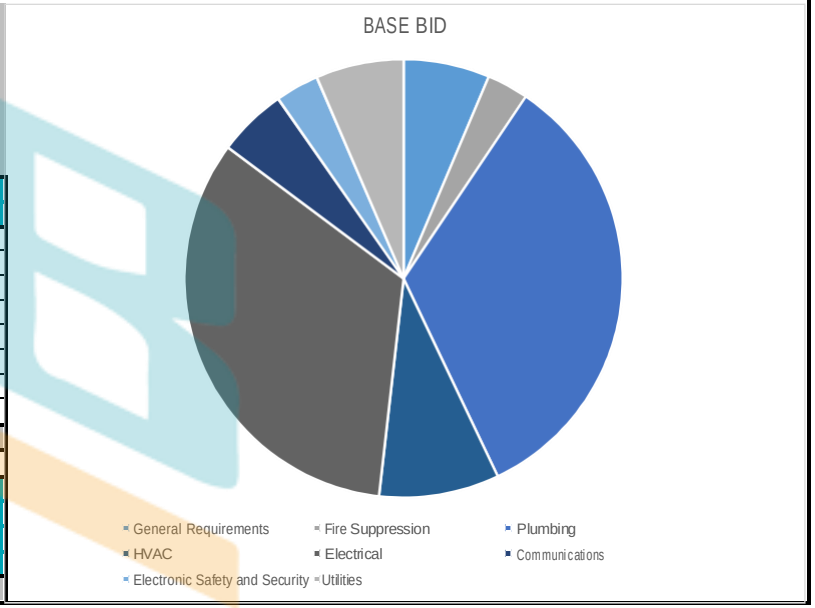
GENERAL SUMMARY

Prepared for: Springhill Suites, 1520 Cornerstone Blvd Daytona Beach, FL 32117
Project ID:
Scope: GC
No. Of Floors: 5
Date: 13-May-25

BUILDING GSF	81564
1st Floor (SF)	16860
2nd Floor (SF)	16176
3rd Floor (SF)	16176
4rth Floor (SF)	16176
5th Floor (SF)	16176

DIVISION NO	DESCRIPTION	BASE BID TOTAL DIV. COST	ALTERNATE TOTAL DIV. COST
1000	General Requirements	$ 438,000	$ 438,000
21000	Fire Suppression	$ 211,140	$ 211,140
22000	Plumbing	$ 2,310,202	$ 2,310,202
23000	HVAC	$ 609,999	$ 609,999
26000	Electrical	$ 2,303,297	$ 2,370,048
27000	Communications	$ 351,795	$ 410,134
28000	Electronic Safety and Security	$ 221,674	$ 221,674
33000	Utilities	$ 446,880	$ 446,880
TOTAL TRADE COST		**$ 6,892,988**	**$ 7,018,078**
OVERHEAD AND PROFIT	**15%**	$ 1,033,948	$ 1,052,712
INSURANCE	**3%**	$ 206,790	$ 210,542
CONTINGENCY	**5%**	$ 344,649	$ 350,904
TAX	**6.5%**	$ 448,044	$ 456,175
SUGGESTED BID		**$ 8,926,420**	**$ 9,088,411**



COST BIDDING
A Mark of Excellence

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	$ -	$ -	$ -		$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 142,000.00	$ 142,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 15,000.00	$ 15,000.00
4			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 20,000.00	$ 20,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 215,000.00	$ 215,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 46,000.00	$ 46,000.00
7			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
												SUBTOTAL	**$ 438,000**
FIRE SUPPRESSION (SEE NOTE NO 3)													
			ALLOWANCE										
8			Allowance For Complete Fire Protection Piping With Associate Fittings (81564 SF)	LS	1	0%	1	0.000	$ -	$79,932.72	$ 119,899.08	$ 199,831.80	$ 199,831.80
			FIRE PROTECTION PIPE (BELOW GRADE)										
			Schedule 10 Black Steel Pipe										
9			6" Dia Fire Protection Pipe	LF	12	10%	13	0.571	$ 70.00	$ 39.97	$ 118.88	$ 158.85	$ 2,096.82
			FIRE PROTECTION PIPE FITTINGS										
			ELBOW										
10			6" Dia Fire Protection Pipe 90 Deg Elbow	EA	1	0%	1	0.960	$ 70.00	$ 67.20	$ 389.61	$ 456.81	$ 456.81
			DRAIN PIPE (ABOVE GRADE)										
		Assumed	**Type "L" Copper Pipe With Soldered Joints**										
11			2" Dia Drain Pipe	LF	6	10%	7	0.190	$ 70.00	$ 13.30	$ 17.88	$ 31.18	$ 205.79
			DRAIN PIPE FITTINGS										
			ELBOW										
12			2" Dia Drain Pipe 90 Deg Elbow	EA	1	0%	1	0.727	$ 70.00	$ 50.89	$ 21.48	$ 72.37	$ 72.37
13	FP100 & FP101		2" Dia Drain Pipe 45 Deg Elbow	EA	1	0%	1	0.727	$ 70.00	$ 50.89	$ 23.48	$ 74.37	$ 74.37
			FIRE PUMP										
14		**As Required**	Fire Booster Pump	EA	1	0%	1	5.220	$ 70.00	$ 365.40	$ 4,456.62	$ 4,822.02	$ 4,822.02
			SPRINKLER RISER DETAILS										
15			Pressure Gauge, AMETEK; U.S. Gauge Division, 0 to 250 PSIG Minim	EA	2	0%	2	0.320	$ 70.00	$ 22.40	$ 45.00	$ 67.40	$ 134.80
16			Spare Head Box W/ Heads & Wrench	EA	1	0%	1	0.250	$ 70.00	$ 17.50	$ 28.00	$ 45.50	$ 45.50
17			2" Dia Fire Department Connection (FDC), Flush Mounted Chrome Fin	EA	1	0%	1	3.333	$ 70.00	$ 233.31	$ 785.00	$ 1,018.31	$ 1,018.31
18			2" Dia Butterfly Valve, FIVALCO INC., Bronze	EA	1	0%	1	1.000	$ 70.00	$ 70.00	$ 365.00	$ 435.00	$ 435.00
19			2" Dia Check Valve, FIVALCO INC., Bronze	EA	2	0%	2	0.750	$ 70.00	$ 52.50	$ 302.00	$ 354.50	$ 709.00
20			2" Dia Automatic Drip Valve, NIBCO INC. End Connections: Threaded	EA	1	0%	1	0.850	$ 70.00	$ 59.50	$ 135.00	$ 194.50	$ 194.50
21			2" Dia Main Drain Valve, NIBCO INC.	EA	1	0%	1	0.980	$ 70.00	$ 68.60	$ 658.00	$ 726.60	$ 726.60
22			6" Dia Flange, Cast-Iron Flanges And Class 150, Bronze Flat-Face Flan	EA	1	0%	1	0.250	$ 70.00	$ 17.50	$ 85.00	$ 102.50	$ 102.50
			MISCELLANEOUS										
			TRENCHING & BACKFILLING:										
23			Excavation & Backfilling (3' Deep x 1'Wide Trench) Including All Labor and Material/Equipment	CFT	36	0%	36	0.085	$ 70.00	$ 5.95	$ -	$ 5.95	$ 214.20
												SUBTOTAL	**$ 211,140**
PLUMBING (SEE NOTE NO 4)													
			COLD WATER PIPE (BELOW GRADE)										
		Assumed	**Copper Pipe**										
24			3" Dia Cold Water Pipe	LF	6	10%	7	0.286	$ 70.00	$ 20.02	$ 35.46	$ 55.48	$ 366.17
			COLD WATER PIPE FITTINGS										
			ELBOW										
25			3" Dia Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	1.455	$ 70.00	$ 101.85	$ 61.44	$ 163.29	$ 163.29
			COLD WATER PIPE (ABOVE GRADE)										
		Assumed	**Type "L" Copper Pipe**										
26			1/2" Dia Cold Water Pipe	LF	3653	10%	4018	0.099	$ 70.00	$ 6.93	$ 3.56	$ 10.49	$ 42,151.97
27			3/4" Dia Cold Water Pipe	LF	2736	10%	3010	0.105	$ 70.00	$ 7.35	$ 5.00	$ 12.35	$ 37,168.56
28			1" Dia Cold Water Pipe	LF	1018	10%	1120	0.118	$ 70.00	$ 8.26	$ 6.84	$ 15.10	$ 16,908.98
29			1-1/4" Dia Cold Water Pipe	LF	447	10%	492	0.138	$ 70.00	$ 9.66	$ 9.14	$ 18.80	$ 9,243.96
30			1-1/2" Dia Cold Water Pipe	LF	12	10%	13	0.154	$ 70.00	$ 10.78	$ 11.39	$ 22.17	$ 292.64
31			3" Dia Cold Water Pipe	LF	291	10%	320	0.286	$ 70.00	$ 20.02	$ 35.46	$ 55.48	$ 17,759.15
			Schedule 40 Steel Pipe										
32			1/2" Dia Cold Water Pipe	LF	10	10%	11	0.105	$ 70.00	$ 7.35	$ 9.86	$ 17.21	$ 189.31
33			3/4" Dia Cold Water Pipe	LF	7	10%	8	0.113	$ 70.00	$ 7.91	$ 11.69	$ 19.60	$ 150.92
34			1" Dia Cold Water Pipe	LF	16	10%	18	0.127	$ 70.00	$ 8.89	$ 13.74	$ 22.63	$ 398.29
35			1-1/2" Dia Cold Water Pipe	LF	43	10%	47	0.157	$ 70.00	$ 10.99	$ 20.98	$ 31.97	$ 1,512.18
			1" Thick Flexible Elastomeric Insulation										
36			1/2" Dia Cold Water Pipe	LF	3653	10%	4018	0.067	$ 70.00	$ 4.69	$ 2.47	$ 7.16	$ 28,771.03
37			3/4" Dia Cold Water Pipe	LF	2736	10%	3010	0.070	$ 70.00	$ 4.90	$ 2.72	$ 7.62	$ 22,933.15
38			1" Dia Cold Water Pipe	LF	1018	10%	1120	0.073	$ 70.00	$ 5.11	$ 2.85	$ 7.96	$ 8,913.61
39			1-1/4" Dia Cold Water Pipe	LF	447	10%	492	0.073	$ 70.00	$ 5.11	$ 3.15	$ 8.26	$ 4,061.44
40			1-1/2" Dia Cold Water Pipe	LF	12	10%	13	0.073	$ 70.00	$ 5.11	$ 3.39	$ 8.50	$ 112.20
41			3" Dia Cold Water Pipe	LF	291	10%	320	0.089	$ 70.00	$ 6.23	$ 4.40	$ 10.63	$ 3,402.66
		Assumed	**1" Thick Flexible Elastomeric Insulation**										
42			1/2" Dia Cold Water Pipe	LF	10	10%	11	0.067	$ 70.00	$ 4.69	$ 2.47	$ 7.16	$ 78.76
43			3/4" Dia Cold Water Pipe	LF	7	10%	8	0.070	$ 70.00	$ 4.90	$ 2.72	$ 7.62	$ 58.67
44			1" Dia Cold Water Pipe	LF	16	10%	18	0.073	$ 70.00	$ 5.11	$ 2.85	$ 7.96	$ 140.10
45			1-1/2" Dia Cold Water Pipe	LF	43	10%	47	0.073	$ 70.00	$ 5.11	$ 3.39	$ 8.50	$ 402.05
			COLD WATER PIPE FITTINGS										
			ELBOW										
46			1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	807	0%	807	0.400	$ 70.00	$ 28.00	$ 1.21	$ 29.21	$ 23,572.47
47			3/4" Dia Cold Water Pipe 90 Deg Elbow	EA	151	0%	151	0.421	$ 70.00	$ 29.47	$ 2.62	$ 32.09	$ 4,845.59
48			1" Dia Cold Water Pipe 90 Deg Elbow	EA	11	0%	11	0.500	$ 70.00	$ 35.00	$ 5.94	$ 40.94	$ 450.34
49			1-1/4" Dia Cold Water Pipe 90 Deg Elbow	EA	27	0%	27	0.533	$ 70.00	$ 37.31	$ 8.29	$ 45.60	$ 1,231.20
50			1-1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	5	0%	5	0.615	$ 70.00	$ 43.05	$ 14.24	$ 57.29	$ 286.45
51			3" Dia Cold Water Pipe 90 Deg Elbow	EA	5	0%	5	1.455	$ 70.00	$ 101.85	$ 61.44	$ 163.29	$ 816.45
			TEE										
52			1/2" Dia Cold Water Pipe Tee	EA	5	0%	5	0.615	$ 70.00	$ 43.05	$ 1.89	$ 44.94	$ 224.70
53			3/4" Dia Cold Water Pipe Tee	EA	113	0%	113	0.667	$ 70.00	$ 46.69	$ 4.52	$ 51.21	$ 5,786.73
54			1" Dia Cold Water Pipe Tee	EA	8	0%	8	0.800	$ 70.00	$ 56.00	$ 13.64	$ 69.64	$ 557.12
55			3" Dia Cold Water Pipe Tee	EA	5	0%	5	2.286	$ 70.00	$ 160.02	$ 127.87	$ 287.89	$ 1,439.45
56			3/4" / 1/2" Dia Cold Water Pipe Tee	EA	114	0%	114	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 5,313.54
57			1" / 1/2" Dia Cold Water Pipe Tee	EA	1	0%	1	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 46.61
58			1" / 3/4" Dia Cold Water Pipe Tee	EA	75	0%	75	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 3,789.00
59			1-1/4" / 3/4" Dia Cold Water Pipe Tee	EA	26	0%	26	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 1,313.52
60			1-1/2" / 1/2" Dia Cold Water Pipe Tee	EA	4	0%	4	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 186.44
61			3" / 1/2" Dia Cold Water Pipe Tee	EA	2	0%	2	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 93.22
62			3" / 3/4" Dia Cold Water Pipe Tee	EA	2	0%	2	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 101.04
63			3" / 1" Dia Cold Water Pipe Tee	EA	4	0%	4	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 237.12
64			3" / 1-1/4" Dia Cold Water Pipe Tee	EA	28	0%	28	0.800	$ 70.00	$ 56.00	$ 13.09	$ 69.09	$ 1,934.52
			REDUCER										
65			3/4" / 1/2" Dia Cold Water Pipe Reducer	EA	223	0%	223	0.348	$ 70.00	$ 24.36	$ 1.36	$ 25.72	$ 5,735.56
66			1" / 3/4" Dia Cold Water Pipe Reducer	EA	3	0%	3	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 85.35
67			1-1/4" / 3/4" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 28.45
68			1-1/4" / 1" Dia Cold Water Pipe Reducer	EA	25	0%	25	0.410	$ 70.00	$ 28.70	$ 3.29	$ 31.99	$ 799.75
69			1-1/2" / 3/4" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 28.45
70			1-1/2" / 1" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.410	$ 70.00	$ 28.70	$ 3.29	$ 31.99	$ 31.99
71			3" / 1-1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 43.19
			HOT WATER PIPE (ABOVE GRADE)										
		Assumed	**Type "L" Copper Pipe**										
72			1/2" Dia Hot Water Pipe	LF	2425	10%	2668	0.099	$ 70.00	$ 6.93	$ 3.56	$ 10.49	$ 27,982.08
73			3/4" Dia Hot Water Pipe	LF	2922	10%	3214	0.105	$ 70.00	$ 7.35	$ 5.00	$ 12.35	$ 39,695.37
74			1" Dia Hot Water Pipe	LF	1006	10%	1107	0.118	$ 70.00	$ 8.26	$ 6.84	$ 15.10	$ 16,709.66
75			1-1/4" Dia Hot Water Pipe	LF	186	10%	205	0.138	$ 70.00	$ 9.66	$ 9.14	$ 18.80	$ 3,846.48
76			1-1/2" Dia Hot Water Pipe	LF	84	10%	92	0.154	$ 70.00	$ 10.78	$ 11.39	$ 22.17	$ 2,048.51

COSTBLOOM
Work of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
77			2" Dia Hot Water Pipe	LF	68	10%	75	0.190	$ 70.00	$ 13.30	$ 17.88	$ 31.18	$ 2,332.26
78			2-1/2" Dia Hot Water Pipe	LF	79	10%	87	0.258	$ 70.00	$ 18.06	$ 25.47	$ 43.53	$ 3,782.76
			1" Thick Flexible Elastomeric Insulation										
79			1/2" Dia Hot Water Pipe	LF	2425	10%	2668	0.067	$ 70.00	$ 4.69	$ 2.47	$ 7.16	$ 19,099.30
80			3/4" Dia Hot Water Pipe	LF	2922	10%	3214	0.070	$ 70.00	$ 4.90	$ 2.72	$ 7.62	$ 24,492.20
81			1" Dia Hot Water Pipe	LF	1006	10%	1107	0.073	$ 70.00	$ 5.11	$ 2.85	$ 7.96	$ 8,808.54
82			1-1/4" Dia Hot Water Pipe	LF	186	10%	205	0.073	$ 70.00	$ 5.11	$ 3.15	$ 8.26	$ 1,690.00
83			1-1/2" Dia Hot Water Pipe	LF	84	10%	92	0.073	$ 70.00	$ 5.11	$ 3.39	$ 8.50	$ 785.40
84			2" Dia Hot Water Pipe	LF	68	10%	75	0.080	$ 70.00	$ 5.60	$ 3.64	$ 9.24	$ 691.15
85			2-1/2" Dia Hot Water Pipe	LF	79	10%	87	0.084	$ 70.00	$ 5.88	$ 4.10	$ 9.98	$ 867.26
			HOT WATER PIPE FITTINGS										
			ELBOW										
86			1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	576	0%	576	0.400	$ 70.00	$ 28.00	$ 1.21	$ 29.21	$ 16,824.96
87			3/4" Dia Hot Water Pipe 90 Deg Elbow	EA	257	0%	257	0.421	$ 70.00	$ 29.47	$ 2.62	$ 32.09	$ 8,247.13
88			1" Dia Hot Water Pipe 90 Deg Elbow	EA	25	0%	25	0.500	$ 70.00	$ 35.00	$ 5.94	$ 40.94	$ 1,023.50
89			1-1/4" Dia Hot Water Pipe 90 Deg Elbow	EA	5	0%	5	0.533	$ 70.00	$ 37.31	$ 8.29	$ 45.60	$ 228.00
90			2-1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	3	0%	3	1.231	$ 70.00	$ 86.17	$ 44.96	$ 131.13	$ 393.39
			TEE										
91			1/2" Dia Hot Water Pipe Tee	EA	2	0%	2	0.615	$ 70.00	$ 43.05	$ 1.89	$ 44.94	$ 89.88
92			3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.667	$ 70.00	$ 46.69	$ 4.52	$ 51.21	$ 51.21
93			1" Dia Hot Water Pipe Tee	EA	1	0%	1	0.800	$ 70.00	$ 56.00	$ 13.64	$ 69.64	$ 69.64
94			1-1/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.889	$ 70.00	$ 62.23	$ 15.43	$ 77.66	$ 77.66
95			3/4" / 1/2" Dia Hot Water Pipe Tee	EA	112	0%	112	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 5,220.32
96			1" / 3/4" Dia Hot Water Pipe Tee	EA	100	0%	100	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 5,052.00
97			1-1/4" / 1/2" Dia Hot Water Pipe Tee	EA	3	0%	3	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 139.83
98			1-1/4" / 3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 50.52
99			1-1/4" / 1" Dia Hot Water Pipe Tee	EA	3	0%	3	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 177.84
100			1-1/2" / 3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 50.52
101			1-1/2" / 1" Dia Hot Water Pipe Tee	EA	8	0%	8	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 474.24
102			2" / 1/2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 46.61
103			2" / 3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 50.52
104			2" / 1" Dia Hot Water Pipe Tee	EA	8	0%	8	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 474.24
105			2-1/2" / 3/4" Dia Hot Water Pipe Tee	EA	2	0%	2	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 101.04
106			2-1/2" / 1" Dia Hot Water Pipe Tee	EA	6	0%	6	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 355.68
			REDUCER										
107			3/4" / 1/2" Dia Hot Water Pipe Reducer	EA	113	0%	113	0.348	$ 70.00	$ 24.36	$ 1.36	$ 25.72	$ 2,906.36
108			1" / 3/4" Dia Hot Water Pipe Reducer	EA	50	0%	50	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 1,422.50
109			1-1/4" / 3/4" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 28.45
110			1-1/4" / 1" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.410	$ 70.00	$ 28.70	$ 3.29	$ 31.99	$ 31.99
111			1-1/4" / 1-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 43.19
112			2" / 1-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 43.19
113			2" / 2-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.615	$ 70.00	$ 43.05	$ 28.97	$ 72.02	$ 72.02
			HOT WATER RETURN PIPE (ABOVE GRADE)										
		Assumed	**Type "L" Copper Pipe**										
114			1/2" Dia Hot Water Return Pipe	LF	1316	10%	1448	0.099	$ 70.00	$ 6.93	$ 3.56	$ 10.49	$ 15,185.32
115			3/4" Hot Water Return Pipe	LF	31	10%	34	0.105	$ 70.00	$ 7.35	$ 5.00	$ 12.35	$ 421.14
116			1" Dia Hot Water Return Pipe	LF	256	10%	282	0.118	$ 70.00	$ 8.26	$ 6.84	$ 15.10	$ 4,252.16
117			1-1/4" Dia Hot Water Return Pipe	LF	80	10%	88	0.138	$ 70.00	$ 9.66	$ 9.14	$ 18.80	$ 1,654.40
			1" Thick Flexible Elastomeric Insulation										
118			1/2" Dia Hot Water Return Pipe	LF	1316	10%	1448	0.067	$ 70.00	$ 4.69	$ 2.47	$ 7.16	$ 10,364.82
119			3/4" Hot Water Return Pipe	LF	31	10%	34	0.070	$ 70.00	$ 4.90	$ 2.72	$ 7.62	$ 259.84
120			1" Dia Hot Water Return Pipe	LF	256	10%	282	0.073	$ 70.00	$ 5.11	$ 2.85	$ 7.96	$ 2,241.54
121			1-1/4" Dia Hot Water Return Pipe	LF	80	10%	88	0.076	$ 70.00	$ 5.32	$ 3.15	$ 8.47	$ 745.36
			HOT WATER RETURN PIPE FITTINGS										
			ELBOW										
122			1/2" Dia Hot Water Return Pipe 90 Deg Elbow	EA	25	0%	25	0.400	$ 70.00	$ 28.00	$ 1.21	$ 29.21	$ 730.25
123			1" Dia Hot Water Return Pipe 90 Deg Elbow	EA	2	0%	2	0.500	$ 70.00	$ 35.00	$ 5.94	$ 40.94	$ 81.88
124			1-1/4" Dia Hot Water Return Pipe 90 Deg Elbow	EA	3	0%	3	0.533	$ 70.00	$ 37.31	$ 8.29	$ 45.60	$ 136.80
			TEE										
125			1/2" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.615	$ 70.00	$ 43.05	$ 1.89	$ 44.94	$ 44.94
126			3/4" / 1/2" Dia Hot Water Return Pipe Tee	EA	29	0%	29	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 1,351.69
127			1" / 1/2" Dia Hot Water Return Pipe Tee	EA	14	0%	14	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 652.54
128			1-1/4" / 1" Dia Hot Water Return Pipe Tee	EA	6	0%	6	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 355.68
			REDUCER										
129			3/4" / 1/2" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.348	$ 70.00	$ 24.36	$ 1.36	$ 25.72	$ 25.72
130			1" / 3/4" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 28.45
131			1-1/4" / 1" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.410	$ 70.00	$ 28.70	$ 3.29	$ 31.99	$ 31.99
			WASTE PIPE (BELOW GRADE)										
			Service Class Cast Iron No-Hub Pipe										
132			3" Dia Waste Pipe	LF	219	10%	241	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 9,269.83
133			4" Dia Waste Pipe	LF	467	10%	514	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 23,779.17
134			6" Dia Waste Pipe	LF	249	10%	274	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 17,458.39
			WASTE PIPE FITTINGS										
			ELBOW										
135			2" Dia Waste Pipe 90 Deg Elbow	EA	8	0%	8	1.000	$ 70.00	$ 70.00	$ 46.95	$ 116.95	$ 935.60
136			3" Dia Waste Pipe 90 Deg Elbow	EA	27	0%	27	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 3,765.15
137			4" Dia Waste Pipe 90 Deg Elbow	EA	49	0%	49	1.231	$ 70.00	$ 86.17	$ 93.41	$ 179.58	$ 8,799.42
138			6" Dia Waste Pipe 90 Deg Elbow	EA	1	0%	1	1.412	$ 70.00	$ 98.84	$ 161.84	$ 260.68	$ 260.68
139			3" Dia Waste Pipe 45 Deg Elbow	EA	27	0%	27	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 3,495.42
140			4" Dia Waste Pipe 45 Deg Elbow	EA	32	0%	32	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 5,091.20
141			6" Dia Waste Pipe 45 Deg Elbow	EA	3	0%	3	1.412	$ 70.00	$ 98.84	$ 122.88	$ 221.72	$ 665.16
			WYE										
142			3" Dia Waste Pipe Wye	EA	7	0%	7	1.778	$ 70.00	$ 124.46	$ 100.90	$ 225.36	$ 1,577.52
143			4" Dia Waste Pipe Wye	EA	11	0%	11	2.000	$ 70.00	$ 140.00	$ 122.88	$ 262.88	$ 2,891.68
144			6" Dia Waste Pipe Wye	EA	2	0%	2	2.182	$ 70.00	$ 152.74	$ 277.72	$ 430.46	$ 860.92
145			3" / 2" Dia Waste Pipe Wye	EA	5	0%	5	1.600	$ 70.00	$ 112.00	$ 86.41	$ 198.41	$ 992.05
146			4" / 3" Dia Waste Pipe Wye	EA	11	0%	11	1.778	$ 70.00	$ 124.46	$ 112.89	$ 237.35	$ 2,610.85
147			6" / 3" Dia Waste Pipe Wye	EA	8	0%	8	2.182	$ 70.00	$ 152.74	$ 225.77	$ 378.51	$ 3,028.08
148			6" / 4" Dia Waste Pipe Wye	EA	20	0%	20	2.400	$ 70.00	$ 168.00	$ 314.69	$ 482.69	$ 9,653.80
			REDUCER										
149			4" / 3" Dia Waste Pipe Reducer	EA	2	0%	2	1.143	$ 70.00	$ 80.01	$ 56.44	$ 136.45	$ 272.90
150			6" / 4" Dia Waste Pipe Reducer	EA	1	0%	1	1.280	$ 70.00	$ 89.60	$ 114.89	$ 204.49	$ 204.49
			WASTE PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
151			1-1/2" Dia Waste Pipe	LF	13	10%	14	0.225	$ 70.00	$ 15.75	$ 11.19	$ 26.94	$ 385.24
152			2" Dia Waste Pipe	LF	952	10%	1047	0.239	$ 70.00	$ 16.73	$ 11.74	$ 28.47	$ 29,813.78
153			3" Dia Waste Pipe	LF	2237	10%	2461	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 94,687.74
154			4" Dia Waste Pipe	LF	1581	10%	1739	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 80,502.94
155			6" Dia Waste Pipe	LF	8	10%	9	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 560.91
			WASTE PIPE FITTINGS										
			ELBOW										
156			2" Dia Waste Pipe 90 Deg Elbow	EA	333	0%	333	1.000	$ 70.00	$ 70.00	$ 46.95	$ 116.95	$ 38,944.35
157			3" Dia Waste Pipe 90 Deg Elbow	EA	355	0%	355	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 49,504.75
158			1-1/2" Dia Waste Pipe 45 Deg Elbow	EA	3	0%	3	0.889	$ 70.00	$ 62.23	$ 25.23	$ 87.46	$ 262.38
159			2" Dia Waste Pipe 45 Deg Elbow	EA	8	0%	8	1.000	$ 70.00	$ 70.00	$ 31.47	$ 101.47	$ 811.76
160			3" Dia Waste Pipe 45 Deg Elbow	EA	347	0%	347	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 44,922.62
161			4" Dia Waste Pipe 45 Deg Elbow	EA	26	0%	26	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 4,136.60
			WYE										
162			1-1/2" Dia Waste Pipe Wye	EA	1	0%	1	1.200	$ 70.00	$ 84.00	$ 45.00	$ 129.00	$ 129.00
163			2" Dia Waste Pipe Wye	EA	115	0%	115	1.600	$ 70.00	$ 112.00	$ 62.44	$ 174.44	$ 20,060.60
164			3" Dia Waste Pipe Wye	EA	230	0%	230	1.778	$ 70.00	$ 124.46	$ 100.90	$ 225.36	$ 51,832.80
165			4" Dia Waste Pipe Wye	EA	26	0%	26	2.000	$ 70.00	$ 140.00	$ 122.88	$ 262.88	$ 6,834.88
166			3" / 1-1/2" Dia Waste Pipe Wye	EA	3	0%	3	1.200	$ 70.00	$ 84.00	$ 65.23	$ 149.23	$ 447.69
167			4" / 2" Dia Waste Pipe Wye	EA	1	0%	1	1.778	$ 70.00	$ 124.46	$ 104.90	$ 229.36	$ 229.36
168			4" / 3" Dia Waste Pipe Wye	EA	139	0%	139	1.778	$ 70.00	$ 124.46	$ 112.89	$ 237.35	$ 32,991.65
			REDUCER										
169			2" / 1-1/2" Dia Waste Pipe Reducer	EA	5	0%	5	0.889	$ 70.00	$ 62.23	$ 30.15	$ 92.38	$ 461.90
170			3" / 2" Dia Waste Pipe Reducer	EA	223	0%	223	1.067	$ 70.00	$ 74.69	$ 43.46	$ 118.15	$ 26,347.45

COST BIDDING
Mark of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
171			4" / 3" Dia Waste Pipe Reducer	EA	1	0%	1	1.143	$ 70.00	$ 80.01	$ 56.44	$ 136.45	$ 136.45
			GREASE WASTE PIPE (BELOW GRADE)										
			Service Class Cast Iron No-Hub Pipe										
172			3" Dia Grease Waste Pipe	LF	58	10%	64	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 2,455.02
173			4" Dia Grease Waste Pipe	LF	134	10%	147	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 6,823.15
			GREASE WASTE PIPE FITTINGS										
			ELBOW										
174			3" Dia Grease Waste Pipe 90 Deg Elbow	EA	4	0%	4	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 557.80
175			3" Dia Grease Waste Pipe 45 Deg Elbow	EA	11	0%	11	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 1,424.06
176			4" Dia Grease Waste Pipe 45 Deg Elbow	EA	5	0%	5	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 795.50
			WYE										
177			3" Dia Grease Waste Pipe Wye	EA	3	0%	3	1.778	$ 70.00	$ 124.46	$ 100.90	$ 225.36	$ 676.08
178			4" Dia Grease Waste Pipe Wye	EA	1	0%	1	2.000	$ 70.00	$ 140.00	$ 122.88	$ 262.88	$ 262.88
179			3" / 2" Dia Grease Waste Pipe Wye	EA	2	0%	2	1.600	$ 70.00	$ 112.00	$ 86.41	$ 198.41	$ 396.82
			INDIRECT WASTE PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
180			1-1/2" Dia Indirect Drain Pipe	LF	14	10%	15	0.225	$ 70.00	$ 15.75	$ 11.19	$ 26.94	$ 414.88
			INDIRECT WASTE PIPE FITTINGS										
			ELBOW										
181			1-1/2" Dia Indirect Drain Pipe 90 Deg Elbow	EA	3	0%	3	0.889	$ 70.00	$ 62.23	$ 22.12	$ 84.35	$ 253.05
182			1-1/2" Dia Indirect Drain Pipe 45 Deg Elbow	EA	1	0%	1	0.889	$ 70.00	$ 62.23	$ 25.23	$ 87.46	$ 87.46
			WYE										
183			1-1/2" Dia Indirect Drain Pipe Wye	EA	1	0%	1	1.200	$ 70.00	$ 84.00	$ 45.00	$ 129.00	$ 129.00
			PUMPED DISCHARGE PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
184			1-1/2" Dia Pumped Discharge	LF	29	10%	32	0.225	$ 70.00	$ 15.75	$ 11.19	$ 26.94	$ 859.39
			PUMPED DISCHARGE PIPE FITTINGS										
			ELBOW										
185			1-1/2" Dia Pumped Discharge 90 Deg Elbow	EA	3	0%	3	0.889	$ 70.00	$ 62.23	$ 22.12	$ 84.35	$ 253.05
186			1-1/2" Dia Pumped Discharge 45 Deg Elbow	EA	1	0%	1	0.889	$ 70.00	$ 62.23	$ 25.23	$ 87.46	$ 87.46
			VENT PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
187			1-1/2" Dia Vent Pipe	LF	36	10%	40	0.225	$ 70.00	$ 15.75	$ 11.19	$ 26.94	$ 1,066.82
188			2" Dia Vent Pipe	LF	2358	10%	2594	0.239	$ 70.00	$ 16.73	$ 11.74	$ 28.47	$ 73,845.49
189			3" Dia Vent Pipe	LF	1563	10%	1719	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 66,158.66
			VENT PIPE FITTINGS										
			ELBOW										
190			2" Dia Vent Pipe 90 Deg Elbow	EA	245	0%	245	1.000	$ 70.00	$ 70.00	$ 46.95	$ 116.95	$ 28,652.75
			TEE										
191			2" Dia Vent Pipe Tee	EA	9	0%	9	1.600	$ 70.00	$ 112.00	$ 62.44	$ 174.44	$ 1,569.96
192			3" Dia Vent Pipe Tee	EA	1	0%	1	1.778	$ 70.00	$ 124.46	$ 100.90	$ 225.36	$ 225.36
193			2" / 1-1/2" Dia Vent Pipe Tee	EA	2	0%	2	1.450	$ 70.00	$ 101.50	$ 58.00	$ 159.50	$ 319.00
194			3" / 2" Dia Vent Pipe Tee	EA	115	0%	115	1.600	$ 70.00	$ 112.00	$ 86.41	$ 198.41	$ 22,817.15
			REDUCER										
195			2" / 1-1/2" Dia Vent Pipe Reducer	EA	4	0%	4	0.889	$ 70.00	$ 62.23	$ 30.15	$ 92.38	$ 369.52
			STORM DRAIN PIPE (BELOW GRADE)										
		Assumed	**Service Class Cast Iron No-Hub Pipe**										
196			3" Dia Storm Pipe	LF	37	10%	41	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 1,566.14
197			4" Dia Storm Pipe	LF	14	10%	15	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 712.87
198			6" Dia Storm Pipe	LF	270	10%	297	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 18,930.78
199			8" Dia Storm Pipe	LF	26	10%	29	0.464	$ 70.00	$ 32.48	$ 81.92	$ 114.40	$ 3,271.84
200			10" Dia Storm Pipe	LF	49	10%	54	0.525	$ 70.00	$ 36.75	$ 130.87	$ 167.62	$ 9,034.72
			STORM DRAIN PIPE FITTINGS										
			ELBOW										
201			3" Dia Storm Pipe 90 Deg Elbow	EA	2	0%	2	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 278.90
202			6" Dia Storm Pipe 90 Deg Elbow	EA	12	0%	12	1.412	$ 70.00	$ 98.84	$ 161.84	$ 260.68	$ 3,128.16
203	**P101, P102,**		10" Dia Storm Pipe 90 Deg Elbow	EA	1	0%	1	3.200	$ 70.00	$ 224.00	$ 714.29	$ 938.29	$ 938.29
204	**P103, P104,**		3" Dia Storm Pipe 45 Deg Elbow	EA	3	0%	3	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 388.38
205	**P105, P106,**		4" Dia Storm Pipe 45 Deg Elbow	EA	1	0%	1	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 159.10
206	**P201, P301,**		6" Dia Storm Pipe 45 Deg Elbow	EA	11	0%	11	1.412	$ 70.00	$ 98.84	$ 122.88	$ 221.72	$ 2,438.92
207	**P302, P402, &**		8" Dia Storm Pipe 45 Deg Elbow	EA	1	0%	1	2.909	$ 70.00	$ 203.63	$ 369.63	$ 573.26	$ 573.26
208	**P501**		10" Dia Storm Pipe 45 Deg Elbow	EA	1	0%	1	3.200	$ 70.00	$ 224.00	$ 529.47	$ 753.47	$ 753.47
			WYE										
209			6" Dia Storm Pipe Wye	EA	4	0%	4	2.182	$ 70.00	$ 152.74	$ 277.72	$ 430.46	$ 1,721.84
210			10" Dia Storm Pipe Wye	EA	1	0%	1	4.571	$ 70.00	$ 319.97	$ 1,348.65	$ 1,668.62	$ 1,668.62
211			4" / 3" Dia Storm Pipe Wye	EA	1	0%	1	1.778	$ 70.00	$ 124.46	$ 112.89	$ 237.35	$ 237.35
212			10" / 3" Dia Storm Pipe Wye	EA	1	0%	1	4.000	$ 70.00	$ 280.00	$ 1,010.00	$ 1,290.00	$ 1,290.00
213			10" / 6" Dia Storm Pipe Wye	EA	1	0%	1	4.000	$ 70.00	$ 280.00	$ 1,073.93	$ 1,353.93	$ 1,353.93
214			10" / 8" Dia Storm Pipe Wye	EA	1	0%	1	4.000	$ 70.00	$ 280.00	$ 1,150.00	$ 1,430.00	$ 1,430.00
			REDUCER										
215			4" / 3" Dia Storm Pipe Reducer	EA	1	0%	1	1.143	$ 70.00	$ 80.01	$ 56.44	$ 136.45	$ 136.45
216			8" / 6" Dia Storm Pipe Reducer	EA	1	0%	1	2.000	$ 70.00	$ 140.00	$ 195.80	$ 335.80	$ 335.80
			STORM DRAIN PIPE (ABOVE GRADE)										
		Assumed	**Cast Iron No-Hub Pipe**										
217			3" Dia Storm Pipe	LF	134	10%	147	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 5,671.95
218			4" Dia Storm Pipe	LF	57	10%	63	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 2,902.38
219			6" Dia Storm Pipe	LF	320	10%	352	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 22,436.48
			STORM DRAIN PIPE FITTINGS										
			ELBOW										
220			3" Dia Storm Pipe 90 Deg Elbow	EA	4	0%	4	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 557.80
221			4" Dia Storm Pipe 90 Deg Elbow	EA	2	0%	2	1.231	$ 70.00	$ 86.17	$ 93.41	$ 179.58	$ 359.16
222			6" Dia Storm Pipe 90 Deg Elbow	EA	11	0%	11	1.412	$ 70.00	$ 98.84	$ 161.84	$ 260.68	$ 2,867.48
223			3" Dia Storm Pipe 45 Deg Elbow	EA	2	0%	2	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 258.92
224			4" Dia Storm Pipe 45 Deg Elbow	EA	3	0%	3	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 477.30
			WYE										
225			6" / 4" Dia Storm Pipe Wye	EA	1	0%	1	2.400	$ 70.00	$ 168.00	$ 314.69	$ 482.69	$ 482.69
			REDUCER										
226			6" / 4" Dia Storm Pipe Reducer	EA	1	0%	1	1.280	$ 70.00	$ 89.60	$ 114.89	$ 204.49	$ 204.49
			OVERFLOW DRAIN PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
227			3" Dia Overflow Roof Drain	LF	9	10%	10	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 380.95
228			6" Dia Overflow Roof Drain	LF	77	10%	85	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 5,398.78
			OVERFLOW DRAIN PIPE FITTINGS										
			ELBOW										
229			3" Dia Overflow Roof Drain 90 Deg Elbow	EA	2	0%	2	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 278.90
230			6" Dia Overflow Roof Drain 90 Deg Elbow	EA	5	0%	5	1.412	$ 70.00	$ 98.84	$ 161.84	$ 260.68	$ 1,303.40
			CONDENSATE DRAIN PIPE (BELOW GRADE)										
			Type "L" Copper Pipe With Soldered Joints										
231			2" Dia Condensate Drain Pipe	LF	103	10%	113	0.190	$ 70.00	$ 13.30	$ 17.88	$ 31.18	$ 3,532.69
			CONDENSATE DRAIN PIPE FITTINGS										
			ELBOW										
232			2" Dia Condensate Drain Pipe 90 Deg Elbow	EA	13	0%	13	0.727	$ 70.00	$ 50.89	$ 21.48	$ 72.37	$ 940.81
			REDUCER										
233			2" / 1-1/2" Dia Condensate Drain Pipe Reducer	EA	14	0%	14	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 604.66
			CONDENSATE DRAIN PIPE (ABOVE GRADE)										
			Type "L" Copper Pipe With Soldered Joints										
234			1-1/2" Dia Condensate Drain Pipe	LF	1609	10%	1770	0.154	$ 70.00	$ 10.78	$ 11.39	$ 22.17	$ 39,238.68
			1" Thick Flexible Elastomeric Insulation										
235			1-1/2" Dia Condensate Drain Pipe	LF	1609	10%	1770	0.073	$ 70.00	$ 5.11	$ 3.39	$ 8.50	$ 15,044.15
			CONDENSATE DRAIN PIPE FITTINGS										
			ELBOW										
236			1-1/2" Dia Condensate Drain Pipe 90 Deg Elbow	EA	269	0%	269	0.615	$ 70.00	$ 43.05	$ 14.24	$ 57.29	$ 15,411.01
			REDUCER										
237			1-1/2" Dia Condensate Drain Pipe Tee	EA	144	0%	144	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 6,219.36
			GAS PIPE (BELOW GRADE)										
			Schedule 40 Steel Pipe										

