phase: (0) 1, Breaker: 15 (A), 20 (A), 25 (A), 30 (A), 35 (A), 40 (A), 45 (A), 50 (A), 60 (A), 70 (A), 75 (A), 80 (A), 90 (A), 100 (A), Weight (Lbs.): 908.16, Notes: 18075	EA	1	0%	1	4.000	\$ 75.00	\$ 300.00	\$ 2,908.16	\$ 3,208.16	\$ 3,208.16
			ELECTRIC HEAT COIL										
319			EHC-1: Electric Heat Coil, THERMOLEC, Location: Pool Mech, Airflow: 250, Electric Heat (KW): 7.5, Voltage: 208-120, Breaker: 15, Manufacturer: THERMOLEC, Notes: 214250, Base CR2, Type 90	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
			EXHAUST FAN										
320	M301, M302, M400, M401, M402 & M500		EF-1: Exhaust Fan, BROAN L150, Description: Cabinet Fan, Air Capacity (CFM): 125, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 7.5, Voltage: 120, Weight (Lbs.): 27.20, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
321			EF-2: Exhaust Fan, BROAN L200, Description: Cabinet Fan, Air Capacity (CFM): 200, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 7.5, Voltage: 120, Weight (Lbs.): 42.40, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
322			EF-3: Exhaust Fan, BROAN L200L, Description: Inline Fan, Air Capacity (CFM): 150, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 7.5, Voltage: 120, Weight (Lbs.): 45.75, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
323			EF-4: Exhaust Fan, BROAN L300L, Description: Inline Fan, Hazardous, Air Capacity (CFM): 180, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 7.5, Voltage: 120, Weight (Lbs.): 45.75, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
324			EF-5: Exhaust Fan, BROAN L300L, Description: Inline Fan, Air Capacity (CFM): 300, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 7.5, Voltage: 120, Weight (Lbs.): 45.75, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
325			EF-6: Exhaust Fan, BROAN L150L, Description: Inline Fan, Air Capacity (CFM): 150, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 7.5, Voltage: 120, Weight (Lbs.): 27.20, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
326			EF-7: Exhaust Fan, GREENHECK CUE-090-D, Description: Direct Drive Upblast Centrifugal Fan, Air Capacity (CFM): 350, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 7.5, Voltage: 120, Weight (Lbs.): 189.4, Notes: 1. Fan To Be	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
327			EF-8: Exhaust Fan, GREENHECK CUE-120-A, Description: Direct Drive Upblast Centrifugal Fan, Air Capacity (CFM): 1200, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 9.8, Voltage: 120, Weight (Lbs.): 60.1, Notes: 5, Weight (Lbs.): 60, 1	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
328			EF-9: Exhaust Fan, GREENHECK CUE-099-A, Description: Direct Drive Upblast Centrifugal Fan, Air Capacity (CFM): 800, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 5.8, Voltage: 120, Weight (Lbs.): 45.75, Notes: 45, 1	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
329			EF-10: Exhaust Fan, GREENHECK CUE-099-A, Description: Direct Drive Upblast Centrifugal Fan, Air Capacity (CFM): 600, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 5.8, Voltage: 120, Weight (Lbs.): 45.75, Notes: 45, 1	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
330			EF-11: Exhaust Fan, GREENHECK CUE-090-D, Description: Direct Drive Upblast Centrifugal Fan, Air Capacity (CFM): 350, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 5.8, Voltage: 120, Weight (Lbs.): 45.75, Notes: 1. Fan To Be	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
331			EF-12: Exhaust Fan, GREENHECK CUE-099-A, Description: Direct Drive Upblast Centrifugal Fan, Air Capacity (CFM): 400, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 5.8, Voltage: 120, Weight (Lbs.): 45.75, Notes: 45, 1	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
332			EF-13: Exhaust Fan, GREENHECK CUE-099-A, Description: Direct Drive Upblast Centrifugal Fan, Air Capacity (CFM): 800, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 5.8, Voltage: 120, Weight (Lbs.): 45.75, Notes: 45, 1	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
333			EF-14: Exhaust Fan, GREENHECK CUE-090-D, Description: Direct Drive Upblast Centrifugal Fan, Air Capacity (CFM): 350, Electrical Data (V / Hz / Ø): 120/60/11, Motor (AMP): 5.8, Voltage: 120, Weight (Lbs.): 45.75, Notes: 1. Fan To Be	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
			ELECTRICAL HEAT TERMINAL										
334			EFF-1: Electrical Heat Terminal, OUELLET OLA200, Location: Pool Mech, Electric Heat (KW): 2, Voltage: 208, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
335			EFF-2: Electrical Heat Terminal, OUELLET OAC02008-T	EA	4	0%	4	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 3,160.00
336			EFF-3: Electrical Heat Terminal, OUELLET OAC04000-T, Location: Stair B (Whll Surface Mount), Electric Heat (KW): 4, Voltage: 240, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
337			EFF-4: Electrical Heat Terminal, OUELLET OAC04000-T, Location: Stair A (Whll Surface Mount), Electric Heat (KW): 4, Voltage: 240, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
338			EFF-5: Electrical Heat Terminal, OUELLET OAC01502-T, Location: Corr. 108, 226-426 Ceiling Recessed Mount, Electric Heat (KW): 5.1575, Voltage: 120, Notes: Base CR7, Design	EA	1	0%	1	1.000	\$ 75.00	\$ 75.00	\$ 1,400.00	\$ 1,475.00	\$ 1,475.00
339			EFF-6: Electrical Heat Terminal, OUELLET OACP4000, I	EA	1	0%	1	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 3,160.00

