

DETAILED BREAKDOWN OF ITEMS

Prepared for:

Project ID:

Scope:

Date:

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
FIRE SUPPRESSION									
	Underground Fire Protection Water Pipe								
	Ductile Iron Pipe W/ Fittings (Assumed)								
1	6" Dia Fire Protection Water Pipe	LF	7	10%	8	\$ 9.85	\$ 12.65	\$ 22.50	\$ 172.51
	Fire Protection Water Pipe Fittings								
	Elbow								
2	6" Dia Fire Protection Water Pipe 90 Deg Elbow	EA	1	0%	1	\$ 9.42	\$ 38.32	\$ 47.74	\$ 47.74
	Fire Protection Water Pipe								
	Ductile Iron Pipe W/ Fittings (Assumed)								
3	1" Dia Fire Protection Water Pipe (Size assumed)	LF	2816	10%	3097	\$ 9.85	\$ 5.78	\$ 15.63	\$ 48,408.78
4	2" Dia Fire Protection Water Pipe (Size assumed)	LF	181	10%	199	\$ 9.85	\$ 16.90	\$ 26.75	\$ 5,316.51
5	4" Dia Fire Protection Water Pipe (Size assumed)	LF	197	10%	217	\$ 9.85	\$ 29.36	\$ 39.21	\$ 8,497.24
6	6" Dia Fire Protection Water Pipe (Size assumed)	LF	626	10%	689	\$ 9.85	\$ 52.45	\$ 62.30	\$ 42,916.91
	Fire Protection Water Pipe Fittings								
	Elbow								
7	1" Dia Fire Protection Water Pipe 90 Deg Elbow	EA	312	0%	312	\$ 9.42	\$ 9.15	\$ 18.57	\$ 5,793.84
8	2" Dia Fire Protection Water Pipe 90 Deg Elbow	EA	6	0%	6	\$ 9.42	\$ 10.65	\$ 20.07	\$ 120.42
9	4" Dia Fire Protection Water Pipe 90 Deg Elbow	EA	8	0%	8	\$ 14.60	\$ 27.55	\$ 42.15	\$ 337.20
10	6" Dia Fire Protection Water Pipe 90 Deg Elbow	EA	20	0%	20	\$ 14.60	\$ 38.32	\$ 52.92	\$ 1,058.40
	Tee								
11	1" Dia Fire Protection Water Pipe Tee	EA	226	0%	226	\$ 11.85	\$ 10.40	\$ 22.25	\$ 5,028.50
12	6" Dia Fire Protection Water Pipe Tee	EA	13	0%	13	\$ 16.48	\$ 12.17	\$ 28.65	\$ 372.45