GET BIDDING
Work on Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
238			2" Dia Gas Pipe	LF	7	10%	8	0.200	$ 70.00	$ 14.00	$ 25.97	$ 39.97	$ 307.77
			GAS PIPE FITTINGS										
			ELBOW										
239			2" Dia Gas Pipe 90 Deg Elbow	EA	2	0%	2	0.320	$ 70.00	$ 22.40	$ 73.93	$ 96.33	$ 192.66
			GAS PIPE (ABOVE GRADE)										
			Schedule 40 Steel Pipe										
240			3/4" Dia Gas Pipe	LF	256	10%	282	0.113	$ 70.00	$ 7.91	$ 11.69	$ 19.60	$ 5,519.36
241			1" Dia Gas Pipe	LF	51	10%	56	0.127	$ 70.00	$ 8.89	$ 13.74	$ 22.63	$ 1,269.54
242			1-1/4" Dia Gas Pipe	LF	139	10%	153	0.138	$ 70.00	$ 9.66	$ 17.98	$ 27.64	$ 4,226.16
243			1-1/2" Dia Gas Pipe	LF	31	10%	34	0.157	$ 70.00	$ 10.99	$ 20.98	$ 31.97	$ 1,090.18
244			2" Dia Gas Pipe	LF	39	10%	43	0.200	$ 70.00	$ 14.00	$ 25.97	$ 39.97	$ 1,714.71
			GAS PIPE FITTINGS										
			ELBOW										
245			3/4" Dia Gas Pipe 90 Deg Elbow	EA	7	0%	7	0.160	$ 70.00	$ 11.20	$ 137.89	$ 149.09	$ 1,043.63
246			1" Dia Gas Pipe 90 Deg Elbow	EA	4	0%	4	0.160	$ 70.00	$ 11.20	$ 73.93	$ 85.13	$ 340.52
247			1-1/4" Dia Gas Pipe 90 Deg Elbow	EA	4	0%	4	0.200	$ 70.00	$ 14.00	$ 73.93	$ 87.93	$ 351.72
248			1-1/2" Dia Gas Pipe 90 Deg Elbow	EA	2	0%	2	0.242	$ 70.00	$ 16.94	$ 73.93	$ 90.87	$ 181.74
249			2" Dia Gas Pipe 90 Deg Elbow	EA	2	0%	2	0.320	$ 70.00	$ 22.40	$ 73.93	$ 96.33	$ 192.66
			TEE										
250			1-1/4" Dia Gas Pipe Tee	EA	3	0%	3	0.296	$ 70.00	$ 20.72	$ 113.89	$ 134.61	$ 403.83
251			1-1/4" / 3/4" Dia Gas Pipe Tee	EA	1	0%	1	0.211	$ 70.00	$ 14.77	$ 147.85	$ 162.62	$ 162.62
252			1-1/2" / 1" Dia Gas Pipe Tee	EA	1	0%	1	0.242	$ 70.00	$ 16.94	$ 113.89	$ 130.83	$ 130.83
253			2" Dia Gas Pipe Tee	EA	1	0%	1	0.471	$ 70.00	$ 32.97	$ 113.89	$ 146.86	$ 146.86
			REDUCER										
254			1-1/4" / 3/4" Dia Gas Pipe Reducer	EA	1	0%	1	0.080	$ 70.00	$ 5.60	$ 42.46	$ 48.06	$ 48.06
255			1-1/4" / 1-1/2" Dia Gas Pipe Reducer	EA	1	0%	1	0.119	$ 70.00	$ 8.33	$ 59.44	$ 67.77	$ 67.77
256			1-1/2" / 1-1/4" Dia Gas Pipe Reducer	EA	1	0%	1	0.100	$ 70.00	$ 7.00	$ 54.45	$ 61.45	$ 61.45
257			2" / 1-1/2" Dia Gas Pipe Reducer	EA	2	0%	2	0.119	$ 70.00	$ 8.33	$ 59.44	$ 67.77	$ 135.54
			PLUMBING FIXTURES										
258			WC-1: Water Closet, KOHLER K3998-0 K4774-0, Type: Flush Tank, M	EA	105	0%	105	2.980	$ 70.00	$ 208.60	$ 456.00	$ 664.60	$ 69,783.00
259			WC-2: Water Closet, KOHLER K3999-0 K4774-0, Type: Flush Tank, M	EA	11	0%	11	2.980	$ 70.00	$ 208.60	$ 517.00	$ 725.60	$ 7,981.60
260			L-1: Lavatory, AMERICAN STANDARD 0496.221.020, Type: Single	EA	103	0%	103	2.230	$ 70.00	$ 156.10	$ 691.00	$ 847.10	$ 87,251.30
261			L-2: Lavatory, AMERICAN STANDARD 0496.221.020, Type: Single	EA	9	0%	9	2.230	$ 70.00	$ 156.10	$ 691.00	$ 847.10	$ 7,623.90
262			L-3: Lavatory, AMERICAN STANDARD 9960.001, Type: Single Com	EA	4	0%	4	2.230	$ 70.00	$ 156.10	$ 1,291.00	$ 1,447.10	$ 5,788.40
263			SH-1: Shower, MINCY MARBLE SP-3660-CD-IF, Faucet/Valve: AME	EA	95	0%	95	4.900	$ 70.00	$ 343.00	$ 2,787.60	$ 3,130.60	$ 297,407.00
264			SH-2: Shower, MINCY MARBLE SP-3162-C-SF, Material: ROLL IN	EA	2	0%	2	4.900	$ 70.00	$ 343.00	$ 2,398.50	$ 2,741.50	$ 5,483.00
265			UR: Urinal, KOHLER K-4904-ER-0, Type: Flush Valve, Material: VITR	EA	2	0%	2	1.900	$ 70.00	$ 133.00	$ 872.00	$ 1,005.00	$ 2,010.00
266			BT-1: Bathtub Shower, KOHLER K-716-0(R) K-715-0(L), Type: PREF	EA	8	0%	8	3.890	$ 70.00	$ 272.30	$ 1,340.00	$ 1,612.30	$ 12,898.40
267			BT-2: Bathtub Shower, KOHLER K-716-0(R) K-715-0(L), Type: PREF	EA	5	0%	5	3.890	$ 70.00	$ 272.30	$ 1,340.00	$ 1,612.30	$ 8,061.50
268			S-1: Sink, ELKAY LRAD2521 X 5-1/2", Type: Single Comp, Material:	EA	1	0%	1	2.250	$ 70.00	$ 157.50	$ 1,305.00	$ 1,462.50	$ 1,462.50
269			SS-1: Service Sink, FIAT MSB 2424-10, Type: Single Comp, Style: 24"	EA	2	0%	2	2.560	$ 70.00	$ 179.20	$ 617.00	$ 796.20	$ 1,592.40
270			EEW: Eye Wash, GUARDIAN G-1814, Type: Stainless Steel Bowl, Mo	EA	1	0%	1	2.120	$ 70.00	$ 148.40	$ 1,740.00	$ 1,888.40	$ 1,888.40
271			3" Dia FS: Floor Sink, J.R. SMITH 3150 WITH HALF GRATE, Type:	EA	1	0%	1	0.980	$ 70.00	$ 68.60	$ 815.00	$ 883.60	$ 883.60
272			WB: Washer Wall Box, SPECIALITY PRODUCTS 0B-351, Type: Bott	EA	2	0%	2	0.750	$ 70.00	$ 52.50	$ 113.00	$ 165.50	$ 331.00
273			3/4" Dia Roof Hydrant ZURN Z1388	EA	2	0%	2	1.000	$ 70.00	$ 70.00	$ 1,587.00	$ 1,657.00	$ 3,314.00
274			1/2" Dia FPHB: Hose Bibb, WOODFORD 25, Type: Freeze Proof, Mat	EA	3	0%	3	0.550	$ 70.00	$ 38.50	$ 175.00	$ 213.50	$ 640.50
275			3/4" Dia FPHB: Hose Bibb, WOODFORD 25, Type: Freeze Proof, Mat	EA	1	0%	1	0.520	$ 70.00	$ 36.40	$ 133.00	$ 169.40	$ 169.40
276			1-1/2" Dia FPHB: Hose Bibb, WOODFORD 25, Type: Freeze Proof, M	EA	1	0%	1	0.650	$ 70.00	$ 45.50	$ 200.00	$ 245.50	$ 245.50
277			3" Dia FPHB: Hose Bibb, WOODFORD 25, Type: Freeze Proof, Mater	EA	1	0%	1	0.750	$ 70.00	$ 52.50	$ 225.00	$ 277.50	$ 277.50
278			Dish Washer	EA	1	0%	1	2.100	$ 70.00	$ 147.00	$ 1,350.00	$ 1,497.00	$ 1,497.00
279			Hand Sink	EA	1	0%	1	1.950	$ 70.00	$ 136.50	$ 1,250.00	$ 1,386.50	$ 1,386.50
280			3- Comp Sink	EA	1	0%	1	3.120	$ 70.00	$ 218.40	$ 4,880.00	$ 5,098.40	$ 5,098.40
281		**Schedule Not Given**	Ice Machine 1. Contractor Shall Provide A Point Of Use Filtration By TRIPLE CLEAR FORCEFIELD .	EA	1	0%	1	2.890	$ 70.00	$ 202.30	$ 4,367.00	$ 4,569.30	$ 4,569.30
282			IMB: Ice Maker Box	EA	1	0%	1	0.560	$ 70.00	$ 39.20	$ 256.00	$ 295.20	$ 295.20
283			LT-1: Lint Screen	EA	1	0%	1	0.320	$ 70.00	$ 22.40	$ 75.00	$ 97.40	$ 97.40
284			Washer Dryer	EA	4	0%	4	2.750	$ 70.00	$ 192.50	$ 1,257.00	$ 1,449.50	$ 5,798.00
285			Dryer: 415MBH	EA	3	0%	3	1.450	$ 70.00	$ 101.50	$ 989.00	$ 1,090.50	$ 3,271.50
286			Pool / SPA Backwash Pit	EA	1	0%	1	8.560	$ 70.00	$ 599.20	$ 15,945.00	$ 16,544.20	$ 16,544.20
			GREASE INTERCEPTOR										
287			Grease Interceptor, 75 GPM Polyethylene, GB-75 4045-001-XXSCHIE	EA	1	0%	1	3.890	$ 70.00	$ 272.30	$ 4,047.00	$ 4,319.30	$ 4,319.30
			WATER HYDRATION STATION										
288			Hydration Station HAWS 20001. Contractor Shall Provide A Point Of U	EA	1	0%	1	3.120	$ 70.00	$ 218.40	$ 4,616.00	$ 4,834.40	$ 4,834.40
			WATER HEATER										
289			IWH: Instantaneous Water Heater, EEMAX EX3208, Glass Lined, Tan	EA	1	0%	1	1.100	$ 70.00	$ 77.00	$ 300.00	$ 377.00	$ 377.00
290			IN501, IntelliJ Tankless Water System	EA	3	0%	3	8.550	$ 70.00	$ 598.50	$ 33,598.00	$ 34,196.50	$ 102,589.50
			WATER HEATER DETAIL										
291			Expansion Tank	EA	2	0%	2	0.420	$ 70.00	$ 29.40	$ 89.00	$ 118.40	$ 236.80
292			Temperature Sensor	EA	1	0%	1	0.350	$ 70.00	$ 24.50	$ 125.00	$ 149.50	$ 149.50
293			1" Dia Isolation Valve, NIBCO INC., Type 2, Class 125, Bronze Angle	EA	3	0%	3	0.389	$ 70.00	$ 27.23	$ 75.00	$ 102.23	$ 306.69
294			1" Dia Water Hammer Arrestor	EA	1	0%	1	0.256	$ 70.00	$ 17.92	$ 76.00	$ 93.92	$ 93.92
294		**Both Re-Circulation Pump Comes In Detail Of Water Heater, By Mistake We Count Re-circulation Pump Separately**	1" Dia Recirculation Pump GRUNFOS UPS26-99	EA	1	0%	1	1.500	$ 70.00	$ 105.00	$ 885.00	$ 990.00	$ 990.00
295			1-1/4" Dia Recirculation Pump GRUNFOS UPS26-99	EA	1	0%	1	1.500	$ 70.00	$ 105.00	$ 885.00	$ 990.00	$ 990.00
296			1-1/4" Dia Isolation Valve, NIBCO INC., Type 2, Class 125, Bronze A	EA	5	0%	5	0.425	$ 70.00	$ 29.75	$ 78.00	$ 107.75	$ 538.75
297			1-1/4" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Hor	EA	1	0%	1	0.450	$ 70.00	$ 31.50	$ 125.00	$ 156.50	$ 156.50
298			1-1/4" Dia Pipe End Cap	EA	3	0%	3	0.200	$ 70.00	$ 14.00	$ 9.00	$ 23.00	$ 69.00
299			3" Dia Isolation Valve, NIBCO INC., Type 2, Class 125, Bronze Angle	EA	5	0%	5	1.230	$ 70.00	$ 86.10	$ 956.00	$ 1,042.10	$ 5,210.50
300			3" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Horizon	EA	3	0%	3	1.560	$ 70.00	$ 109.20	$ 665.00	$ 774.20	$ 2,322.60
301		**Size Assumed**	3/4" Dia Vacuum Relief Valve	EA	3	0%	3	0.220	$ 70.00	$ 15.40	$ 52.00	$ 67.40	$ 202.20
			RECIRCULATION PUMP DETAIL										
302			Thermometer	EA	2	0%	2	0.250	$ 70.00	$ 17.50	$ 54.00	$ 71.50	$ 143.00
303			1/2" Dia Pressure Gauge	EA	2	0%	2	0.320	$ 70.00	$ 22.40	$ 65.00	$ 87.40	$ 174.80
304			1/2" Dia Ball Valve, NIBCO INC. Bronze Body	EA	4	0%	4	0.289	$ 70.00	$ 20.23	$ 38.00	$ 58.23	$ 232.92
305			1" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Horizontal Lift Check Valves: Bronze Body With Non-metallic Disc And Bronze Seat.	EA	1	0%	1	0.400	$ 70.00	$ 28.00	$ 105.00	$ 133.00	$ 133.00
306		**Details Are As Per The Plan**	1" Dia Gate Valve	EA	1	0%	1	0.780	$ 70.00	$ 54.60	$ 302.00	$ 356.60	$ 356.60
307			1" Dia Globe Valve	EA	1	0%	1	0.980	$ 70.00	$ 68.60	$ 358.00	$ 426.60	$ 426.60
308			1" Dia Union	EA	2	0%	2	0.225	$ 70.00	$ 15.75	$ 12.50	$ 28.25	$ 56.50
309			1-1/4" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Hor	EA	1	0%	1	0.450	$ 70.00	$ 31.50	$ 125.00	$ 156.50	$ 156.50
310			1-1/4" Dia Gate Valve	EA	1	0%	1	0.780	$ 70.00	$ 54.60	$ 185.00	$ 239.60	$ 239.60
311			1-1/4" Dia Globe Valve	EA	1	0%	1	0.320	$ 70.00	$ 22.40	$ 55.00	$ 77.40	$ 77.40
312			1-1/4" Dia Union	EA	2	0%	2	0.256	$ 70.00	$ 17.92	$ 25.00	$ 42.92	$ 85.84
			PUMP										
313			Elevator Sump Pump, ZOELLER PUMP CO. MODEL 161, 115 Volt, 1/2 HP, 60HZ, Pump Capacity 100 GPM, 5ft Head.	EA	1	0%	1	3.230	$ 70.00	$ 226.10	$ 3,513.60	$ 3,739.70	$ 3,739.70
314			Domestic Booster Pump Shall Be Supplied By Contractor, Provide A Packaged Booster Pump System. "ITT, BELL & GOSSETT".	EA	1	0%	1	3.250	$ 70.00	$ 227.50	$ 3,042.00	$ 3,269.50	$ 3,269.50
315			Recirculation Pump GRUNFOS UPS26-99	EA	0	0%	0	1.000	$ 70.00	$ 70.00	$ 472.80	$ 542.80	$ -
			ELEVATOR SUM PUMP DETAIL										
316			1-1/2" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Hor	EA	1	0%	1	0.680	$ 70.00	$ 47.60	$ 135.00	$ 182.60	$ 182.60
317			1-1/2" Dia Gate Valve, NIBCO INC. Bronze Body	EA	1	0%	1	0.950	$ 70.00	$ 66.50	$ 285.00	$ 351.50	$ 351.50
318			1-1/2" Dia Union	EA	1	0%	1	0.285	$ 70.00	$ 19.95	$ 62.12	$ 82.07	$ 82.07
319			1-1/2" Dia Cleanout	EA	1	0%	1	0.650	$ 70.00	$ 45.50	$ 211.00	$ 256.50	$ 256.50
320			Stainless Steel Screen Grate Cover For Pit	EA	1	0%	1	0.750	$ 70.00	$ 52.50	$ 525.00	$ 577.50	$ 577.50

COST BIDDING
A Mark of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
321			ZOELLER "Oil Guard" System, 940-0006	EA	1	0%	1	1.900	$ 70.00	$ 133.00	$ 2,343.00	$ 2,476.00	$ 2,476.00
322			24"x24"x24" Sump Pump Pit, 24" Diameter, 36" Depth	EA	1	0%	1	0.250	$ 70.00	$ 17.50	$ 80.00	$ 97.50	$ 97.50
			MISCELLANEOUS										
323			3/4" Dia Gas Cock Manufactured By NIBCO	EA	2	0%	2	0.185	$ 70.00	$ 12.95	$ 20.00	$ 32.95	$ 65.90
324			1-1/4" Dia Gas Cock Manufactured By NIBCO	EA	3	0%	3	0.200	$ 70.00	$ 14.00	$ 28.00	$ 42.00	$ 126.00
325			3/4" Dia Water Hammer Arrester, SIOUX-CHIEF, Standard: ASSE 10	EA	220	0%	220	0.220	$ 70.00	$ 15.40	$ 30.00	$ 45.40	$ 9,988.00
326			1" Dia Pipe End Cap	EA	1	0%	1	0.200	$ 70.00	$ 14.00	$ 4.56	$ 18.56	$ 18.56
327			1-1/2" Dia Pipe End Cap	EA	1	0%	1	0.200	$ 70.00	$ 14.00	$ 7.50	$ 21.50	$ 21.50
328			2" Dia Gas Service & Regulator Assembly Supplied By Gas Provider. T	EA	1	0%	1	0.890	$ 70.00	$ 62.30	$ -	$ 62.30	$ 62.30
329			3" Dia Downspout Nozzle	EA	2	0%	2	0.350	$ 70.00	$ 24.50	$ 225.00	$ 249.50	$ 499.00
330			6" Dia Downspout Nozzle	EA	5	0%	5	0.550	$ 70.00	$ 38.50	$ 445.00	$ 483.50	$ 2,417.50
331			1-1/2" Dia Back Flow Preventer, AMES CO. Standard: ASSE 1013, Br	EA	1	0%	1	1.100	$ 70.00	$ 77.00	$ 1,450.00	$ 1,527.00	$ 1,527.00
332			3" Dia VTR: Vent Through Roof	EA	26	0%	26	0.650	$ 70.00	$ 45.50	$ 180.00	$ 225.50	$ 5,863.00
		dia 2way CO missi	**CLEANOUTS & DRAINS**										
333			3" Dia FD: Floor Drain, J.R. SMITH 2010, Type: Square Top, Material:	EA	19	0%	19	0.725	$ 70.00	$ 50.75	$ 320.00	$ 370.75	$ 7,044.25
334			4" Dia FD: Floor Drain, J.R. SMITH 2010, Type: Square Top, Material:	EA	1	0%	1	0.850	$ 70.00	$ 59.50	$ 460.00	$ 519.50	$ 519.50
335			3" Dia RD: Roof Drain, J.R. SMITH 1015-C-U, Type: Dome Top, Mate	EA	2	0%	2	0.890	$ 70.00	$ 62.30	$ 425.00	$ 487.30	$ 974.60
336			4" Dia RD: Roof Drain, J.R. SMITH 1015-C-U, Type: Dome Top, Mate	EA	2	0%	2	0.890	$ 70.00	$ 62.30	$ 486.00	$ 548.30	$ 1,096.60
337			6" Dia RD: Roof Drain, J.R. SMITH 1015-C-U, Type: Dome Top, Mate	EA	5	0%	5	0.890	$ 70.00	$ 62.30	$ 486.00	$ 548.30	$ 2,741.50
338			6" Dia FCO: Floor Clean-Out, J.R. SMITH 4040, Type: Square Top, M	EA	1	0%	1	0.650	$ 70.00	$ 45.50	$ 385.00	$ 430.50	$ 430.50
339			10" Dia FCO: Floor Clean-Out, J.R. SMITH 4040, Type: Square Top, M	EA	1	0%	1	0.850	$ 70.00	$ 59.50	$ 357.60	$ 417.10	$ 417.10
340			1-1/2" Dia WCO: Wall Clean-Out, J.R. SMITH 4472, Type: Round Cov	EA	13	0%	13	0.450	$ 70.00	$ 31.50	$ 65.00	$ 96.50	$ 1,254.50
341			4" Dia WCO: Wall Clean-Out, J.R. SMITH 4472, Type: Round Cover,	EA	26	0%	26	0.450	$ 70.00	$ 31.50	$ 75.00	$ 106.50	$ 2,769.00
342			3" Dia EORD, Emergency Overflow Roof Drain	EA	2	0%	2	0.650	$ 70.00	$ 45.50	$ 285.00	$ 330.50	$ 661.00
343			6" Dia EORD, Emergency Overflow Roof Drain	EA	5	0%	5	0.890	$ 70.00	$ 62.30	$ 508.00	$ 570.30	$ 2,851.50
344		**Schedule Not Given**	4" Dia 2 Way Cleanout	EA	3	0%	3	0.350	$ 70.00	$ 24.50	$ 80.00	$ 104.50	$ 313.50
345			6" Dia 2 Way Cleanout	EA	2	0%	2	0.650	$ 70.00	$ 45.50	$ 165.00	$ 210.50	$ 421.00
346			4" Dia Trench Drain, W/ lint Screen (7'-6" Length)	EA	1	0%	1	1.100	$ 70.00	$ 77.00	$ 355.20	$ 432.20	$ 432.20
347			10" Dia 2-Way Cleanout	EA	1	0%	1	1.100	$ 70.00	$ 77.00	$ 355.20	$ 432.20	$ 432.20
			VALVES										
348			1" Dia Provide Dual Check Valve Backflow Preventer, WATTS SERIE	EA	1	0%	1	0.689	$ 70.00	$ 48.23	$ 118.00	$ 166.23	$ 166.23
349			1/2" Dia Balancing Valve	EA	25	0%	25	0.750	$ 70.00	$ 52.50	$ 135.00	$ 187.50	$ 4,687.50
350			1/2" Dia Ball Valve, NIBCO INC. Bronze Body	EA	24	0%	24	0.300	$ 70.00	$ 21.00	$ 28.00	$ 49.00	$ 1,176.00
351			3/4" Dia Ball Valve, NIBCO INC. Bronze Body	EA	8	0%	8	0.320	$ 70.00	$ 22.40	$ 35.00	$ 57.40	$ 459.20
352			1" Dia Ball Valve, NIBCO INC. Bronze Body	EA	30	0%	30	0.356	$ 70.00	$ 24.92	$ 38.00	$ 62.92	$ 1,887.60
353			1-1/4" Dia Ball Valve, NIBCO INC. Bronze Body	EA	28	0%	28	0.400	$ 70.00	$ 28.00	$ 85.00	$ 113.00	$ 3,164.00
354			1-1/2" Dia Ball Valve, NIBCO INC. Bronze Body	EA	3	0%	3	0.520	$ 70.00	$ 36.40	$ 115.00	$ 151.40	$ 454.20
355			3" Dia Shut Off Valve, NIBCO INC. Bronze Body	EA	1	0%	1	0.450	$ 70.00	$ 31.50	$ 250.00	$ 281.50	$ 281.50
356			1-1/4" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Hor	EA	25	0%	25	0.450	$ 70.00	$ 31.50	$ 125.00	$ 156.50	$ 3,912.50
			NO-HUB COUPLING										
357			1-1/2" Dia	EA	42	0%	42						
358			2" Dia	EA	1919	0%	1919						
359			3" Dia	EA	2936	0%	2936						
360			4" Dia	EA	678	0%	678						
361			6" Dia	EA	166	0%	166						
362			8" Dia	EA	4	0%	4						
363			10" Dia	EA	13	0%	13						
			PIPE SUPPORT										
364			1/2" Dia Adjustable Clevis Hanger	EA	1232	0%	1232						
365			3/4" Dia Adjustable Clevis Hanger	EA	991	0%	991						
366			1" Dia Adjustable Clevis Hanger	EA	388	0%	388						
367			1-1/4" Dia Adjustable Clevis Hanger	EA	118	0%	118						
368			1-1/2" Dia Adjustable Clevis Hanger	EA	306	0%	306						
369			2" Dia Adjustable Clevis Hanger	EA	336	0%	336						
370			2-1/2" Dia Adjustable Clevis Hanger	EA	7	0%	7						
371			3" Dia Adjustable Clevis Hanger	EA	422	0%	422						
372			4" Dia Adjustable Clevis Hanger	EA	170	0%	170						
373			6" Dia Adjustable Clevis Hanger	EA	32	0%	32						
374			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	3035	0%	3035	0.040	$ 70.00	$ 2.80	$ 10.07	$ 12.87	$ 39,060.45
375			1/2" Dia Threaded Rod (1 Ea. = 1 FT)	EA	935	0%	935	0.057	$ 70.00	$ 3.99	$ 19.41	$ 23.40	$ 21,879.00
376			5/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	32	0%	32	0.080	$ 70.00	$ 5.60	$ 10.42	$ 16.02	$ 512.64
			TRENCHING & BACKFILLING										
377			Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	4917	0%	4917	0.080	$ 70.00	$ 5.60	$ -	$ 5.60	$ 27,535.20
												SUB TO TAL	**$ 2,310,202**
			HVAC										
			FLEXIBLE DUCT										
378			4" Dia Flexible Duct	LF	984	10%	1082	0.045	$ 72.00	$ 3.24	$ 1.67	$ 4.91	$ 5,314.58
379			6" Dia Flexible Duct	LF	939	10%	1033	0.057	$ 72.00	$ 4.10	$ 2.66	$ 6.76	$ 6,986.54
380			8" Dia Flexible Duct	LF	113	10%	124	0.080	$ 72.00	$ 5.76	$ 3.60	$ 9.36	$ 1,163.45
381			10" Dia Flexible Duct	LF	160	10%	176	0.100	$ 72.00	$ 7.20	$ 5.10	$ 12.30	$ 2,164.80
			REFRIGERANT PIPE										
			Type "ACR" Wrought Copper Pipe With Wrought Copper Fittings & Brazed joints										
382		**Size Assumed**	3/8" Dia Refrigerant Liquid Pipe	LF	630	10%	693	0.095	$ 72.00	$ 6.84	$ 2.97	$ 9.81	$ 6,795.20
383			5/8" Dia Refrigerant Suction Pipe	LF	630	10%	693	0.100	$ 72.00	$ 7.20	$ 3.68	$ 10.88	$ 7,536.37
			1" Thick Flexible Elastomeric Pipe Insulation										
384			3/8" Dia Refrigerant Liquid Pipe	LF	630	10%	693	0.025	$ 72.00	$ 1.80	$ 2.96	$ 4.76	$ 3,297.16
385			5/8" Dia Refrigerant Suction Pipe	LF	630	10%	693	0.025	$ 72.00	$ 1.80	$ 3.02	$ 4.82	$ 3,338.72
			REFRIGERANT PIPE FITTINGS										
			ELBOW										
386			3/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow	EA	16	0%	16	0.410	$ 72.00	$ 29.52	$ 17.50	$ 47.02	$ 752.32
387			5/8" Dia Refrigerant Suction Pipe 90 Deg Elbow	EA	16	0%	16	0.421	$ 72.00	$ 30.31	$ 19.98	$ 50.29	$ 804.67
			CONDENSATE DRAIN PIPE										
			Type "L" Copper Pipe With Soldered Joints										
388		**Size Assumed**	3/4" Dia Condensate Drain	LF	168	10%	185	0.105	$ 72.00	$ 7.56	$ 5.40	$ 12.96	$ 2,398.57
			1" Thick Flexible Elastomeric Pipe Insulation										
389			3/4" Dia Condensate Drain	LF	168	10%	185	0.025	$ 72.00	$ 1.80	$ 3.12	$ 4.92	$ 910.57
			CONDENSATE DRAIN FITTINGS										
			ELBOW										
390			3/4" Dia Condensate Drain 90 Deg Elbow	EA	22	0%	22	0.421	$ 72.00	$ 30.31	$ 8.98	$ 39.29	$ 864.42
			AIR DEVICES										
391			A: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: LAY-IN,	EA	27	0%	27	0.620	$ 72.00	$ 44.64	$ 198.45	$ 243.09	$ 6,563.43
392		**The Qunatity Is As Per The Plan**	A: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: LAY-IN,	EA	8	0%	8	0.620	$ 72.00	$ 44.64	$ 206.85	$ 251.49	$ 2,011.92
393			A: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: LAY-IN,	EA	13	0%	13	0.620	$ 72.00	$ 44.64	$ 200.00	$ 244.64	$ 3,180.32
394			B: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: Surface,	EA	19	0%	19	0.620	$ 72.00	$ 44.64	$ 200.00	$ 244.64	$ 4,648.16
395			B: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: Surface,	EA	2	0%	2	0.620	$ 72.00	$ 44.64	$ 198.45	$ 243.09	$ 486.18
396			C: Supply, TITUS 300RS, Frame Type: Surface, Damper: YES, Materi	EA	110	0%	110	0.550	$ 72.00	$ 39.60	$ 74.50	$ 114.10	$ 12,551.00
397			D: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 4'-4", Neck Size: 6" Dia Notes: 3. 6" Inlet - 1 Slots 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	2	0%	2	0.580	$ 72.00	$ 41.76	$ 212.75	$ 254.51	$ 509.02