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
340			EFF-7: Electrical Heat Terminal, OUELLET OACP4000, Location: Dining Ceiling Mount, Electric Heat (KW): 13, Voltage: 208V, Notes: Base Of Design	EA	1	0%	1	2.08	\$ 75.00	\$ 151.40	\$ 649.00	\$ 790.00	\$ 790.00
341			EFF-8: Electrical Heat Terminal, OUELLET OACP8008, Location: Vest Ceiling Mount, Electric Heat (KW): 81, Voltage: 208V, Notes: Base Of Design	EA	1	0%	1	2.08	\$ 75.00	\$ 151.40	\$ 649.00	\$ 790.00	\$ 790.00
342			EFF-9: Electrical Heat Terminal, OUELLET OAC04000-T, Location: Stair B (Wall Surface Mount), Electric Heat (KW): 4, Voltage: 240, Notes: Base Of Design	EA	1	0%	1	2.08	\$ 75.00	\$ 151.40	\$ 649.00	\$ 790.00	\$ 2,370.00
343			EFF-10: Electrical Heat Terminal, OUELLET OAC04000-T, Location: Stair A (Wall Surface Mount), Electric Heat (KW): 4, Voltage: 240, Notes: Base Of Design	EA	1	0%	1	2.08	\$ 75.00	\$ 151.40	\$ 649.00	\$ 790.00	\$ 2,370.00
344			EFF-11: Electrical Heat Terminal, OUELLET OAC01502-T, Location: Ice Room, Cor. (Recessed Mount), Electric Heat (KW): 80.5, Voltage: 510, Notes: Base Of Design	EA	6	0%	6	1.880	\$ 75.00	\$ 450.00	\$ 622.00	\$ 763.00	\$ 4,578.00
345			EFF-12: Electrical Heat Terminal, OUELLET OAC01502-T, Location: Ice Room, Cor. (Recessed Mount), Electric Heat (KW): 80.5, Voltage: 510, Notes: Base Of Design	EA	2	0%	2	1.880	\$ 75.00	\$ 151.40	\$ 622.00	\$ 763.00	\$ 2,289.00
346			EBB-3: Electrical Heat Terminal, OUELLET OFM1258, Location: Ice Room, Cor. (Recessed Mount), Electric Heat (KW): 80.5, Voltage: 510, Notes: Base Of Design	EA	2	0%	2	1.880	\$ 75.00	\$ 151.40	\$ 649.00	\$ 790.00	\$ 1,580.00
LOUVER													
347			Louver, Face Size: 8"x4", Neck Size: 8"x4"	EA	1	0%	1	0.300	\$ 75.00	\$ 22.50	\$ 168.20	\$ 190.70	\$ 190.70
348		Size Assumed	Louver, Face Size: 8"x8", Neck Size: 8"x8"	EA	1	0%	1	0.325	\$ 75.00	\$ 24.38	\$ 144.21	\$ 168.59	\$ 168.59
349			Louver, Face Size: 10"x8", Neck Size: 10"x8"	EA	1	0%	1	0.385	\$ 75.00	\$ 28.88	\$ 210.40	\$ 239.28	\$ 239.28
DAMPERS													
350			4"x4" Fire Damper	EA	9	0%	9	0.292	\$ 75.00	\$ 21.90	\$ 33.40	\$ 55.30	\$ 497.70
351		Size Assumed	6"x4" Fire Damper	EA	72	0%	72	0.330	\$ 75.00	\$ 24.75	\$ 38.50	\$ 63.25	\$ 4,554.00
352			8"x4" Fire Damper	EA	1	0%	1	0.345	\$ 75.00	\$ 25.88	\$ 48.12	\$ 74.00	\$ 74.00
353			10"x4" Fire Damper	EA	20	0%	20	0.376	\$ 75.00	\$ 28.20	\$ 55.64	\$ 83.84	\$ 1,676.80
354			10"x6" Fire Damper	EA	90	0%	90	0.385	\$ 75.00	\$ 28.88	\$ 58.50	\$ 87.38	\$ 7,863.75
355			10"x8" Fire Damper	EA	24	0%	24	0.400	\$ 75.00	\$ 30.00	\$ 64.10	\$ 94.10	\$ 2,258.40
356			12"x8" Fire Damper	EA	3	0%	3	0.420	\$ 75.00	\$ 31.50	\$ 70.24	\$ 101.74	\$ 305.22
357			20"x10" Fire Damper	EA	3	0%	3	0.500	\$ 75.00	\$ 37.50	\$ 88.31	\$ 125.81	\$ 377.43
358			26"x18" Fire Damper	EA	3	0%	3	0.600	\$ 75.00	\$ 45.00	\$ 110.09	\$ 155.09	\$ 465.27
359			8"x4" Fire/Smoke Damper	EA	1	0%	1	0.345	\$ 75.00	\$ 25.88	\$ 567.68	\$ 593.56	\$ 593.56
360			8"x8" Fire/Smoke Damper	EA	1	0%	1	0.365	\$ 75.00	\$ 27.38	\$ 683.17	\$ 710.55	\$ 710.55
361			10"x8" Fire/Smoke Damper	EA	1	0%	1	0.425	\$ 75.00	\$ 31.88	\$ 720.14	\$ 752.02	\$ 752.02
362			6" Dia Motorized Damper	EA	3	0%	3	0.330	\$ 75.00	\$ 24.75	\$ 189.55	\$ 214.30	\$ 642.90
363			8" Dia Motorized Damper	EA	1	0%	1	0.380	\$ 75.00	\$ 28.50	\$ 210.54	\$ 239.04	\$ 239.04
364			8"x8" Motorized Damper	EA	1	0%	1	0.400	\$ 75.00	\$ 30.00	\$ 210.00	\$ 240.00	\$ 240.00
365			10" Dia Motorized Damper	EA	2	0%	2	0.500	\$ 75.00	\$ 37.50	\$ 342.54	\$ 380.04	\$ 760.08
366			24"x12" Motorized Damper	EA	2	0%	2	0.545	\$ 75.00	\$ 40.88	\$ 391.46	\$ 432.34	\$ 864.67
367			26"x12" Motorized Damper	EA	1	0%	1	0.580	\$ 75.00	\$ 43.50	\$ 420.00	\$ 463.50	\$ 463.50
368			6" Dia Balancing Damper	EA	2	0%	2	0.330	\$ 75.00	\$ 24.75	\$ 54.98	\$ 79.73	\$ 159.46
369			8" Dia Balancing Damper	EA	4	0%	4	0.385	\$ 75.00	\$ 28.88	\$ 89.38	\$ 118.26	\$ 473.02
370			10" Dia Balancing Damper	EA	16	0%	16	0.500	\$ 75.00	\$ 37.50	\$ 105.27	\$ 142.77	\$ 2,284.32
DUCT WEIGHT													
371			Galvanized Sheet Metal Duct	LBS	9153	10%	10068	0.092	\$ 75.00	\$ 6.90	\$ 0.78	\$ 7.68	\$ 77,324.54
DUCT INSULATION													
372			1" Thick Thermal Insulation	SF	2362	10%	2598	0.025	\$ 75.00	\$ 1.88	\$ 7.85	\$ 9.73	\$ 25,267.50
372			2" Thick Thermal Insulation	SF	6762	10%	7438	0.030	\$ 75.00	\$ 2.25	\$ 12.68	\$ 14.93	\$ 111,052.33
MISCELLANEOUS													
373			GM-1 Commercial Gas Meter	EA	1	0%	1	2.000	\$ 75.00	\$ 150.00	\$ 734.95	\$ 884.95	\$ 884.95
374			EBB-1 (No Detail)	EA	1	0%	1	0.850	\$ 75.00	\$ 63.75	\$ 133.00	\$ 196.75	\$ 196.75
375			Thermostat	EA	19	0%	19	0.650	\$ 75.00	\$ 48.75	\$ 87.97	\$ 136.72	\$ 2,597.68
376			Duct Smoke Detector	EA	1	0%	1	0.500	\$ 75.00	\$ 37.50	\$ 96.95	\$ 134.45	\$ 134.45
377			Smoke Detector	EA	3	0%	3	0.500	\$ 75.00	\$ 37.50	\$ 50.45	\$ 87.95	\$ 263.85
378			6" Dia Flexible Connections	EA	4	0%	4	0.385	\$ 75.00	\$ 28.88	\$ 17.83	\$ 46.71	\$ 186.82
379			10" Dia Flexible connections	EA	4	0%	4	0.400	\$ 75.00	\$ 30.00	\$ 31.00	\$ 61.00	\$ 244.00

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
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Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
380			6" Dia Wall Hood	EA	3	0%	3	0.480	\$ 75.00	\$ 36.00	\$ 42.12	\$ 78.12	\$ 234.36
381			8" Dia Wall Hood	EA	1	0%	1	0.480	\$ 75.00	\$ 36.00	\$ 62.07	\$ 98.07	\$ 98.07
382			10" Dia Wall Hood	EA	2	0%	2	0.280	\$ 75.00	\$ 21.00	\$ 133.37	\$ 154.37	\$ 308.74
383			6" Dia Lint Screen	EA	1	0%	1	0.300	\$ 75.00	\$ 22.50	\$ 65.79	\$ 88.29	\$ 88.29
384			10" Dia Bird Screen	EA	2	0%	2	0.345	\$ 75.00	\$ 25.88	\$ 38.59	\$ 64.47	\$ 128.93
385			8"x8" Bird Screen	EA	1	0%	1	0.320	\$ 75.00	\$ 24.00	\$ 50.51	\$ 74.51	\$ 74.51
386			10"x6" Wire Mesh	EA	1	0%	1	0.200	\$ 75.00	\$ 15.00	\$ 10.00	\$ 25.00	\$ 25.00
387			8"x8" Gooseneck	EA	1	0%	1	0.350	\$ 75.00	\$ 26.25	\$ 135.00	\$ 161.25	\$ 161.25
388			24"x12" Wall Louver	EA	2	0%	2	0.520	\$ 75.00	\$ 39.00	\$ 116.51	\$ 155.51	\$ 311.02
			VALVES:										
389			1-1/2" Ball Valve Gas Line	EA	5	0%	5	0.325	\$ 75.00	\$ 24.38	\$ 104.37	\$ 128.75	\$ 643.73
390			1-1/2" Isolation Valve Gas Line	EA	2	0%	2	0.325	\$ 75.00	\$ 24.38	\$ 59.99	\$ 84.37	\$ 168.73
391			1-1/2" Pressure Reducing Valve Gas Line	EA	1	0%	1	0.500	\$ 75.00	\$ 37.50	\$ 220.38	\$ 257.88	\$ 257.88
			DUCT SUPPORTS:										
392			3/8" Threaded Rod	EA	594	0%	594	0.050	\$ 75.00	\$ 3.75	\$ 4.77	\$ 8.52	\$ 5,060.88
393			1" x 22 Ga. Strap	EA	297	0%	297	0.160	\$ 75.00	\$ 12.00	\$ 2.64	\$ 14.64	\$ 4,348.08
												SUBTOTAL	\$ 641,514