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13	2" / 1" Dia Fire Protection Water Pipe Tee	EA	31	0%	31	\$ 14.67	\$ 11.90	\$ 26.57	\$ 823.67
14	4" / 1" Dia Fire Protection Water Pipe Tee	EA	33	0%	33	\$ 14.67	\$ 12.05	\$ 26.72	\$ 881.76
15	6" / 1" Dia Fire Protection Water Pipe Tee	EA	34	0%	34	\$ 16.48	\$ 12.17	\$ 28.65	\$ 974.10
16	6" / 3" Dia Fire Protection Water Pipe Tee	EA	10	0%	10	\$ 16.48	\$ 12.17	\$ 28.65	\$ 286.50
17	6" / 4" Dia Fire Protection Water Pipe Tee	EA	2	0%	2	\$ 16.48	\$ 12.17	\$ 28.65	\$ 57.30
	Reducer								
18	2" / 1" Dia Fire Protection Water Pipe Reducer	EA	4	0%	4	\$ 11.83	\$ 9.08	\$ 20.91	\$ 83.64
19	4" / 2" Dia Fire Protection Water Pipe Reducer	EA	4	0%	4	\$ 14.67	\$ 10.28	\$ 24.95	\$ 99.80
20	6" / 4" Dia Fire Protection Water Pipe Reducer	EA	4	0%	4	\$ 16.48	\$ 12.55	\$ 29.03	\$ 116.14
	Drain Pipe								
	Ductile Iron Pipe W/ Fittings (Assumed)								
21	2" Dia Drain Pipe	LF	9	10%	10	\$ 9.42	\$ 10.65	\$ 20.07	\$ 200.02
22	3" Dia Drain Pipe	LF	100	10%	110	\$ 14.60	\$ 16.05	\$ 30.65	\$ 3,356.67
	Drain Pipe Fittings								
	Elbow								
23	2" Dia Drain Pipe 90 Deg Elbow	EA	2	0%	2	\$ 9.42	\$ 10.65	\$ 20.07	\$ 40.14
24	3" Dia Drain Pipe 90 Deg Elbow	EA	7	0%	7	\$ 14.60	\$ 16.05	\$ 30.65	\$ 214.55
	Wye								
25	3" Dia Drain Pipe Wye	EA	9	0%	9	\$ 36.24	\$ 45.53	\$ 81.77	\$ 735.93
	Hose Pipe								
	Tough Woven Polyester Fabric (Assumed)								
26	6" Dia Hose Pipe (Size assumed)	LF	276	10%	304	\$ 9.42	\$ 38.32	\$ 47.74	\$ 14,497.01
	Sprinklers								
27	Quick Response Sidewall , VIKING Or TYCO #VK606-DIY, Spray: 16'x22', Brass Finish	EA	95	0%	95	\$ 65.00	\$ 78.00	\$ 143.00	\$ 13,585.00
28	Quick Response Pendent, VIKING Or TYCO #TY3231, Spray: 15'x15'	EA	200	0%	200	\$ 65.00	\$ 88.00	\$ 153.00	\$ 30,600.00
29	Standard Upright, VIKING Or TYCO #TY3131, Spray: 15'x15', Brass Finish	EA	38	0%	38	\$ 65.00	\$ 74.00	\$ 139.00	\$ 5,282.00
	Pumps								
30	Jockey Pump	EA	1	0%	1	\$ 300.00	\$ 5,633.00	\$ 5,933.00	\$ 5,933.00
31	Vertical Fire Pump	EA	1	0%	1	\$ 250.00	\$ 1,476.00	\$ 1,726.00	\$ 1,726.00
	Misc.								
32	2" Dia Main Drain Valve	EA	1	0%	1	\$ 20.00	\$ 38.00	\$ 58.00	\$ 58.00
33	6" Dia Fire Hose Valve	EA	6	0%	6	\$ 65.00	\$ 125.00	\$ 190.00	\$ 1,140.00