COST BIDDING
Book of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
397			D: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 5'-2", Neck Size: 8" Dia Notes: 3. 6" Inlet - 1 Slots 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	4	0%	4	0.600	$ 72.00	$ 43.20	$ 219.50	$ 262.70	$ 1,050.80
398			D: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 5'-4", Neck Size: 8" Dia Notes: 3. 6" Inlet - 1 Slots 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	3	0%	3	0.600	$ 72.00	$ 43.20	$ 219.50	$ 262.70	$ 788.10
399			E: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 4'-4", Neck Size: 8" Dia Notes: 4. 8" Inlet - 1 Slot 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	2	0%	2	0.600	$ 72.00	$ 43.20	$ 219.50	$ 262.70	$ 525.40
400			F: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 5'-4", Neck Size: 10" Dia Notes: 5. 10" Inlet - 2 Slots 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	11	0%	11	0.600	$ 72.00	$ 43.20	$ 230.14	$ 273.34	$ 3,006.74
401			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 12"x12", Fr	EA	2	0%	2	0.600	$ 72.00	$ 43.20	$ 78.69	$ 121.89	$ 243.78
402			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 8"x8", Fram	EA	1	0%	1	0.580	$ 72.00	$ 41.76	$ 75.50	$ 117.26	$ 117.26
403			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 15"x15", Fr	EA	1	0%	1	0.620	$ 72.00	$ 44.64	$ 86.52	$ 131.16	$ 131.16
404			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 18"x18", Fr	EA	2	0%	2	0.620	$ 72.00	$ 44.64	$ 91.36	$ 136.00	$ 272.00
405			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 22"x22", Fr	EA	2	0%	2	0.650	$ 72.00	$ 46.80	$ 102.68	$ 149.48	$ 298.96
406			H: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 22"x22", Fr	EA	1	0%	1	0.650	$ 72.00	$ 46.80	$ 102.68	$ 149.48	$ 149.48
407			J: Exhaust, AMERICAN ALDES CSR-R-II, Frame Type: Surface, Dam	EA	110	0%	110	0.650	$ 72.00	$ 46.80	$ 168.80	$ 215.60	$ 23,716.00
408			12"x12" Exhaust Louver W/ Bird Screen, Ruskin's, ELF375DX	EA	14	0%	14	0.625	$ 72.00	$ 45.00	$ 251.41	$ 296.41	$ 4,149.74
409			40"x28" Combustion Air Louver	EA	1	0%	1	0.850	$ 72.00	$ 61.20	$ 348.63	$ 409.83	$ 409.83
	M101, M102, M103, M104, M105, M106 & M108		**PACKAGED THRU WALL UNIT**										
410			PTAC-1: Packaged Terminal Air Conditioner, AMANA PTC073K, Sup	EA	110	0%	110	2.250	$ 72.00	$ 162.00	$ 1,243.00	$ 1,405.00	$ 154,550.00
			SPLIT SYSTEM HEAT PUMP UNIT										
411			AH-1/HP-1: TRANE GAM5B0B30, Total CFM: 1000, Min. OA CFM:	EA	1	0%	1	3.850	$ 72.00	$ 277.20	$ 3,898.40	$ 4,175.60	$ 4,175.60
412			AH-2/HP-2: TRANE GAM5B0A18, Total CFM: 600, Min. OA CFM: 5	EA	1	0%	1	3.725	$ 72.00	$ 268.20	$ 2,850.00	$ 3,118.20	$ 3,118.20
413			AH-3/HP-3: TRANE GAM5B0C42, Total CFM: 1400, Min. OA CFM:	EA	1	0%	1	3.885	$ 72.00	$ 279.72	$ 4,475.82	$ 4,755.54	$ 4,755.54
414			AH-4/HP-4: TRANE GAM5B0C60, Total CFM: 2000, Min. OA CFM:	EA	1	0%	1	4.125	$ 72.00	$ 297.00	$ 4,995.25	$ 5,292.25	$ 5,292.25
415			AH-5/HP-5: TRANE GAM5B0C48, Total CFM: 1600, Min. OA CFM:	EA	1	0%	1	4.000	$ 72.00	$ 288.00	$ 4,687.96	$ 4,975.96	$ 4,975.96
416			AH-6/HP-6: TRANE GAM5B0A24, Total CFM: 800, Min. OA CFM: 2	EA	1	0%	1	3.850	$ 72.00	$ 277.20	$ 3,344.55	$ 3,621.75	$ 3,621.75
417			AH-7/HP-7: TRANE GAM5B0C24, Total CFM: 1400, Min. OA CFM:	EA	1	0%	1	3.885	$ 72.00	$ 279.72	$ 4,475.82	$ 4,755.54	$ 4,755.54
			SPLIT SYSTEM HEAT PUMP UNIT DETAIL										
418		Size Assumed	14"x12" Flexible Duct Connection	EA	7	0%	7	0.355	$ 72.00	$ 25.56	$ 28.38	$ 53.94	$ 377.58
419			2" Dia P-Trap	EA	7	0%	7	0.450	$ 72.00	$ 32.40	$ 31.88	$ 64.28	$ 449.96
420			Volume Damper With Locking Quadrant	EA	7	0%	7	0.620	$ 72.00	$ 44.64	$ 144.64	$ 189.28	$ 1,324.96
			MINI SPLIT COOLING/HEAT PUMP UNIT										
421			AH-8/CU-8: Air Handling Unit, MITSUBISHI PKA-A12HA7, NOM. T	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 2,825.32	$ 3,049.96	$ 3,049.96
			ELECTRIC WALL HEATER										
422			EWH-1: Electrical Wall Heater, QMARK, No Of Heaters: 3, Electrical	EA	3	0%	3	1.450	$ 72.00	$ 104.40	$ 768.45	$ 872.85	$ 2,618.55
			MAKEUP AIR UNIT										
423			MAU-1: Make-up Air Unit, CAPTIVEAIRE CASRTU4-1300-24-40T-2	EA	1	0%	1	7.250	$ 72.00	$ 522.00	$ 23,200.00	$ 23,722.00	$ 23,722.00
424			MAU-2: Make-up Air Unit, CAPTIVEAIRE CASRTU4-1500-24-50T-2	EA	1	0%	1	8.500	$ 72.00	$ 612.00	$ 29,900.00	$ 30,512.00	$ 30,512.00
			MAKEUP AIR UNIT DETAIL										
425			2" Dia P-Trap With Cleanout	EA	1	0%	1	0.725	$ 72.00	$ 52.20	$ 89.67	$ 141.87	$ 141.87
426			6" Reinforced Concrete Pad	EA	1	0%	1	1.250	$ 72.00	$ 90.00	$ 378.52	$ 468.52	$ 468.52
427			VISB. ISOL. PAD	EA	1	0%	1	0.425	$ 72.00	$ 30.60	$ 68.44	$ 99.04	$ 99.04
			FAN										
428			EF-1: Exhaust Fan, GREENHECK MODEL SP-B110, CFM: 75, S.P.:	EA	2	0%	2	0.850	$ 72.00	$ 61.20	$ 185.00	$ 246.20	$ 492.40
429		The Qunatity Is As Per The Plan	EF-2: Exhaust Fan, GREENHECK MODEL SP-B110, CFM: 100, S.P.: 0.25, RPM: 1350, Type: Ceiling, MIN. Motor HP & Voltage: 173 WATTS 120/1ø, Drive: Direct, Control Scheme: A Notes: 1. Screen 2. Backdraft Damper 3. Speed Controller 4. Integral Disconnect Switch	EA	9	0%	9	0.850	$ 72.00	$ 61.20	$ 185.00	$ 246.20	$ 2,215.80
430			EF-3: Exhaust Fan, GREENHECK MODEL SP-B150, CFM: 175, S.P.	EA	2	0%	2	0.885	$ 72.00	$ 63.72	$ 205.00	$ 268.72	$ 537.44
431			EF-4: Exhaust Fan, GREENHECK MODEL SP-A250, CFM: 200, S.P.	EA	5	0%	5	0.965	$ 72.00	$ 69.48	$ 405.60	$ 475.08	$ 2,375.40
432			EF-5: Exhaust Fan, GREENHECK MODEL G-065-VG, CFM: 210, S.	EA	1	0%	1	1.120	$ 72.00	$ 80.64	$ 678.00	$ 758.64	$ 758.64
433			EF-6: Exhaust Fan, GREENHECK MODEL G-060-VG, CFM: 105, S.	EA	3	0%	3	1.120	$ 72.00	$ 80.64	$ 638.40	$ 719.04	$ 2,157.12
434			EF-7: Exhaust Fan, GREENHECK MODEL G-075-VG, CFM: 350, S.	EA	7	0%	7	1.255	$ 72.00	$ 90.36	$ 749.02	$ 839.38	$ 5,875.66
435			EF-8: Exhaust Fan, GREENHECK MODEL G-070-VG, CFM: 280, S.	EA	2	0%	2	1.255	$ 72.00	$ 90.36	$ 709.22	$ 799.58	$ 1,599.16
436			EF-9: Exhaust Fan, GREENHECK MODEL SP-B110, CFM: 100, SP.	EA	1	0%	1	1.255	$ 72.00	$ 90.36	$ 289.53	$ 379.89	$ 379.89
437			EF-10: Exhaust Fan, GREENHECK MODEL SP-B110, CFM: 150, SP	EA	1	0%	1	1.255	$ 72.00	$ 90.36	$ 298.53	$ 388.89	$ 388.89
			DAMPERS										
438			6" Dia Fire Smoke Damper	EA	112	0%	112	0.585	$ 72.00	$ 42.12	$ 168.16	$ 210.28	$ 23,551.36
439			18"x10" Fire Smoke Damper	EA	4	0%	4	0.625	$ 72.00	$ 45.00	$ 132.48	$ 177.48	$ 709.92
440			26"x8" Fire Smoke Damper	EA	4	0%	4	0.650	$ 72.00	$ 46.80	$ 153.70	$ 200.50	$ 802.00
441			26"x16" Fire Smoke Damper	EA	1	0%	1	0.655	$ 72.00	$ 47.16	$ 168.52	$ 215.68	$ 215.68
442			6" Dia Volume Damper	EA	21	0%	21	0.585	$ 72.00	$ 42.12	$ 84.57	$ 126.69	$ 2,660.49
443			8" Dia Volume Damper	EA	4	0%	4	0.600	$ 72.00	$ 43.20	$ 96.10	$ 139.30	$ 557.20
444			10" Dia Volume Damper	EA	2	0%	2	0.600	$ 72.00	$ 43.20	$ 102.91	$ 146.11	$ 292.22
445			40"x28" Motorized Damper	EA	1	0%	1	1.325	$ 72.00	$ 95.40	$ 997.61	$ 1,093.01	$ 1,093.01
			DUCT WEIGHT										
446			Galvanized Sheet Metal Duct	LB	12985	10%	14284	0.098	$ 72.00	$ 7.06	$ 0.98	$ 8.04	$ 114,782.21
			DUCT INSULATION										
447			1-1/2" Thick Mineral Fiber Blanket Insulation	SF	10952	10%	12047	0.012	$ 72.00	$ 0.86	$ 1.15	$ 2.01	$ 24,263.06
			MISCELLANEOUS										
448			6" Dia Circular Clamp	EA	8	0%	8	0.350	$ 72.00	$ 25.20	$ 50.99	$ 76.19	$ 609.52
449			8" Dia Circular Clamp	EA	4	0%	4	0.380	$ 72.00	$ 27.36	$ 62.25	$ 89.61	$ 358.44
450			10" Dia Circular Clamp	EA	2	0%	2	0.400	$ 72.00	$ 28.80	$ 59.60	$ 88.40	$ 176.80
451			Thermostat	EA	7	0%	7	0.685	$ 72.00	$ 49.32	$ 78.65	$ 127.97	$ 895.79
452			Duct Smoke Detector	EA	7	0%	7	0.850	$ 72.00	$ 61.20	$ 184.59	$ 245.79	$ 1,720.53
			PIPE SUPPORTS										
453			3/8" Dia Adjustable Clevis Hanger	EA	105	0%	105						
454			5/8" Dia Adjustable Clevis Hanger	EA	105	0%	105						
455			3/4" Dia Adjustable Clevis Hanger	EA	28	0%	28						
456			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	238	0%	238	0.150	$ 72.00	$ 10.80	$ 11.85	$ 22.65	$ 5,390.70
			DUCT SUPPORTS										
457			3/8" Threaded Rod	EA	2538	0%	2538	0.150	$ 72.00	$ 10.80	$ 11.85	$ 22.65	$ 57,485.70
458			1" x 22 Ga. Strap	EA	254	0%	254	0.068	$ 72.00	$ 4.90	$ 4.98	$ 9.88	$ 2,508.50
												SUB TOTAL	$ 609,999
			ELECTRICAL										
			DISTRIBUTION										
			CONDUIT										
459			1-1/4" EMT Conduit	LF	246	10%	271	0.080	$ 72.00	$ 5.76	$ 5.82	$ 11.58	$ 3,134.82
460			2" EMT Conduit	LF	1170	10%	1287	0.100	$ 72.00	$ 7.20	$ 8.90	$ 16.10	$ 20,714.68
			CONDUCTOR										
461			#8 CU THHN/THWN	LF	246	10%	271	0.010	$ 72.00	$ 0.72	$ 0.56	$ 1.28	$ 346.51
462			#6 CU THHN/THWN	LF	674	10%	742	0.012	$ 72.00	$ 0.86	$ 0.80	$ 1.66	$ 1,234.42
463			#2 CU THHN/THWN	LF	1480	10%	1628	0.180	$ 72.00	$ 12.96	$ 1.81	$ 14.77	$ 24,040.04

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
464			#3/0 CU THHN/THWN	LF	4679	10%	5147	0.032	$ 72.00	$ 2.30	$ 4.74	$ 7.04	$ 36,251.97
			LUGS										
465			Compression Lug CU With 1-Hole , #8 CU Wire	EA	4	0%	4	0.222	$ 72.00	$ 15.98	$ 2.52	$ 18.50	$ 74.02
466			Heat Shrink Tubing for #8 CU Wire	EA	4	0%	4	0.150	$ 72.00	$ 10.80	$ 1.78	$ 12.58	$ 50.32
467			Compression Lug CU With 1-Hole , #6 CU Wire	EA	32	0%	32	0.267	$ 72.00	$ 19.22	$ 2.93	$ 22.15	$ 708.93
468			Heat Shrink Tubing for #6 CU Wire	EA	32	0%	32	0.150	$ 72.00	$ 10.80	$ 2.22	$ 13.02	$ 416.64
469			Compression Lug CU With 1-Hole , #2 CU Wire	EA	42	0%	42	0.333	$ 72.00	$ 23.98	$ 4.85	$ 28.83	$ 1,210.69
470			Heat Shrink Tubing for #2 CU Wire	EA	42	0%	42	0.150	$ 72.00	$ 10.80	$ 2.59	$ 13.39	$ 562.38
471			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	232	0%	232	0.667	$ 72.00	$ 48.02	$ 9.93	$ 57.95	$ 13,445.33
472			Heat Shrink Tubing for #3/0 CU Wire	EA	232	0%	232	0.150	$ 72.00	$ 10.80	$ 3.12	$ 13.92	$ 3,229.44
			CIRCUIT BREAKER										
473			1P/20A Breaker	EA	816	0%	816	0.620	$ 72.00	$ 44.64	$ 62.53	$ 107.17	$ 87,450.72
474			1P/30A Breaker	EA	3	0%	3	0.620	$ 72.00	$ 44.64	$ 62.53	$ 107.17	$ 321.51
475			2P/15A Breaker	EA	4	0%	4	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 703.24
476			2P/20A Breaker	EA	123	0%	123	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 21,624.63
477			2P/30A Breaker	EA	9	0%	9	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 1,582.29
478			2P/50A Breaker	EA	2	0%	2	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 351.62
479			2P/60A Breaker	EA	7	0%	7	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 1,230.67
480			3P/30A Breaker	EA	3	0%	3	1.125	$ 72.00	$ 81.00	$ 356.03	$ 437.03	$ 1,311.09
481			3P/60A Breaker	EA	2	0%	2	1.125	$ 72.00	$ 81.00	$ 356.03	$ 437.03	$ 874.06
482			3P/100A Breaker	EA	6	0%	6	1.550	$ 72.00	$ 111.60	$ 504.84	$ 616.44	$ 3,698.64
483			3P/100A MCB	EA	1	0%	1	1.580	$ 72.00	$ 113.76	$ 668.49	$ 782.25	$ 782.25
484			3P/200A Breaker	EA	14	0%	14	2.000	$ 72.00	$ 144.00	$ 1,194.35	$ 1,338.35	$ 18,736.90
485			3P/400A Breaker	EA	5	0%	5	3.120	$ 72.00	$ 224.64	$ 1,832.56	$ 2,057.20	$ 10,286.00
486			3P/3000A MCB	EA	1	0%	1	7.500	$ 72.00	$ 540.00	$ 27,500.00	$ 28,040.00	$ 28,040.00
			PANEL										
487		MSB Has SPD Is Missing	Main Distribution Panel MSB: 3000A, 120/208V, 3Ph, 4W, Main: MCB, 65 KAIC, 66 Poles	EA	1	0%	1	18.000	$ 72.00	$ 1,296.00	$ 60,000.00	$ 61,296.00	$ 61,296.00
487			Surge Protection Device, Modular Type, Integrelly Mounted	EA	1	0%	1	18.000	$ 72.00	$ 1,296.00	$ 60,000.00	$ 61,296.00	$ 61,296.00
488			Panel 1A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
489			Panel 1B: 400A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles,	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
490			Panel 1C: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
491			Panel 1D: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
492			Panel 1E: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
493			Panel 2A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
494			Panel 2B: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
495			Panel 2C: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 52 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
496			Panel 2D: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
497			Panel 2E: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
498			Panel 3A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
499			Panel 3B: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
500			Panel 3C: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 52 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
501			Panel 3D: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
502			Panel 3E: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
503			Panel 4A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
504			Panel 4B: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
505			Panel 4C: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 52 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,560.00	$ 4,784.64	$ 4,784.64
506			Panel 4D: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
507			Panel 4E: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
508			Panel 5A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
509			Panel 5B: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
510			Panel 5C: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC,52 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
511			Panel 5D: 400A, 120/208V, 3Ph, 4W, Mains: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
512			Panel 5E: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
513			Panel EM: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
514			Panel K: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
515			Panel PL: 100A, 120/208V, 3Ph, 4W, Main: MCB, 22 KAIC, 30 Poles	EA	1	0%	1	1.325	$ 72.00	$ 95.40	$ 1,877.56	$ 1,972.96	$ 1,972.96
516			Panel SL: 100A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 30 Poles	EA	1	0%	1	1.325	$ 72.00	$ 95.40	$ 1,877.56	$ 1,972.96	$ 1,972.96
			DEVICES										
517			3000A Utility Meter	EA	1	0%	1	2.550	$ 72.00	$ 183.60	$ 1,744.32	$ 1,927.92	$ 1,927.92
518			4P/200A ATS	EA	1	0%	1	3.450	$ 72.00	$ 248.40	$ 3,443.00	$ 3,691.40	$ 3,691.40
		(Interior DS NEMA 1, Exterior DS NEMA 3R, Ratings are mentioned on Plan, Fusible disconnects are	**DISCONNECT SWITCH**										
520			1P/20A Signage Disconnect Switch, NEMA 3R	EA	3	0%	3	0.785	$ 72.00	$ 56.52	$ 187.36	$ 243.88	$ 731.64
521			1P/30A Disconnect Switch, NEMA 1	EA	2	0%	2	0.785	$ 72.00	$ 56.52	$ 187.36	$ 243.88	$ 487.76
522			2P/30AS/15AF Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	1.120	$ 72.00	$ 80.64	$ 240.23	$ 320.87	$ 641.74
523			2P/30AS/25AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	1.120	$ 72.00	$ 80.64	$ 212.42	$ 293.06	$ 293.06
524			2P/30AS/30AF Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	1.120	$ 72.00	$ 80.64	$ 240.23	$ 320.87	$ 641.74
525			2P/60AS/40AF Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	1.120	$ 72.00	$ 80.64	$ 212.42	$ 293.06	$ 586.12
526			2P/60AS/50AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	2.000	$ 72.00	$ 144.00	$ 318.13	$ 462.13	$ 462.13
527			2P/60AS/60AF Fused Disconnect Switch, NEMA 3R	EA	8	0%	8	2.000	$ 72.00	$ 144.00	$ 318.13	$ 462.13	$ 3,697.04
528		**Rating Assumed From Panel**	3P/60A Disconnect Switch, NEMA 1	EA	5	0%	5	2.000	$ 72.00	$ 144.00	$ 318.13	$ 462.13	$ 2,310.65
529			3P/100A Disconnect Switch, NEMA 1	EA	2	0%	2	2.000	$ 72.00	$ 144.00	$ 318.13	$ 462.13	$ 924.26
530			3P/200AS/200AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	2.500	$ 72.00	$ 180.00	$ 586.58	$ 766.58	$ 766.58
531			3P/400AS/225AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	2.500	$ 72.00	$ 180.00	$ 586.58	$ 766.58	$ 766.58
			GROUNDING										
532		Grounding Rod of Generator and MSB is Missing	3/4" x 10' CU Clad Ground Rod	EA	4	0%	4	0.385	$ 72.00	$ 27.72	$ 48.78	$ 76.50	$ 306.00
533			Ground Bus Bar	EA	2	0%	2	0.400	$ 72.00	$ 28.80	$ 52.75	$ 81.55	$ 163.10
534			Ground Clamp	EA	1	0%	1	0.420	$ 72.00	$ 30.24	$ 18.71	$ 48.95	$ 48.95
535			#6 CU Grounding Conductor	LF	30	10%	33	0.044	$ 72.00	$ 3.17	$ 1.60	$ 4.77	$ 157.34

COSTBIDDING
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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
536		Length Assumed	#4 CU Grounding Conductor, Concrete Encased	LF	20	10%	22	0.050	$ 72.00	$ 3.60	$ 1.58	$ 5.18	$ 113.96
537			#3/0 CU Grounding Conductor	LF	40	10%	44	0.032	$ 72.00	$ 2.30	$ 4.75	$ 7.05	$ 310.38
			POWER										
			CONDUIT										
538			3/4" EMT Conduit	LF	83341	10%	91675	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 599,004.67
539			1" EMT Conduit	LF	1498	10%	1648	0.070	$ 72.00	$ 5.04	$ 3.54	$ 8.58	$ 14,138.12
540			2" EMT Conduit	LF	466	10%	513	0.100	$ 72.00	$ 7.20	$ 8.90	$ 16.10	$ 8,252.86
541			3" EMT Conduit	LF	229	10%	252	0.160	$ 72.00	$ 11.52	$ 14.43	$ 25.95	$ 6,532.81
542			3/4" PVC SCH 40 Conduit	LF	233	10%	256	0.055	$ 72.00	$ 3.96	$ 2.20	$ 6.16	$ 1,578.81
543			3/4" RGS Conduit	LF	362	10%	398	0.100	$ 72.00	$ 7.20	$ 4.15	$ 11.35	$ 4,519.57
544			2" RGS Conduit	LF	15	10%	17	0.178	$ 72.00	$ 12.82	$ 13.40	$ 26.22	$ 432.56
545			3" RGS Conduit	LF	5	10%	6	0.320	$ 72.00	$ 23.04	$ 29.34	$ 52.38	$ 292.12
			CONDUCTOR										
546			3#12 MC Cable	LF	3814	10%	4196	0.018	$ 72.00	$ 1.30	$ 1.28	$ 2.58	$ 10,807.97
547			#12 CU THHN/THWN	LF	229802	10%	252782	0.007	$ 72.00	$ 0.50	$ 0.25	$ 0.75	$ 190,597.83
548			#10 CU THHN/THWN	LF	34789	10%	38268	0.008	$ 72.00	$ 0.58	$ 0.37	$ 0.95	$ 36,201.43
549			#8 CU THHN/THWN	LF	4535	10%	4989	0.010	$ 72.00	$ 0.72	$ 0.56	$ 1.28	$ 6,385.28
550			#6 CU THHN/THWN	LF	5132	10%	5645	0.012	$ 72.00	$ 0.86	$ 0.80	$ 1.66	$ 9,393.61
551			#4 CU THHN/THWN	LF	234	10%	257	0.015	$ 72.00	$ 1.08	$ 1.27	$ 2.35	$ 604.89
552			#3 CU THHN/THWN	LF	1244	10%	1368	0.016	$ 72.00	$ 1.15	$ 1.81	$ 2.96	$ 4,053.20
553			#3/0 CU THHN/THWN	LF	680	10%	748	0.032	$ 72.00	$ 2.30	$ 4.75	$ 7.05	$ 5,276.39
554			#4/0 CU THHN/THWN	LF	936	10%	1030	0.036	$ 72.00	$ 2.59	$ 5.97	$ 8.56	$ 8,815.44
		Emergency Shutt off control Switch in Pool is missing	**DEVICE**										
555			120V Motorized Fire Damper	EA	1	0%	1	1.125	$ 72.00	$ 81.00	$ 716.10	$ 797.10	$ 797.10
555		Rating Assumed From Panel	20A Equipment Connection	EA	3	0%	3	0.320	$ 72.00	$ 23.04	$ -	$ 23.04	$ 69.12
556			60A Equipment Connection	EA	1	0%	1	0.320	$ 72.00	$ 23.04	$ -	$ 23.04	$ 23.04
557			20A Single Phase Motor Switch	EA	24	0%	24	0.325	$ 72.00	$ 23.40	$ 28.19	$ 51.59	$ 1,238.16
558			30A Duplex Receptacle	EA	2	0%	2	0.380	$ 72.00	$ 27.36	$ 45.56	$ 72.92	$ 145.84
559			Duplex Receptacle, LEVITON 16352, Face Plate, 80401	EA	933	0%	933	0.350	$ 72.00	$ 25.20	$ 28.14	$ 53.34	$ 49,766.22
560			Duplex Receptacle, Above Counter, LEVITON 16352, Face Plate, 80401	EA	2	0%	2	0.350	$ 72.00	$ 25.20	$ 28.14	$ 53.34	$ 106.68
561			Duplex Receptacle, Flush Floor Mounted With Chrome Cover Plate	EA	21	0%	21	0.350	$ 72.00	$ 25.20	$ 64.99	$ 90.19	$ 1,893.99
562	E101, E102, E103, E104, E600, E601 & E602		Duplex Receptacle, GFCI, LEVITON 16352, Face Plate, 80401	EA	243	0%	243	0.350	$ 72.00	$ 25.20	$ 52.47	$ 77.67	$ 18,873.81
563			Duplex Receptacle, GFCI, WP	EA	27	0%	27	0.325	$ 72.00	$ 23.40	$ 47.86	$ 71.26	$ 1,924.02
564			Duplex Receptacle, USB, LEGRAND ARTRUSB153M4	EA	213	0%	213	0.350	$ 72.00	$ 25.20	$ 61.53	$ 86.73	$ 18,473.49
565			Emergency Shutoff Control Switch	EA	1	0%	1	0.285	$ 72.00	$ 20.52	$ 15.50	$ 36.02	$ 36.02
566			Quadplex Receptacle	EA	87	0%	87	0.420	$ 72.00	$ 30.24	$ 75.23	$ 105.47	$ 9,175.89
567			Quadplex Receptacle, USB	EA	110	0%	110	0.420	$ 72.00	$ 30.24	$ 80.12	$ 110.36	$ 12,139.60
568			Single Phase Motor Switch	EA	2	0%	2	0.325	$ 72.00	$ 23.40	$ 31.20	$ 54.60	$ 109.20
569		Provided By Smartcon	Smart RF Switch	EA	0	0%	0	0.320	$ 72.00	$ 23.04	$ -	$ 23.04	$ -
570			Thermostat, E528 ESERIES	EA	0	0%	0	0.655	$ 72.00	$ 47.16	$ -	$ 47.16	$ -
			LIGHTING										
			CONDUIT										
571		Length Assumed	3/4" EMT Conduit	LF	120	10%	132	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 862.49
572			3/4" EMT Conduit	LF	35265	10%	38792	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 253,463.66
573			1" EMT Conduit	LF	6114	10%	6726	0.070	$ 72.00	$ 5.04	$ 3.54	$ 8.58	$ 57,705.91
574			3/4" RGS Conduit	LF	167	10%	184	0.100	$ 72.00	$ 7.20	$ 4.15	$ 11.35	$ 2,085.87
575			3/4" PVC SCH 40 Conduit	LF	87	10%	96	0.055	$ 72.00	$ 3.96	$ 2.20	$ 6.16	$ 590.33
			CONDUCTOR										
576		Length Assumed & Provided By Others	CAT 5e Cable	LF	300	10%	330	0.028	$ 72.00	$ 2.02	$ -	$ 2.02	$ 665.28
577			3#12 MC Cable	LF	6838	10%	7522	0.018	$ 72.00	$ 1.30	$ 1.28	$ 2.58	$ 19,377.23
578			#12 CU THHN/THWN	LF	102090	10%	112299	0.007	$ 72.00	$ 0.50	$ 0.25	$ 0.75	$ 84,673.45
579			#10 CU THHN/THWN	LF	4467	10%	4914	0.008	$ 72.00	$ 0.58	$ 0.37	$ 0.95	$ 4,648.27
580			#8 CU THHN/THWN	LF	18343	10%	20177	0.010	$ 72.00	$ 0.72	$ 0.56	$ 1.28	$ 25,826.42
581		Length Assumed	#18 CU THHN/THWN	LF	240	10%	264	0.004	$ 72.00	$ 0.29	$ 0.16	$ 0.45	$ 118.27
		5th Floor Take-Off is Missing	**LIGHTING FIXTURES**										
582			B01: 2' X 2' LED Lighting Fixture, COOPER-METALUX, 22CZ2-39-UNV-L835-CD1-U Mounting: Recessed Watts: 31W	EA	62	0%	62	0.775	$ 72.00	$ 55.80	$ 145.00	$ 200.80	$ 12,449.60
583			B04: 2' X 2' LED Lighting Fixture, COOPER-METALUX, 22SR-LD2-29-C-UNV-L835-CD1-U Mounting: Recessed Watts: 23.4W	EA	14	0%	14	0.775	$ 72.00	$ 55.80	$ 205.00	$ 260.80	$ 3,651.20
584			B06: 4' X 4' Lighting Fixture, COOPER-METALUX, 24GR-LD5-72-F1-UNV-L835-CD1-U Mounting: Recessed Watts: 54.3W	EA	11	0%	11	1.406	$ 72.00	$ 101.25	$ 245.00	$ 346.25	$ 3,808.75
585			B08: Cooper - Neo Ray, S124DR-S795D830-FSR3F-1-UDD-F-W Mounting: Recessed Watts: 26.2W	EA	110	0%	110	0.725	$ 72.00	$ 52.20	$ 87.98	$ 140.18	$ 15,419.80
586			B10: 2' X 4' Lighting Fixture, Cooper - Metalux, 24GR-LD5-48-F1-UNV-L835-CD1-U Mounting: Recessed Watts: 34.9W	EA	6	0%	6	1.406	$ 72.00	$ 101.25	$ 148.36	$ 249.61	$ 1,497.66
587			D112: (02EA) Philips Lightolier, 407431748 Mounting: Pendant Watts: 30W	LF	8	0%	8	0.350	$ 72.00	$ 25.20	$ 32.37	$ 57.57	$ 480.13
588			D210: Challenger Lighting, CA-4800-00 Mounting: Recessed Watts: 34.9W	EA	3	0%	3	0.725	$ 72.00	$ 52.20	$ 78.96	$ 131.16	$ 393.48
589			D211: 6' Lighting Fixture, Challenger Lighting, CA4802-00-LED NETWORK ZONE-72"L Mounting: Pendant Watts: 40W	EA	4	0%	4	1.400	$ 72.00	$ 100.80	$ 196.52	$ 297.32	$ 1,189.28
590			D306: Challenger Lighting, SA5124-00 Mounting: Sconce Watts: 13W	EA	63	0%	63	1.206	$ 72.00	$ 86.85	$ 185.00	$ 271.85	$ 17,126.55
591			Egress Light: LED Lighting Fixture, Cooper Surelite, SELW25BK Mounting: Wall Watts: 06W	EA	10	0%	10	0.813	$ 72.00	$ 58.50	$ 88.83	$ 147.33	$ 1,473.30
592			J05: 4' Lighting Fixture, Cooper - Metalux, 4WNLED-LD4-40SL-F-UNV-L835-CD1-U Mounting: Surface Watts: 36W	EA	66	0%	66	1.406	$ 72.00	$ 101.25	$ 146.78	$ 248.03	$ 16,369.98
593			J06: (05EA) 12' Lighting Fixture, Cooper - Metalux, 4SNX-26SL-LW-UNV-L830-CD1-U Mounting: Surface Watts: 14W	LF	60	0%	60	0.281	$ 72.00	$ 20.25	$ 26.50	$ 46.75	$ 2,805.00
594			R72: LED LightingFixture, COOPER-HALO, HC620D010-HM60525930-61MDH Mounting: Recessed Watts: 14.2W	EA	162	0%	162	0.600	$ 72.00	$ 43.20	$ 78.33	$ 121.53	$ 19,687.86
595			R74: LED Lighting Fixture, COOPER-HALO, SLD405930WH Mounting: Recessed Watts: 12W	EA	330	0%	330	0.563	$ 72.00	$ 40.50	$ 83.40	$ 123.90	$ 40,887.00