ELECTRICAL

DISTRIBUTION													
			CONDUIT:										
394			1-1/4" EMT Conduit	LF	173	10%	190	0.080	\$ 75.00	\$ 6.00	\$ 4.22	\$ 10.22	\$ 1,944.42
395			2" EMT Conduit	LF	251	10%	276	0.100	\$ 75.00	\$ 7.50	\$ 6.44	\$ 13.94	\$ 3,843.01
396			2-1/2" EMT Conduit	LF	1522	10%	1674	0.133	\$ 75.00	\$ 9.98	\$ 8.51	\$ 18.49	\$ 30,946.16
397			4" EMT Conduit	LF	104	10%	115	0.200	\$ 75.00	\$ 15.00	\$ 14.53	\$ 29.53	\$ 3,393.82
			CONDUCTOR:										
398			#2 AL RW90 NUAL (AA-8030)	LF	692	10%	761	0.018	\$ 75.00	\$ 1.33	\$ 1.28	\$ 2.61	\$ 1,988.94
399			#2/0 AL RW90 NUAL (AA-8030)	LF	752	10%	827	0.028	\$ 75.00	\$ 2.07	\$ 1.95	\$ 4.02	\$ 3,324.10
400			#4/0 AL RW90 NUAL (AA-8030)	LF	6088	10%	6696	0.036	\$ 75.00	\$ 2.73	\$ 2.25	\$ 4.98	\$ 33,327.95
401			#500MCM AL RW90 NUAL (AA-8030)	LF	418	10%	460	0.050	\$ 75.00	\$ 3.75	\$ 3.12	\$ 6.87	\$ 3,158.22
			LUGS:										
402			Compression Lug AL With 1-Hole , #2 AL Wire	EA	8	0%	8	0.220	\$ 75.00	\$ 16.50	\$ 4.45	\$ 20.95	\$ 167.60
			Heat Shrink Tubing for #2 AL Wire	EA	8	0%	8	0.120	\$ 75.00	\$ 9.00	\$ 1.70	\$ 10.70	\$ 85.56
403			Compression Lug AL With 1-Hole , #2/0 AL Wire	EA	24	0%	24	0.280	\$ 75.00	\$ 21.00	\$ 7.25	\$ 28.25	\$ 678.00
			Heat Shrink Tubing for #2/0 AL Wire	EA	24	0%	24	0.120	\$ 75.00	\$ 9.00	\$ 2.01	\$ 11.01	\$ 264.24
404			Compression Lug AL With 1-Hole , #4/0 AL Wire	EA	96	0%	96	0.300	\$ 75.00	\$ 22.50	\$ 12.40	\$ 34.90	\$ 3,350.40
			Heat Shrink Tubing for #4/0 AL Wire	EA	96	0%	96	0.120	\$ 75.00	\$ 9.00	\$ 2.37	\$ 11.37	\$ 1,091.52
405			Compression Lug AL With 1-Hole , #500 MCM AL Wire	EA	8	0%	8	0.500	\$ 75.00	\$ 37.50	\$ 54.70	\$ 92.20	\$ 737.60
			Heat Shrink Tubing for #500 MCM AL Wire	EA	8	0%	8	0.120	\$ 75.00	\$ 9.00	\$ 2.91	\$ 11.91	\$ 95.28
			CIRCUIT BREAKER:										
406			1P/15A Breaker	EA	300	0%	300	1.200	\$ 75.00	\$ 90.00	\$ 465.00	\$ 555.00	\$ 166,500.00
407			1P/20A Breaker	EA	15	0%	15	1.200	\$ 75.00	\$ 90.00	\$ 465.00	\$ 555.00	\$ 8,325.00
408			2P/15A Breaker	EA	37	0%	37	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 25,927.20
409			2P/20A Breaker	EA	13	0%	13	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 9,109.56
410			2P/30A Breaker	EA	4	0%	4	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 2,802.94
411			2P/40A Breaker	EA	3	0%	3	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 2,102.21
412			2P/50A Breaker	EA	1	0%	1	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 700.74

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
413			3P/15A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
414			3P/20A Breaker	EA	2	0%	2	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 1,444.71
415			3P/50A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
416			3P/60A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
417			3P/100A Breaker	EA	1	0%	1	2.000	\$ 75.00	\$ 150.00	\$ 554.51	\$ 704.51	\$ 704.51
418			3P/150A Breaker	EA	2	0%	2	2.500	\$ 75.00	\$ 187.50	\$ 3,729.28	\$ 3,916.78	\$ 7,833.56
419			3P/200A Breaker	EA	12	0%	12	2.500	\$ 75.00	\$ 187.50	\$ 3,729.28	\$ 3,916.78	\$ 47,001.36
420			1750A GFI Main Breaker	EA	1	0%	1	7.500	\$ 75.00	\$ 562.50	\$ 7,655.00	\$ 8,217.50	\$ 8,217.50
			PANEL:										
421			Panel 1A: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,860.00	\$ 3,058.75	\$ 3,058.75
422			Panel 1B: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,860.00	\$ 3,058.75	\$ 3,058.75
423			Panel 1C: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,698.00	\$ 2,896.75	\$ 2,896.75
424			Panel 1D: 100A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	1.950	\$ 75.00	\$ 146.25	\$ 1,250.00	\$ 1,396.25	\$ 1,396.25
425			Panel 2A: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
426			Panel 2B: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
427			Panel 2C: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
428			Panel 3A: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
429			Panel 3B: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
430			Panel 3C: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
431			Panel 4A: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
432			Panel 4B: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
433			Panel 4C: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
434			Main Distribution MDP, 2000A, 120/208V, 3P, 4W (4-Seq)	EA	1	0%	1	7.890	\$ 75.00	\$ 591.75	\$ 35,000.00	\$ 35,591.75	\$ 35,591.75
			DEVICES:										
435			Utility Meter	EA	1	0%	1	1.200	\$ 75.00	\$ 90.00	\$ 125.15	\$ 215.15	\$ 215.15
			DISCONNECT SWITCH:										
436			15A Disconnect Switch	EA	1	0%	1	0.650	\$ 75.00	\$ 48.75	\$ 205.56	\$ 254.31	\$ 254.31
437			1P/15A Disconnect Switch, WP	EA	8	0%	8	0.890	\$ 75.00	\$ 66.75	\$ 318.00	\$ 384.75	\$ 3,078.00
438			3P/20A Disconnect Switch	EA	1	0%	1	0.950	\$ 75.00	\$ 71.25	\$ 222.27	\$ 293.52	\$ 293.52
439			3P/60A Disconnect Switch WP	EA	1	0%	1	1.150	\$ 75.00	\$ 86.25	\$ 425.69	\$ 511.94	\$ 511.94
			GROUNDING:										
440			#6 CU Grounding Conductor	LF	16	10%	17	0.012	\$ 75.00	\$ 0.92	\$ 0.77	\$ 1.69	\$ 29.24
			POWER										
			CONDUIT:										
441			3/4" EMT Conduit	LF	31960	10%	35156	0.062	\$ 75.00	\$ 4.65	\$ 1.52	\$ 6.17	\$ 216,909.74
442			1" EMT Conduit	LF	4850	10%	5335	0.070	\$ 75.00	\$ 5.25	\$ 2.56	\$ 7.81	\$ 41,666.35
443			1" RGS Conduit	LF	1167	10%	1284	0.123	\$ 75.00	\$ 9.23	\$ 5.74	\$ 14.97	\$ 19,210.57
			CONDUCTOR:										
444			#12 CU RW90 X-LINK	LF	173246	10%	190571	0.007	\$ 75.00	\$ 0.53	\$ 1.20	\$ 1.73	\$ 328,735.04
445			#10 CU RW90 X-LINK	LF	12195	10%	13415	0.008	\$ 75.00	\$ 0.60	\$ 1.45	\$ 2.05	\$ 27,499.73
446			#8 CU RW90 X-LINK	LF	18589	10%	20448	0.010	\$ 75.00	\$ 0.75	\$ 1.65	\$ 2.40	\$ 49,075.01
			DEVICE:										
447			Duplex Receptacle	EA	835	0%	835	0.300	\$ 75.00	\$ 22.50	\$ 32.56	\$ 55.06	\$ 45,975.10
448			Duplex Receptacle GFI	EA	4	0%	4	0.320	\$ 75.00	\$ 24.00	\$ 35.89	\$ 59.89	\$ 239.56
449			Duplex Receptacle GFI, WP	EA	10	0%	10	0.320	\$ 75.00	\$ 24.00	\$ 35.89	\$ 59.89	\$ 598.90
450			Duplex Receptacle Over Counter, GFI	EA	6	0%	6	0.300	\$ 75.00	\$ 22.50	\$ 35.89	\$ 58.39	\$ 350.34
451			Equipment Connection	EA	62	0%	62	0.350	\$ 75.00	\$ 26.25	\$ -	\$ 26.25	\$ 1,627.50
452			Four-Plex Receptacle	EA	80	0%	80	0.400	\$ 75.00	\$ 30.00	\$ 47.71	\$ 77.71	\$ 6,216.80
453			Four-Plex Receptacle, GFI	EA	45	0%	45	0.415	\$ 75.00	\$ 31.13	\$ 52.89	\$ 84.02	\$ 3,780.68

E2.0, E3.0, E6.0
& E7.0

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

Table with columns: SR #, Drawing #, Detail #, DESCRIPTION, UNIT, QUANTITY, WASTAGE, QUANTITY W/ WASTAGE, UNIT MANHOUR, HOURLY WAGE, LABOR COST, MAT. COST, UNIT COST, SUB COST. Rows include items like Over Counter Duplex Receptacle, LED Recessed Box, Wall Sconce LED, and various lighting fixtures.

DETAILED BREAKDOWN OF ITEMS

Prepared for:
 Project ID:
 Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
499			Three-Way Switch	EA	7	0%	7	0.280	\$ 75.00	\$ 21.00	\$ 21.00	\$ 42.00	\$ 294.00
500			Vacancy Sensor Switch	EA	81	0%	81	0.280	\$ 75.00	\$ 21.00	\$ 22.85	\$ 43.85	\$ 3,551.85
MISCELLANEOUS													
501			Junction Box	EA	16	0%	16	0.350	\$ 75.00	\$ 26.25	\$ 65.00	\$ 91.25	\$ 1,460.00
502			Junction Box, Weather Proof	EA	5	0%	5	0.350	\$ 75.00	\$ 26.25	\$ 72.00	\$ 98.25	\$ 491.25
503			Pull Box	EA	25	0%	25	0.450	\$ 75.00	\$ 33.75	\$ 83.25	\$ 117.00	\$ 2,925.00

SUBTOTAL \$ 1,568,654

PROJECTED COST													\$3,848,112
OVERHEAD AND PROFIT												15%	\$577,217
INSURANCE												3%	\$115,443
CONTINGENCY												5%	\$192,406
TAX												7%	\$0
SUGGESTED BID													\$4,733,178

Note:

1. Please verify the equipment's and their prices with owner.
2. Online sources are used for pricing.
3. Prices can vary depending upon field conditions.

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOURL	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 35,000.00	\$ 35,000.00
2			Supervision and Coordination	LS	6	0%	6	0.000	\$ -	\$ -	\$ -	\$ 25,000.00	\$ 150,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 12,000.00	\$ 12,000.00
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 22,000.00	\$ 22,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 150,000.00	\$ 150,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 65,000.00	\$ 65,000.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 10,000.00	\$ 10,000.00
												SUBTOTAL	\$ 444,000

PLUMBING

COLD WATER PIPE (BELOW GRADE)													
Type "K" Soft Annealed Copper Tube, ASTM B 88M													
8			2" Dia Domestic Cold Water Pipe	LF	28	10%	31	0.045	\$ 72.00	\$ 3.24	\$ 49.59	\$ 52.83	\$ 1,650.41
9			3" Dia Domestic Cold Water Pipe	LF	4	10%	4	0.055	\$ 72.00	\$ 3.96	\$ 88.75	\$ 92.71	\$ 397.73
COLD WATER PIPE (ABOVE GRADE)													
Type "L" Hard Drawn Copper Tube, ASTM B 88M													
10			3/4" Dia Domestic Cold Water Pipe	LF	28	10%	31	0.042	\$ 72.00	\$ 3.02	\$ 5.44	\$ 8.46	\$ 262.74
11			1-1/4" Dia Domestic Cold Water Pipe	LF	38	10%	42	0.050	\$ 72.00	\$ 3.60	\$ 8.56	\$ 12.16	\$ 506.01
12			1-1/2" Dia Domestic Cold Water Pipe	LF	31	10%	34	0.052	\$ 72.00	\$ 3.74	\$ 9.69	\$ 13.43	\$ 457.66
13			2" Dia Domestic Cold Water Pipe	LF	20	10%	23	0.055	\$ 72.00	\$ 3.96	\$ 20.40	\$ 24.36	\$ 548.78
		Assumed	3/4" Thick Fiberglass Insulation										
14			3/4" Dia Domestic Cold Water Pipe	LF	28	10%	31	0.067	\$ 72.00	\$ 4.82	\$ 5.22	\$ 10.04	\$ 311.79
15			1-1/4" Dia Domestic Cold Water Pipe	LF	38	10%	42	0.069	\$ 72.00	\$ 4.97	\$ 8.95	\$ 13.92	\$ 579.17
16			1-1/2" Dia Domestic Cold Water Pipe	LF	31	10%	34	0.073	\$ 72.00	\$ 5.26	\$ 9.83	\$ 15.09	\$ 513.93
17			2" Dia Domestic Cold Water Pipe	LF	20	10%	23	0.076	\$ 72.00	\$ 5.47	\$ 14.57	\$ 20.04	\$ 451.43
COLD WATER PIPE FITTINGS:													
ELBOW:													
18			3/4" Dia Domestic Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	0.233	\$ 72.00	\$ 16.78	\$ 15.00	\$ 31.78	\$ 31.78
19			1-1/4" Dia Domestic Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 28.00	\$ 56.80	\$ 56.80
20			1-1/2" Dia Domestic Cold Water Pipe 90 Deg Elbow	EA	3	0%	3	0.420	\$ 72.00	\$ 30.24	\$ 37.00	\$ 67.24	\$ 201.72
21			2" Dia Domestic Cold Water Pipe 90 Deg Elbow	EA	3	0%	3	0.440	\$ 72.00	\$ 31.68	\$ 66.00	\$ 97.68	\$ 293.04
TEE:													
22			3/4" Dia Domestic Cold Water Pipe Tee	EA	1	0%	1	0.580	\$ 72.00	\$ 41.76	\$ 11.90	\$ 53.66	\$ 53.66
23			2" / 3/4" Dia Domestic Cold Water Pipe Tee	EA	1	0%	1	0.712	\$ 72.00	\$ 51.26	\$ 150.00	\$ 201.26	\$ 201.26
24			2" / 1-1/2" Dia Domestic Cold Water Pipe Tee	EA	1	0%	1	0.850	\$ 72.00	\$ 61.20	\$ 175.00	\$ 236.20	\$ 236.20
REDUCER:													
25			2" / 1-1/2" Dia Domestic Cold Water Pipe Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 172.00	\$ 200.80	\$ 200.80
HOT WATER PIPE (ABOVE GRADE)													
Type "L" Hard Drawn Copper Tube, ASTM B 88M													
26			3/4" Dia Domestic Hot Water Pipe	LF	36	10%	39	0.055	\$ 72.00	\$ 3.96	\$ 5.44	\$ 9.40	\$ 370.59
		Size Assumed	3/4" Thick Fiberglass Insulation										
27			3/4" Dia Domestic Hot Water Pipe	LF	36	10%	39	0.420	\$ 72.00	\$ 30.24	\$ 37.00	\$ 67.24	\$ 2,650.87
HOT WATER PIPE FITTINGS:													
ELBOW:													
28			3/4" Dia Domestic Hot Water Pipe 90 Deg Elbow	EA	4	0%	4	0.233	\$ 72.00	\$ 16.78	\$ 15.00	\$ 31.78	\$ 127.10