COST BIDDING
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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
596			R76: LED Lighting Fixture, COOPER-HALO, HL36A20930ED010ICAT-TIR45NFL25-TL3R2GMW Mounting: Recessed Watts: 19W	EA	22	0%	22	0.600	$ 72.00	$ 43.20	$ 187.47	$ 230.67	$ 5,074.74
597			R77: LED Lighting Fixture, COOPER-HALO, H2750ICAT-ML5606830-691WB Mounting: Recessed Watts: 9W	EA	110	0%	110	0.563	$ 72.00	$ 40.50	$ 159.25	$ 199.75	$ 21,972.50
598			R82: LED Lighting Fixture, COOPER-HALO Lumiere, 340-6B15-D010-340-EU6B-1020-9030-6LBWLI-CC Mounting: Recessed Watts: 15.5W	EA	32	0%	32	0.600	$ 72.00	$ 43.20	$ 52.98	$ 96.18	$ 3,077.76
599			R85: LED Lighting Fixture, COOPER-HALO, H457ICAT1E-EL406930-TLS408SNBB Mounting: Recessed Watts: 13W	EA	25	0%	25	0.600	$ 72.00	$ 43.20	$ 85.51	$ 128.71	$ 3,217.75
600			R86: COOPER-HALO, ML4DM10LSFL9FS1E-TL43R2GMWWB Mounting: Recessed Watts: 12.8W	EA	8	0%	8	0.600	$ 72.00	$ 43.20	$ 57.45	$ 100.65	$ 805.20
601			R87: LED Lighting Fixture, COOPER-HALO, HC615D010-HM0525930-61MDH Mounting: Recessed Watts: 13.7W	EA	4	0%	4	0.650	$ 72.00	$ 46.80	$ 96.29	$ 143.09	$ 572.36
602			R87ALT3: COOPER - Metalux, 4SWLED-LD4-48HL-LWUNV-L835-CD2-SVPD1 Mounting: Surface Watts: 43.3W	EA	20	0%	20	1.406	$ 72.00	$ 101.25	$ 323.26	$ 424.51	$ 8,490.20
603			R102: LED Lighting Fixture, COOPER-HALO, ML4DM10LSFL9FS1E-TL40R2GMW Mounting: Recessed Watts: 9.4W	EA	110	0%	110	0.600	$ 72.00	$ 43.20	$ 58.45	$ 101.65	$ 11,181.50
604			X01: COOPER - Surelite, CX71SD Mounting: Wall Watts: 1W	EA	40	0%	40	0.569	$ 72.00	$ 40.95	$ 287.50	$ 328.45	$ 13,138.00
605			X01-WP: Weatherproof Light Fixture, COOPER - SURELITE, CX71SD Mounting: Wall Watts: 1W	EA	2	0%	2	0.569	$ 72.00	$ 40.95	$ 313.50	$ 354.45	$ 708.90
606			X03: LED Lighting Fixture, COOPER SURELITE, SEL25SD Mounting: Wall Watts: 06W	EA	117	0%	117	0.688	$ 72.00	$ 49.50	$ 108.97	$ 158.47	$ 18,540.99
607			Z100 (3EA): LED Lighting Fixture, LEGRAND- PINNACLE LIGHTING, EV3D-A-840-20-FL-U-FSD-1-W Mounting: Recessed Watts: 4.1W	LF	63	0%	63	0.300	$ 72.00	$ 21.60	$ 22.25	$ 43.85	$ 2,774.83
608			Z71: LED Lighting Fixture, COOPER - HALO, HC610D010-HM60525840-61MDC Mounting: Recessed Watts: 10W	EA	5	0%	5	0.606	$ 72.00	$ 43.65	$ 71.10	$ 114.75	$ 573.75
609			Z75: LED Lighting Fixture, COOPER - Shaper, 673-16-WP-L3/840-UNV-DP-2HTV-2VTB/PC-BC Mounting: Surface Watts: 20W	EA	10	0%	10	1.063	$ 72.00	$ 76.50	$ 78.11	$ 154.61	$ 1,546.10
606			001: Sconce Light, SIGNIFY-STONCO, #VWXL14NW-G18 VGC100 Mounting: Wall	EA	4								
610			003: Under Water Pool Light, Provided by Pool Contractor Mounting: Wall	EA	4	0%	4	0.688	$ 72.00	$ 49.50	$ -	$ 49.50	$ 198.00
			LIGHTING CONTROL										
611		Related to Lighting Control	125A, 3Ph, 4W QS Din Rail Panel, ALPD8B20BL4-GGGGBBBB	EA	1	0%	1	0.650	$ 72.00	$ 46.80	$ 575.00	$ 621.80	$ 621.80
612		Photocell & Time Clock is Missing	3 Button With Raise/Lower And Light Icon-Pico Keypad, PJ2-3BRL-GWH-L01	EA	4	0%	4	0.320	$ 72.00	$ 23.04	$ 22.45	$ 45.49	$ 181.96
613			30A Multi-Pole Lighting Contractor	EA	1	0%	1	0.655	$ 72.00	$ 47.16	$ 459.19	$ 506.35	$ 506.35
614			Dimmer With XCT Occupancy & Vacancy Sensor	EA	1	0%	1	0.325	$ 72.00	$ 23.40	$ 48.76	$ 72.16	$ 72.16
615			Over Ride Switch	EA	1	0%	1	0.350	$ 72.00	$ 25.20	$ 52.39	$ 77.59	$ 77.59
615			Photoelectric Switch (Photocell)	EA	1	0%	1	0.325	$ 72.00	$ 23.40	$ 28.99	$ 52.39	$ 52.39
616			Time Clock	EA	1	0%	1	0.325	$ 72.00	$ 23.40	$ 28.99	$ 52.39	$ 52.39
617			Powerpack Dimming Module With 0-10V Control, RMJS-8TN-DV-B	EA	4	0%	4	0.585	$ 72.00	$ 42.12	$ 188.47	$ 230.59	$ 922.36
618			Seetouch QS Non Insert_Button ,QWS2-5BRLN-WH-G	EA	1	0%	1	0.380	$ 72.00	$ 27.36	$ 266.46	$ 293.82	$ 293.82
619		Qty. Re-Check.	Wireless Ceiling Occupancy Sensor, LRF2-OCR2-P-WH	EA	4	0%	4	0.400	$ 72.00	$ 28.80	$ 98.40	$ 127.20	$ 508.80
620			3 Pole Master Switch Bank With Lighting Contactor, INNCOM #e528	EA	70	0%	70	0.525	$ 72.00	$ 37.80	$ 149.58	$ 187.38	$ 13,116.60
621			4 Pole Master Switch Bank With Lighting Contactor, INNCOM #e528	EA	40	0%	40	0.580	$ 72.00	$ 41.76	$ 160.32	$ 202.08	$ 8,083.20
622			Keyed Switch	EA	1	0%	1	0.320	$ 72.00	$ 23.04	$ 36.78	$ 59.82	$ 59.82
623			Occupancy Sensor, Ceiling Mounted, GREENGATE, OAC-DT-2000-R	EA	4	0%	4	0.350	$ 72.00	$ 25.20	$ 172.00	$ 197.20	$ 788.80
624			Occupancy Sensor, Wall Mounted, GREENGATE, OAC-DT-2000-R	EA	52	0%	52	0.320	$ 72.00	$ 23.04	$ 172.00	$ 195.04	$ 10,142.08
625			Single Pole Switch, DECORA DEVICES, 5601 SERIES	EA	300	0%	300	0.320	$ 72.00	$ 23.04	$ 24.98	$ 48.02	$ 14,406.00
626			Three Way Switch	EA	2	0%	2	0.350	$ 72.00	$ 25.20	$ 28.63	$ 53.83	$ 107.66
627		Assumed Because Legend Not Given	S, Speaker	EA	7	0%	7	0.350	$ 72.00	$ 25.20	$ 61.57	$ 86.77	$ 607.39
			MISCELLANEOUS										
628			Junction Box	EA	23	0%	23	0.425	$ 72.00	$ 30.60	$ 65.00	$ 95.60	$ 2,198.80
629			Junction Box, Wall Mounted	EA	290	0%	290	0.425	$ 72.00	$ 30.60	$ 65.00	$ 95.60	$ 27,724.00
			SAW CUT										
630			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	134	0%	134	0.090	$ 72.00	$ 6.48	$ -	$ 6.48	$ 868.32
												SUB TO TAL	$ 2,303,297
			COMMUNICATION										
			TELECOMMUNICATION										
			CONDUIT										
631			1" EMT Conduit Upto Ceiling	LF	1065	10%	1172	0.070	$ 72.00	$ 5.04	$ 3.54	$ 8.58	$ 10,051.47
632			3" EMT Conduit With Pull String	LF	34	10%	37	0.160	$ 72.00	$ 11.52	$ 14.43	$ 25.95	$ 966.53
633			4" EMT Conduit With Weatherhead	LF	285	10%	313	0.200	$ 72.00	$ 14.40	$ 19.56	$ 33.96	$ 10,642.72
634			1" PVC SCH 40 Conduit	LF	132	10%	145	0.064	$ 72.00	$ 4.61	$ 3.55	$ 8.16	$ 1,184.54
634			3" PVC SCH 40 Conduit With Pull String	LF	228	10%	251	0.145	$ 72.00	$ 10.44	$ 12.52	$ 22.96	$ 5,754.33
635		Length Assumed	4" PVC SCH 40 Conduit With Pull String	LF	150	10%	165	0.145	$ 72.00	$ 10.44	$ 12.52	$ 22.96	$ 3,788.40
		(2-Pair Residential Style Telephone Cable for Telephone Outlets)	**CONDUCTOR**										
636		Length Assumed & Provided By Others	CAT5e Cable	LF	30	10%	33	0.026	$ 72.00	$ 1.87	$ -	$ 1.87	$ 61.78
636			CAT 6 Cable	LF	67600	10%	74360	0.026	$ 72.00	$ 1.87	$ 0.24	$ 2.12	$ 157,345.76
637			2 Pair Residential Style Telephone Cable	LF	921	10%	1013	0.026	$ 72.00	$ 1.87	$ 0.24	$ 2.12	$ 2,143.72
638			RG-58 Residential Style Coaxial Cable	LF	13001	10%	14301	0.028	$ 72.00	$ 2.02	$ 0.42	$ 2.44	$ 34,837.48
			J-HOOKS										
639			2" J-Hooks	EA	75	0%	75	0.056	$ 72.00	$ 4.03	$ 3.57	$ 7.60	$ 567.87
			DEVICES										
640			Athena 1-Link Processor Panel With Integral POE Switch, QP5-1L-PO	EA	1	0%	1	0.625	$ 72.00	$ 45.00	$ 50.56	$ 95.56	$ 95.56
641			4'x8'x3/4" Plywood Back Board	EA	1	0%	1	0.285	$ 72.00	$ 20.52	$ 42.78	$ 63.30	$ 63.30
642			4'x8'x3/4" Plywood CAT V Back Board	EA	1	0%	1	0.285	$ 72.00	$ 20.52	$ 46.49	$ 67.01	$ 67.01

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
643			ATHena 5" Touchscreen, Q-TOUCH5-WH	EA	1	0%	1	0.655	$ 72.00	$ 47.16	$ 378.96	$ 426.12	$ 426.12
644			Data Outlet	EA	220	0%	220	0.220	$ 72.00	$ 15.84	$ 17.50	$ 33.34	$ 7,334.80
645			RJ45 Connector	EA	220	0%	220	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 347.60
646			Back Box	EA	220	0%	220	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 3,190.00
647			Faceplate	EA	220	0%	220	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 3,456.20
648			Tele/Data Outlet	EA	134	0%	134	0.220	$ 72.00	$ 15.84	$ 19.50	$ 35.34	$ 4,735.56
649			RJ45 Connector	EA	268	0%	268	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 423.44
650			Back Box	EA	134	0%	134	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 1,943.00
651			Faceplate	EA	134	0%	134	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 2,105.14
652			Tele/Data Outlet, Floor Mounted	EA	14	0%	14	0.220	$ 72.00	$ 15.84	$ 57.00	$ 72.84	$ 1,019.76
653			RJ45 Connector	EA	28	0%	28	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 44.24
654			Back Box	EA	14	0%	14	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 203.00
655			Faceplate	EA	14	0%	14	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 219.94
656			Telephone Outlet	EA	2	0%	2	0.220	$ 72.00	$ 15.84	$ 19.50	$ 35.34	$ 70.68
657			RJ45 Connector	EA	2	0%	2	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 3.16
658	E201, E202, E203, E204 & E205		Back Box	EA	2	0%	2	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 29.00
659			Faceplate	EA	2	0%	2	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 31.42
660			Telephone Outlet, House Phones	EA	14	0%	14	0.220	$ 72.00	$ 15.84	$ 19.50	$ 35.34	$ 494.76
661			RJ45 Connector	EA	14	0%	14	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 22.12
662			Back Box	EA	14	0%	14	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 203.00
663			Faceplate	EA	14	0%	14	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 219.94
664			TV Outlet	EA	118	0%	118	0.220	$ 72.00	$ 15.84	$ 17.50	$ 33.34	$ 3,934.12
665			RG-58 Connector	EA	118	0%	118	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 186.44
666			Back Box	EA	118	0%	118	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 1,711.00
667			Faceplate	EA	118	0%	118	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 1,853.78
668			TV Outlet, Floor Mounted	EA	11	0%	11	0.220	$ 72.00	$ 15.84	$ 57.00	$ 72.84	$ 801.24
669			RG-58 Connector	EA	11	0%	11	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 17.38
670			Back Box	EA	11	0%	11	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 159.50
671			Faceplate	EA	11	0%	11	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 172.81
672			Wireless Access Point	EA	110	0%	110	0.525	$ 72.00	$ 37.80	$ 156.78	$ 194.58	$ 21,403.80
673			RJ45 Connector	EA	110	0%	110	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 173.80
674			Back Box	EA	110	0%	110	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 1,595.00
675			Faceplate	EA	110	0%	110	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 1,728.10
			SECURITY										
			CONDUIT										
676			1/2" EMT Conduit	LF	72	10%	79	0.047	$ 72.00	$ 3.38	$ 1.19	$ 4.57	$ 362.26
			CONDUCTOR										
677			Multi conductor Composite Cable	LF	940	10%	1035	0.038	$ 72.00	$ 2.74	$ 0.78	$ 3.52	$ 3,637.40
677		2#22 LV Cable For Door Strike	#22 CU THHN/THWN	LF	90	10%	99	0.004	$ 72.00	$ 0.29	$ 0.16	$ 0.45	$ 44.35
678			#18 CU THHN/THWN	LF	54	10%	59	0.004	$ 72.00	$ 0.29	$ 0.16	$ 0.45	$ 26.61
			DEVICES										
679			Door Strike, VINGCARD FLEX	EA	9	0%	9	1.200	$ 72.00	$ 86.40	$ 525.00	$ 611.40	$ 5,502.60
680			Magnetic Door Contact, S241	EA	9	0%	9	0.350	$ 72.00	$ 25.20	$ 31.76	$ 56.96	$ 512.64
681			Card Reader, Wall Mounted	EA	9	0%	9	0.500	$ 72.00	$ 36.00	$ 78.75	$ 114.75	$ 1,032.75
			AUDIO/VISUAL SYSTEM										
			DEVICES										
682			Amplifier/Battery Cabinet	EA	1	0%	1	0.850	$ 72.00	$ 61.20	$ 880.24	$ 941.44	$ 941.44
683		Area of Refuge on E	Area Station	EA	5	0%	5	2.980	$ 72.00	$ 214.56	$ 7,050.00	$ 7,264.56	$ 36,322.80
684			Master Station	EA	1	0%	1	3.885	$ 72.00	$ 279.72	$ 14,000.00	$ 14,279.72	$ 14,279.72
685			Relay Card Cabinet	EA	1	0%	1	0.720	$ 72.00	$ 51.84	$ 322.54	$ 374.38	$ 374.38
			MISCELLANEOUS										
686		Card Reader Single Gang Junction Box	8"x8"x8" Junction Box	EA	9	0%	9	0.625	$ 72.00	$ 45.00	$ 58.13	$ 103.13	$ 928.17
												SUB TOTAL	$ 351,795
			ELECTRONIC SAFETY AND SECURITY										
			FIRE ALARM										
			CONDUIT										
687			3/4" EMT Conduit	LF	9441	10%	10385	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 67,857.39
			CONDUCTOR										
688		Plenum Rated	#16 CU THHN/THWN, Plenum Rated	LF	10678	10%	11745	0.005	$ 72.00	$ 0.36	$ 0.22	$ 0.58	$ 6,812.30
689			#14 CU THHN/THWN, Plenum Rated	LF	8204	10%	9024	0.006	$ 72.00	$ 0.43	$ 0.28	$ 0.71	$ 6,425.17
		Smoke Detectors Sounder Base	**DEVICES**										
690		In ADA Rooms, Smoke Detectors shall have 177Cd Strobe	Fire Alarm Annunciator Panel	EA	1	0%	1	2.150	$ 72.00	$ 154.80	$ 1,250.00	$ 1,404.80	$ 1,404.80
691		FA System Hearing Impaired Notification system	Fire Alarm Door Annunciator, Edwards 7005-G5	EA	7	0%	7	0.725	$ 72.00	$ 52.20	$ 178.84	$ 231.04	$ 1,617.28
692		FA System is Addressable	24V DC, Power Limited, Addressable Fire Alarm Control Panel	EA	1	0%	1	1.550	$ 72.00	$ 111.60	$ 528.36	$ 639.96	$ 639.96
692		separate Wall mounted and flush Mounted Door Holders Manufacturer: EDWARDS, 1504 Series (wall Mounted) 1501 (Flush Mounted)	Fire Alarm Door Holder, EDWARDS 1504 Series, Wall Mounted	EA	10	0%	10	0.500	$ 72.00	$ 36.00	$ 88.76	$ 124.76	$ 1,247.60
693	E206	separate Wall mounted and flush Mounted Door Holders Manufacturer: EDWARDS, 1504 Series (wall Mounted) 1501 (Flush Mounted)	Fire Alarm Door Holder, EDWARDS 1501 Series, Flush Mounted	EA	2	0%	2	0.500	$ 72.00	$ 36.00	$ 88.76	$ 124.76	$ 249.52
694			Fire Alarm Duct Smoke Detector	EA	2	0%	2	0.650	$ 72.00	$ 46.80	$ 178.59	$ 225.39	$ 450.78
695			Fire Alarm Fire Smoke Damper	EA	125	0%	125	0.890	$ 72.00	$ 64.08	$ 725.00	$ 789.08	$ 98,635.00
696			Fire Alarm Flow Switch	EA	10	0%	10	0.480	$ 72.00	$ 34.56	$ 168.73	$ 203.29	$ 2,032.90
697			Fire Alarm Heat Detector	EA	4	0%	4	0.350	$ 72.00	$ 25.20	$ 48.65	$ 73.85	$ 295.40
698			Fire Alarm Horn Strobe, 110CD	EA	2	0%	2	0.650	$ 72.00	$ 46.80	$ 204.96	$ 251.76	$ 503.52
699			Fire Alarm Horn Strobe, 30CD	EA	58	0%	58	0.550	$ 72.00	$ 39.60	$ 145.00	$ 184.60	$ 10,706.80
700			Fire Alarm Horn Strobe, WP	EA	4	0%	4	0.580	$ 72.00	$ 41.76	$ 112.78	$ 154.54	$ 618.16
701			Fire Alarm Manual Pull Station	EA	14	0%	14	0.480	$ 72.00	$ 34.56	$ 66.49	$ 101.05	$ 1,414.70
702			Fire Alarm Photoelectric Smoke Detector	EA	113	0%	113	0.350	$ 72.00	$ 25.20	$ 32.32	$ 57.52	$ 6,499.76
703			Fire Alarm Photoelectric Smoke Detector, Elevator Recall	EA	8	0%	8	0.350	$ 72.00	$ 25.20	$ 32.32	$ 57.52	$ 460.16
704			Fire Alarm Smoke & Carbon Monoxide Detector	EA	23	0%	23	0.355	$ 72.00	$ 25.56	$ 56.98	$ 82.54	$ 1,898.42
705			Sounder Base Fire Alarm Smoke Detector With Battery Backup & Inte	EA	110	0%	110	0.350	$ 72.00	$ 25.20	$ 45.23	$ 70.43	$ 7,747.30
705			Fire Alarm Strobe, 15Cd	EA	5	0%	5	0.350	$ 72.00	$ 25.20	$ 42.55	$ 67.75	$ 338.75
706			Fire Alarm Strobe, 177Cd	EA	38	0%	38	0.350	$ 72.00	$ 25.20	$ 42.55	$ 67.75	$ 2,574.50
707			Fire Alarm Tamper Switch	EA	10	0%	10	0.355	$ 72.00	$ 25.56	$ 98.85	$ 124.41	$ 1,244.10
												SUB TOTAL	$ 221,674
			UTILITIES										
			PLUMBING										
			WATER SERVICE PIPE (BELOW GRADE)										
			Polytube Pipe										

COST BIDDING
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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
708			2" Dia Water Service Pipe	LF	68	10%	75	0.271	$ 72.00	$ 19.51	$ 14.04	$ 33.55	$ 2,523.35
			WATER SERVICE PIPE FITTINGS										
			ELBOW										
709			2" Dia Water Service Pipe 90 Deg Elbow	EA	1	0%	1	0.727	$ 72.00	$ 52.34	$ 21.48	$ 73.82	$ 73.82
			REDUCER										
710			2" / 1" Dia Water Service Pipe Reducer	EA	1	0%	1	0.410	$ 72.00	$ 29.52	$ 3.29	$ 32.81	$ 32.81
			WATER MAIN PIPE (BELOW GRADE)										
			Ductile Iron Pipe										
711			3" Dia Water Main Pipe	LF	8	10%	9	0.135	$ 72.00	$ 9.72	$ 105.00	$ 114.72	$ 984.30
712			8" Dia Water Main Pipe	LF	29	10%	32	0.210	$ 72.00	$ 15.12	$ 153.10	$ 168.22	$ 5,314.41
			WATER MAIN PIPE FITTINGS										
			ELBOW										
713			8" Dia Water Main Pipe 90 Deg Elbow	EA	2	0%	2	2.624	$ 72.00	$ 188.93	$ 663.77	$ 852.70	$ 1,705.40
			REDUCER										
714			8" / 3" Dia Water Main Pipe Reducer	EA	1	0%	1	2.400	$ 72.00	$ 172.80	$ 445.74	$ 618.54	$ 618.54
			WATER MAIN PIPE (BELOW GRADE)										
			PVC Pipe										
715			4" Dia Water Main Pipe	LF	110	10%	121	0.333	$ 72.00	$ 23.98	$ 22.98	$ 46.96	$ 5,675.99
			WATER MAIN PIPE FITTINGS										
			ELBOW										
716			4" Dia Water Main Pipe 90 Deg Elbow	EA	1	0%	1	1.231	$ 72.00	$ 88.63	$ 474.53	$ 563.16	$ 563.16
717			4" Dia Water Main Pipe 45 Deg Elbow	EA	2	0%	2	1.231	$ 72.00	$ 88.63	$ 474.53	$ 563.16	$ 1,126.32
			FIRE WATER MAIN PIPE (BELOW GRADE)										
			PVC Pipe										
718			4" Dia Fire Water Main Pipe	LF	65	10%	72	0.333	$ 72.00	$ 23.98	$ 22.98	$ 46.96	$ 3,357.35
719			6" Dia Fire Water Main Pipe	LF	141	10%	155	0.410	$ 72.00	$ 29.52	$ 48.95	$ 78.47	$ 12,178.47
			FIRE WATER MAIN PIPE FITTINGS										
			ELBOW										
720			6" Dia Fire Water Main Pipe 90 Deg Elbow	EA	2	0%	2	2.000	$ 72.00	$ 144.00	$ 854.15	$ 998.15	$ 1,996.30
721			4" Dia Fire Main Pipe 45 Deg Elbow	EA	1	0%	1	1.231	$ 72.00	$ 88.63	$ 474.53	$ 563.16	$ 563.16
722			6" Dia Fire Main Pipe 45 Deg Elbow	EA	2	0%	2	2.000	$ 72.00	$ 144.00	$ 854.15	$ 998.15	$ 1,996.30
			TEE										
723			6" Dia Fire Water Main Pipe Tee	EA	1	0%	1	3.200	$ 72.00	$ 230.40	$ 1,098.90	$ 1,329.30	$ 1,329.30
			REDUCER										
724			8" / 6" Dia Fire Water Main Pipe Reducer	EA	1	0%	1	1.500	$ 72.00	$ 108.00	$ 1,648.35	$ 1,756.35	$ 1,756.35
			WASTE PIPE (BELOW GRADE)										
			PVC Pipe										
725			6" Dia Waste Pipe	LF	42	10%	46	0.410	$ 72.00	$ 29.52	$ 48.95	$ 78.47	$ 3,619.27
726			8" Dia Waste Pipe	LF	223	10%	246	0.500	$ 72.00	$ 36.00	$ 70.43	$ 106.43	$ 26,142.40
	C4, C5 & ES1		**WASTE PIPE FITTINGS**										
			ELBOW										
727			6" Dia Waste Pipe 90 Deg Elbow	EA	1	0%	1	2.000	$ 72.00	$ 144.00	$ 854.15	$ 998.15	$ 998.15
728			8" Dia Waste Pipe 90 Deg Elbow	EA	3	10%	3	2.667	$ 72.00	$ 192.02	$ 1,548.45	$ 1,740.47	$ 5,743.56
729			6" Dia Waste Pipe 45 Deg Elbow	EA	1	10%	1	2.000	$ 72.00	$ 144.00	$ 854.15	$ 998.15	$ 1,097.97
730			8" Dia Waste Pipe 45 Deg Elbow	EA	8	10%	9	2.667	$ 72.00	$ 192.02	$ 1,573.43	$ 1,765.45	$ 15,536.00
			WYE										
731			8" Dia Waste Pipe Wye	EA	6	0%	6	4.000	$ 72.00	$ 288.00	$ 3,596.40	$ 3,884.40	$ 23,306.40
732			8" / 6" Dia Waste Pipe Wye	EA	1	0%	1	3.200	$ 72.00	$ 230.40	$ 2,197.80	$ 2,428.20	$ 2,428.20
			MANHOLE										
733			18" Dia Junction Manhole	EA	1	0%	1	0.650	$ 72.00	$ 46.80	$ 225.00	$ 271.80	$ 271.80
734		**Detail Not Found**	Sampling Manhole #1	EA	1	0%	1	0.533	$ 72.00	$ 38.38	$ 420.00	$ 458.38	$ 458.38
			FIRE HYDRANT										
735			FH: 6" Dia Fire Hydrant	EA	2	0%	2	1.230	$ 72.00	$ 88.56	$ 725.00	$ 813.56	$ 1,627.12
			FIRE HYDRANT DETAIL										
736			2-1/2" Dia Hose Bib	EA	1	0%	1	0.890	$ 72.00	$ 64.08	$ 225.00	$ 289.08	$ 289.08
737			4-1/2" Dia Hose Bib	EA	1	0%	1	1.100	$ 72.00	$ 79.20	$ 325.00	$ 404.20	$ 404.20
738			6" Dia Gate Valve	EA	1	0%	1	1.450	$ 72.00	$ 104.40	$ 1,302.00	$ 1,406.40	$ 1,406.40
			MISCELLANEOUS										
739			1" Dia Portable Water Meter	EA	1	0%	1	0.550	$ 72.00	$ 39.60	$ 153.60	$ 193.20	$ 193.20
740			4" Dia Potable Water Meter	EA	1	0%	1	0.875	$ 72.00	$ 63.00	$ 496.00	$ 559.00	$ 559.00
741			6" Dia Fire Meter	EA	1	0%	1	1.000	$ 72.00	$ 72.00	$ 835.00	$ 907.00	$ 907.00
742			1" Dia Service Tap	EA	1	0%	1	0.220	$ 72.00	$ 15.84	$ 38.12	$ 53.96	$ 53.96
743			4" Dia Fire Department Connection W/ Knox Lockable Plugs	EA	1	0%	1	3.333	$ 72.00	$ 239.98	$ 233.00	$ 472.98	$ 472.98
			BACKFLOW PREVENTER										
744			1" Dia Reduced Pressure Backflow Preventer	EA	1	0%	1	1.100	$ 72.00	$ 79.20	$ 1,350.00	$ 1,429.20	$ 1,429.20
745			4" Dia Reduced Pressure Backflow Preventer	EA	1	0%	1	2.120	$ 72.00	$ 152.64	$ 3,638.00	$ 3,790.64	$ 3,790.64
			CLEANOUTS & DRAINS										
746			6" Dia CO: Cleanout	EA	1	0%	1	2.667	$ 72.00	$ 192.02	$ 629.37	$ 821.39	$ 821.39
747			8" Dia CO: Cleanout	EA	7	0%	7	4.000	$ 72.00	$ 288.00	$ 694.31	$ 982.31	$ 6,876.17
748			10" Dia CO: Cleanout	EA	8	0%	8	4.500	$ 72.00	$ 324.00	$ 825.00	$ 1,149.00	$ 9,192.00
			VALVES										
749			2" Dia Shutoff Valve	EA	1	0%	1	0.350	$ 72.00	$ 25.20	$ 65.00	$ 90.20	$ 90.20
750			3" Dia Shutoff Valve	EA	1	0%	1	0.425	$ 72.00	$ 30.60	$ 105.00	$ 135.60	$ 135.60
751			4" Dia Check Valve	EA	1	0%	1	0.550	$ 72.00	$ 39.60	$ 255.00	$ 294.60	$ 294.60
752			6" Dia Shutoff Valve	EA	1	0%	1	0.525	$ 72.00	$ 37.80	$ 185.00	$ 222.80	$ 222.80
753			6" Dual Check Valve	EA	1	0%	1	2.890	$ 72.00	$ 208.08	$ 4,257.00	$ 4,465.08	$ 4,465.08
			PVC COUPLING										
754			4" Dia	EA	17	0%	17						
755			6" Dia	EA	18	0%	18						
756			8" Dia	EA	22	0%	22						
			DISTRIBUTION										
			CONDUIT										
757		With Pull String To Generator For	2" EMT Conduit	LF	142	10%	156	0.100	$ 72.00	$ 7.20	$ 8.90	$ 16.10	$ 2,519.07
757		**Length Assumed**	1" PVC SCH 40 Conduit With Pullstring	LF	70	10%	77	0.100	$ 72.00	$ 7.20	$ 8.90	$ 16.10	$ 1,239.70
758			3" PVC SCH 40 Conduit	LF	1176	10%	1294	0.145	$ 72.00	$ 10.44	$ 12.52	$ 22.96	$ 29,699.54
			CONDUCTOR										
759			#6 CU THHN/THWN	LF	142	10%	156	0.012	$ 72.00	$ 0.86	$ 1.03	$ 1.89	$ 296.34
760			#3/0 CU THHN/THWN	LF	569	10%	626	0.032	$ 72.00	$ 2.30	$ 5.28	$ 7.58	$ 4,746.49
761			#400 CU THHN/THWN	LF	4704	10%	5174	0.047	$ 72.00	$ 3.38	$ 11.98	$ 15.36	$ 79,495.43
			CIRCUIT BREAKER										
762			3P/200A Breaker	EA	1	0%	1	2.500	$ 72.00	$ 180.00	$ 4,669.95	$ 4,849.95	$ 4,849.95
			DEVICES										
763		Generator Manufacturer is CUMMINS	60KW, 208Y/120V Diesel Genset in WP Level 1 Sound Attenuated Enc	EA	1	0%	1	36.364	$ 72.00	$ 2,618.21	$ 47,050.00	$ 49,668.21	$ 49,668.21
764			24HR Sub Base Diesel Fuel Tank	EA	1	0%	1	4.250	$ 72.00	$ 306.00	$ 5,699.00	$ 6,005.00	$ 6,005.00
			POWER										
			CONDUIT										
765			3/4" EMT Conduit	LF	144	10%	158	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 1,031.75
766			1" EMT Conduit	LF	119	10%	131	0.070	$ 72.00	$ 5.04	$ 3.54	$ 8.58	$ 1,123.88
767			3/4" PVC SCH 40 Conduit	LF	624	10%	687	0.055	$ 72.00	$ 3.96	$ 2.20	$ 6.16	$ 4,231.14
768			1" PVC SCH 40 Conduit	LF	245	10%	270	0.064	$ 72.00	$ 4.61	$ 3.55	$ 8.16	$ 2,201.63
			CONDUCTOR										
769			#10 CU THHN/THWN	LF	2304	10%	2534	0.008	$ 72.00	$ 0.58	$ 0.40	$ 0.98	$ 2,473.51
770			#6 CU THHN/THWN	LF	1458	10%	1603	0.012	$ 72.00	$ 0.86	$ 1.03	$ 1.89	$ 3,036.93
			SITE LIGHTING										
			CONDUIT										

COST BIDDING
Mark of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
771			3/4" EMT Conduit	LF	154	10%	169	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 1,104.78
772			3/4" RGS Conduit	LF	195	10%	214	0.100	$ 72.00	$ 7.20	$ 4.15	$ 11.35	$ 2,433.70
773			1" PVC SCH 40 Conduit	LF	900	10%	990	0.064	$ 72.00	$ 4.61	$ 3.55	$ 8.16	$ 8,076.96
			CONDUCTOR										
774			#10 CU THHN/THWN	LF	1046	10%	1151	0.008	$ 72.00	$ 0.58	$ 0.40	$ 0.98	$ 1,122.90
775			#8 CU THHN/THWN	LF	2700	10%	2970	0.010	$ 72.00	$ 0.72	$ 0.66	$ 1.38	$ 4,098.87
			LIGHTING FIXTURES										
776			SA: DSX2 LED P3 40K T4M MVOLT With Houseside Shield, LITHO	EA	13	0%	13	0.890	$ 72.00	$ 64.08	$ 2,917.50	$ 2,981.58	$ 38,760.54
777			25' Straight, 5" Square, 0.120" Thickness Steel Pole, COPPER/STEEL	EA	13	0%	13	1.000	$ 72.00	$ 72.00	$ 1,600.00	$ 1,672.00	$ 21,736.00
778			12-5/16" Handhole	EA	13	0%	13	0.650	$ 72.00	$ 46.80	$ 235.00	$ 281.80	$ 3,663.40
779			L-Bent Galvanized Steel Anchor Bolts	EA	52	0%	52	0.200	$ 72.00	$ 14.40	$ 19.00	$ 33.40	$ 1,736.80
780			5/8" x 8' Ground Rod	EA	13	0%	13	0.250	$ 72.00	$ 18.00	$ 25.00	$ 43.00	$ 559.00
781			#6 CU Grounding Conductor	LF	130	10%	143	0.044	$ 72.00	$ 3.20	$ 1.60	$ 4.80	$ 685.94
			MISCELLANEOUS										
782			Junction Box	EA	4	0%	4	0.450	$ 72.00	$ 32.40	$ 65.23	$ 97.63	$ 390.52
			TRENCHING & BACKFILLING										
783			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	2650	0%	2650	0.080	$ 72.00	$ 5.76	$ -	$ 5.76	$ 15,264.00
												SUB TOTAL	**$ 446,880**

PROJECTED COST		**$6,892,988**
OVERHEAD AND PROFIT	**15%**	**$1,033,948**
INSURANCE	**3%**	**$206,790**
CONTINGENCY	**5%**	**$344,649**
TAX	**6.5%**	**$448,044**
SUGGESTED BID		**$8,926,420**

Notes:

1. Online sources are used for pricing.
2. Prices can vary depending upon field conditions.
3. As fire protection piping & sprinkler were not shown on plans so we take allowance as per architectural plans.
4. Plumbing pipes material was not shown on specifications so we assumed according to penetration schedule.