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			TEE:										
29			3/4" Dia Domestic Hot Water Pipe Tee	EA	1	0%	1	0.580	\$ 72.00	\$ 41.76	\$ 11.90	\$ 53.66	\$ 53.66
			SANITARY PIPE (BELOW GRADE)										
			DWV Schedule 40 PVC										
30			4" Dia Sanitary Pipe	LF	254	10%	279	0.069	\$ 72.00	\$ 4.97	\$ 5.88	\$ 10.84	\$ 3,029.34
31			6" Dia Sanitary Pipe	LF	104	10%	114	0.072	\$ 72.00	\$ 5.18	\$ 19.50	\$ 24.68	\$ 2,811.36
			SANITARY PIPE FITTINGS:										
			ELBOW:										
32			4" Dia Sanitary Pipe 90 Deg Elbow	EA	26	0%	26	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 1,815.32
33			4" Dia Sanitary Pipe 45 Deg Elbow	EA	24	0%	24	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 1,675.68
34			6" Dia Sanitary Pipe 45 Deg Elbow	EA	2	0%	2	0.685	\$ 72.00	\$ 49.32	\$ 125.00	\$ 174.32	\$ 348.64
			WYE:										
35			4" Dia Sanitary Pipe Wye	EA	30	0%	30	0.625	\$ 72.00	\$ 45.00	\$ 51.00	\$ 96.00	\$ 2,880.00
36			6" Dia Sanitary Pipe Wye	EA	2	0%	2	0.755	\$ 72.00	\$ 54.36	\$ 250.00	\$ 304.36	\$ 608.72
37			6" / 4" Dia Sanitary Pipe Wye	EA	7	0%	7	0.958	\$ 72.00	\$ 68.98	\$ 65.00	\$ 133.98	\$ 937.83
			REDUCER:										
38			6" / 4" Dia Sanitary Pipe Reducer	EA	2	0%	2	0.865	\$ 72.00	\$ 62.28	\$ 58.00	\$ 120.28	\$ 240.56
			SANITARY PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
39			4" Dia Sanitary Pipe	LF	24	10%	26	0.069	\$ 72.00	\$ 4.97	\$ 5.88	\$ 10.84	\$ 287.00
			SANITARY PIPE FITTINGS:										
			REDUCER:										
40			4" / 3" Dia Sanitary Pipe Reducer	EA	10	0%	10	0.655	\$ 72.00	\$ 47.16	\$ 23.50	\$ 70.66	\$ 706.60
			VENT PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
41			3" Dia Vent Pipe	LF	142	10%	157	0.065	\$ 72.00	\$ 4.68	\$ 7.88	\$ 12.56	\$ 1,965.57
42			4" Dia Vent Pipe	LF	13	10%	14	0.069	\$ 72.00	\$ 4.97	\$ 5.88	\$ 10.84	\$ 151.73
			VENT PIPE FITTINGS:										
			ELBOW:										
43			3" Dia Vent Pipe 90 Deg Elbow	EA	8	0%	8	0.410	\$ 72.00	\$ 29.52	\$ 21.50	\$ 51.02	\$ 408.16
44			4" Dia Vent Pipe 90 Deg Elbow	EA	1	0%	1	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 69.82
			TEE:										
45			3" Dia Vent Pipe Tee	EA	6	0%	6	0.410	\$ 72.00	\$ 29.52	\$ 21.50	\$ 51.02	\$ 306.12
			STORM DRAIN PIPE (BELOW GRADE)										
			DWV Schedule 40 PVC										
46			6" Dia Storm Pipe Line	LF	11	10%	12	0.072	\$ 72.00	\$ 5.18	\$ 19.50	\$ 24.68	\$ 292.70
47			8" Dia Storm Drain Pipe	LF	13	10%	14	0.075	\$ 72.00	\$ 5.40	\$ 36.14	\$ 41.54	\$ 594.02
			STORM DRAIN PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
48			4" Dia Storm Pipe	LF	27	10%	29	0.069	\$ 72.00	\$ 4.97	\$ 7.88	\$ 12.85	\$ 378.13
49			6" Dia Storm Pipe	LF	12	10%	13	0.072	\$ 72.00	\$ 5.18	\$ 19.50	\$ 24.68	\$ 330.99
50			8" Dia Storm Pipe	LF	65	10%	71	0.075	\$ 72.00	\$ 5.40	\$ 36.14	\$ 41.54	\$ 2,947.72
			STORM DRAIN PIPE FITTINGS:										
			ELBOW:										
51			4" Dia Storm Pipe 90 Deg Elbow	EA	2	0%	2	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 139.64
52			8" Dia Storm Pipe 90 Deg Elbow	EA	3	0%	3	0.788	\$ 72.00	\$ 56.74	\$ 315.00	\$ 371.74	\$ 1,115.21
53			4" Dia Storm Pipe 45 Deg Elbow	EA	1	0%	1	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 69.82
			WYE:										
54			8" Dia Storm Pipe Wye	EA	1	0%	1	0.885	\$ 72.00	\$ 63.72	\$ 450.00	\$ 513.72	\$ 513.72

M200, M300,
M301

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
55			8" / 4" Dia Storm Pipe Wye	EA	2	0%	2	0.985	\$ 72.00	\$ 70.92	\$ 245.00	\$ 315.92	\$ 631.84
			REDUCER:										
56			8" / 6" Dia Storm Pipe Reducer	EA	1	0%	1	0.963	\$ 72.00	\$ 69.34	\$ 94.00	\$ 163.34	\$ 163.34
			PLUMBING FIXTURES										
57			NFHB: 1-1/4" Dia Exterior Hose Bib, WATTS HY-725-6-K, Accessories	EA	1	0%	1	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 2,788.00
58			Lavatory	EA	4	0%	4	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 2,788.00
59			Water Closet	EA	6	0%	6	3.019	\$ 72.00	\$ 217.37	\$ 895.00	\$ 1,112.37	\$ 6,674.21
			WATER HEATER										
60			DWHT: Domestic Water Heater, AO SMITH BTH-500 MXI, Capacity (GAL): 119, Heating (MBH): 399, Electrical Requirements (V): 208, Phase(s): 1, Fittings (Ft): 60, Shipping Weight (Lbs): 625, Notes: 1. Install A	EA	1	0%	1	1.500	\$ 72.00	\$ 108.00	\$ 48.48	\$ 156.48	\$ 156.48
			WATER HEATER ACCESSORIES										
61			Expansion Tank	EA	1	0%	1	1.500	\$ 72.00	\$ 108.00	\$ 48.48	\$ 156.48	\$ 156.48
			MISCELLANEOUS										
62			1-1/2" Dia Pipe End Cap	EA	1	0%	1	0.020	\$ 72.00	\$ 1.44	\$ 5.15	\$ 6.59	\$ 6.59
63			4" Dia Pipe End Cap	EA	3	0%	3	0.048	\$ 72.00	\$ 3.46	\$ 27.00	\$ 30.46	\$ 91.37
			CLEANOUTS & DRAINS:										
64			4" Dia Roof Drain	EA	2	0%	2	1.000	\$ 72.00	\$ 72.00	\$ 75.79	\$ 147.79	\$ 295.58
65			8" Dia Clean Out	EA	2	0%	2	1.330	\$ 72.00	\$ 95.76	\$ 250.22	\$ 345.98	\$ 691.96
66			4" Dia Clean Out	EA	8	0%	8	1.000	\$ 72.00	\$ 72.00	\$ 55.37	\$ 127.37	\$ 1,018.96
67			4" Dia, FD-1: Floor Drain, WATTS FD-104-NH-C-A5-1-6, Accessories: 1. Epoxy Coated Cast Iron Floor Drain With Anchor Flange 2. Reverse Osmosis Membrane 20 Amp With Filter And Sediment Wiper 3. 1/2" Dia THK 125Mm Dia A	EA	1	0%	1	1.000	\$ 72.00	\$ 72.00	\$ 55.37	\$ 127.37	\$ 1,018.96
			VALVES:										
68			3/4" Dia Insulation Valve	EA	4	0%	4	0.400	\$ 72.00	\$ 28.80	\$ 97.62	\$ 126.42	\$ 505.68
69			1-1/2" Dia Insulation Valve	EA	1	0%	1	0.522	\$ 72.00	\$ 37.58	\$ 29.47	\$ 67.05	\$ 67.05
70			1-1/4" Dia Insulation Valve	EA	3	0%	3	0.500	\$ 72.00	\$ 36.00	\$ 25.58	\$ 61.58	\$ 184.74
71			2" Dia By-Pass Valve	EA	1	0%	1	0.576	\$ 72.00	\$ 41.47	\$ 41.99	\$ 83.46	\$ 83.46
72			2" Dia Drainage Valve	EA	1	0%	1	0.655	\$ 72.00	\$ 47.16	\$ 149.00	\$ 196.16	\$ 196.16
73			2" Dia Flushing Valve	EA	1	0%	1	0.695	\$ 72.00	\$ 50.04	\$ 669.99	\$ 720.03	\$ 720.03
74			2" Dia Inlet Valve	EA	1	0%	1	0.622	\$ 72.00	\$ 44.78	\$ 89.99	\$ 134.77	\$ 134.77
74			2" Dia Outlet Valve	EA	1	0%	1	0.622	\$ 72.00	\$ 44.78	\$ 89.99	\$ 134.77	\$ 134.77
75			Back Flow Preventer	EA	2	0%	2	0.950	\$ 72.00	\$ 68.40	\$ 256.10	\$ 324.50	\$ 649.00
			PVC COUPLING:										
76			3" Dia	EA	14	0%	14	0.622	\$ 72.00	\$ 44.78	\$ 2.04	\$ 46.82	\$ 666.26
77			4" Dia	EA	32	0%	32	0.645	\$ 72.00	\$ 46.44	\$ 6.42	\$ 52.86	\$ 1,691.52
78			6" Dia	EA	13	0%	13	0.733	\$ 72.00	\$ 52.78	\$ 15.27	\$ 68.05	\$ 884.60
79			8" Dia	EA	7	0%	7	0.812	\$ 72.00	\$ 58.46	\$ 36.36	\$ 94.82	\$ 663.77
			PIPE SUPPORT:										
80			3/4" Dia Adjustable Clevis Hanger	EA	10	0%	10	0.123	\$ 72.00	\$ 8.86	\$ 2.20	\$ 11.06	\$ 110.56
81			1-1/4" Dia Adjustable Clevis Hanger	EA	6	0%	6	0.142	\$ 72.00	\$ 10.22	\$ 2.28	\$ 12.50	\$ 75.02
82			1-1/2" Dia Adjustable Clevis Hanger	EA	5	0%	5	0.156	\$ 72.00	\$ 11.23	\$ 2.32	\$ 13.55	\$ 67.76
83			2" Dia Adjustable Clevis Hanger	EA	2	0%	2	0.159	\$ 72.00	\$ 11.45	\$ 2.68	\$ 14.13	\$ 28.26
84			3" Dia Adjustable Clevis Hanger	EA	14	0%	14	0.174	\$ 72.00	\$ 12.53	\$ 7.50	\$ 20.03	\$ 280.39
85			4" Dia Adjustable Clevis Hanger	EA	6	0%	6	0.178	\$ 72.00	\$ 12.82	\$ 7.21	\$ 20.03	\$ 120.16
86			6" Dia Adjustable Clevis Hanger	EA	1	0%	1	0.185	\$ 72.00	\$ 13.32	\$ 13.27	\$ 26.59	\$ 26.59
87			8" Dia Adjustable Clevis Hanger	EA	6	0%	6	0.193	\$ 72.00	\$ 13.90	\$ 24.65	\$ 38.55	\$ 231.28
88			3/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	21	0%	21	0.050	\$ 72.00	\$ 3.60	\$ 4.77	\$ 8.37	\$ 175.77
89			1/2" Dia Threaded Rod (1 Each = 1 Feet)	EA	22	0%	22	0.050	\$ 72.00	\$ 3.60	\$ 5.63	\$ 9.23	\$ 203.06
90			5/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	7	0%	7	0.055	\$ 72.00	\$ 3.96	\$ 6.22	\$ 10.18	\$ 71.26
			TRENCHING & BACKFILLING:										
91			Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	1242	0%	1242	0.625	\$ 72.00	\$ 45.00	\$ -	\$ 45.00	\$ 55,890.00
											SUBTOTAL	\$ 115,641	