COST BIDDING
A Mark of Excellence

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	$ -	$ -	$ -		$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 142,000.00	$ 142,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 15,000.00	$ 15,000.00
4			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 20,000.00	$ 20,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 215,000.00	$ 215,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 46,000.00	$ 46,000.00
7			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
												SUB TOTAL	**$ 438,000**
FIRE SUPPRESSION (SEE NOTE NO 3)													
			ALLOWANCE										
8			Allowance For Complete Fire Protection Piping With Associate Fittings (81564 SF)	LS	1	0%	1	0.000	$ -	$79,932.72	$ 119,899.08	$ 199,831.80	$ 199,831.80
			FIRE PROTECTION PIPE (BELOW GRADE)										
			Schedule 10 Black Steel Pipe										
9			6" Dia Fire Protection Pipe	LF	12	10%	13	0.571	$ 70.00	$ 39.97	$ 118.88	$ 158.85	$ 2,096.82
			FIRE PROTECTION PIPE FITTINGS										
			ELBOW										
10			6" Dia Fire Protection Pipe 90 Deg Elbow	EA	1	0%	1	0.960	$ 70.00	$ 67.20	$ 389.61	$ 456.81	$ 456.81
			DRAIN PIPE (ABOVE GRADE)										
		Assumed	**Type "L" Copper Pipe With Soldered Joints**										
11			2" Dia Drain Pipe	LF	6	10%	7	0.190	$ 70.00	$ 13.30	$ 17.88	$ 31.18	$ 205.79
			DRAIN PIPE FITTINGS										
			ELBOW										
12			2" Dia Drain Pipe 90 Deg Elbow	EA	1	0%	1	0.727	$ 70.00	$ 50.89	$ 21.48	$ 72.37	$ 72.37
13	**FP100 & FP101**		2" Dia Drain Pipe 45 Deg Elbow	EA	1	0%	1	0.727	$ 70.00	$ 50.89	$ 23.48	$ 74.37	$ 74.37
			FIRE PUMP										
14		**As Required**	Fire Booster Pump	EA	1	0%	1	5.220	$ 70.00	$ 365.40	$ 4,456.62	$ 4,822.02	$ 4,822.02
			SPRINKLER RISER DETAILS										
15			Pressure Gauge, AMETEK; U.S. Gauge Division, 0 to 250 PSIG Minim	EA	2	0%	2	0.320	$ 70.00	$ 22.40	$ 45.00	$ 67.40	$ 134.80
16			Spare Head Box W/ Heads & Wrench	EA	1	0%	1	0.250	$ 70.00	$ 17.50	$ 28.00	$ 45.50	$ 45.50
17			2" Dia Fire Department Connection (FDC), Flush Mounted Chrome Fin	EA	1	0%	1	3.333	$ 70.00	$ 233.31	$ 785.00	$ 1,018.31	$ 1,018.31
18			2" Dia Butterfly Valve, FIVALCO INC., Bronze	EA	1	0%	1	1.000	$ 70.00	$ 70.00	$ 365.00	$ 435.00	$ 435.00
19			2" Dia Check Valve, FIVALCO INC., Bronze	EA	2	0%	2	0.750	$ 70.00	$ 52.50	$ 302.00	$ 354.50	$ 709.00
20			2" Dia Automatic Drip Valve, NIBCO INC. End Connections: Threaded	EA	1	0%	1	0.850	$ 70.00	$ 59.50	$ 135.00	$ 194.50	$ 194.50
21			2" Dia Main Drain Valve, NIBCO INC.	EA	1	0%	1	0.980	$ 70.00	$ 68.60	$ 658.00	$ 726.60	$ 726.60
22			6" Dia Flange, Cast-Iron Flanges And Class 150, Bronze Flat-Face Flan	EA	1	0%	1	0.250	$ 70.00	$ 17.50	$ 85.00	$ 102.50	$ 102.50
			MISCELLANEOUS										
			TRENCHING & BACKFILLING:										
23			Excavation & Backfilling (3' Deep x 1'Wide Trench) Including All Labor and Material/Equipment	CFT	36	0%	36	0.085	$ 70.00	$ 5.95	$ -	$ 5.95	$ 214.20
												SUB TOTAL	**$ 211,140**
PLUMBING (SEE NOTE NO 4)													
			COLD WATER PIPE (BELOW GRADE)										
		Assumed	**Copper Pipe**										
24			3" Dia Cold Water Pipe	LF	6	10%	7	0.286	$ 70.00	$ 20.02	$ 35.46	$ 55.48	$ 366.17
			COLD WATER PIPE FITTINGS										
			ELBOW										
25			3" Dia Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	1.455	$ 70.00	$ 101.85	$ 61.44	$ 163.29	$ 163.29
			COLD WATER PIPE (ABOVE GRADE)										
		Assumed	**Type "L" Copper Pipe**										
26			1/2" Dia Cold Water Pipe	LF	3653	10%	4018	0.099	$ 70.00	$ 6.93	$ 3.56	$ 10.49	$ 42,151.97
27			3/4" Dia Cold Water Pipe	LF	2736	10%	3010	0.105	$ 70.00	$ 7.35	$ 5.00	$ 12.35	$ 37,168.56
28			1" Dia Cold Water Pipe	LF	1018	10%	1120	0.118	$ 70.00	$ 8.26	$ 6.84	$ 15.10	$ 16,908.98
29			1-1/4" Dia Cold Water Pipe	LF	447	10%	492	0.138	$ 70.00	$ 9.66	$ 9.14	$ 18.80	$ 9,243.96
30			1-1/2" Dia Cold Water Pipe	LF	12	10%	13	0.154	$ 70.00	$ 10.78	$ 11.39	$ 22.17	$ 292.64
31			3" Dia Cold Water Pipe	LF	291	10%	320	0.286	$ 70.00	$ 20.02	$ 35.46	$ 55.48	$ 17,759.15
			Schedule 40 Steel Pipe										
32			1/2" Dia Cold Water Pipe	LF	10	10%	11	0.105	$ 70.00	$ 7.35	$ 9.86	$ 17.21	$ 189.31
33			3/4" Dia Cold Water Pipe	LF	7	10%	8	0.113	$ 70.00	$ 7.91	$ 11.69	$ 19.60	$ 150.92
34			1" Dia Cold Water Pipe	LF	16	10%	18	0.127	$ 70.00	$ 8.89	$ 13.74	$ 22.63	$ 398.29
35			1-1/2" Dia Cold Water Pipe	LF	43	10%	47	0.157	$ 70.00	$ 10.99	$ 20.98	$ 31.97	$ 1,512.18
			1" Thick Flexible Elastomeric Insulation										
36			1/2" Dia Cold Water Pipe	LF	3653	10%	4018	0.067	$ 70.00	$ 4.69	$ 2.47	$ 7.16	$ 28,771.03
37			3/4" Dia Cold Water Pipe	LF	2736	10%	3010	0.070	$ 70.00	$ 4.90	$ 2.72	$ 7.62	$ 22,933.15
38			1" Dia Cold Water Pipe	LF	1018	10%	1120	0.073	$ 70.00	$ 5.11	$ 2.85	$ 7.96	$ 8,913.61
39			1-1/4" Dia Cold Water Pipe	LF	447	10%	492	0.073	$ 70.00	$ 5.11	$ 3.15	$ 8.26	$ 4,061.44
40			1-1/2" Dia Cold Water Pipe	LF	12	10%	13	0.073	$ 70.00	$ 5.11	$ 3.39	$ 8.50	$ 112.20
41			3" Dia Cold Water Pipe	LF	291	10%	320	0.089	$ 70.00	$ 6.23	$ 4.40	$ 10.63	$ 3,402.66
		Assumed	**1" Thick Flexible Elastomeric Insulation**										
42			1/2" Dia Cold Water Pipe	LF	10	10%	11	0.067	$ 70.00	$ 4.69	$ 2.47	$ 7.16	$ 78.76
43			3/4" Dia Cold Water Pipe	LF	7	10%	8	0.070	$ 70.00	$ 4.90	$ 2.72	$ 7.62	$ 58.67
44			1" Dia Cold Water Pipe	LF	16	10%	18	0.073	$ 70.00	$ 5.11	$ 2.85	$ 7.96	$ 140.10
45			1-1/2" Dia Cold Water Pipe	LF	43	10%	47	0.073	$ 70.00	$ 5.11	$ 3.39	$ 8.50	$ 402.05
			COLD WATER PIPE FITTINGS										
			ELBOW										
46			1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	807	0%	807	0.400	$ 70.00	$ 28.00	$ 1.21	$ 29.21	$ 23,572.47
47			3/4" Dia Cold Water Pipe 90 Deg Elbow	EA	151	0%	151	0.421	$ 70.00	$ 29.47	$ 2.62	$ 32.09	$ 4,845.59
48			1" Dia Cold Water Pipe 90 Deg Elbow	EA	11	0%	11	0.500	$ 70.00	$ 35.00	$ 5.94	$ 40.94	$ 450.34
49			1-1/4" Dia Cold Water Pipe 90 Deg Elbow	EA	27	0%	27	0.533	$ 70.00	$ 37.31	$ 8.29	$ 45.60	$ 1,231.20
50			1-1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	5	0%	5	0.615	$ 70.00	$ 43.05	$ 14.24	$ 57.29	$ 286.45
51			3" Dia Cold Water Pipe 90 Deg Elbow	EA	5	0%	5	1.455	$ 70.00	$ 101.85	$ 61.44	$ 163.29	$ 816.45
			TEE										
52			1/2" Dia Cold Water Pipe Tee	EA	5	0%	5	0.615	$ 70.00	$ 43.05	$ 1.89	$ 44.94	$ 224.70
53			3/4" Dia Cold Water Pipe Tee	EA	113	0%	113	0.667	$ 70.00	$ 46.69	$ 4.52	$ 51.21	$ 5,786.73
54			1" Dia Cold Water Pipe Tee	EA	8	0%	8	0.800	$ 70.00	$ 56.00	$ 13.64	$ 69.64	$ 557.12
55			3" Dia Cold Water Pipe Tee	EA	5	0%	5	2.286	$ 70.00	$ 160.02	$ 127.87	$ 287.89	$ 1,439.45
56			3/4" / 1/2" Dia Cold Water Pipe Tee	EA	114	0%	114	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 5,313.54
57			1" / 1/2" Dia Cold Water Pipe Tee	EA	1	0%	1	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 46.61
58			1" / 3/4" Dia Cold Water Pipe Tee	EA	75	0%	75	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 3,789.00
59			1-1/4" / 3/4" Dia Cold Water Pipe Tee	EA	26	0%	26	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 1,313.52
60			1-1/2" / 1/2" Dia Cold Water Pipe Tee	EA	4	0%	4	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 186.44
61			3" / 1/2" Dia Cold Water Pipe Tee	EA	2	0%	2	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 93.22
62			3" / 3/4" Dia Cold Water Pipe Tee	EA	2	0%	2	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 101.04
63			3" / 1" Dia Cold Water Pipe Tee	EA	4	0%	4	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 237.12
64			3" / 1-1/4" Dia Cold Water Pipe Tee	EA	28	0%	28	0.800	$ 70.00	$ 56.00	$ 13.09	$ 69.09	$ 1,934.52
			REDUCER										
65			3/4" / 1/2" Dia Cold Water Pipe Reducer	EA	223	0%	223	0.348	$ 70.00	$ 24.36	$ 1.36	$ 25.72	$ 5,735.56
66			1" / 3/4" Dia Cold Water Pipe Reducer	EA	3	0%	3	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 85.35
67			1-1/4" / 3/4" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 28.45
68			1-1/4" / 1" Dia Cold Water Pipe Reducer	EA	25	0%	25	0.410	$ 70.00	$ 28.70	$ 3.29	$ 31.99	$ 799.75
69			1-1/2" / 3/4" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 28.45
70			1-1/2" / 1" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.410	$ 70.00	$ 28.70	$ 3.29	$ 31.99	$ 31.99
71			3" / 1-1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 43.19
			HOT WATER PIPE (ABOVE GRADE)										
		Assumed	**Type "L" Copper Pipe**										
72			1/2" Dia Hot Water Pipe	LF	2425	10%	2668	0.099	$ 70.00	$ 6.93	$ 3.56	$ 10.49	$ 27,982.08
73			3/4" Dia Hot Water Pipe	LF	2922	10%	3214	0.105	$ 70.00	$ 7.35	$ 5.00	$ 12.35	$ 39,695.37
74			1" Dia Hot Water Pipe	LF	1006	10%	1107	0.118	$ 70.00	$ 8.26	$ 6.84	$ 15.10	$ 16,709.66
75			1-1/4" Dia Hot Water Pipe	LF	186	10%	205	0.138	$ 70.00	$ 9.66	$ 9.14	$ 18.80	$ 3,846.48
76			1-1/2" Dia Hot Water Pipe	LF	84	10%	92	0.154	$ 70.00	$ 10.78	$ 11.39	$ 22.17	$ 2,048.51

COSTBLOG
Network of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
77			2" Dia Hot Water Pipe	LF	68	10%	75	0.190	$ 70.00	$ 13.30	$ 17.88	$ 31.18	$ 2,332.26
78			2-1/2" Dia Hot Water Pipe	LF	79	10%	87	0.258	$ 70.00	$ 18.06	$ 25.47	$ 43.53	$ 3,782.76
			1" Thick Flexible Elastomeric Insulation										
79			1/2" Dia Hot Water Pipe	LF	2425	10%	2668	0.067	$ 70.00	$ 4.69	$ 2.47	$ 7.16	$ 19,099.30
80			3/4" Dia Hot Water Pipe	LF	2922	10%	3214	0.070	$ 70.00	$ 4.90	$ 2.72	$ 7.62	$ 24,492.20
81			1" Dia Hot Water Pipe	LF	1006	10%	1107	0.073	$ 70.00	$ 5.11	$ 2.85	$ 7.96	$ 8,808.54
82			1-1/4" Dia Hot Water Pipe	LF	186	10%	205	0.073	$ 70.00	$ 5.11	$ 3.15	$ 8.26	$ 1,690.00
83			1-1/2" Dia Hot Water Pipe	LF	84	10%	92	0.073	$ 70.00	$ 5.11	$ 3.39	$ 8.50	$ 785.40
84			2" Dia Hot Water Pipe	LF	68	10%	75	0.080	$ 70.00	$ 5.60	$ 3.64	$ 9.24	$ 691.15
85			2-1/2" Dia Hot Water Pipe	LF	79	10%	87	0.084	$ 70.00	$ 5.88	$ 4.10	$ 9.98	$ 867.26
			HOT WATER PIPE FITTINGS										
			ELBOW										
86			1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	576	0%	576	0.400	$ 70.00	$ 28.00	$ 1.21	$ 29.21	$ 16,824.96
87			3/4" Dia Hot Water Pipe 90 Deg Elbow	EA	257	0%	257	0.421	$ 70.00	$ 29.47	$ 2.62	$ 32.09	$ 8,247.13
88			1" Dia Hot Water Pipe 90 Deg Elbow	EA	25	0%	25	0.500	$ 70.00	$ 35.00	$ 5.94	$ 40.94	$ 1,023.50
89			1-1/4" Dia Hot Water Pipe 90 Deg Elbow	EA	5	0%	5	0.533	$ 70.00	$ 37.31	$ 8.29	$ 45.60	$ 228.00
90			2-1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	3	0%	3	1.231	$ 70.00	$ 86.17	$ 44.96	$ 131.13	$ 393.39
			TEE										
91			1/2" Dia Hot Water Pipe Tee	EA	2	0%	2	0.615	$ 70.00	$ 43.05	$ 1.89	$ 44.94	$ 89.88
92			3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.667	$ 70.00	$ 46.69	$ 4.52	$ 51.21	$ 51.21
93			1" Dia Hot Water Pipe Tee	EA	1	0%	1	0.800	$ 70.00	$ 56.00	$ 13.64	$ 69.64	$ 69.64
94			1-1/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.889	$ 70.00	$ 62.23	$ 15.43	$ 77.66	$ 77.66
95			3/4" / 1/2" Dia Hot Water Pipe Tee	EA	112	0%	112	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 5,220.32
96			1" / 3/4" Dia Hot Water Pipe Tee	EA	100	0%	100	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 5,052.00
97			1-1/4" / 1/2" Dia Hot Water Pipe Tee	EA	3	0%	3	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 139.83
98			1-1/4" / 3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 50.52
99			1-1/4" / 1" Dia Hot Water Pipe Tee	EA	3	0%	3	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 177.84
100			1-1/2" / 3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 50.52
101			1-1/2" / 1" Dia Hot Water Pipe Tee	EA	8	0%	8	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 474.24
102			2" / 1/2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 46.61
103			2" / 3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 50.52
104			2" / 1" Dia Hot Water Pipe Tee	EA	8	0%	8	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 474.24
105			2-1/2" / 3/4" Dia Hot Water Pipe Tee	EA	2	0%	2	0.667	$ 70.00	$ 46.69	$ 3.83	$ 50.52	$ 101.04
106			2-1/2" / 1" Dia Hot Water Pipe Tee	EA	6	0%	6	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 355.68
			REDUCER										
107			3/4" / 1/2" Dia Hot Water Pipe Reducer	EA	113	0%	113	0.348	$ 70.00	$ 24.36	$ 1.36	$ 25.72	$ 2,906.36
108			1" / 3/4" Dia Hot Water Pipe Reducer	EA	50	0%	50	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 1,422.50
109			1-1/4" / 3/4" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 28.45
110			1-1/4" / 1" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.410	$ 70.00	$ 28.70	$ 3.29	$ 31.99	$ 31.99
111			1-1/4" / 1-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 43.19
112			2" / 1-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 43.19
113			2" / 2-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.615	$ 70.00	$ 43.05	$ 28.97	$ 72.02	$ 72.02
			HOT WATER RETURN PIPE (ABOVE GRADE)										
		Assumed	**Type "L" Copper Pipe**										
114			1/2" Dia Hot Water Return Pipe	LF	1316	10%	1448	0.099	$ 70.00	$ 6.93	$ 3.56	$ 10.49	$ 15,185.32
115			3/4" Hot Water Return Pipe	LF	31	10%	34	0.105	$ 70.00	$ 7.35	$ 5.00	$ 12.35	$ 421.14
116			1" Dia Hot Water Return Pipe	LF	256	10%	282	0.118	$ 70.00	$ 8.26	$ 6.84	$ 15.10	$ 4,252.16
117			1-1/4" Dia Hot Water Return Pipe	LF	80	10%	88	0.138	$ 70.00	$ 9.66	$ 9.14	$ 18.80	$ 1,654.40
			1" Thick Flexible Elastomeric Insulation										
118			1/2" Dia Hot Water Return Pipe	LF	1316	10%	1448	0.067	$ 70.00	$ 4.69	$ 2.47	$ 7.16	$ 10,364.82
119			3/4" Hot Water Return Pipe	LF	31	10%	34	0.070	$ 70.00	$ 4.90	$ 2.72	$ 7.62	$ 259.84
120			1" Dia Hot Water Return Pipe	LF	256	10%	282	0.073	$ 70.00	$ 5.11	$ 2.85	$ 7.96	$ 2,241.54
121			1-1/4" Dia Hot Water Return Pipe	LF	80	10%	88	0.076	$ 70.00	$ 5.32	$ 3.15	$ 8.47	$ 745.36
			HOT WATER RETURN PIPE FITTINGS										
			ELBOW										
122			1/2" Dia Hot Water Return Pipe 90 Deg Elbow	EA	25	0%	25	0.400	$ 70.00	$ 28.00	$ 1.21	$ 29.21	$ 730.25
123			1" Dia Hot Water Return Pipe 90 Deg Elbow	EA	2	0%	2	0.500	$ 70.00	$ 35.00	$ 5.94	$ 40.94	$ 81.88
124			1-1/4" Dia Hot Water Return Pipe 90 Deg Elbow	EA	3	0%	3	0.533	$ 70.00	$ 37.31	$ 8.29	$ 45.60	$ 136.80
			TEE										
125			1/2" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.615	$ 70.00	$ 43.05	$ 1.89	$ 44.94	$ 44.94
126			3/4" / 1/2" Dia Hot Water Return Pipe Tee	EA	29	0%	29	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 1,351.69
127			1" / 1/2" Dia Hot Water Return Pipe Tee	EA	14	0%	14	0.571	$ 70.00	$ 39.97	$ 6.64	$ 46.61	$ 652.54
128			1-1/4" / 1" Dia Hot Water Return Pipe Tee	EA	6	0%	6	0.727	$ 70.00	$ 50.89	$ 8.39	$ 59.28	$ 355.68
			REDUCER										
129			3/4" / 1/2" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.348	$ 70.00	$ 24.36	$ 1.36	$ 25.72	$ 25.72
130			1" / 3/4" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.372	$ 70.00	$ 26.04	$ 2.41	$ 28.45	$ 28.45
131			1-1/4" / 1" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.410	$ 70.00	$ 28.70	$ 3.29	$ 31.99	$ 31.99
			WASTE PIPE (BELOW GRADE)										
			Service Class Cast Iron No-Hub Pipe										
132			3" Dia Waste Pipe	LF	219	10%	241	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 9,269.83
133			4" Dia Waste Pipe	LF	467	10%	514	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 23,779.17
134			6" Dia Waste Pipe	LF	249	10%	274	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 17,458.39
			WASTE PIPE FITTINGS										
			ELBOW										
135			2" Dia Waste Pipe 90 Deg Elbow	EA	8	0%	8	1.000	$ 70.00	$ 70.00	$ 46.95	$ 116.95	$ 935.60
136			3" Dia Waste Pipe 90 Deg Elbow	EA	27	0%	27	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 3,765.15
137			4" Dia Waste Pipe 90 Deg Elbow	EA	49	0%	49	1.231	$ 70.00	$ 86.17	$ 93.41	$ 179.58	$ 8,799.42
138			6" Dia Waste Pipe 90 Deg Elbow	EA	1	0%	1	1.412	$ 70.00	$ 98.84	$ 161.84	$ 260.68	$ 260.68
139			3" Dia Waste Pipe 45 Deg Elbow	EA	27	0%	27	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 3,495.42
140			4" Dia Waste Pipe 45 Deg Elbow	EA	32	0%	32	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 5,091.20
141			6" Dia Waste Pipe 45 Deg Elbow	EA	3	0%	3	1.412	$ 70.00	$ 98.84	$ 122.88	$ 221.72	$ 665.16
			WYE										
142			3" Dia Waste Pipe Wye	EA	7	0%	7	1.778	$ 70.00	$ 124.46	$ 100.90	$ 225.36	$ 1,577.52
143			4" Dia Waste Pipe Wye	EA	11	0%	11	2.000	$ 70.00	$ 140.00	$ 122.88	$ 262.88	$ 2,891.68
144			6" Dia Waste Pipe Wye	EA	2	0%	2	2.182	$ 70.00	$ 152.74	$ 277.72	$ 430.46	$ 860.92
145			3" / 2" Dia Waste Pipe Wye	EA	5	0%	5	1.600	$ 70.00	$ 112.00	$ 86.41	$ 198.41	$ 992.05
146			4" / 3" Dia Waste Pipe Wye	EA	11	0%	11	1.778	$ 70.00	$ 124.46	$ 112.89	$ 237.35	$ 2,610.85
147			6" / 3" Dia Waste Pipe Wye	EA	8	0%	8	2.182	$ 70.00	$ 152.74	$ 225.77	$ 378.51	$ 3,028.08
148			6" / 4" Dia Waste Pipe Wye	EA	20	0%	20	2.400	$ 70.00	$ 168.00	$ 314.69	$ 482.69	$ 9,653.80
			REDUCER										
149			4" / 3" Dia Waste Pipe Reducer	EA	2	0%	2	1.143	$ 70.00	$ 80.01	$ 56.44	$ 136.45	$ 272.90
150			6" / 4" Dia Waste Pipe Reducer	EA	1	0%	1	1.280	$ 70.00	$ 89.60	$ 114.89	$ 204.49	$ 204.49
			WASTE PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
151			1-1/2" Dia Waste Pipe	LF	13	10%	14	0.225	$ 70.00	$ 15.75	$ 11.19	$ 26.94	$ 385.24
152			2" Dia Waste Pipe	LF	952	10%	1047	0.239	$ 70.00	$ 16.73	$ 11.74	$ 28.47	$ 29,813.78
153			3" Dia Waste Pipe	LF	2237	10%	2461	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 94,687.74
154			4" Dia Waste Pipe	LF	1581	10%	1739	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 80,502.94
155			6" Dia Waste Pipe	LF	8	10%	9	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 560.91
			WASTE PIPE FITTINGS										
			ELBOW										
156			2" Dia Waste Pipe 90 Deg Elbow	EA	333	0%	333	1.000	$ 70.00	$ 70.00	$ 46.95	$ 116.95	$ 38,944.35
157			3" Dia Waste Pipe 90 Deg Elbow	EA	355	0%	355	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 49,504.75
158			1-1/2" Dia Waste Pipe 45 Deg Elbow	EA	3	0%	3	0.889	$ 70.00	$ 62.23	$ 25.23	$ 87.46	$ 262.38
159			2" Dia Waste Pipe 45 Deg Elbow	EA	8	0%	8	1.000	$ 70.00	$ 70.00	$ 31.47	$ 101.47	$ 811.76
160			3" Dia Waste Pipe 45 Deg Elbow	EA	347	0%	347	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 44,922.62
161			4" Dia Waste Pipe 45 Deg Elbow	EA	26	0%	26	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 4,136.60
			WYE										
162			1-1/2" Dia Waste Pipe Wye	EA	1	0%	1	1.200	$ 70.00	$ 84.00	$ 45.00	$ 129.00	$ 129.00
163			2" Dia Waste Pipe Wye	EA	115	0%	115	1.600	$ 70.00	$ 112.00	$ 62.44	$ 174.44	$ 20,060.60
164			3" Dia Waste Pipe Wye	EA	230	0%	230	1.778	$ 70.00	$ 124.46	$ 100.90	$ 225.36	$ 51,832.80
165			4" Dia Waste Pipe Wye	EA	26	0%	26	2.000	$ 70.00	$ 140.00	$ 122.88	$ 262.88	$ 6,834.88
166			3" / 1-1/2" Dia Waste Pipe Wye	EA	3	0%	3	1.200	$ 70.00	$ 84.00	$ 65.23	$ 149.23	$ 447.69
167			4" / 2" Dia Waste Pipe Wye	EA	1	0%	1	1.778	$ 70.00	$ 124.46	$ 104.90	$ 229.36	$ 229.36
168			4" / 3" Dia Waste Pipe Wye	EA	139	0%	139	1.778	$ 70.00	$ 124.46	$ 112.89	$ 237.35	$ 32,991.65
			REDUCER										
169			2" / 1-1/2" Dia Waste Pipe Reducer	EA	5	0%	5	0.889	$ 70.00	$ 62.23	$ 30.15	$ 92.38	$ 461.90
170			3" / 2" Dia Waste Pipe Reducer	EA	223	0%	223	1.067	$ 70.00	$ 74.69	$ 43.46	$ 118.15	$ 26,347.45

COST BIDDING
Mark of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
171			4" / 3" Dia Waste Pipe Reducer	EA	1	0%	1	1.143	$ 70.00	$ 80.01	$ 56.44	$ 136.45	$ 136.45
			GREASE WASTE PIPE (BELOW GRADE)										
			Service Class Cast Iron No-Hub Pipe										
172			3" Dia Grease Waste Pipe	LF	58	10%	64	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 2,455.02
173			4" Dia Grease Waste Pipe	LF	134	10%	147	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 6,823.15
			GREASE WASTE PIPE FITTINGS										
			ELBOW										
174			3" Dia Grease Waste Pipe 90 Deg Elbow	EA	4	0%	4	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 557.80
175			3" Dia Grease Waste Pipe 45 Deg Elbow	EA	11	0%	11	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 1,424.06
176			4" Dia Grease Waste Pipe 45 Deg Elbow	EA	5	0%	5	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 795.50
			WYE										
177			3" Dia Grease Waste Pipe Wye	EA	3	0%	3	1.778	$ 70.00	$ 124.46	$ 100.90	$ 225.36	$ 676.08
178			4" Dia Grease Waste Pipe Wye	EA	1	0%	1	2.000	$ 70.00	$ 140.00	$ 122.88	$ 262.88	$ 262.88
179			3" / 2" Dia Grease Waste Pipe Wye	EA	2	0%	2	1.600	$ 70.00	$ 112.00	$ 86.41	$ 198.41	$ 396.82
			INDIRECT WASTE PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
180			1-1/2" Dia Indirect Drain Pipe	LF	14	10%	15	0.225	$ 70.00	$ 15.75	$ 11.19	$ 26.94	$ 414.88
			INDIRECT WASTE PIPE FITTINGS										
			ELBOW										
181			1-1/2" Dia Indirect Drain Pipe 90 Deg Elbow	EA	3	0%	3	0.889	$ 70.00	$ 62.23	$ 22.12	$ 84.35	$ 253.05
182			1-1/2" Dia Indirect Drain Pipe 45 Deg Elbow	EA	1	0%	1	0.889	$ 70.00	$ 62.23	$ 25.23	$ 87.46	$ 87.46
			WYE										
183			1-1/2" Dia Indirect Drain Pipe Wye	EA	1	0%	1	1.200	$ 70.00	$ 84.00	$ 45.00	$ 129.00	$ 129.00
			PUMPED DISCHARGE PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
184			1-1/2" Dia Pumped Discharge	LF	29	10%	32	0.225	$ 70.00	$ 15.75	$ 11.19	$ 26.94	$ 859.39
			PUMPED DISCHARGE PIPE FITTINGS										
			ELBOW										
185			1-1/2" Dia Pumped Discharge 90 Deg Elbow	EA	3	0%	3	0.889	$ 70.00	$ 62.23	$ 22.12	$ 84.35	$ 253.05
186			1-1/2" Dia Pumped Discharge 45 Deg Elbow	EA	1	0%	1	0.889	$ 70.00	$ 62.23	$ 25.23	$ 87.46	$ 87.46
			VENT PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
187			1-1/2" Dia Vent Pipe	LF	36	10%	40	0.225	$ 70.00	$ 15.75	$ 11.19	$ 26.94	$ 1,066.82
188			2" Dia Vent Pipe	LF	2358	10%	2594	0.239	$ 70.00	$ 16.73	$ 11.74	$ 28.47	$ 73,845.49
189			3" Dia Vent Pipe	LF	1563	10%	1719	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 66,158.66
			VENT PIPE FITTINGS										
			ELBOW										
190			2" Dia Vent Pipe 90 Deg Elbow	EA	245	0%	245	1.000	$ 70.00	$ 70.00	$ 46.95	$ 116.95	$ 28,652.75
			TEE										
191			2" Dia Vent Pipe Tee	EA	9	0%	9	1.600	$ 70.00	$ 112.00	$ 62.44	$ 174.44	$ 1,569.96
192			3" Dia Vent Pipe Tee	EA	1	0%	1	1.778	$ 70.00	$ 124.46	$ 100.90	$ 225.36	$ 225.36
193			2" / 1-1/2" Dia Vent Pipe Tee	EA	2	0%	2	1.450	$ 70.00	$ 101.50	$ 58.00	$ 159.50	$ 319.00
194			3" / 2" Dia Vent Pipe Tee	EA	115	0%	115	1.600	$ 70.00	$ 112.00	$ 86.41	$ 198.41	$ 22,817.15
			REDUCER										
195			2" / 1-1/2" Dia Vent Pipe Reducer	EA	4	0%	4	0.889	$ 70.00	$ 62.23	$ 30.15	$ 92.38	$ 369.52
			STORM DRAIN PIPE (BELOW GRADE)										
		Assumed	**Service Class Cast Iron No-Hub Pipe**										
196			3" Dia Storm Pipe	LF	37	10%	41	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 1,566.14
197			4" Dia Storm Pipe	LF	14	10%	15	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 712.87
198			6" Dia Storm Pipe	LF	270	10%	297	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 18,930.78
199			8" Dia Storm Pipe	LF	26	10%	29	0.464	$ 70.00	$ 32.48	$ 81.92	$ 114.40	$ 3,271.84
200			10" Dia Storm Pipe	LF	49	10%	54	0.525	$ 70.00	$ 36.75	$ 130.87	$ 167.62	$ 9,034.72
			STORM DRAIN PIPE FITTINGS										
			ELBOW										
201			3" Dia Storm Pipe 90 Deg Elbow	EA	2	0%	2	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 278.90
202			6" Dia Storm Pipe 90 Deg Elbow	EA	12	0%	12	1.412	$ 70.00	$ 98.84	$ 161.84	$ 260.68	$ 3,128.16
203	**P101, P102,**		10" Dia Storm Pipe 90 Deg Elbow	EA	1	0%	1	3.200	$ 70.00	$ 224.00	$ 714.29	$ 938.29	$ 938.29
204	**P103, P104,**		3" Dia Storm Pipe 45 Deg Elbow	EA	3	0%	3	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 388.38
205	**P105, P106,**		4" Dia Storm Pipe 45 Deg Elbow	EA	1	0%	1	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 159.10
206	**P201, P301,**		6" Dia Storm Pipe 45 Deg Elbow	EA	11	0%	11	1.412	$ 70.00	$ 98.84	$ 122.88	$ 221.72	$ 2,438.92
207	**P302, P402, &**		8" Dia Storm Pipe 45 Deg Elbow	EA	1	0%	1	2.909	$ 70.00	$ 203.63	$ 369.63	$ 573.26	$ 573.26
208	**P501**		10" Dia Storm Pipe 45 Deg Elbow	EA	1	0%	1	3.200	$ 70.00	$ 224.00	$ 529.47	$ 753.47	$ 753.47
			WYE										
209			6" Dia Storm Pipe Wye	EA	4	0%	4	2.182	$ 70.00	$ 152.74	$ 277.72	$ 430.46	$ 1,721.84
210			10" Dia Storm Pipe Wye	EA	1	0%	1	4.571	$ 70.00	$ 319.97	$ 1,348.65	$ 1,668.62	$ 1,668.62
211			4" / 3" Dia Storm Pipe Wye	EA	1	0%	1	1.778	$ 70.00	$ 124.46	$ 112.89	$ 237.35	$ 237.35
212			10" / 3" Dia Storm Pipe Wye	EA	1	0%	1	4.000	$ 70.00	$ 280.00	$ 1,010.00	$ 1,290.00	$ 1,290.00
213			10" / 6" Dia Storm Pipe Wye	EA	1	0%	1	4.000	$ 70.00	$ 280.00	$ 1,073.93	$ 1,353.93	$ 1,353.93
214			10" / 8" Dia Storm Pipe Wye	EA	1	0%	1	4.000	$ 70.00	$ 280.00	$ 1,150.00	$ 1,430.00	$ 1,430.00
			REDUCER										
215			4" / 3" Dia Storm Pipe Reducer	EA	1	0%	1	1.143	$ 70.00	$ 80.01	$ 56.44	$ 136.45	$ 136.45
216			8" / 6" Dia Storm Pipe Reducer	EA	1	0%	1	2.000	$ 70.00	$ 140.00	$ 195.80	$ 335.80	$ 335.80
			STORM DRAIN PIPE (ABOVE GRADE)										
		Assumed	**Cast Iron No-Hub Pipe**										
217			3" Dia Storm Pipe	LF	134	10%	147	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 5,671.95
218			4" Dia Storm Pipe	LF	57	10%	63	0.276	$ 70.00	$ 19.32	$ 26.97	$ 46.29	$ 2,902.38
219			6" Dia Storm Pipe	LF	320	10%	352	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 22,436.48
			STORM DRAIN PIPE FITTINGS										
			ELBOW										
220			3" Dia Storm Pipe 90 Deg Elbow	EA	4	0%	4	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 557.80
221			4" Dia Storm Pipe 90 Deg Elbow	EA	2	0%	2	1.231	$ 70.00	$ 86.17	$ 93.41	$ 179.58	$ 359.16
222			6" Dia Storm Pipe 90 Deg Elbow	EA	11	0%	11	1.412	$ 70.00	$ 98.84	$ 161.84	$ 260.68	$ 2,867.48
223			3" Dia Storm Pipe 45 Deg Elbow	EA	2	0%	2	1.143	$ 70.00	$ 80.01	$ 49.45	$ 129.46	$ 258.92
224			4" Dia Storm Pipe 45 Deg Elbow	EA	3	0%	3	1.231	$ 70.00	$ 86.17	$ 72.93	$ 159.10	$ 477.30
			WYE										
225			6" / 4" Dia Storm Pipe Wye	EA	1	0%	1	2.400	$ 70.00	$ 168.00	$ 314.69	$ 482.69	$ 482.69
			REDUCER										
226			6" / 4" Dia Storm Pipe Reducer	EA	1	0%	1	1.280	$ 70.00	$ 89.60	$ 114.89	$ 204.49	$ 204.49
			OVERFLOW DRAIN PIPE (ABOVE GRADE)										
			Cast Iron No-Hub Pipe										
227			3" Dia Overflow Roof Drain	LF	9	10%	10	0.250	$ 70.00	$ 17.50	$ 20.98	$ 38.48	$ 380.95
228			6" Dia Overflow Roof Drain	LF	77	10%	85	0.304	$ 70.00	$ 21.28	$ 42.46	$ 63.74	$ 5,398.78
			OVERFLOW DRAIN PIPE FITTINGS										
			ELBOW										
229			3" Dia Overflow Roof Drain 90 Deg Elbow	EA	2	0%	2	1.143	$ 70.00	$ 80.01	$ 59.44	$ 139.45	$ 278.90
230			6" Dia Overflow Roof Drain 90 Deg Elbow	EA	5	0%	5	1.412	$ 70.00	$ 98.84	$ 161.84	$ 260.68	$ 1,303.40
			CONDENSATE DRAIN PIPE (BELOW GRADE)										
			Type "L" Copper Pipe With Soldered Joints										
231			2" Dia Condensate Drain Pipe	LF	103	10%	113	0.190	$ 70.00	$ 13.30	$ 17.88	$ 31.18	$ 3,532.69
			CONDENSATE DRAIN PIPE FITTINGS										
			ELBOW										
232			2" Dia Condensate Drain Pipe 90 Deg Elbow	EA	13	0%	13	0.727	$ 70.00	$ 50.89	$ 21.48	$ 72.37	$ 940.81
			REDUCER										
233			2" / 1-1/2" Dia Condensate Drain Pipe Reducer	EA	14	0%	14	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 604.66
			CONDENSATE DRAIN PIPE (ABOVE GRADE)										
			Type "L" Copper Pipe With Soldered Joints										
234			1-1/2" Dia Condensate Drain Pipe	LF	1609	10%	1770	0.154	$ 70.00	$ 10.78	$ 11.39	$ 22.17	$ 39,238.68
			1" Thick Flexible Elastomeric Insulation										
235			1-1/2" Dia Condensate Drain Pipe	LF	1609	10%	1770	0.073	$ 70.00	$ 5.11	$ 3.39	$ 8.50	$ 15,044.15
			CONDENSATE DRAIN PIPE FITTINGS										
			ELBOW										
236			1-1/2" Dia Condensate Drain Pipe 90 Deg Elbow	EA	269	0%	269	0.615	$ 70.00	$ 43.05	$ 14.24	$ 57.29	$ 15,411.01
			REDUCER										
237			1-1/2" Dia Condensate Drain Pipe Tee	EA	144	0%	144	0.500	$ 70.00	$ 35.00	$ 8.19	$ 43.19	$ 6,219.36
			GAS PIPE (BELOW GRADE)										
			Schedule 40 Steel Pipe										