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
HVAC													
GAS LINE													
Schedule 40 Electric-Resistance Weld (ERW)													
92			1" Dia Gas Line	LF	27	10%	30	0.072	\$ 75.00	\$ 5.40	\$ 8.25	\$ 13.65	\$ 408.26
93			2" Dia Gas Line	LF	109	10%	120	0.095	\$ 75.00	\$ 7.13	\$ 24.56	\$ 31.69	\$ 3,806.70
94			Below Grade 2" Dia Gas Line	LF	17	10%	19	0.120	\$ 75.00	\$ 9.00	\$ 24.56	\$ 33.56	\$ 626.10
GAS LINE FITTINGS:													
ELBOW:													
95			1" Dia Gas Line 90 Deg Elbow	EA	2	0%	2	0.200	\$ 75.00	\$ 15.00	\$ 7.25	\$ 22.25	\$ 44.50
96			2" Dia Gas Line 90 Deg Elbow	EA	4	0%	4	0.230	\$ 75.00	\$ 17.25	\$ 20.14	\$ 37.39	\$ 149.56
TEE:													
97			2" Dia Gas Line Tee	EA	2	0%	2	0.260	\$ 75.00	\$ 19.50	\$ 22.58	\$ 42.08	\$ 84.16
REDUCER:													
98			2" / 1" Dia Gas Line Reducer	EA	1	0%	1	0.250	\$ 75.00	\$ 18.75	\$ 19.64	\$ 38.39	\$ 38.39
CONDENSATE DRAIN PIPE													
Type "M" Copper													
99		Assumed	3/4" Dia Condensate Drain Pipe	LF	74	10%	81	0.063	\$ 75.00	\$ 4.73	\$ 3.56	\$ 8.29	\$ 674.31
Size Assumed													
100			1/2" Thick Fiberglass Insulation	LF	74	10%	81	0.024	\$ 75.00	\$ 1.80	\$ 3.40	\$ 5.20	\$ 423.22
CONDENSATE DRAIN FITTINGS:													
ELBOW:													
101			3/4" Dia Condensate Drain Pipe 90 Deg Elbow	EA	4	0%	4	0.320	\$ 75.00	\$ 24.00	\$ 6.48	\$ 30.48	\$ 121.92
AIR DEVICES													
102		Size Assumed	Transfer Air Grille, Face size: 12"x8", Neck Size: 12"x8"	EA	8	0%	8	0.385	\$ 75.00	\$ 28.88	\$ 48.64	\$ 77.52	\$ 620.12
ROOF TOP UNIT													
103			RTU-1: Roof Top Unit, DAIKIN DPS012A, Airflow (CFM): 4750, External Static Pressure (Inch): 1.5, Cooling Total Capacity (BTU/H): 124500, Heating Capacity (BTU/H): 150000, Min. in H2O: 5.0	EA	1	0%	1	8.500	\$ 2,050.00	\$ 17,225.00	\$ 1,245.00	\$ 1,500.00	\$ 12,450.00
104			RTU-2: Roof Top Unit, DAIKIN DPS003A, Airflow (CFM): 1200, External Static Pressure (Inch): 1.5, Cooling Total Capacity (BTU/H): 359,850, Heating Capacity (BTU/H): 60,000, Min. in H2O: 5.0	EA	1	0%	1	2.000	\$ 359.850	\$ 154.925	\$ 315.500	\$ 60.000	\$ 315.500
GAS METER													
105			Commercial Gas Meter And PRV Station	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 599.00	\$ 737.75	\$ 737.75
EXHAUST FAN													
106	M200, M302, M400		EF-1: Inline Exhaust Fan, COOK GN-542, Air Capacity (CFM): 800, Volts/PH/HZ: 115/1/60, AMPS (A): 1.2, Wattage: 108, ESP: 0.5, Weight (LBS): 30, Noise (dBA): 65, Ceiling Mount, Fan To Be In Continuous Operation	EA	1	0%	1	0.500	\$ 75.00	\$ 37.50	\$ 216.00	\$ 263.50	\$ 263.50
LOUVER													
107			L-1: Louver, Face Size: 12"x6", Neck Size: 8"x8"	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 210.63	\$ 234.63	\$ 469.26
108			Louver, Face Size: 6"x6", Neck Size: 6"x6" (Louver Assumed & Allowed As Per Legend)	EA	3	0%	3	0.285	\$ 75.00	\$ 21.38	\$ 117.87	\$ 139.25	\$ 417.74
109			Louver, Face Size: 8"x6", Neck Size: 8"x6" (Louver Assumed & Allowed As Per Legend)	EA	2	0%	2	0.300	\$ 75.00	\$ 22.50	\$ 144.21	\$ 166.71	\$ 333.42
110			Louver, Face Size: 8"x8", Neck Size: 8"x8" (Louver Assumed & Allowed As Per Legend)	EA	1	0%	1	0.325	\$ 75.00	\$ 24.38	\$ 198.71	\$ 223.09	\$ 223.09
111		Louver Assumed	Louver, Face Size: 12"x8", Neck Size: 12"x8" (Louver Assumed & Allowed As Per Legend)	EA	1	0%	1	0.385	\$ 75.00	\$ 28.88	\$ 245.42	\$ 274.30	\$ 274.30
DUCT WEIGHT													
112			Galvanized Sheet Metal Duct	LBS	1140	10%	1254	0.092	\$ 75.00	\$ 6.90	\$ 0.78	\$ 7.68	\$ 9,630.72
DUCT INSULATION													
113			1" Thick Thermal Insulation	SF	919	10%	1011	0.025	\$ 75.00	\$ 1.88	\$ 7.85	\$ 9.73	\$ 9,831.00
114			2" Thick Thermal Insulation	SF	118	10%	130	0.030	\$ 75.00	\$ 2.25	\$ 12.68	\$ 14.93	\$ 1,937.91
MISCELLANEOUS													
115			8"x8" Flexible Connections	EA	4	0%	4	0.400	\$ 75.00	\$ 30.00	\$ 28.72	\$ 58.72	\$ 234.88
116			20"x20" Supply Air Kitchen Duct Temporary Seal	EA	1	0%	1	0.240	\$ 75.00	\$ 18.00	\$ 32.50	\$ 50.50	\$ 50.50
117			20"x20" Exhaust Air Kitchen Duct Temporary Seal	EA	1	0%	1	0.240	\$ 78.00	\$ 18.72	\$ 32.50	\$ 51.22	\$ 51.22
VALVES:													
118			1" Dia Insulation Valve	EA	1	0%	1	0.280	\$ 75.00	\$ 21.00	\$ 28.35	\$ 49.35	\$ 49.35
119			2" Dia Insulation Valve	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 42.14	\$ 66.14	\$ 132.28
120			1" Dia Shutdown Valve	EA	1	0%	1	0.280	\$ 75.00	\$ 21.00	\$ 18.99	\$ 39.99	\$ 39.99

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: **MEP**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOURL	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
121			2" Dia Shutdown Valve	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 26.74	\$ 50.74	\$ 101.48
			PIPE SUPPORTS:						\$ 75.00				
122			1" Dia Adjustable Clevis Hanger	EA	4	0%	4	0.050	\$ 75.00	\$ 3.75	\$ 3.95	\$ 7.70	\$ 30.80
123			2" Dia Adjustable Clevis Hanger	EA	11	0%	11	0.062	\$ 75.00	\$ 4.65	\$ 6.67	\$ 11.32	\$ 124.52
124			3/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	4	0%	4	0.050	\$ 75.00	\$ 3.75	\$ 4.77	\$ 8.52	\$ 34.08
125			1/2" Dia Threaded Rod (1 Each = 1 Feet)	EA	11	0%	11	0.050	\$ 75.00	\$ 3.75	\$ 5.40	\$ 9.15	\$ 100.65
			DUCT SUPPORTS:										
126			3/8" Threaded Rod	EA	52	0%	52	0.050	\$ 75.00	\$ 3.75	\$ 4.77	\$ 8.52	\$ 443.04
127			1" x 22 Ga. Strap	EA	26	0%	26	0.160	\$ 75.00	\$ 12.00	\$ 2.64	\$ 14.64	\$ 380.64
												SUBTOTAL	\$ 50,680

ELECTRICAL

DISTRIBUTION													
			CONDUIT:										
128			2" EMT Conduit	LF	8	10%	8	0.100	\$ 75.00	\$ 7.50	\$ 6.44	\$ 13.94	\$ 115.31
129			3" EMT Conduit	LF	7	10%	7	0.160	\$ 75.00	\$ 12.00	\$ 10.70	\$ 22.70	\$ 164.80
			CONDUCTOR:										
130			#6 AL RW90 NUAL (AA-8030)	LF	8	10%	8	0.012	\$ 75.00	\$ 0.92	\$ 2.63	\$ 3.56	\$ 29.41
131			#4 AL RW90 NUAL (AA-8030)	LF	7	10%	7	0.015	\$ 75.00	\$ 1.13	\$ 2.98	\$ 4.11	\$ 29.85
132			#1 AL RW90 NUAL (AA-8030)	LF	32	10%	35	0.020	\$ 75.00	\$ 1.50	\$ 1.38	\$ 2.88	\$ 101.27
133			#250 KCMIL, AL RW90 NUAL (AA-8030)	LF	28	10%	31	0.040	\$ 75.00	\$ 3.00	\$ 2.70	\$ 5.70	\$ 175.56
			LUGS:										
134			Compression Lug AL With 1-Hole , #6 AL Wire	EA	2	0%	2	0.150	\$ 75.00	\$ 11.25	\$ 2.53	\$ 13.78	\$ 27.56
			Heat Shrink Tubing for #6 AL Wire	EA	2	0%	2	0.120	\$ 75.00	\$ 9.00	\$ 1.29	\$ 10.29	\$ 20.58
135			Compression Lug AL With 1-Hole , #4 AL Wire	EA	2	0%	2	0.200	\$ 75.00	\$ 15.00	\$ 3.45	\$ 18.45	\$ 36.90
			Heat Shrink Tubing for #4 AL Wire	EA	2	0%	2	0.120	\$ 75.00	\$ 9.00	\$ 1.47	\$ 10.47	\$ 20.94
136			Compression Lug AL With 1-Hole , #1 AL Wire	EA	8	0%	8	0.250	\$ 75.00	\$ 18.75	\$ 4.89	\$ 23.64	\$ 189.12
			Heat Shrink Tubing for #1 AL Wire	EA	8	0%	8	0.120	\$ 75.00	\$ 9.00	\$ 1.74	\$ 10.74	\$ 85.92
137			Compression Lug AL With 1-Hole , #250 KCMIL AL Wire	EA	8	0%	8	0.400	\$ 75.00	\$ 30.00	\$ 24.00	\$ 54.00	\$ 432.00
			Heat Shrink Tubing for #250 KCMIL AL Wire	EA	8	0%	8	0.120	\$ 75.00	\$ 9.00	\$ 2.55	\$ 11.55	\$ 92.40
			CIRCUIT BREAKER:										
138			1P/20A Breaker	EA	2	0%	2	1.200	\$ 75.00	\$ 90.00	\$ 465.00	\$ 555.00	\$ 1,110.00
139			3P/30A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
140			3P/60A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
141			3P/100A Breaker	EA	1	0%	1	2.000	\$ 75.00	\$ 150.00	\$ 554.51	\$ 704.51	\$ 704.51
142			3P/200A Breaker	EA	1	0%	1	2.500	\$ 75.00	\$ 187.50	\$ 3,729.28	\$ 3,916.78	\$ 3,916.78
			PANEL:										
143			Panel CL: 100A, 208Y/120V, 3PH, 4W, Mains: MLO, 22K AIC, EA Poles, Flush Mounted	EA	1	0%	1	1.950	\$ 75.00	\$ 146.25	\$ 1,250.00	\$ 1,396.25	\$ 1,396.25
144			Panel PI: 200A, 208Y/120V, 3PH, 4W, Mains: MLO, 22K	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,560.00	\$ 2,758.75	\$ 2,758.75
			DEVICES:										
145			TX-1 Utility Transformer (With Concrete Base)	EA	1	0%	1	7.560	\$ 75.00	\$ 567.00	\$ 20,089.00	\$ 20,656.00	\$ 20,656.00
146			Utility Meter And CT Cabinet	EA	1	0%	1	2.560	\$ 75.00	\$ 192.00	\$ 2,219.00	\$ 2,411.00	\$ 2,411.00
			DISCONNECT SWITCH:										
147			3P/30A Disconnect Switch (Assumed From Panel Schedule)	EA	1	0%	1	0.950	\$ 75.00	\$ 71.25	\$ 222.27	\$ 293.52	\$ 293.52
148			3P/60A Disconnect Switch (Assumed From Panel Schedule)	EA	1	0%	1	1.150	\$ 75.00	\$ 86.25	\$ 425.69	\$ 511.94	\$ 511.94
149			400A/400AF Disconnect Switch	EA	1	0%	1	2.150	\$ 75.00	\$ 161.25	\$ 1,393.77	\$ 1,555.02	\$ 1,555.02
			POWER										
			CONDUIT:										
150			3/4" EMT Conduit	LF	20	10%	22	0.062	\$ 75.00	\$ 4.65	\$ 1.52	\$ 6.17	\$ 135.74
151			1" EMT Conduit	LF	10	10%	11	0.070	\$ 75.00	\$ 5.25	\$ 2.56	\$ 7.81	\$ 85.91

E1.1, E2.0, E3.0
.E4.0 & E6.0

DETAILED BREAKDOWN OF ITEMS

Prepared for:
 Project ID:
 Scope: **MEP E4.0 & E6.0**



Date: **08/30/23**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
152			3/4" RGS Conduit	LF	153	10%	168	0.100	\$ 75.00	\$ 7.50	\$ 3.78	\$ 11.28	\$ 1,898.42
153			1" RGS Conduit	LF	61	10%	67	0.123	\$ 75.00	\$ 9.23	\$ 5.74	\$ 14.97	\$ 1,000.86
			CONDUCTOR:										
154			#10 CU RW90 X-LINK	LF	641	10%	705	0.008	\$ 75.00	\$ 0.60	\$ 1.45	\$ 2.05	\$ 1,445.46
155			#6 CU RW90 X-LINK	LF	212	10%	233	0.012	\$ 75.00	\$ 0.92	\$ 2.63	\$ 3.56	\$ 829.20
			DEVICE:										
156			Duplex Receptacle 20A, GFI, WP	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 35.89	\$ 59.89	\$ 119.78
			LIGHTING										
			CONDUIT:										
157		For Wall Mounted LED Pack	3/4" EMT Conduit With Pull String	LF	611	10%	672	0.062	\$ 75.00	\$ 4.65	\$ 1.52	\$ 6.17	\$ 4,146.86
158			1" EMT Conduit	LF	253	10%	278	0.070	\$ 75.00	\$ 5.25	\$ 2.56	\$ 7.81	\$ 2,173.52
			CONDUCTOR:										
159			#8 CU RW90 X-LINK	LF	506	10%	557	0.010	\$ 75.00	\$ 0.75	\$ 1.65	\$ 2.40	\$ 1,335.84
160			#10 CU RW90 X-LINK	LF	253	10%	278	0.008	\$ 75.00	\$ 0.60	\$ 1.45	\$ 2.05	\$ 570.52
			LIGHTING FIXTURES:						\$ 75.00				
161			202: Linear Light LED, METALUX - 4CWPLD4040C, 4000K Mounted: Ceiling Surface Mounted Watt: 43	EA	11	0%	11	0.420	\$ 75.00	\$ 31.50	\$ 82.67	\$ 114.17	\$ 1,255.87
			MISCELLANEOUS										
162			Junction Box (For Wall Mounted LED Pack)	EA	5	0%	5	0.350	\$ 75.00	\$ 26.25	\$ 65.00	\$ 91.25	\$ 456.25
163			Junction Box (For Signage)	EA	2	0%	2	0.350	\$ 75.00	\$ 26.25	\$ 65.00	\$ 91.25	\$ 182.50
SUBTOTAL												\$	53,917

PROJECTED COST												\$	664,237
OVERHEAD AND PROFIT												15%	\$99,636
INSURANCE												3%	\$19,927
CONTINGENCY												5%	\$33,212
TAX												7%	\$8,154
SUGGESTED BID													\$825,166

- Note:**
- Please verify the equipment's and their prices with owner.
 - Online sources are used for pricing.
 - Prices can vary depending upon field conditions.