GET BIDDING
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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
238			2" Dia Gas Pipe	LF	7	10%	8	0.200	$ 70.00	$ 14.00	$ 25.97	$ 39.97	$ 307.77
			GAS PIPE FITTINGS										
			ELBOW										
239			2" Dia Gas Pipe 90 Deg Elbow	EA	2	0%	2	0.320	$ 70.00	$ 22.40	$ 73.93	$ 96.33	$ 192.66
			GAS PIPE (ABOVE GRADE)										
			Schedule 40 Steel Pipe										
240			3/4" Dia Gas Pipe	LF	256	10%	282	0.113	$ 70.00	$ 7.91	$ 11.69	$ 19.60	$ 5,519.36
241			1" Dia Gas Pipe	LF	51	10%	56	0.127	$ 70.00	$ 8.89	$ 13.74	$ 22.63	$ 1,269.54
242			1-1/4" Dia Gas Pipe	LF	139	10%	153	0.138	$ 70.00	$ 9.66	$ 17.98	$ 27.64	$ 4,226.16
243			1-1/2" Dia Gas Pipe	LF	31	10%	34	0.157	$ 70.00	$ 10.99	$ 20.98	$ 31.97	$ 1,090.18
244			2" Dia Gas Pipe	LF	39	10%	43	0.200	$ 70.00	$ 14.00	$ 25.97	$ 39.97	$ 1,714.71
			GAS PIPE FITTINGS										
			ELBOW										
245			3/4" Dia Gas Pipe 90 Deg Elbow	EA	7	0%	7	0.160	$ 70.00	$ 11.20	$ 137.89	$ 149.09	$ 1,043.63
246			1" Dia Gas Pipe 90 Deg Elbow	EA	4	0%	4	0.160	$ 70.00	$ 11.20	$ 73.93	$ 85.13	$ 340.52
247			1-1/4" Dia Gas Pipe 90 Deg Elbow	EA	4	0%	4	0.200	$ 70.00	$ 14.00	$ 73.93	$ 87.93	$ 351.72
248			1-1/2" Dia Gas Pipe 90 Deg Elbow	EA	2	0%	2	0.242	$ 70.00	$ 16.94	$ 73.93	$ 90.87	$ 181.74
249			2" Dia Gas Pipe 90 Deg Elbow	EA	2	0%	2	0.320	$ 70.00	$ 22.40	$ 73.93	$ 96.33	$ 192.66
			TEE										
250			1-1/4" Dia Gas Pipe Tee	EA	3	0%	3	0.296	$ 70.00	$ 20.72	$ 113.89	$ 134.61	$ 403.83
251			1-1/4" / 3/4" Dia Gas Pipe Tee	EA	1	0%	1	0.211	$ 70.00	$ 14.77	$ 147.85	$ 162.62	$ 162.62
252			1-1/2" / 1" Dia Gas Pipe Tee	EA	1	0%	1	0.242	$ 70.00	$ 16.94	$ 113.89	$ 130.83	$ 130.83
253			2" Dia Gas Pipe Tee	EA	1	0%	1	0.471	$ 70.00	$ 32.97	$ 113.89	$ 146.86	$ 146.86
			REDUCER										
254			1-1/4" / 3/4" Dia Gas Pipe Reducer	EA	1	0%	1	0.080	$ 70.00	$ 5.60	$ 42.46	$ 48.06	$ 48.06
255			1-1/4" / 1-1/2" Dia Gas Pipe Reducer	EA	1	0%	1	0.119	$ 70.00	$ 8.33	$ 59.44	$ 67.77	$ 67.77
256			1-1/2" / 1-1/4" Dia Gas Pipe Reducer	EA	1	0%	1	0.100	$ 70.00	$ 7.00	$ 54.45	$ 61.45	$ 61.45
257			2" / 1-1/2" Dia Gas Pipe Reducer	EA	2	0%	2	0.119	$ 70.00	$ 8.33	$ 59.44	$ 67.77	$ 135.54
			PLUMBING FIXTURES										
258			WC-1: Water Closet, KOHLER K3998-0 K4774-0, Type: Flush Tank, M	EA	105	0%	105	2.980	$ 70.00	$ 208.60	$ 456.00	$ 664.60	$ 69,783.00
259			WC-2: Water Closet, KOHLER K3999-0 K4774-0, Type: Flush Tank, M	EA	11	0%	11	2.980	$ 70.00	$ 208.60	$ 517.00	$ 725.60	$ 7,981.60
260			L-1: Lavatory, AMERICAN STANDARD 0496.221.020, Type: Single	EA	103	0%	103	2.230	$ 70.00	$ 156.10	$ 691.00	$ 847.10	$ 87,251.30
261			L-2: Lavatory, AMERICAN STANDARD 0496.221.020, Type: Single	EA	9	0%	9	2.230	$ 70.00	$ 156.10	$ 691.00	$ 847.10	$ 7,623.90
262			L-3: Lavatory, AMERICAN STANDARD 9960.001, Type: Single Com	EA	4	0%	4	2.230	$ 70.00	$ 156.10	$ 1,291.00	$ 1,447.10	$ 5,788.40
263			SH-1: Shower, MINCY MARBLE SP-3660-CD-IF, Faucet/Valve: AME	EA	95	0%	95	4.900	$ 70.00	$ 343.00	$ 2,787.60	$ 3,130.60	$ 297,407.00
264			SH-2: Shower, MINCY MARBLE SP-3162-C-SF, Material: ROLL IN	EA	2	0%	2	4.900	$ 70.00	$ 343.00	$ 2,398.50	$ 2,741.50	$ 5,483.00
265			UR: Urinal, KOHLER K-4904-ER-0, Type: Flush Valve, Material: VITR	EA	2	0%	2	1.900	$ 70.00	$ 133.00	$ 872.00	$ 1,005.00	$ 2,010.00
266			BT-1: Bathtub Shower, KOHLER K-716-0(R) K-715-0(L), Type: PREF	EA	8	0%	8	3.890	$ 70.00	$ 272.30	$ 1,340.00	$ 1,612.30	$ 12,898.40
267			BT-2: Bathtub Shower, KOHLER K-716-0(R) K-715-0(L), Type: PREF	EA	5	0%	5	3.890	$ 70.00	$ 272.30	$ 1,340.00	$ 1,612.30	$ 8,061.50
268			S-1: Sink, ELKAY LRAD2521 X 5-1/2", Type: Single Comp, Material:	EA	1	0%	1	2.250	$ 70.00	$ 157.50	$ 1,305.00	$ 1,462.50	$ 1,462.50
269			SS-1: Service Sink, FIAT MSB 2424-10, Type: Single Comp, Style: 24"	EA	2	0%	2	2.560	$ 70.00	$ 179.20	$ 617.00	$ 796.20	$ 1,592.40
270			EEW: Eye Wash, GUARDIAN G-1814, Type: Stainless Steel Bowl, Mo	EA	1	0%	1	2.120	$ 70.00	$ 148.40	$ 1,740.00	$ 1,888.40	$ 1,888.40
271			3" Dia FS: Floor Sink, J.R. SMITH 3150 WITH HALF GRATE, Type:	EA	1	0%	1	0.980	$ 70.00	$ 68.60	$ 815.00	$ 883.60	$ 883.60
272			WB: Washer Wall Box, SPECIALITY PRODUCTS 0B-351, Type: Bott	EA	2	0%	2	0.750	$ 70.00	$ 52.50	$ 113.00	$ 165.50	$ 331.00
273			3/4" Dia Roof Hydrant ZURN Z1388	EA	2	0%	2	1.000	$ 70.00	$ 70.00	$ 1,587.00	$ 1,657.00	$ 3,314.00
274			1/2" Dia FPHB: Hose Bibb, WOODFORD 25, Type: Freeze Proof, Mat	EA	3	0%	3	0.550	$ 70.00	$ 38.50	$ 175.00	$ 213.50	$ 640.50
275			3/4" Dia FPHB: Hose Bibb, WOODFORD 25, Type: Freeze Proof, Mat	EA	1	0%	1	0.520	$ 70.00	$ 36.40	$ 133.00	$ 169.40	$ 169.40
276			1-1/2" Dia FPHB: Hose Bibb, WOODFORD 25, Type: Freeze Proof, M	EA	1	0%	1	0.650	$ 70.00	$ 45.50	$ 200.00	$ 245.50	$ 245.50
277			3" Dia FPHB: Hose Bibb, WOODFORD 25, Type: Freeze Proof, Mater	EA	1	0%	1	0.750	$ 70.00	$ 52.50	$ 225.00	$ 277.50	$ 277.50
278			Dish Washer	EA	1	0%	1	2.100	$ 70.00	$ 147.00	$ 1,350.00	$ 1,497.00	$ 1,497.00
279			Hand Sink	EA	1	0%	1	1.950	$ 70.00	$ 136.50	$ 1,250.00	$ 1,386.50	$ 1,386.50
280			3- Comp Sink	EA	1	0%	1	3.120	$ 70.00	$ 218.40	$ 4,880.00	$ 5,098.40	$ 5,098.40
281		**Schedule Not Given**	Ice Machine 1. Contractor Shall Provide A Point Of Use Filtration By TRIPLE CLEAR FORCEFIELD .	EA	1	0%	1	2.890	$ 70.00	$ 202.30	$ 4,367.00	$ 4,569.30	$ 4,569.30
282			IMB: Ice Maker Box	EA	1	0%	1	0.560	$ 70.00	$ 39.20	$ 256.00	$ 295.20	$ 295.20
283			LT-1: Lint Screen	EA	1	0%	1	0.320	$ 70.00	$ 22.40	$ 75.00	$ 97.40	$ 97.40
284			Washer Dryer	EA	4	0%	4	2.750	$ 70.00	$ 192.50	$ 1,257.00	$ 1,449.50	$ 5,798.00
285			Dryer: 415MBH	EA	3	0%	3	1.450	$ 70.00	$ 101.50	$ 989.00	$ 1,090.50	$ 3,271.50
286			Pool / SPA Backwash Pit	EA	1	0%	1	8.560	$ 70.00	$ 599.20	$ 15,945.00	$ 16,544.20	$ 16,544.20
			GREASE INTERCEPTOR										
287			Grease Interceptor, 75 GPM Polyethylene, GB-75 4045-001-XXSCHIE	EA	1	0%	1	3.890	$ 70.00	$ 272.30	$ 4,047.00	$ 4,319.30	$ 4,319.30
			WATER HYDRATION STATION										
288			Hydration Station HAWS 20001. Contractor Shall Provide A Point Of U	EA	1	0%	1	3.120	$ 70.00	$ 218.40	$ 4,616.00	$ 4,834.40	$ 4,834.40
			WATER HEATER										
289			IWH: Instantaneous Water Heater, EEMAX EX3208, Glass Lined, Tan	EA	1	0%	1	1.100	$ 70.00	$ 77.00	$ 300.00	$ 377.00	$ 377.00
290			IN501, IntelliJ Tankless Water System	EA	3	0%	3	8.550	$ 70.00	$ 598.50	$ 33,598.00	$ 34,196.50	$ 102,589.50
			WATER HEATER DETAIL										
291			Expansion Tank	EA	2	0%	2	0.420	$ 70.00	$ 29.40	$ 89.00	$ 118.40	$ 236.80
292			Temperature Sensor	EA	1	0%	1	0.350	$ 70.00	$ 24.50	$ 125.00	$ 149.50	$ 149.50
293			1" Dia Isolation Valve, NIBCO INC., Type 2, Class 125, Bronze Angle	EA	3	0%	3	0.389	$ 70.00	$ 27.23	$ 75.00	$ 102.23	$ 306.69
294			1" Dia Water Hammer Arrestor	EA	1	0%	1	0.256	$ 70.00	$ 17.92	$ 76.00	$ 93.92	$ 93.92
294		**Both Re-Circulation Pump Comes In Detail Of Water Heater, By Mistake We Count Re-circulation Pump Separately**	1" Dia Recirculation Pump GRUNFOS UPS26-99	EA	1	0%	1	1.500	$ 70.00	$ 105.00	$ 885.00	$ 990.00	$ 990.00
295			1-1/4" Dia Recirculation Pump GRUNFOS UPS26-99	EA	1	0%	1	1.500	$ 70.00	$ 105.00	$ 885.00	$ 990.00	$ 990.00
296			1-1/4" Dia Isolation Valve, NIBCO INC., Type 2, Class 125, Bronze A	EA	5	0%	5	0.425	$ 70.00	$ 29.75	$ 78.00	$ 107.75	$ 538.75
297			1-1/4" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Hor	EA	1	0%	1	0.450	$ 70.00	$ 31.50	$ 125.00	$ 156.50	$ 156.50
298			1-1/4" Dia Pipe End Cap	EA	3	0%	3	0.200	$ 70.00	$ 14.00	$ 9.00	$ 23.00	$ 69.00
299			3" Dia Isolation Valve, NIBCO INC., Type 2, Class 125, Bronze Angle	EA	5	0%	5	1.230	$ 70.00	$ 86.10	$ 956.00	$ 1,042.10	$ 5,210.50
300			3" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Horizon	EA	3	0%	3	1.560	$ 70.00	$ 109.20	$ 665.00	$ 774.20	$ 2,322.60
301		**Size Assumed**	3/4" Dia Vacuum Relief Valve	EA	3	0%	3	0.220	$ 70.00	$ 15.40	$ 52.00	$ 67.40	$ 202.20
			RECIRCULATION PUMP DETAIL										
302			Thermometer	EA	2	0%	2	0.250	$ 70.00	$ 17.50	$ 54.00	$ 71.50	$ 143.00
303			1/2" Dia Pressure Gauge	EA	2	0%	2	0.320	$ 70.00	$ 22.40	$ 65.00	$ 87.40	$ 174.80
304			1/2" Dia Ball Valve, NIBCO INC. Bronze Body	EA	4	0%	4	0.289	$ 70.00	$ 20.23	$ 38.00	$ 58.23	$ 232.92
305			1" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Horizontal Lift Check Valves: Bronze Body With Non-metallic Disc And Bronze Seat.	EA	1	0%	1	0.400	$ 70.00	$ 28.00	$ 105.00	$ 133.00	$ 133.00
306		**Details Are As Per The Plan**	1" Dia Gate Valve	EA	1	0%	1	0.780	$ 70.00	$ 54.60	$ 302.00	$ 356.60	$ 356.60
307			1" Dia Globe Valve	EA	1	0%	1	0.980	$ 70.00	$ 68.60	$ 358.00	$ 426.60	$ 426.60
308			1" Dia Union	EA	2	0%	2	0.225	$ 70.00	$ 15.75	$ 12.50	$ 28.25	$ 56.50
309			1-1/4" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Hor	EA	1	0%	1	0.450	$ 70.00	$ 31.50	$ 125.00	$ 156.50	$ 156.50
310			1-1/4" Dia Gate Valve	EA	1	0%	1	0.780	$ 70.00	$ 54.60	$ 185.00	$ 239.60	$ 239.60
311			1-1/4" Dia Globe Valve	EA	1	0%	1	0.320	$ 70.00	$ 22.40	$ 55.00	$ 77.40	$ 77.40
312			1-1/4" Dia Union	EA	2	0%	2	0.256	$ 70.00	$ 17.92	$ 25.00	$ 42.92	$ 85.84
			PUMP										
313			Elevator Sump Pump, ZOELLER PUMP CO. MODEL 161, 115 Volt, 1/2 HP, 60HZ, Pump Capacity 100 GPM, 5ft Head.	EA	1	0%	1	3.230	$ 70.00	$ 226.10	$ 3,513.60	$ 3,739.70	$ 3,739.70
314			Domestic Booster Pump Shall Be Supplied By Contractor, Provide A Packaged Booster Pump System. "ITT, BELL & GOSSETT".	EA	1	0%	1	3.250	$ 70.00	$ 227.50	$ 3,042.00	$ 3,269.50	$ 3,269.50
315			Recirculation Pump GRUNFOS UPS26-99	EA	0	0%	0	1.000	$ 70.00	$ 70.00	$ 472.80	$ 542.80	$ -
			ELEVATOR SUM PUMP DETAIL										
316			1-1/2" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Hor	EA	1	0%	1	0.680	$ 70.00	$ 47.60	$ 135.00	$ 182.60	$ 182.60
317			1-1/2" Dia Gate Valve, NIBCO INC. Bronze Body	EA	1	0%	1	0.950	$ 70.00	$ 66.50	$ 285.00	$ 351.50	$ 351.50
318			1-1/2" Dia Union	EA	1	0%	1	0.285	$ 70.00	$ 19.95	$ 62.12	$ 82.07	$ 82.07
319			1-1/2" Dia Cleanout	EA	1	0%	1	0.650	$ 70.00	$ 45.50	$ 211.00	$ 256.50	$ 256.50
320			Stainless Steel Screen Grate Cover For Pit	EA	1	0%	1	0.750	$ 70.00	$ 52.50	$ 525.00	$ 577.50	$ 577.50

COST BIDDING
A Mark of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
321			ZOELLER "Oil Guard" System, 940-0006	EA	1	0%	1	1.900	$ 70.00	$ 133.00	$ 2,343.00	$ 2,476.00	$ 2,476.00
322			24"x24"x24" Sump Pump Pit, 24" Diameter, 36" Depth	EA	1	0%	1	0.250	$ 70.00	$ 17.50	$ 80.00	$ 97.50	$ 97.50
			MISCELLANEOUS										
323			3/4" Dia Gas Cock Manufactured By NIBCO	EA	2	0%	2	0.185	$ 70.00	$ 12.95	$ 20.00	$ 32.95	$ 65.90
324			1-1/4" Dia Gas Cock Manufactured By NIBCO	EA	3	0%	3	0.200	$ 70.00	$ 14.00	$ 28.00	$ 42.00	$ 126.00
325			3/4" Dia Water Hammer Arrester, SIOUX-CHIEF, Standard: ASSE 10	EA	220	0%	220	0.220	$ 70.00	$ 15.40	$ 30.00	$ 45.40	$ 9,988.00
326			1" Dia Pipe End Cap	EA	1	0%	1	0.200	$ 70.00	$ 14.00	$ 4.56	$ 18.56	$ 18.56
327			1-1/2" Dia Pipe End Cap	EA	1	0%	1	0.200	$ 70.00	$ 14.00	$ 7.50	$ 21.50	$ 21.50
328			2" Dia Gas Service & Regulator Assembly Supplied By Gas Provider. T	EA	1	0%	1	0.890	$ 70.00	$ 62.30	$ -	$ 62.30	$ 62.30
329			3" Dia Downspout Nozzle	EA	2	0%	2	0.350	$ 70.00	$ 24.50	$ 225.00	$ 249.50	$ 499.00
330			6" Dia Downspout Nozzle	EA	5	0%	5	0.550	$ 70.00	$ 38.50	$ 445.00	$ 483.50	$ 2,417.50
331			1-1/2" Dia Back Flow Preventer, AMES CO. Standard: ASSE 1013, Br	EA	1	0%	1	1.100	$ 70.00	$ 77.00	$ 1,450.00	$ 1,527.00	$ 1,527.00
332			3" Dia VTR: Vent Through Roof	EA	26	0%	26	0.650	$ 70.00	$ 45.50	$ 180.00	$ 225.50	$ 5,863.00
		dia 2way CO missi	**CLEANOUTS & DRAINS**										
333			3" Dia FD: Floor Drain, J.R. SMITH 2010, Type: Square Top, Material:	EA	19	0%	19	0.725	$ 70.00	$ 50.75	$ 320.00	$ 370.75	$ 7,044.25
334			4" Dia FD: Floor Drain, J.R. SMITH 2010, Type: Square Top, Material:	EA	1	0%	1	0.850	$ 70.00	$ 59.50	$ 460.00	$ 519.50	$ 519.50
335			3" Dia RD: Roof Drain, J.R. SMITH 1015-C-U, Type: Dome Top, Mate	EA	2	0%	2	0.890	$ 70.00	$ 62.30	$ 425.00	$ 487.30	$ 974.60
336			4" Dia RD: Roof Drain, J.R. SMITH 1015-C-U, Type: Dome Top, Mate	EA	2	0%	2	0.890	$ 70.00	$ 62.30	$ 486.00	$ 548.30	$ 1,096.60
337			6" Dia RD: Roof Drain, J.R. SMITH 1015-C-U, Type: Dome Top, Mate	EA	5	0%	5	0.890	$ 70.00	$ 62.30	$ 486.00	$ 548.30	$ 2,741.50
338			6" Dia FCO: Floor Clean-Out, J.R. SMITH 4040, Type: Square Top, M	EA	1	0%	1	0.650	$ 70.00	$ 45.50	$ 385.00	$ 430.50	$ 430.50
339			10" Dia FCO: Floor Clean-Out, J.R. SMITH 4040, Type: Square Top, M	EA	1	0%	1	0.850	$ 70.00	$ 59.50	$ 357.60	$ 417.10	$ 417.10
340			1-1/2" Dia WCO: Wall Clean-Out, J.R. SMITH 4472, Type: Round Cov	EA	13	0%	13	0.450	$ 70.00	$ 31.50	$ 65.00	$ 96.50	$ 1,254.50
341			4" Dia WCO: Wall Clean-Out, J.R. SMITH 4472, Type: Round Cover,	EA	26	0%	26	0.450	$ 70.00	$ 31.50	$ 75.00	$ 106.50	$ 2,769.00
342			3" Dia EORD, Emergency Overflow Roof Drain	EA	2	0%	2	0.650	$ 70.00	$ 45.50	$ 285.00	$ 330.50	$ 661.00
343			6" Dia EORD, Emergency Overflow Roof Drain	EA	5	0%	5	0.890	$ 70.00	$ 62.30	$ 508.00	$ 570.30	$ 2,851.50
344		**Schedule Not Given**	4" Dia 2 Way Cleanout	EA	3	0%	3	0.350	$ 70.00	$ 24.50	$ 80.00	$ 104.50	$ 313.50
345			6" Dia 2 Way Cleanout	EA	2	0%	2	0.650	$ 70.00	$ 45.50	$ 165.00	$ 210.50	$ 421.00
346			4" Dia Trench Drain, W/ lint Screen (7'-6" Length)	EA	1	0%	1	1.100	$ 70.00	$ 77.00	$ 355.20	$ 432.20	$ 432.20
347			10" Dia 2-Way Cleanout	EA	1	0%	1	1.100	$ 70.00	$ 77.00	$ 355.20	$ 432.20	$ 432.20
			VALVES										
348			1" Dia Provide Dual Check Valve Backflow Preventer, WATTS SERIE	EA	1	0%	1	0.689	$ 70.00	$ 48.23	$ 118.00	$ 166.23	$ 166.23
349			1/2" Dia Balancing Valve	EA	25	0%	25	0.750	$ 70.00	$ 52.50	$ 135.00	$ 187.50	$ 4,687.50
350			1/2" Dia Ball Valve, NIBCO INC. Bronze Body	EA	24	0%	24	0.300	$ 70.00	$ 21.00	$ 28.00	$ 49.00	$ 1,176.00
351			3/4" Dia Ball Valve, NIBCO INC. Bronze Body	EA	8	0%	8	0.320	$ 70.00	$ 22.40	$ 35.00	$ 57.40	$ 459.20
352			1" Dia Ball Valve, NIBCO INC. Bronze Body	EA	30	0%	30	0.356	$ 70.00	$ 24.92	$ 38.00	$ 62.92	$ 1,887.60
353			1-1/4" Dia Ball Valve, NIBCO INC. Bronze Body	EA	28	0%	28	0.400	$ 70.00	$ 28.00	$ 85.00	$ 113.00	$ 3,164.00
354			1-1/2" Dia Ball Valve, NIBCO INC. Bronze Body	EA	3	0%	3	0.520	$ 70.00	$ 36.40	$ 115.00	$ 151.40	$ 454.20
355			3" Dia Shut Off Valve, NIBCO INC. Bronze Body	EA	1	0%	1	0.450	$ 70.00	$ 31.50	$ 250.00	$ 281.50	$ 281.50
356			1-1/4" Dia Check Valve, NIBCO INC., Type 2, Class 150, Bronze, Hor	EA	25	0%	25	0.450	$ 70.00	$ 31.50	$ 125.00	$ 156.50	$ 3,912.50
			NO-HUB COUPLING										
357			1-1/2" Dia	EA	42	0%	42						
358			2" Dia	EA	1919	0%	1919						
359			3" Dia	EA	2936	0%	2936						
360			4" Dia	EA	678	0%	678						
361			6" Dia	EA	166	0%	166						
362			8" Dia	EA	4	0%	4						
363			10" Dia	EA	13	0%	13						
			PIPE SUPPORT										
364			1/2" Dia Adjustable Clevis Hanger	EA	1232	0%	1232						
365			3/4" Dia Adjustable Clevis Hanger	EA	991	0%	991						
366			1" Dia Adjustable Clevis Hanger	EA	388	0%	388						
367			1-1/4" Dia Adjustable Clevis Hanger	EA	118	0%	118						
368			1-1/2" Dia Adjustable Clevis Hanger	EA	306	0%	306						
369			2" Dia Adjustable Clevis Hanger	EA	336	0%	336						
370			2-1/2" Dia Adjustable Clevis Hanger	EA	7	0%	7						
371			3" Dia Adjustable Clevis Hanger	EA	422	0%	422						
372			4" Dia Adjustable Clevis Hanger	EA	170	0%	170						
373			6" Dia Adjustable Clevis Hanger	EA	32	0%	32						
374			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	3035	0%	3035	0.040	$ 70.00	$ 2.80	$ 10.07	$ 12.87	$ 39,060.45
375			1/2" Dia Threaded Rod (1 Ea. = 1 FT)	EA	935	0%	935	0.057	$ 70.00	$ 3.99	$ 19.41	$ 23.40	$ 21,879.00
376			5/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	32	0%	32	0.080	$ 70.00	$ 5.60	$ 10.42	$ 16.02	$ 512.64
			TRENCHING & BACKFILLING										
377			Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	4917	0%	4917	0.080	$ 70.00	$ 5.60	$ -	$ 5.60	$ 27,535.20
												SUB TO TAL	**$ 2,310,202**
			HVAC										
			FLEXIBLE DUCT										
378			4" Dia Flexible Duct	LF	984	10%	1082	0.045	$ 72.00	$ 3.24	$ 1.67	$ 4.91	$ 5,314.58
379			6" Dia Flexible Duct	LF	939	10%	1033	0.057	$ 72.00	$ 4.10	$ 2.66	$ 6.76	$ 6,986.54
380			8" Dia Flexible Duct	LF	113	10%	124	0.080	$ 72.00	$ 5.76	$ 3.60	$ 9.36	$ 1,163.45
381			10" Dia Flexible Duct	LF	160	10%	176	0.100	$ 72.00	$ 7.20	$ 5.10	$ 12.30	$ 2,164.80
			REFRIGERANT PIPE										
			Type "ACR" Wrought Copper Pipe With Wrought Copper Fittings & Brazed joints										
382		**Size Assumed**	3/8" Dia Refrigerant Liquid Pipe	LF	630	10%	693	0.095	$ 72.00	$ 6.84	$ 2.97	$ 9.81	$ 6,795.20
383			5/8" Dia Refrigerant Suction Pipe	LF	630	10%	693	0.100	$ 72.00	$ 7.20	$ 3.68	$ 10.88	$ 7,536.37
			1" Thick Flexible Elastomeric Pipe Insulation										
384			3/8" Dia Refrigerant Liquid Pipe	LF	630	10%	693	0.025	$ 72.00	$ 1.80	$ 2.96	$ 4.76	$ 3,297.16
385			5/8" Dia Refrigerant Suction Pipe	LF	630	10%	693	0.025	$ 72.00	$ 1.80	$ 3.02	$ 4.82	$ 3,338.72
			REFRIGERANT PIPE FITTINGS										
			ELBOW										
386			3/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow	EA	16	0%	16	0.410	$ 72.00	$ 29.52	$ 17.50	$ 47.02	$ 752.32
387			5/8" Dia Refrigerant Suction Pipe 90 Deg Elbow	EA	16	0%	16	0.421	$ 72.00	$ 30.31	$ 19.98	$ 50.29	$ 804.67
			CONDENSATE DRAIN PIPE										
			Type "L" Copper Pipe With Soldered Joints										
388		**Size Assumed**	3/4" Dia Condensate Drain	LF	168	10%	185	0.105	$ 72.00	$ 7.56	$ 5.40	$ 12.96	$ 2,398.57
			1" Thick Flexible Elastomeric Pipe Insulation										
389			3/4" Dia Condensate Drain	LF	168	10%	185	0.025	$ 72.00	$ 1.80	$ 3.12	$ 4.92	$ 910.57
			CONDENSATE DRAIN FITTINGS										
			ELBOW										
390			3/4" Dia Condensate Drain 90 Deg Elbow	EA	22	0%	22	0.421	$ 72.00	$ 30.31	$ 8.98	$ 39.29	$ 864.42
			AIR DEVICES										
391			A: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: LAY-IN,	EA	27	0%	27	0.620	$ 72.00	$ 44.64	$ 198.45	$ 243.09	$ 6,563.43
392		**The Qunatity Is As Per The Plan**	A: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: LAY-IN,	EA	8	0%	8	0.620	$ 72.00	$ 44.64	$ 206.85	$ 251.49	$ 2,011.92
393			A: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: LAY-IN,	EA	13	0%	13	0.620	$ 72.00	$ 44.64	$ 200.00	$ 244.64	$ 3,180.32
394			B: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: Surface,	EA	19	0%	19	0.620	$ 72.00	$ 44.64	$ 200.00	$ 244.64	$ 4,648.16
395			B: Supply, TITUS TDC, Module Size: 24"x24", Frame Type: Surface,	EA	2	0%	2	0.620	$ 72.00	$ 44.64	$ 198.45	$ 243.09	$ 486.18
396			C: Supply, TITUS 300RS, Frame Type: Surface, Damper: YES, Materi	EA	110	0%	110	0.550	$ 72.00	$ 39.60	$ 74.50	$ 114.10	$ 12,551.00
397			D: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 4'-4", Neck Size: 6" Dia Notes: 3. 6" Inlet - 1 Slots 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	2	0%	2	0.580	$ 72.00	$ 41.76	$ 212.75	$ 254.51	$ 509.02

COST BIDDING
Book of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
397			D: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 5'-2", Neck Size: 8" Dia Notes: 3. 6" Inlet - 1 Slots 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	4	0%	4	0.600	$ 72.00	$ 43.20	$ 219.50	$ 262.70	$ 1,050.80
398			D: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 5'-4", Neck Size: 8" Dia Notes: 3. 6" Inlet - 1 Slots 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	3	0%	3	0.600	$ 72.00	$ 43.20	$ 219.50	$ 262.70	$ 788.10
399			E: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 4'-4", Neck Size: 8" Dia Notes: 4. 8" Inlet - 1 Slot 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	2	0%	2	0.600	$ 72.00	$ 43.20	$ 219.50	$ 262.70	$ 525.40
400			F: Supply, TITUS TDBI-10, Frame Type: Surface, Damper: YES, Material: Aluminum, Face Size: 5'-4", Neck Size: 10" Dia Notes: 5. 10" Inlet - 2 Slots 1.5" Slot Width 6. Provide Remote Balancing Damper Equal To Potter Model RD-10R	EA	11	0%	11	0.600	$ 72.00	$ 43.20	$ 230.14	$ 273.34	$ 3,006.74
401			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 12"x12", Fr	EA	2	0%	2	0.600	$ 72.00	$ 43.20	$ 78.69	$ 121.89	$ 243.78
402			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 8"x8", Fram	EA	1	0%	1	0.580	$ 72.00	$ 41.76	$ 75.50	$ 117.26	$ 117.26
403			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 15"x15", Fr	EA	1	0%	1	0.620	$ 72.00	$ 44.64	$ 86.52	$ 131.16	$ 131.16
404			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 18"x18", Fr	EA	2	0%	2	0.620	$ 72.00	$ 44.64	$ 91.36	$ 136.00	$ 272.00
405			G: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 22"x22", Fr	EA	2	0%	2	0.650	$ 72.00	$ 46.80	$ 102.68	$ 149.48	$ 298.96
406			H: Return, TITUS PAR, Module Size: 24"x24", Neck Size: 22"x22", Fr	EA	1	0%	1	0.650	$ 72.00	$ 46.80	$ 102.68	$ 149.48	$ 149.48
407			J: Exhaust, AMERICAN ALDES CSR-R-II, Frame Type: Surface, Dam	EA	110	0%	110	0.650	$ 72.00	$ 46.80	$ 168.80	$ 215.60	$ 23,716.00
408			12"x12" Exhaust Louver W/ Bird Screen, Ruskin's, ELF375DX	EA	14	0%	14	0.625	$ 72.00	$ 45.00	$ 251.41	$ 296.41	$ 4,149.74
409			40"x28" Combustion Air Louver	EA	1	0%	1	0.850	$ 72.00	$ 61.20	$ 348.63	$ 409.83	$ 409.83
	M101, M102, M103, M104, M105, M106 & M108		**PACKAGED THRU WALL UNIT**										
410			PTAC-1: Packaged Terminal Air Conditioner, AMANA PTC073K, Sup	EA	110	0%	110	2.250	$ 72.00	$ 162.00	$ 1,243.00	$ 1,405.00	$ 154,550.00
			SPLIT SYSTEM HEAT PUMP UNIT										
411			AH-1/HP-1: TRANE GAM5B0B30, Total CFM: 1000, Min. OA CFM:	EA	1	0%	1	3.850	$ 72.00	$ 277.20	$ 3,898.40	$ 4,175.60	$ 4,175.60
412			AH-2/HP-2: TRANE GAM5B0A18, Total CFM: 600, Min. OA CFM: 5	EA	1	0%	1	3.725	$ 72.00	$ 268.20	$ 2,850.00	$ 3,118.20	$ 3,118.20
413			AH-3/HP-3: TRANE GAM5B0C42, Total CFM: 1400, Min. OA CFM:	EA	1	0%	1	3.885	$ 72.00	$ 279.72	$ 4,475.82	$ 4,755.54	$ 4,755.54
414			AH-4/HP-4: TRANE GAM5B0C60, Total CFM: 2000, Min. OA CFM:	EA	1	0%	1	4.125	$ 72.00	$ 297.00	$ 4,995.25	$ 5,292.25	$ 5,292.25
415			AH-5/HP-5: TRANE GAM5B0C48, Total CFM: 1600, Min. OA CFM:	EA	1	0%	1	4.000	$ 72.00	$ 288.00	$ 4,687.96	$ 4,975.96	$ 4,975.96
416			AH-6/HP-6: TRANE GAM5B0A24, Total CFM: 800, Min. OA CFM: 2	EA	1	0%	1	3.850	$ 72.00	$ 277.20	$ 3,344.55	$ 3,621.75	$ 3,621.75
417			AH-7/HP-7: TRANE GAM5B0C24, Total CFM: 1400, Min. OA CFM:	EA	1	0%	1	3.885	$ 72.00	$ 279.72	$ 4,475.82	$ 4,755.54	$ 4,755.54
			SPLIT SYSTEM HEAT PUMP UNIT DETAIL										
418		Size Assumed	14"x12" Flexible Duct Connection	EA	7	0%	7	0.355	$ 72.00	$ 25.56	$ 28.38	$ 53.94	$ 377.58
419			2" Dia P-Trap	EA	7	0%	7	0.450	$ 72.00	$ 32.40	$ 31.88	$ 64.28	$ 449.96
420			Volume Damper With Locking Quadrant	EA	7	0%	7	0.620	$ 72.00	$ 44.64	$ 144.64	$ 189.28	$ 1,324.96
			MINI SPLIT COOLING/HEAT PUMP UNIT										
421			AH-8/CU-8: Air Handling Unit, MITSUBISHI PKA-A12HA7, NOM. T	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 2,825.32	$ 3,049.96	$ 3,049.96
			ELECTRIC WALL HEATER										
422			EWH-1: Electrical Wall Heater, QMARK, No Of Heaters: 3, Electrical	EA	3	0%	3	1.450	$ 72.00	$ 104.40	$ 768.45	$ 872.85	$ 2,618.55
			MAKEUP AIR UNIT										
423			MAU-1: Make-up Air Unit, CAPTIVEAIRE CASRTU4-1300-24-40T-2	EA	1	0%	1	7.250	$ 72.00	$ 522.00	$ 23,200.00	$ 23,722.00	$ 23,722.00
424			MAU-2: Make-up Air Unit, CAPTIVEAIRE CASRTU4-1500-24-50T-2	EA	1	0%	1	8.500	$ 72.00	$ 612.00	$ 29,900.00	$ 30,512.00	$ 30,512.00
			MAKEUP AIR UNIT DETAIL										
425			2" Dia P-Trap With Cleanout	EA	1	0%	1	0.725	$ 72.00	$ 52.20	$ 89.67	$ 141.87	$ 141.87
426			6" Reinforced Concrete Pad	EA	1	0%	1	1.250	$ 72.00	$ 90.00	$ 378.52	$ 468.52	$ 468.52
427			VISB. ISOL. PAD	EA	1	0%	1	0.425	$ 72.00	$ 30.60	$ 68.44	$ 99.04	$ 99.04
			FAN										
428			EF-1: Exhaust Fan, GREENHECK MODEL SP-B110, CFM: 75, S.P.:	EA	2	0%	2	0.850	$ 72.00	$ 61.20	$ 185.00	$ 246.20	$ 492.40
429		The Qunatity Is As Per The Plan	EF-2: Exhaust Fan, GREENHECK MODEL SP-B110, CFM: 100, S.P.: 0.25, RPM: 1350, Type: Ceiling, MIN. Motor HP & Voltage: 173 WATTS 120/1ø, Drive: Direct, Control Scheme: A Notes: 1. Screen 2. Backdraft Damper 3. Speed Controller 4. Integral Disconnect Switch	EA	9	0%	9	0.850	$ 72.00	$ 61.20	$ 185.00	$ 246.20	$ 2,215.80
430			EF-3: Exhaust Fan, GREENHECK MODEL SP-B150, CFM: 175, S.P.	EA	2	0%	2	0.885	$ 72.00	$ 63.72	$ 205.00	$ 268.72	$ 537.44
431			EF-4: Exhaust Fan, GREENHECK MODEL SP-A250, CFM: 200, S.P.	EA	5	0%	5	0.965	$ 72.00	$ 69.48	$ 405.60	$ 475.08	$ 2,375.40
432			EF-5: Exhaust Fan, GREENHECK MODEL G-065-VG, CFM: 210, S.	EA	1	0%	1	1.120	$ 72.00	$ 80.64	$ 678.00	$ 758.64	$ 758.64
433			EF-6: Exhaust Fan, GREENHECK MODEL G-060-VG, CFM: 105, S.	EA	3	0%	3	1.120	$ 72.00	$ 80.64	$ 638.40	$ 719.04	$ 2,157.12
434			EF-7: Exhaust Fan, GREENHECK MODEL G-075-VG, CFM: 350, S.	EA	7	0%	7	1.255	$ 72.00	$ 90.36	$ 749.02	$ 839.38	$ 5,875.66
435			EF-8: Exhaust Fan, GREENHECK MODEL G-070-VG, CFM: 280, S.	EA	2	0%	2	1.255	$ 72.00	$ 90.36	$ 709.22	$ 799.58	$ 1,599.16
436			EF-9: Exhaust Fan, GREENHECK MODEL SP-B110, CFM: 100, SP.	EA	1	0%	1	1.255	$ 72.00	$ 90.36	$ 289.53	$ 379.89	$ 379.89
437			EF-10: Exhaust Fan, GREENHECK MODEL SP-B110, CFM: 150, SP	EA	1	0%	1	1.255	$ 72.00	$ 90.36	$ 298.53	$ 388.89	$ 388.89
			DAMPERS										
438			6" Dia Fire Smoke Damper	EA	112	0%	112	0.585	$ 72.00	$ 42.12	$ 168.16	$ 210.28	$ 23,551.36
439			18"x10" Fire Smoke Damper	EA	4	0%	4	0.625	$ 72.00	$ 45.00	$ 132.48	$ 177.48	$ 709.92
440			26"x8" Fire Smoke Damper	EA	4	0%	4	0.650	$ 72.00	$ 46.80	$ 153.70	$ 200.50	$ 802.00
441			26"x16" Fire Smoke Damper	EA	1	0%	1	0.655	$ 72.00	$ 47.16	$ 168.52	$ 215.68	$ 215.68
442			6" Dia Volume Damper	EA	21	0%	21	0.585	$ 72.00	$ 42.12	$ 84.57	$ 126.69	$ 2,660.49
443			8" Dia Volume Damper	EA	4	0%	4	0.600	$ 72.00	$ 43.20	$ 96.10	$ 139.30	$ 557.20
444			10" Dia Volume Damper	EA	2	0%	2	0.600	$ 72.00	$ 43.20	$ 102.91	$ 146.11	$ 292.22
445			40"x28" Motorized Damper	EA	1	0%	1	1.325	$ 72.00	$ 95.40	$ 997.61	$ 1,093.01	$ 1,093.01
			DUCT WEIGHT										
446			Galvanized Sheet Metal Duct	LB	12985	10%	14284	0.098	$ 72.00	$ 7.06	$ 0.98	$ 8.04	$ 114,782.21
			DUCT INSULATION										
447			1-1/2" Thick Mineral Fiber Blanket Insulation	SF	10952	10%	12047	0.012	$ 72.00	$ 0.86	$ 1.15	$ 2.01	$ 24,263.06
			MISCELLANEOUS										
448			6" Dia Circular Clamp	EA	8	0%	8	0.350	$ 72.00	$ 25.20	$ 50.99	$ 76.19	$ 609.52
449			8" Dia Circular Clamp	EA	4	0%	4	0.380	$ 72.00	$ 27.36	$ 62.25	$ 89.61	$ 358.44
450			10" Dia Circular Clamp	EA	2	0%	2	0.400	$ 72.00	$ 28.80	$ 59.60	$ 88.40	$ 176.80
451			Thermostat	EA	7	0%	7	0.685	$ 72.00	$ 49.32	$ 78.65	$ 127.97	$ 895.79
452			Duct Smoke Detector	EA	7	0%	7	0.850	$ 72.00	$ 61.20	$ 184.59	$ 245.79	$ 1,720.53
			PIPE SUPPORTS										
453			3/8" Dia Adjustable Clevis Hanger	EA	105	0%	105						
454			5/8" Dia Adjustable Clevis Hanger	EA	105	0%	105						
455			3/4" Dia Adjustable Clevis Hanger	EA	28	0%	28						
456			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	238	0%	238	0.150	$ 72.00	$ 10.80	$ 11.85	$ 22.65	$ 5,390.70
			DUCT SUPPORTS										
457			3/8" Threaded Rod	EA	2538	0%	2538	0.150	$ 72.00	$ 10.80	$ 11.85	$ 22.65	$ 57,485.70
458			1" x 22 Ga. Strap	EA	254	0%	254	0.068	$ 72.00	$ 4.90	$ 4.98	$ 9.88	$ 2,508.50
												SUB TOTAL	$ 609,999
			ELECTRICAL										
			DISTRIBUTION										
			CONDUIT										
459			1-1/4" EMT Conduit	LF	246	10%	271	0.080	$ 72.00	$ 5.76	$ 5.82	$ 11.58	$ 3,134.82
460			2" EMT Conduit	LF	1170	10%	1287	0.100	$ 72.00	$ 7.20	$ 8.90	$ 16.10	$ 20,714.68
			CONDUCTOR										
461			#8 CU THHN/THWN	LF	246	10%	271	0.010	$ 72.00	$ 0.72	$ 0.56	$ 1.28	$ 346.51
462			#6 CU THHN/THWN	LF	674	10%	742	0.012	$ 72.00	$ 0.86	$ 0.80	$ 1.66	$ 1,234.42
463			#2 CU THHN/THWN	LF	1480	10%	1628	0.180	$ 72.00	$ 12.96	$ 1.81	$ 14.77	$ 24,040.04

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
464			#3/0 CU THHN/THWN	LF	4679	10%	5147	0.032	$ 72.00	$ 2.30	$ 4.74	$ 7.04	$ 36,251.97
			LUGS										
465			Compression Lug CU With 1-Hole , #8 CU Wire	EA	4	0%	4	0.222	$ 72.00	$ 15.98	$ 2.52	$ 18.50	$ 74.02
466			Heat Shrink Tubing for #8 CU Wire	EA	4	0%	4	0.150	$ 72.00	$ 10.80	$ 1.78	$ 12.58	$ 50.32
467			Compression Lug CU With 1-Hole , #6 CU Wire	EA	32	0%	32	0.267	$ 72.00	$ 19.22	$ 2.93	$ 22.15	$ 708.93
468			Heat Shrink Tubing for #6 CU Wire	EA	32	0%	32	0.150	$ 72.00	$ 10.80	$ 2.22	$ 13.02	$ 416.64
469			Compression Lug CU With 1-Hole , #2 CU Wire	EA	42	0%	42	0.333	$ 72.00	$ 23.98	$ 4.85	$ 28.83	$ 1,210.69
470			Heat Shrink Tubing for #2 CU Wire	EA	42	0%	42	0.150	$ 72.00	$ 10.80	$ 2.59	$ 13.39	$ 562.38
471			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	232	0%	232	0.667	$ 72.00	$ 48.02	$ 9.93	$ 57.95	$ 13,445.33
472			Heat Shrink Tubing for #3/0 CU Wire	EA	232	0%	232	0.150	$ 72.00	$ 10.80	$ 3.12	$ 13.92	$ 3,229.44
			CIRCUIT BREAKER										
473			1P/20A Breaker	EA	816	0%	816	0.620	$ 72.00	$ 44.64	$ 62.53	$ 107.17	$ 87,450.72
474			1P/30A Breaker	EA	3	0%	3	0.620	$ 72.00	$ 44.64	$ 62.53	$ 107.17	$ 321.51
475			2P/15A Breaker	EA	4	0%	4	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 703.24
476			2P/20A Breaker	EA	123	0%	123	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 21,624.63
477			2P/30A Breaker	EA	9	0%	9	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 1,582.29
478			2P/50A Breaker	EA	2	0%	2	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 351.62
479			2P/60A Breaker	EA	7	0%	7	0.885	$ 72.00	$ 63.72	$ 112.09	$ 175.81	$ 1,230.67
480			3P/30A Breaker	EA	3	0%	3	1.125	$ 72.00	$ 81.00	$ 356.03	$ 437.03	$ 1,311.09
481			3P/60A Breaker	EA	2	0%	2	1.125	$ 72.00	$ 81.00	$ 356.03	$ 437.03	$ 874.06
482			3P/100A Breaker	EA	6	0%	6	1.550	$ 72.00	$ 111.60	$ 504.84	$ 616.44	$ 3,698.64
483			3P/100A MCB	EA	1	0%	1	1.580	$ 72.00	$ 113.76	$ 668.49	$ 782.25	$ 782.25
484			3P/200A Breaker	EA	14	0%	14	2.000	$ 72.00	$ 144.00	$ 1,194.35	$ 1,338.35	$ 18,736.90
485			3P/400A Breaker	EA	5	0%	5	3.120	$ 72.00	$ 224.64	$ 1,832.56	$ 2,057.20	$ 10,286.00
486			3P/3000A MCB	EA	1	0%	1	7.500	$ 72.00	$ 540.00	$ 27,500.00	$ 28,040.00	$ 28,040.00
			PANEL										
487		MSB has SPD is missing	Main Distribution Panel MSB: 3000A, 120/208V, 3Ph, 4W, Main: MCB, 65 KAIC, 66 Poles	EA	1	0%	1	18.000	$ 72.00	$ 1,296.00	$ 60,000.00	$ 61,296.00	$ 61,296.00
487			Surge Protection Device, Modular Type, Integrelly Mounted	EA	1	0%	1	18.000	$ 72.00	$ 1,296.00	$ 60,000.00	$ 61,296.00	$ 61,296.00
488			Panel 1A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
489			Panel 1B: 400A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles,	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
490			Panel 1C: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
491			Panel 1D: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
492			Panel 1E: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
493			Panel 2A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
494			Panel 2B: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
495			Panel 2C: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 52 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
496			Panel 2D: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
497			Panel 2E: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
498			Panel 3A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
499			Panel 3B: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
500			Panel 3C: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 52 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
501			Panel 3D: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
502			Panel 3E: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
503			Panel 4A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
504			Panel 4B: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
505			Panel 4C: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 52 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,560.00	$ 4,784.64	$ 4,784.64
506			Panel 4D: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
507			Panel 4E: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
508			Panel 5A: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
509			Panel 5B: 200A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
510			Panel 5C: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC,52 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
511			Panel 5D: 400A, 120/208V, 3Ph, 4W, Mains: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
512			Panel 5E: 400A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 42 Poles	EA	1	0%	1	3.120	$ 72.00	$ 224.64	$ 4,240.00	$ 4,464.64	$ 4,464.64
513			Panel EM: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
514			Panel K: 200A, 120/208V, 3Ph, 4W, Main: MLO, 65 KAIC, 42 Poles	EA	1	0%	1	2.450	$ 72.00	$ 176.40	$ 2,147.48	$ 2,323.88	$ 2,323.88
515			Panel PL: 100A, 120/208V, 3Ph, 4W, Main: MCB, 22 KAIC, 30 Poles	EA	1	0%	1	1.325	$ 72.00	$ 95.40	$ 1,877.56	$ 1,972.96	$ 1,972.96
516			Panel SL: 100A, 120/208V, 3Ph, 4W, Main: MLO, 22 KAIC, 30 Poles	EA	1	0%	1	1.325	$ 72.00	$ 95.40	$ 1,877.56	$ 1,972.96	$ 1,972.96
			DEVICES										
517			3000A Utility Meter	EA	1	0%	1	2.550	$ 72.00	$ 183.60	$ 1,744.32	$ 1,927.92	$ 1,927.92
518			4P/200A ATS	EA	1	0%	1	3.450	$ 72.00	$ 248.40	$ 3,443.00	$ 3,691.40	$ 3,691.40
		(Interior DS NEMA 1, Exterior DS NEMA 3R, Ratings are mentioned on Plan, Fusible disconnects are	**DISCONNECT SWITCH**										
520			1P/20A Signage Disconnect Switch, NEMA 3R	EA	3	0%	3	0.785	$ 72.00	$ 56.52	$ 187.36	$ 243.88	$ 731.64
521			1P/30A Disconnect Switch, NEMA 1	EA	2	0%	2	0.785	$ 72.00	$ 56.52	$ 187.36	$ 243.88	$ 487.76
522			2P/30AS/15AF Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	1.120	$ 72.00	$ 80.64	$ 240.23	$ 320.87	$ 641.74
523			2P/30AS/25AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	1.120	$ 72.00	$ 80.64	$ 212.42	$ 293.06	$ 293.06
524			2P/30AS/30AF Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	1.120	$ 72.00	$ 80.64	$ 240.23	$ 320.87	$ 641.74
525			2P/60AS/40AF Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	1.120	$ 72.00	$ 80.64	$ 212.42	$ 293.06	$ 586.12
524			2P/60AS/50AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	2.000	$ 72.00	$ 144.00	$ 318.13	$ 462.13	$ 462.13
525			2P/60AS/60AF Fused Disconnect Switch, NEMA 3R	EA	8	0%	8	2.000	$ 72.00	$ 144.00	$ 318.13	$ 462.13	$ 3,697.04
526		**Rating Assumed From Panel**	3P/60A Disconnect Switch, NEMA 1	EA	5	0%	5	2.000	$ 72.00	$ 144.00	$ 318.13	$ 462.13	$ 2,310.65
527			3P/100A Disconnect Switch, NEMA 1	EA	2	0%	2	2.000	$ 72.00	$ 144.00	$ 318.13	$ 462.13	$ 924.26
527			3P/200AS/200AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	2.500	$ 72.00	$ 180.00	$ 586.58	$ 766.58	$ 766.58
528			3P/400AS/225AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	2.500	$ 72.00	$ 180.00	$ 586.58	$ 766.58	$ 766.58
			GROUNDING										
529		Grounding Rod of Generator and MSB is Missing	3/4" x 10' CU Clad Ground Rod	EA	4	0%	4	0.385	$ 72.00	$ 27.72	$ 48.78	$ 76.50	$ 306.00
530			Ground Bus Bar	EA	2	0%	2	0.400	$ 72.00	$ 28.80	$ 52.75	$ 81.55	$ 163.10
531			Ground Clamp	EA	1	0%	1	0.420	$ 72.00	$ 30.24	$ 18.71	$ 48.95	$ 48.95
532			#6 CU Grounding Conductor	LF	30	10%	33	0.044	$ 72.00	$ 3.17	$ 1.60	$ 4.77	$ 157.34

COSTBIDDING
A Mark of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
533		Length Assumed	#4 CU Grounding Conductor, Concrete Encased	LF	20	10%	22	0.050	$ 72.00	$ 3.60	$ 1.58	$ 5.18	$ 113.96
534			#3/0 CU Grounding Conductor	LF	40	10%	44	0.032	$ 72.00	$ 2.30	$ 4.75	$ 7.05	$ 310.38
			POWER										
			CONDUIT										
535			1/2" EMT Conduit	LF	5500	10%	6050	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 39,530.70
535			3/4" EMT Conduit	LF	83341	10%	91675	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 599,004.67
536			1" EMT Conduit	LF	1498	10%	1648	0.070	$ 72.00	$ 5.04	$ 3.54	$ 8.58	$ 14,138.12
537			2" EMT Conduit	LF	466	10%	513	0.100	$ 72.00	$ 7.20	$ 8.90	$ 16.10	$ 8,252.86
538			3" EMT Conduit	LF	229	10%	252	0.160	$ 72.00	$ 11.52	$ 14.43	$ 25.95	$ 6,532.81
539			3/4" PVC SCH 40 Conduit	LF	233	10%	256	0.055	$ 72.00	$ 3.96	$ 2.20	$ 6.16	$ 1,578.81
540			3/4" RGS Conduit	LF	362	10%	398	0.100	$ 72.00	$ 7.20	$ 4.15	$ 11.35	$ 4,519.57
541			2" RGS Conduit	LF	15	10%	17	0.178	$ 72.00	$ 12.82	$ 13.40	$ 26.22	$ 432.56
542			3" RGS Conduit	LF	5	10%	6	0.320	$ 72.00	$ 23.04	$ 29.34	$ 52.38	$ 292.12
			CONDUCTOR										
543			3#12 MC Cable	LF	3814	10%	4196	0.018	$ 72.00	$ 1.30	$ 1.28	$ 2.58	$ 10,807.97
544		Length Assumed	#18 CU THHN/THWN	LF	11000	10%	12100	0.007	$ 72.00	$ 0.50	$ 0.25	$ 0.75	$ 9,123.40
545			#12 CU THHN/THWN	LF	229802	10%	252782	0.007	$ 72.00	$ 0.50	$ 0.25	$ 0.75	$ 190,597.83
546			#10 CU THHN/THWN	LF	34789	10%	38268	0.008	$ 72.00	$ 0.58	$ 0.37	$ 0.95	$ 36,201.43
547			#8 CU THHN/THWN	LF	4535	10%	4989	0.010	$ 72.00	$ 0.72	$ 0.56	$ 1.28	$ 6,385.28
548			#6 CU THHN/THWN	LF	5132	10%	5645	0.012	$ 72.00	$ 0.86	$ 0.80	$ 1.66	$ 9,393.61
549			#4 CU THHN/THWN	LF	234	10%	257	0.015	$ 72.00	$ 1.08	$ 1.27	$ 2.35	$ 604.89
550			#3 CU THHN/THWN	LF	1244	10%	1368	0.016	$ 72.00	$ 1.15	$ 1.81	$ 2.96	$ 4,053.20
551			#3/0 CU THHN/THWN	LF	680	10%	748	0.032	$ 72.00	$ 2.30	$ 4.75	$ 7.05	$ 5,276.39
552			#4/0 CU THHN/THWN	LF	936	10%	1030	0.036	$ 72.00	$ 2.59	$ 5.97	$ 8.56	$ 8,815.44
		Emergency Shutt off control Switch in Pool is missing	**DEVICE**										
553			120V Motorized Fire Damper	EA	1	0%	1	1.125	$ 72.00	$ 81.00	$ 716.10	$ 797.10	$ 797.10
554		Rating Assumed From Panel	20A Equipment Connection	EA	3	0%	3	0.320	$ 72.00	$ 23.04	$ -	$ 23.04	$ 69.12
555			60A Equipment Connection	EA	1	0%	1	0.320	$ 72.00	$ 23.04	$ -	$ 23.04	$ 23.04
556			20A Single Phase Motor Switch	EA	24	0%	24	0.325	$ 72.00	$ 23.40	$ 28.19	$ 51.59	$ 1,238.16
557			30A Duplex Receptacle	EA	2	0%	2	0.380	$ 72.00	$ 27.36	$ 45.56	$ 72.92	$ 145.84
558			Duplex Receptacle, LEVITON 16352, Face Plate, 80401	EA	933	0%	933	0.350	$ 72.00	$ 25.20	$ 28.14	$ 53.34	$ 49,766.22
559			Duplex Receptacle, Above Counter, LEVITON 16352, Face Plate, 80401	EA	2	0%	2	0.350	$ 72.00	$ 25.20	$ 28.14	$ 53.34	$ 106.68
560			Duplex Receptacle, Flush Floor Mounted With Chrome Cover Plate	EA	21	0%	21	0.350	$ 72.00	$ 25.20	$ 64.99	$ 90.19	$ 1,893.99
561	E101, E102, E103, E104, E600, E601 & E602		Duplex Receptacle, GFCI, LEVITON 16352, Face Plate, 80401	EA	243	0%	243	0.350	$ 72.00	$ 25.20	$ 52.47	$ 77.67	$ 18,873.81
562			Duplex Receptacle, GFCI, WP	EA	27	0%	27	0.325	$ 72.00	$ 23.40	$ 47.86	$ 71.26	$ 1,924.02
563			Duplex Receptacle, USB, LEGRAND ARTRUSB153M4	EA	213	0%	213	0.350	$ 72.00	$ 25.20	$ 61.53	$ 86.73	$ 18,473.49
564			Emergency Shutoff Control Switch	EA	1	0%	1	0.285	$ 72.00	$ 20.52	$ 15.50	$ 36.02	$ 36.02
565			Quadplex Receptacle	EA	87	0%	87	0.420	$ 72.00	$ 30.24	$ 75.23	$ 105.47	$ 9,175.89
566			Quadplex Receptacle, USB	EA	110	0%	110	0.420	$ 72.00	$ 30.24	$ 80.12	$ 110.36	$ 12,139.60
567			Single Phase Motor Switch	EA	2	0%	2	0.325	$ 72.00	$ 23.40	$ 31.20	$ 54.60	$ 109.20
568		Provided By Smartcon Solutions	Smart RF Switch	EA	110	0%	110	0.320	$ 72.00	$ 23.04	$ -	$ 23.04	$ 2,534.40
569			Thermostat, E528 ESERIES	EA	110	0%	110	0.655	$ 72.00	$ 47.16	$ -	$ 47.16	$ 5,187.60
570			Receptacle/Lighting Relay	EA	110	0%	110	0.655	$ 72.00	$ 47.16	$ -	$ 47.16	$ 5,187.60
			4" Sq Junction Box	EA	110	0%	110	0.655	$ 72.00	$ 47.16	$ -	$ 47.16	$ 5,187.60
			LIGHTING										
			CONDUIT										
571		Length Assumed	3/4" EMT Conduit	LF	120	10%	132	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 862.49
572			3/4" EMT Conduit	LF	35265	10%	38792	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 253,463.66
573			1" EMT Conduit	LF	6114	10%	6726	0.070	$ 72.00	$ 5.04	$ 3.54	$ 8.58	$ 57,705.91
574			3/4" RGS Conduit	LF	167	10%	184	0.100	$ 72.00	$ 7.20	$ 4.15	$ 11.35	$ 2,085.87
575			3/4" PVC SCH 40 Conduit	LF	87	10%	96	0.055	$ 72.00	$ 3.96	$ 2.20	$ 6.16	$ 590.33
			CONDUCTOR										
576		Length Assumed & Provided By Others	CAT5e Cable	LF	300	10%	330	0.028	$ 72.00	$ 2.02	$ -	$ 2.02	$ 665.28
577			3#12 MC Cable	LF	6838	10%	7522	0.018	$ 72.00	$ 1.30	$ 1.28	$ 2.58	$ 19,377.23
578			#12 CU THHN/THWN	LF	102090	10%	112299	0.007	$ 72.00	$ 0.50	$ 0.25	$ 0.75	$ 84,673.45
579			#10 CU THHN/THWN	LF	4467	10%	4914	0.008	$ 72.00	$ 0.58	$ 0.37	$ 0.95	$ 4,648.27
580			#8 CU THHN/THWN	LF	18343	10%	20177	0.010	$ 72.00	$ 0.72	$ 0.56	$ 1.28	$ 25,826.42
581		Length Assumed	#18 CU THHN/THWN	LF	240	10%	264	0.004	$ 72.00	$ 0.29	$ 0.16	$ 0.45	$ 118.27
		5th Floor Take-Off is Missing	**LIGHTING FIXTURES**										
582			B01: 2' X 2' LED Lighting Fixture, COOPER-METALUX, 22CZ2-39-UNV-L835-CD1-U Mounting: Recessed Watts: 31W	EA	62	0%	62	0.775	$ 72.00	$ 55.80	$ 145.00	$ 200.80	$ 12,449.60
583			B04: 2' X 2' LED Lighting Fixture, COOPER-METALUX, 22SR-LD2-29-C-UNV-L835-CD1-U Mounting: Recessed Watts: 23.4W	EA	14	0%	14	0.775	$ 72.00	$ 55.80	$ 205.00	$ 260.80	$ 3,651.20
584			B06: 4' X 4' Lighting Fixture, COOPER-METALUX, 24GR-LD5-72-F1-UNV-L835-CD1-U Mounting: Recessed Watts: 54.3W	EA	11	0%	11	1.406	$ 72.00	$ 101.25	$ 245.00	$ 346.25	$ 3,808.75
585			B08: Cooper - Neo Ray, S124DR-S795D830-FSR3F-1-UDD-F-W Mounting: Recessed Watts: 26.2W	EA	110	0%	110	0.725	$ 72.00	$ 52.20	$ 87.98	$ 140.18	$ 15,419.80
586			B10: 2' X 4' Lighting Fixture, Cooper - Metalux, 24GR-LD5-48-F1-UNV-L835-CD1-U Mounting: Recessed Watts: 34.9W	EA	6	0%	6	1.406	$ 72.00	$ 101.25	$ 148.36	$ 249.61	$ 1,497.66
587			D112: (02EA) Philips Lightolier, 407431748 Mounting: Pendant Watts: 30W	LF	8	0%	8	0.350	$ 72.00	$ 25.20	$ 32.37	$ 57.57	$ 480.13
588			D210: Challenger Lighting, CA-4800-00 Mounting: Recessed Watts: 34.9W	EA	3	0%	3	0.725	$ 72.00	$ 52.20	$ 78.96	$ 131.16	$ 393.48
589			D211: 6' Lighting Fixture, Challenger Lighting, CA4802-00-LED NETWORK ZONE-72"L Mounting: Pendant Watts: 40W	EA	4	0%	4	1.400	$ 72.00	$ 100.80	$ 196.52	$ 297.32	$ 1,189.28
590			D306: Challenger Lighting, SA5124-00 Mounting: Sconce Watts: 13W	EA	63	0%	63	1.206	$ 72.00	$ 86.85	$ 185.00	$ 271.85	$ 17,126.55
591			Egress Light: LED Lighting Fixture, Cooper Surelite, SELW25BK Mounting: Wall Watts: 06W	EA	10	0%	10	0.813	$ 72.00	$ 58.50	$ 88.83	$ 147.33	$ 1,473.30
592			J05: 4' Lighting Fixture, Cooper - Metalux, 4WNLED-LD4-40SL-F-UNV-L835-CD1-U Mounting: Surface Watts: 36W	EA	66	0%	66	1.406	$ 72.00	$ 101.25	$ 146.78	$ 248.03	$ 16,369.98
593			J06: (05EA) 12' Lighting Fixture, Cooper - Metalux, 4SNX-26SL-LW-UNV-L830-CD1-U Mounting: Surface Watts: 14W	LF	60	0%	60	0.281	$ 72.00	$ 20.25	$ 26.50	$ 46.75	$ 2,805.00

COST BIDDING
Mark of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
594			R72: LED LightingFixture, COOPER-HALO, HC620D010-HM60525930-61MDH Mounting: Recessed Watts: 14.2W	EA	162	0%	162	0.600	$ 72.00	$ 43.20	$ 78.33	$ 121.53	$ 19,687.86
595			R74: LED Lighting Fixture, COOPER-HALO, SLD405930WH Mounting: Recessed Watts: 12W	EA	330	0%	330	0.563	$ 72.00	$ 40.50	$ 83.40	$ 123.90	$ 40,887.00
596			R76: LED Lighting Fixture, COOPER-HALO, HL36A20930ED010ICAT-TIR45NFL25-TL3R2GMW Mounting: Recessed Watts: 19W	EA	22	0%	22	0.600	$ 72.00	$ 43.20	$ 187.47	$ 230.67	$ 5,074.74
597			R77: LED Lighting Fixture, COOPER-HALO, H27501CAT-ML5606830-691WB Mounting: Recessed Watts: 9W	EA	110	0%	110	0.563	$ 72.00	$ 40.50	$ 159.25	$ 199.75	$ 21,972.50
598			R82: LED Lighting Fixture, COOPER-HALO Lumiere, 340-6B15-D010-340-EU6B-1020-9030-6LBWLI-CC Mounting: Recessed Watts: 15.5W	EA	32	0%	32	0.600	$ 72.00	$ 43.20	$ 52.98	$ 96.18	$ 3,077.76
599			R85: LED Lighting Fixture, COOPER-HALO, H4571CAT1E-EL406930-TLS408SNBB Mounting: Recessed Watts: 13W	EA	25	0%	25	0.600	$ 72.00	$ 43.20	$ 85.51	$ 128.71	$ 3,217.75
600			R86: COOPER-HALO, ML4DM10LSFL9FS1E-TL43R2GMWWB Mounting: Recessed Watts: 12.8W	EA	8	0%	8	0.600	$ 72.00	$ 43.20	$ 57.45	$ 100.65	$ 805.20
601			R87: LED Lighting Fixture, COOPER-HALO, HC615D010-HM0525930-61MDH Mounting: Recessed Watts: 13.7W	EA	4	0%	4	0.650	$ 72.00	$ 46.80	$ 96.29	$ 143.09	$ 572.36
602			R87ALT3: COOPER - Metalux, 4SWLED-LD4-48HL-LWUNV-L835-CD2-SVPD1 Mounting: Surface Watts: 43.3W	EA	20	0%	20	1.406	$ 72.00	$ 101.25	$ 323.26	$ 424.51	$ 8,490.20
603			R102: LED Lighting Fixture, COOPER-HALO, ML4DM10LSFL9FS1E-TL40R2GMW Mounting: Recessed Watts: 9.4W	EA	110	0%	110	0.600	$ 72.00	$ 43.20	$ 58.45	$ 101.65	$ 11,181.50
604			X01: COOPER - Surelite, CX71SD Mounting: Wall Watts: 1W	EA	40	0%	40	0.569	$ 72.00	$ 40.95	$ 287.50	$ 328.45	$ 13,138.00
605			X01-WP: Weatherproof Light Fixture, COOPER - SURELITE, CX71SD Mounting: Wall Watts: 1W	EA	2	0%	2	0.569	$ 72.00	$ 40.95	$ 313.50	$ 354.45	$ 708.90
606			X03: LED Lighting Fixture, COOPER SURELITE, SEL25SD Mounting: Wall Watts: 06W	EA	117	0%	117	0.688	$ 72.00	$ 49.50	$ 108.97	$ 158.47	$ 18,540.99
607			Z100 (3EA): LED Lighting Fixture, LEGRAND- PINNACLE LIGHTING, EV3D-A-840-20-FL-U-FSD-1-W Mounting: Recessed Watts: 4.1W	LF	63	0%	63	0.300	$ 72.00	$ 21.60	$ 22.25	$ 43.85	$ 2,774.83
608			Z71: LED Lighting Fixture, COOPER - HALO, HC610D010-HM60525840-61MDC Mounting: Recessed Watts: 10W	EA	5	0%	5	0.606	$ 72.00	$ 43.65	$ 71.10	$ 114.75	$ 573.75
609			Z75: LED Lighting Fixture, COOPER - Shaper, 673-16-WP-L3/840-UNV-DP-2HTV-2VTB/PC-BC Mounting: Surface Watts: 20W	EA	10	0%	10	1.063	$ 72.00	$ 76.50	$ 78.11	$ 154.61	$ 1,546.10
606			001: Sconce Light, SIGNIFY-STONCO, #VWXL14NW-G18 VGC100 Mounting: Wall	EA	4								
610			003: Under Water Pool Light, Provided by Pool Contractor Mounting: Wall	EA	4	0%	4	0.688	$ 72.00	$ 49.50	$ -	$ 49.50	$ 198.00
			LIGHTING CONTROL										
611		Related to Lighting Control	125A, 3Ph, 4W QS Din Rail Panel, ALPD8B20BL4-GGGGBBBB	EA	1	0%	1	0.650	$ 72.00	$ 46.80	$ 575.00	$ 621.80	$ 621.80
612		Photocell & Time Clock is Missing	3 Button With Raise/Lower And Light Icon-Pico Keypad, PJ2-3BRL-GWH-L01	EA	4	0%	4	0.320	$ 72.00	$ 23.04	$ 22.45	$ 45.49	$ 181.96
613			30A Multi-Pole Lighting Contractor	EA	1	0%	1	0.655	$ 72.00	$ 47.16	$ 459.19	$ 506.35	$ 506.35
614			Dimmer With XCT Occupancy & Vacancy Sensor	EA	1	0%	1	0.325	$ 72.00	$ 23.40	$ 48.76	$ 72.16	$ 72.16
615			Over Ride Switch	EA	1	0%	1	0.350	$ 72.00	$ 25.20	$ 52.39	$ 77.59	$ 77.59
615			Photoelectric Switch (Photocell)	EA	1	0%	1	0.325	$ 72.00	$ 23.40	$ 28.99	$ 52.39	$ 52.39
616			Time Clock	EA	1	0%	1	0.325	$ 72.00	$ 23.40	$ 28.99	$ 52.39	$ 52.39
617			Powerpack Dimming Module With 0-10V Control, RMJS-8TN-DV-B	EA	4	0%	4	0.585	$ 72.00	$ 42.12	$ 188.47	$ 230.59	$ 922.36
618			Seetouch QS Non Insert Button ,QWS2-5BRLN-WH-G	EA	1	0%	1	0.380	$ 72.00	$ 27.36	$ 266.46	$ 293.82	$ 293.82
619		Qty. Re-Check.	Wireless Ceiling Occupancy Sensor, LRF2-OCR2-P-WH	EA	4	0%	4	0.400	$ 72.00	$ 28.80	$ 98.40	$ 127.20	$ 508.80
620			3 Pole Master Switch Bank With Lighting Contactor, INNCOM #e528	EA	70	0%	70	0.525	$ 72.00	$ 37.80	$ 149.58	$ 187.38	$ 13,116.60
621			4 Pole Master Switch Bank With Lighting Contactor, INNCOM #e528	EA	40	0%	40	0.580	$ 72.00	$ 41.76	$ 160.32	$ 202.08	$ 8,083.20
622			Keyed Switch	EA	1	0%	1	0.320	$ 72.00	$ 23.04	$ 36.78	$ 59.82	$ 59.82
623			Occupancy Sensor, Ceiling Mounted, GREENGATE, OAC-DT-2000-R	EA	4	0%	4	0.350	$ 72.00	$ 25.20	$ 172.00	$ 197.20	$ 788.80
624			Occupancy Sensor, Wall Mounted, GREENGATE, OAC-DT-2000-R	EA	52	0%	52	0.320	$ 72.00	$ 23.04	$ 172.00	$ 195.04	$ 10,142.08
625			Single Pole Switch, DECORA DEVICES, 5601 SERIES	EA	300	0%	300	0.320	$ 72.00	$ 23.04	$ 24.98	$ 48.02	$ 14,406.00
626			Three Way Switch	EA	2	0%	2	0.350	$ 72.00	$ 25.20	$ 28.63	$ 53.83	$ 107.66
627		Assumed Because Legend Not Given	S, Speaker	EA	7	0%	7	0.350	$ 72.00	$ 25.20	$ 61.57	$ 86.77	$ 607.39
			MISCELLANEOUS										
628			Junction Box	EA	23	0%	23	0.425	$ 72.00	$ 30.60	$ 65.00	$ 95.60	$ 2,198.80
629			Junction Box, Wall Mounted	EA	290	0%	290	0.425	$ 72.00	$ 30.60	$ 65.00	$ 95.60	$ 27,724.00
			SAW CUT										
630			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	134	0%	134	0.090	$ 72.00	$ 6.48	$ -	$ 6.48	$ 868.32
												SUB TO TAL	$ 2,370,048
			COMMUNICATION										
			TELECOMMUNICATION										
			CONDUIT										
631			1" EMT Conduit Upto Ceiling	LF	1065	10%	1172	0.070	$ 72.00	$ 5.04	$ 3.54	$ 8.58	$ 10,051.47
632			3" EMT Conduit With Pull String	LF	34	10%	37	0.160	$ 72.00	$ 11.52	$ 14.43	$ 25.95	$ 966.53
633			4" EMT Conduit With Weatherhead	LF	285	10%	313	0.200	$ 72.00	$ 14.40	$ 19.56	$ 33.96	$ 10,642.72
634			1" PVC SCH 40 Conduit	LF	132	10%	145	0.064	$ 72.00	$ 4.61	$ 3.55	$ 8.16	$ 1,184.54
635			3" PVC SCH 40 Conduit With Pull String	LF	228	10%	251	0.145	$ 72.00	$ 10.44	$ 12.52	$ 22.96	$ 5,754.33
636		Length Assumed	4" PVC SCH 40 Conduit With Pull String	LF	150	10%	165	0.145	$ 72.00	$ 10.44	$ 12.52	$ 22.96	$ 3,788.40
		(2-Pair Residential Style Telephone Cable for Telephone Outlets)	**CONDUCTOR**										
637		Length Assumed & Provided By Others	CAT5e Cable	LF	30	10%	33	0.026	$ 72.00	$ 1.87	$ -	$ 1.87	$ 61.78
638			CAT 6 Cable	LF	67600	10%	74360	0.026	$ 72.00	$ 1.87	$ 0.24	$ 2.12	$ 157,345.76
639			2 Pair Residential Style Telephone Cable	LF	921	10%	1013	0.026	$ 72.00	$ 1.87	$ 0.24	$ 2.12	$ 2,143.72
640			RG-58 Residential Style Coaxial Cable	LF	13001	10%	14301	0.028	$ 72.00	$ 2.02	$ 0.42	$ 2.44	$ 34,837.48

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			J-HOOKS										
641			2" J-Hooks	EA	75	0%	75	0.056	$ 72.00	$ 4.03	$ 3.57	$ 7.60	$ 567.87
			DEVICES										
642			Athena 1-Link Processor Panel With Integral POE Switch, QP5-1L-PO	EA	1	0%	1	0.625	$ 72.00	$ 45.00	$ 50.56	$ 95.56	$ 95.56
643			4'x8'x3/4" Plywood Back Board	EA	1	0%	1	0.285	$ 72.00	$ 20.52	$ 42.78	$ 63.30	$ 63.30
644			4'x8'x3/4" Plywood CATV Back Board	EA	1	0%	1	0.285	$ 72.00	$ 20.52	$ 46.49	$ 67.01	$ 67.01
645			AThena 5" Touchscreen, Q-TOUCH5-WH	EA	1	0%	1	0.655	$ 72.00	$ 47.16	$ 378.96	$ 426.12	$ 426.12
646			Data Outlet	EA	220	0%	220	0.220	$ 72.00	$ 15.84	$ 17.50	$ 33.34	$ 7,334.80
647			RJ45 Connector	EA	220	0%	220	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 347.60
648			Back Box	EA	220	0%	220	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 3,190.00
649			Faceplate	EA	220	0%	220	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 3,456.20
650			Tele/Data Outlet	EA	134	0%	134	0.220	$ 72.00	$ 15.84	$ 19.50	$ 35.34	$ 4,735.56
651			RJ45 Connector	EA	268	0%	268	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 423.44
652			Back Box	EA	134	0%	134	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 1,943.00
653			Faceplate	EA	134	0%	134	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 2,105.14
654			Tele/Data Outlet, Floor Mounted	EA	14	0%	14	0.220	$ 72.00	$ 15.84	$ 57.00	$ 72.84	$ 1,019.76
655			RJ45 Connector	EA	28	0%	28	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 44.24
656			Back Box	EA	14	0%	14	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 203.00
657			Faceplate	EA	14	0%	14	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 219.94
658			Telephone Outlet	EA	2	0%	2	0.220	$ 72.00	$ 15.84	$ 19.50	$ 35.34	$ 70.68
659			RJ45 Connector	EA	2	0%	2	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 3.16
660			Back Box	EA	2	0%	2	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 29.00
661			Faceplate	EA	2	0%	2	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 31.42
662			Telephone Outlet, House Phones	EA	14	0%	14	0.220	$ 72.00	$ 15.84	$ 19.50	$ 35.34	$ 494.76
663			RJ45 Connector	EA	14	0%	14	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 22.12
664	**E201, E202, E203, E204 & E205**		Back Box	EA	14	0%	14	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 203.00
665			Faceplate	EA	14	0%	14	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 219.94
666			TV Outlet	EA	118	0%	118	0.220	$ 72.00	$ 15.84	$ 17.50	$ 33.34	$ 3,934.12
667			RG-58 Connector	EA	118	0%	118	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 186.44
668			Back Box	EA	118	0%	118	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 1,711.00
669			Faceplate	EA	118	0%	118	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 1,853.78
670			TV Outlet, Floor Mounted	EA	11	0%	11	0.220	$ 72.00	$ 15.84	$ 57.00	$ 72.84	$ 801.24
671			RG-58 Connector	EA	11	0%	11	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 17.38
672			Back Box	EA	11	0%	11	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 159.50
673			Faceplate	EA	11	0%	11	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 172.81
674			Wireless Access Point	EA	110	0%	110	0.525	$ 72.00	$ 37.80	$ 156.78	$ 194.58	$ 21,403.80
675			RJ45 Connector	EA	110	0%	110	0.005	$ 72.00	$ 0.36	$ 1.22	$ 1.58	$ 173.80
676			Back Box	EA	110	0%	110	0.080	$ 72.00	$ 5.76	$ 8.74	$ 14.50	$ 1,595.00
677			Faceplate	EA	110	0%	110	0.080	$ 72.00	$ 5.76	$ 9.95	$ 15.71	$ 1,728.10
			SECURITY										
			CONDUIT										
678		**Length Assumed**	1/2" EMT Conduit	LF	5500	10%	6050	0.047	$ 72.00	$ 3.38	$ 1.19	$ 4.57	$ 27,672.70
679			1/2" EMT Conduit	LF	72	10%	79	0.047	$ 72.00	$ 3.38	$ 1.19	$ 4.57	$ 362.26
			CONDUCTOR										
680			Multi conductor Composite Cable	LF	940	10%	1035	0.038	$ 72.00	$ 2.74	$ 0.78	$ 3.52	$ 3,637.40
681		**Length Assumed**	#22 CU THHN/THWN	LF	11000	10%	12100	0.004	$ 72.00	$ 0.29	$ 0.16	$ 0.45	$ 5,420.80
682		2#22 LV Cable For Door Strike	#22 CU THHN/THWN	LF	90	10%	99	0.004	$ 72.00	$ 0.29	$ 0.16	$ 0.45	$ 44.35
683			#18 CU THHN/THWN	LF	54	10%	59	0.004	$ 72.00	$ 0.29	$ 0.16	$ 0.45	$ 26.61
			DEVICES										
684			Door Strike, VINGCARD FLEX	EA	9	0%	9	1.200	$ 72.00	$ 86.40	$ 525.00	$ 611.40	$ 5,502.60
685			Magnetic Door Contact, S241	EA	9	0%	9	0.350	$ 72.00	$ 25.20	$ 31.76	$ 56.96	$ 512.64
686			Card Reader, Wall Mounted	EA	9	0%	9	0.500	$ 72.00	$ 36.00	$ 78.75	$ 114.75	$ 1,032.75
687		**Supplied By Smartcon Solutions**	Door Contact Switch	EA	110	0%	110	0.500	$ 72.00	$ 36.00	$ 78.75	$ 114.75	$ 12,622.50
688			Optional Door Contact	EA	110	0%	110	0.500	$ 72.00	$ 36.00	$ 78.75	$ 114.75	$ 12,622.50
			AUDIO/VISUAL SYSTEM										
			DEVICES										
689			Amplifier/Battery Cabinet	EA	1	0%	1	0.850	$ 72.00	$ 61.20	$ 880.24	$ 941.44	$ 941.44
690		Area of Refuge on E	Area Station	EA	5	0%	5	2.980	$ 72.00	$ 214.56	$ 7,050.00	$ 7,264.56	$ 36,322.80
691			Master Station	EA	1	0%	1	3.885	$ 72.00	$ 279.72	$ 14,000.00	$ 14,279.72	$ 14,279.72
692			Relay Card Cabinet	EA	1	0%	1	0.720	$ 72.00	$ 51.84	$ 322.54	$ 374.38	$ 374.38
			MISCELLANEOUS										
693		Card Reader Single Gang Junction Box	8"x8"x8" Junction Box	EA	9	0%	9	0.625	$ 72.00	$ 45.00	$ 58.13	$ 103.13	$ 928.17
												SUB TO TAL	**$ 410,134**
			ELECTRONIC SAFETY AND SECURITY										
			FIRE ALARM										
			CONDUIT										
694			3/4" EMT Conduit	LF	9441	10%	10385	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 67,857.39
			CONDUCTOR										
695		Plenum Rated	#16 CU THHN/THWN, Plenum Rated	LF	10678	10%	11745	0.005	$ 72.00	$ 0.36	$ 0.22	$ 0.58	$ 6,812.30
696			#14 CU THHN/THWN, Plenum Rated	LF	8204	10%	9024	0.006	$ 72.00	$ 0.43	$ 0.28	$ 0.71	$ 6,425.17
		Sounder Base Smoke Detectoers	**DEVICES**										
697		In ADA Rooms, Smoke Detectors shall have 177Cd Strobe	Fire Alarm Annunciator Panel	EA	1	0%	1	2.150	$ 72.00	$ 154.80	$ 1,250.00	$ 1,404.80	$ 1,404.80
698		FA System Hearing Impaired Notification system	Fire Alarm Door Annunciator, Edwards 7005-G5	EA	7	0%	7	0.725	$ 72.00	$ 52.20	$ 178.84	$ 231.04	$ 1,617.28
699		FA System is Addressable	24V DC, Power Limited, Addressable Fire Alarm Control Panel	EA	1	0%	1	1.550	$ 72.00	$ 111.60	$ 528.36	$ 639.96	$ 639.96
699		separate Wall mounted and flush Mounted Door Holders Manufacturer: EDWARDS, 1504 Series (wall Mounted) 1501 (Flush Mounted)	Fire Alarm Door Holder, EDWARDS 1504 Series, Wall Mounted	EA	10	0%	10	0.500	$ 72.00	$ 36.00	$ 88.76	$ 124.76	$ 1,247.60
700	**E206**	separate Wall mounted and flush Mounted Door Holders Manufacturer: EDWARDS, 1504 Series (wall Mounted) 1501 (Flush Mounted)	Fire Alarm Door Holder, EDWARDS 1501 Series, Flush Mounted	EA	2	0%	2	0.500	$ 72.00	$ 36.00	$ 88.76	$ 124.76	$ 249.52
701			Fire Alarm Duct Smoke Detector	EA	2	0%	2	0.650	$ 72.00	$ 46.80	$ 178.59	$ 225.39	$ 450.78
702			Fire Alarm Fire Smoke Damper	EA	125	0%	125	0.890	$ 72.00	$ 64.08	$ 725.00	$ 789.08	$ 98,635.00
703			Fire Alarm Flow Switch	EA	10	0%	10	0.480	$ 72.00	$ 34.56	$ 168.73	$ 203.29	$ 2,032.90
704			Fire Alarm Heat Detector	EA	4	0%	4	0.350	$ 72.00	$ 25.20	$ 48.65	$ 73.85	$ 295.40
705			Fire Alarm Horn Strobe, 110CD	EA	2	0%	2	0.650	$ 72.00	$ 46.80	$ 204.96	$ 251.76	$ 503.52
706			Fire Alarm Horn Strobe, 30CD	EA	58	0%	58	0.550	$ 72.00	$ 39.60	$ 145.00	$ 184.60	$ 10,706.80
707			Fire Alarm Horn Strobe, WP	EA	4	0%	4	0.580	$ 72.00	$ 41.76	$ 112.78	$ 154.54	$ 618.16
708			Fire Alarm Manual Pull Station	EA	14	0%	14	0.480	$ 72.00	$ 34.56	$ 66.49	$ 101.05	$ 1,414.70

COST BIDDING
Bank of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
709			Fire Alarm Photoelectric Smoke Detector	EA	113	0%	113	0.350	$ 72.00	$ 25.20	$ 32.32	$ 57.52	$ 6,499.76
710			Fire Alarm Photoelectric Smoke Detector, Elevator Recall	EA	8	0%	8	0.350	$ 72.00	$ 25.20	$ 32.32	$ 57.52	$ 460.16
711			Fire Alarm Smoke & Carbon Monoxide Detector	EA	23	0%	23	0.355	$ 72.00	$ 25.56	$ 56.98	$ 82.54	$ 1,898.42
712			Sounder Base Fire Alarm Smoke Detector With Battery Backup & Inte	EA	110	0%	110	0.350	$ 72.00	$ 25.20	$ 45.23	$ 70.43	$ 7,747.30
712			Fire Alarm Strobe, 15Cd	EA	5	0%	5	0.350	$ 72.00	$ 25.20	$ 42.55	$ 67.75	$ 338.75
713			Fire Alarm Strobe, 177Cd	EA	38	0%	38	0.350	$ 72.00	$ 25.20	$ 42.55	$ 67.75	$ 2,574.50
714			Fire Alarm Tamper Switch	EA	10	0%	10	0.355	$ 72.00	$ 25.56	$ 98.85	$ 124.41	$ 1,244.10
												SUB TOTAL	$ 221,674
			UTILITIES										
			PLUMBING										
			WATER SERVICE PIPE (BELOW GRADE)										
			Polytube Pipe										
715			2" Dia Water Service Pipe	LF	68	10%	75	0.271	$ 72.00	$ 19.51	$ 14.04	$ 33.55	$ 2,523.35
			WATER SERVICE PIPE FITTINGS										
			ELBOW										
716			2" Dia Water Service Pipe 90 Deg Elbow	EA	1	0%	1	0.727	$ 72.00	$ 52.34	$ 21.48	$ 73.82	$ 73.82
			REDUCER										
717			2" / 1" Dia Water Service Pipe Reducer	EA	1	0%	1	0.410	$ 72.00	$ 29.52	$ 3.29	$ 32.81	$ 32.81
			WATER MAIN PIPE (BELOW GRADE)										
			Ductile Iron Pipe										
718			3" Dia Water Main Pipe	LF	8	10%	9	0.135	$ 72.00	$ 9.72	$ 105.00	$ 114.72	$ 984.30
719			8" Dia Water Main Pipe	LF	29	10%	32	0.210	$ 72.00	$ 15.12	$ 153.10	$ 168.22	$ 5,314.41
			WATER MAIN PIPE FITTINGS										
			ELBOW										
720			8" Dia Water Main Pipe 90 Deg Elbow	EA	2	0%	2	2.624	$ 72.00	$ 188.93	$ 663.77	$ 852.70	$ 1,705.40
			REDUCER										
721			8" / 3" Dia Water Main Pipe Reducer	EA	1	0%	1	2.400	$ 72.00	$ 172.80	$ 445.74	$ 618.54	$ 618.54
			WATER MAIN PIPE (BELOW GRADE)										
			PVC Pipe										
722			4" Dia Water Main Pipe	LF	110	10%	121	0.333	$ 72.00	$ 23.98	$ 22.98	$ 46.96	$ 5,675.99
			WATER MAIN PIPE FITTINGS										
			ELBOW										
723			4" Dia Water Main Pipe 90 Deg Elbow	EA	1	0%	1	1.231	$ 72.00	$ 88.63	$ 474.53	$ 563.16	$ 563.16
724			4" Dia Water Main Pipe 45 Deg Elbow	EA	2	0%	2	1.231	$ 72.00	$ 88.63	$ 474.53	$ 563.16	$ 1,126.32
			FIRE WATER MAIN PIPE (BELOW GRADE)										
			PVC Pipe										
725			4" Dia Fire Water Main Pipe	LF	65	10%	72	0.333	$ 72.00	$ 23.98	$ 22.98	$ 46.96	$ 3,357.35
726			6" Dia Fire Water Main Pipe	LF	141	10%	155	0.410	$ 72.00	$ 29.52	$ 48.95	$ 78.47	$ 12,178.47
			FIRE WATER MAIN PIPE FITTINGS										
			ELBOW										
727			6" Dia Fire Water Main Pipe 90 Deg Elbow	EA	2	0%	2	2.000	$ 72.00	$ 144.00	$ 854.15	$ 998.15	$ 1,996.30
728			4" Dia Fire Main Pipe 45 Deg Elbow	EA	1	0%	1	1.231	$ 72.00	$ 88.63	$ 474.53	$ 563.16	$ 563.16
729			6" Dia Fire Main Pipe 45 Deg Elbow	EA	2	0%	2	2.000	$ 72.00	$ 144.00	$ 854.15	$ 998.15	$ 1,996.30
			TEE										
730			6" Dia Fire Water Main Pipe Tee	EA	1	0%	1	3.200	$ 72.00	$ 230.40	$ 1,098.90	$ 1,329.30	$ 1,329.30
			REDUCER										
731			8" / 6" Dia Fire Water Main Pipe Reducer	EA	1	0%	1	1.500	$ 72.00	$ 108.00	$ 1,648.35	$ 1,756.35	$ 1,756.35
			WASTE PIPE (BELOW GRADE)										
			PVC Pipe										
732			6" Dia Waste Pipe	LF	42	10%	46	0.410	$ 72.00	$ 29.52	$ 48.95	$ 78.47	$ 3,619.27
733	C4, C5 & ES1		8" Dia Waste Pipe	LF	223	10%	246	0.500	$ 72.00	$ 36.00	$ 70.43	$ 106.43	$ 26,142.40
			WASTE PIPE FITTINGS										
			ELBOW										
734			6" Dia Waste Pipe 90 Deg Elbow	EA	1	0%	1	2.000	$ 72.00	$ 144.00	$ 854.15	$ 998.15	$ 998.15
735			8" Dia Waste Pipe 90 Deg Elbow	EA	3	10%	3	2.667	$ 72.00	$ 192.02	$ 1,548.45	$ 1,740.47	$ 5,743.56
736			6" Dia Waste Pipe 45 Deg Elbow	EA	1	10%	1	2.000	$ 72.00	$ 144.00	$ 854.15	$ 998.15	$ 1,097.97
737			8" Dia Waste Pipe 45 Deg Elbow	EA	8	10%	9	2.667	$ 72.00	$ 192.02	$ 1,573.43	$ 1,765.45	$ 15,536.00
			WYE										
738			8" Dia Waste Pipe Wye	EA	6	0%	6	4.000	$ 72.00	$ 288.00	$ 3,596.40	$ 3,884.40	$ 23,306.40
739			8" / 6" Dia Waste Pipe Wye	EA	1	0%	1	3.200	$ 72.00	$ 230.40	$ 2,197.80	$ 2,428.20	$ 2,428.20
			MANHOLE										
740			18" Dia Junction Manhole	EA	1	0%	1	0.650	$ 72.00	$ 46.80	$ 225.00	$ 271.80	$ 271.80
741		Detail Not Found	Sampling Manhole #1	EA	1	0%	1	0.533	$ 72.00	$ 38.38	$ 420.00	$ 458.38	$ 458.38
			FIRE HYDRANT										
742			FH: 6" Dia Fire Hydrant	EA	2	0%	2	1.230	$ 72.00	$ 88.56	$ 725.00	$ 813.56	$ 1,627.12
			FIRE HYDRANT DETAIL										
743			2-1/2" Dia Hose Bib	EA	1	0%	1	0.890	$ 72.00	$ 64.08	$ 225.00	$ 289.08	$ 289.08
744			4-1/2" Dia Hose Bib	EA	1	0%	1	1.100	$ 72.00	$ 79.20	$ 325.00	$ 404.20	$ 404.20
745			6" Dia Gate Valve	EA	1	0%	1	1.450	$ 72.00	$ 104.40	$ 1,302.00	$ 1,406.40	$ 1,406.40
			MISCELLANEOUS										
746			1" Dia Portable Water Meter	EA	1	0%	1	0.550	$ 72.00	$ 39.60	$ 153.60	$ 193.20	$ 193.20
747			4" Dia Potable Water Meter	EA	1	0%	1	0.875	$ 72.00	$ 63.00	$ 496.00	$ 559.00	$ 559.00
748			6" Dia Fire Meter	EA	1	0%	1	1.000	$ 72.00	$ 72.00	$ 835.00	$ 907.00	$ 907.00
749			1" Dia Service Tap	EA	1	0%	1	0.220	$ 72.00	$ 15.84	$ 38.12	$ 53.96	$ 53.96
750			4" Dia Fire Department Connection W/ Knox Lockable Plugs	EA	1	0%	1	3.333	$ 72.00	$ 239.98	$ 233.00	$ 472.98	$ 472.98
			BACKFOLOW PREVENTER										
751			1" Dia Reduced Pressure Backflow Preventer	EA	1	0%	1	1.100	$ 72.00	$ 79.20	$ 1,350.00	$ 1,429.20	$ 1,429.20
752			4" Dia Reduced Pressure Backflow Preventer	EA	1	0%	1	2.120	$ 72.00	$ 152.64	$ 3,638.00	$ 3,790.64	$ 3,790.64
			CLEANOUTS & DRAINS										
753			6" Dia CO: Cleanout	EA	1	0%	1	2.667	$ 72.00	$ 192.02	$ 629.37	$ 821.39	$ 821.39
754			8" Dia CO: Cleanout	EA	7	0%	7	4.000	$ 72.00	$ 288.00	$ 694.31	$ 982.31	$ 6,876.17
755			10" Dia CO: Cleanout	EA	8	0%	8	4.500	$ 72.00	$ 324.00	$ 825.00	$ 1,149.00	$ 9,192.00
			VALVES										
756			2" Dia Shutoff Valve	EA	1	0%	1	0.350	$ 72.00	$ 25.20	$ 65.00	$ 90.20	$ 90.20
757			3" Dia Shutoff Valve	EA	1	0%	1	0.425	$ 72.00	$ 30.60	$ 105.00	$ 135.60	$ 135.60
758			4" Dia Check Valve	EA	1	0%	1	0.550	$ 72.00	$ 39.60	$ 255.00	$ 294.60	$ 294.60
759			6" Dia Shutoff Valve	EA	1	0%	1	0.525	$ 72.00	$ 37.80	$ 185.00	$ 222.80	$ 222.80
760			6" Dual Check Valve	EA	1	0%	1	2.890	$ 72.00	$ 208.08	$ 4,257.00	$ 4,465.08	$ 4,465.08
			PVC COUPLING										
761			4" Dia	EA	17	0%	17						
762			6" Dia	EA	18	0%	18						
763			8" Dia	EA	22	0%	22						
			DISTRIBUTION										
			CONDUIT										
764		With Pull String To Generator For	2" EMT Conduit	LF	142	10%	156	0.100	$ 72.00	$ 7.20	$ 8.90	$ 16.10	$ 2,519.07
764		Length Assumed	1" PVC SCH 40 Conduit With Pullstring	LF	70	10%	77	0.100	$ 72.00	$ 7.20	$ 8.90	$ 16.10	$ 1,239.70
765			3" PVC SCH 40 Conduit	LF	1176	10%	1294	0.145	$ 72.00	$ 10.44	$ 12.52	$ 22.96	$ 29,699.54
			CONDUCTOR										
766			#6 CU THHN/THWN	LF	142	10%	156	0.012	$ 72.00	$ 0.86	$ 1.03	$ 1.89	$ 296.34
767			#3/0 CU THHN/THWN	LF	569	10%	626	0.032	$ 72.00	$ 2.30	$ 5.28	$ 7.58	$ 4,746.49
768			#400 CU THHN/THWN	LF	4704	10%	5174	0.047	$ 72.00	$ 3.38	$ 11.98	$ 15.36	$ 79,495.43
			CIRCUIT BREAKER										
769			3P/200A Breaker	EA	1	0%	1	2.500	$ 72.00	$ 180.00	$ 4,669.95	$ 4,849.95	$ 4,849.95
			DEVICES										
770		Generator Manufacturer is CUMMINS	60KW, 208Y/120V Diesel Genset in WP Level 1 Sound Attenuated Enc	EA	1	0%	1	36.364	$ 72.00	$ 2,618.21	$ 47,050.00	$ 49,668.21	$ 49,668.21

COST ESTIMATING
Link of Excellence

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
771			24HR Sub Base Diesel Fuel Tank	EA	1	0%	1	4.250	$ 72.00	$ 306.00	$ 5,699.00	$ 6,005.00	$ 6,005.00
			POWER										
			CONDUIT										
772			3/4" EMT Conduit	LF	144	10%	158	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 1,031.75
773			1" EMT Conduit	LF	119	10%	131	0.070	$ 72.00	$ 5.04	$ 3.54	$ 8.58	$ 1,123.88
774			3/4" PVC SCH 40 Conduit	LF	624	10%	687	0.055	$ 72.00	$ 3.96	$ 2.20	$ 6.16	$ 4,231.14
775			1" PVC SCH 40 Conduit	LF	245	10%	270	0.064	$ 72.00	$ 4.61	$ 3.55	$ 8.16	$ 2,201.63
			CONDUCTOR										
776			#10 CU THHN/THWN	LF	2304	10%	2534	0.008	$ 72.00	$ 0.58	$ 0.40	$ 0.98	$ 2,473.51
777			#6 CU THHN/THWN	LF	1458	10%	1603	0.012	$ 72.00	$ 0.86	$ 1.03	$ 1.89	$ 3,036.93
			SITE LIGHTING										
			CONDUIT										
778			3/4" EMT Conduit	LF	154	10%	169	0.062	$ 72.00	$ 4.46	$ 2.07	$ 6.53	$ 1,104.78
779			3/4" RGS Conduit	LF	195	10%	214	0.100	$ 72.00	$ 7.20	$ 4.15	$ 11.35	$ 2,433.70
780			1" PVC SCH 40 Conduit	LF	900	10%	990	0.064	$ 72.00	$ 4.61	$ 3.55	$ 8.16	$ 8,076.96
			CONDUCTOR										
781			#10 CU THHN/THWN	LF	1046	10%	1151	0.008	$ 72.00	$ 0.58	$ 0.40	$ 0.98	$ 1,122.90
782			#8 CU THHN/THWN	LF	2700	10%	2970	0.010	$ 72.00	$ 0.72	$ 0.66	$ 1.38	$ 4,098.87
			LIGHTING FIXTURES										
783			SA: DSX2 LED P3 40K T4M MVOLT With Houseside Shield, LITHO	EA	13	0%	13	0.890	$ 72.00	$ 64.08	$ 2,917.50	$ 2,981.58	$ 38,760.54
784			25' Straight, 5" Square, 0.120" Thickness Steel Pole, COPPER/STEEL	EA	13	0%	13	1.000	$ 72.00	$ 72.00	$ 1,600.00	$ 1,672.00	$ 21,736.00
785			12-5/16" Handhole	EA	13	0%	13	0.650	$ 72.00	$ 46.80	$ 235.00	$ 281.80	$ 3,663.40
786			L-Bent Galvanized Steel Anchor Bolts	EA	52	0%	52	0.200	$ 72.00	$ 14.40	$ 19.00	$ 33.40	$ 1,736.80
787			5/8" x 8' Ground Rod	EA	13	0%	13	0.250	$ 72.00	$ 18.00	$ 25.00	$ 43.00	$ 559.00
788			#6 CU Grounding Conductor	LF	130	10%	143	0.044	$ 72.00	$ 3.20	$ 1.60	$ 4.80	$ 685.94
			MISCELLANEOUS										
789			Junction Box	EA	4	0%	4	0.450	$ 72.00	$ 32.40	$ 65.23	$ 97.63	$ 390.52
			TRENCHING & BACKFILLING										
790			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	2650	0%	2650	0.080	$ 72.00	$ 5.76	$ -	$ 5.76	$ 15,264.00
												SUB TOTAL	**$ 446,880**

PROJECTED COST		**$7,018,078**
OVERHEAD AND PROFIT	**15%**	**$1,052,712**
INSURANCE	**3%**	**$210,542**
CONTINGENCY	**5%**	**$350,904**
TAX	**65%**	**$456,175**
SUGGESTED BID		**$9,088,411**

Notes:

1. Online sources are used for pricing.
2. Prices can vary depending upon field conditions.
3. As fire protection piping & sprinkler were not shown on plans so we take allowance as per architectural plans.
4. Plumbing pipes material was not shown on specifications so we assumed according to penetration schedule.

COST BIDDING
A Mark of Excellence

BREAKDOWN OF DUCT ITEMS

Prepared for: Springhill Suites, 1520 Cornerstone Blvd
Daytona Beach, FL 32117

Project ID:

Scope: GC

COST BIDDING
A Mark of Excellence

Date: 13-May-25

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
	HVAC				
	GALVANIZED SHEET METAL DUCT				
1	6" Dia Supply Air Duct	LF	166	10%	183
2	8" Dia Supply Air Duct	LF	34	10%	37
3	10" Dia Supply Air Duct	LF	17	10%	19
4	6"x8" Supply Air Duct	LF	15	10%	17
5	8"x8" Supply Air Duct	LF	236	10%	260
6	8"x12" Supply Air Duct	LF	11	10%	12
7	10"x8" Supply Air Duct	LF	71	10%	78
8	10"x10" Supply Air Duct	LF	37	10%	41
9	12"x10" Supply Air Duct	LF	104	10%	114
10	12"x12" Supply Air Duct	LF	31	10%	34
11	14"x8" Supply Air Duct	LF	139	10%	153
12	14"x10" Supply Air Duct	LF	125	10%	138
13	14"x12" Supply Air Duct	LF	70	10%	77
14	14"x14" Supply Air Duct	LF	55	10%	61
15	16"x14" Supply Air Duct	LF	82	10%	90
16	16"x16" Supply Air Duct	LF	17	10%	19
17	18"x8" Supply Air Duct	LF	127	10%	140
18	18"x10" Supply Air Duct	LF	149	10%	164
19	18"x16" Supply Air Duct	LF	37	10%	41
20	20"x16" Supply Air Duct	LF	37	10%	41
21	20"x18" Supply Air Duct	LF	14	10%	15
22	26"x8" Supply Air Duct	LF	137	10%	151
23	26"x16" Supply Air Duct	LF	19	10%	21
24	30"x24" Supply Air Duct	LF	24	10%	26
25	32"x24" Supply Air Duct	LF	25	10%	28
26	8" Dia Return Air Duct	LF	12	10%	13
27	10"x12" Return Air Duct	LF	17	10%	19
28	12"x12" Return Air Duct	LF	31	10%	34
29	14"x12" Return Air Duct	LF	12	10%	13
30	14"x14" Return Air Duct	LF	10	10%	11
31	16"x12" Return Air Duct	LF	16	10%	18
32	16"x14" Return Air Duct	LF	6	10%	7
33	18"x16" Return Air Duct	LF	20	10%	22
34	6" Dia Outside Air Duct	LF	13	10%	14
35	8" Dia Outside Air Duct	LF	26	10%	29
36	10" Dia Outside Air Duct	LF	62	10%	68
37	4" Dia Exhaust Air Duct	LF	108	10%	119
38	6" Dia Exhaust Air Duct	LF	129	10%	142

BREAKDOWN OF DUCT ITEMS

Prepared for: Springhill Suites, 1520 Cornerstone Blvd
Daytona Beach, FL 32117

Project ID:

Scope: GC

Date: 13-May-25

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
39	8" Dia Exhaust Air Duct	LF	48	10%	53
40	10" Dia Exhaust Air Duct	LF	72	10%	79
41	6"x6" Exhaust Air Duct	LF	11	10%	12
42	8"x6" Exhaust Air Duct	LF	11	10%	12
43	8"x8" Exhaust Air Duct	LF	38	10%	42
44	10"x8" Exhaust Air Duct	LF	8	10%	9
45	10"x10" Exhaust Air Duct	LF	5	10%	6
46	4" Dia Dryer Exhaust Duct	LF	54	10%	59
47	10" Dia Dryer Exhaust Duct	LF	50	10%	55

COST BIDDING
A Mark of Excellence