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34	6" Dia Isolation Valve With Tamper Switch	EA	2	0%	2	\$ 85.00	\$ 148.00	\$ 233.00	\$ 466.00
35	3" Dia NST Threaded Hose Connection (For Testing PRV)	EA	6	0%	6	\$ 35.00	\$ 8.99	\$ 43.99	\$ 263.94
36	6" Dia NST Threaded Hose Connection (For Testing PRV)	EA	7	0%	7	\$ 45.00	\$ 28.00	\$ 73.00	\$ 511.00
37	6" Dia Standpipe	EA	8	0%	8	\$ 35.00	\$ 35.50	\$ 70.50	\$ 564.00
38	Flow Sensing Switch	EA	4	0%	4	\$ 35.00	\$ 19.02	\$ 54.02	\$ 216.08
39	Pressure Gauge	EA	2	0%	2	\$ 40.00	\$ 120.00	\$ 160.00	\$ 320.00
40	Floor Connection	EA	6	0%	6	\$ 25.00	\$ 18.00	\$ 43.00	\$ 258.00
41	Hose Station	EA	8	0%	8	\$ 55.00	\$ 188.14	\$ 243.14	\$ 1,945.12
	Floor Connection Detail								
42	3" Dia Sectional Drain Valve	EA	6	0%	6	\$ 35.00	\$ 68.00	\$ 103.00	\$ 618.00
43	3" Dia Sight Glass	EA	6	0%	6	\$ 45.00	\$ 164.95	\$ 209.95	\$ 1,259.70
44	3" Dia Test Valve	EA	6	0%	6	\$ 20.00	\$ 25.00	\$ 45.00	\$ 270.00
45	3" Dia Union W/ Corrosion Resistant Orifice	EA	6	0%	6	\$ 15.00	\$ 18.00	\$ 33.00	\$ 198.00
46	6" Dia Check Valve	EA	6	0%	6	\$ 45.00	\$ 68.00	\$ 113.00	\$ 678.00
47	6" Dia Indicating-Type Floor Control Valve W/ Supervisory Switch	EA	6	0%	6	\$ 48.00	\$ 122.00	\$ 170.00	\$ 1,020.00
48	Flow Switch	EA	6	0%	6	\$ 35.00	\$ 19.02	\$ 54.02	\$ 324.12
49	Pressure Gauge	EA	6	0%	6	\$ 40.00	\$ 120.00	\$ 160.00	\$ 960.00
	Hose Stand Pipe Typ. Hose Connection Station Detail								
50	1-1/2" Dia Pipe Cap	EA	8	0%	8	\$ 20.00	\$ 26.63	\$ 46.63	\$ 373.04
51	2-1/2" / 1-1/2" Dia Pipe Reducer	EA	8	0%	8	\$ 25.00	\$ 49.28	\$ 74.28	\$ 594.24
52	2-1/2" Dia Angle Type Valve	EA	8	0%	8	\$ 40.00	\$ 159.99	\$ 199.99	\$ 1,599.92
53	2-1/2" Dia Pressure Reducing Valve	EA	8	0%	8	\$ 65.00	\$ 611.00	\$ 676.00	\$ 5,408.00
54	2-1/2" Dia Valve Opener	EA	8	0%	8	\$ 35.00	\$ 33.45	\$ 68.45	\$ 547.60
	Sprinkler System W/Fire Pump & RBPB Detail								
55	4" Dia Ball Drip	EA	1	0%	1	\$ 25.00	\$ 16.24	\$ 41.24	\$ 41.24
56	4" Dia Check Valve	EA	1	0%	1	\$ 40.00	\$ 55.00	\$ 95.00	\$ 95.00
57	4" Dia Fire Department Connection	EA	1	0%	1	\$ 30.00	\$ 23.00	\$ 53.00	\$ 53.00
58	5" Storz Quick Connect Coupling	EA	1	0%	1	\$ 30.00	\$ 25.86	\$ 55.86	\$ 55.86
59	6" Dia Backflow Preventer, WILKINS RPDALM	EA	1	0%	1	\$ 300.00	\$ 4,817.00	\$ 5,117.00	\$ 5,117.00
60	6" Dia Ball Valve	EA	3	0%	3	\$ 55.00	\$ 88.00	\$ 143.00	\$ 429.00
61	6" Dia Gate Valve	EA	2	0%	2	\$ 55.00	\$ 88.00	\$ 143.00	\$ 286.00
62	6" Dia OS&Y Gate Valve	EA	1	0%	1	\$ 45.00	\$ 125.00	\$ 170.00	\$ 170.00
63	6" Dia Pump Test Header	EA	1	0%	1	\$ 45.00	\$ 202.00	\$ 247.00	\$ 247.00

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64	6" Dia Shut-Off Valve (Type assumed)	EA	2	0%	2	\$ 45.00	\$ 78.00	\$ 123.00	\$ 246.00
65	6" Dia Wet Pipe Alarm Check Valve	EA	1	0%	1	\$ 50.00	\$ 148.00	\$ 198.00	\$ 198.00
66	Tamper Switch	EA	4	0%	4	\$ 30.00	\$ 14.23	\$ 44.23	\$ 176.92
	Fire Service Main Pipe Entrance Detail								
67	6" Dia Cast Iron Bell And Spigot Piece	EA	1	0%	1	\$ 150.00	\$ 388.00	\$ 538.00	\$ 538.00
68	6" Dia Cast Iron Flange And Spigot Piece	EA	1	0%	1	\$ 150.00	\$ 488.00	\$ 638.00	\$ 638.00
69	8" Dia Pipe Sleeve	EA	1	0%	1	\$ 35.00	\$ 40.00	\$ 75.00	\$ 75.00
	Pipe Support								
70	1" Dia Adjustable Clevis Hanger	EA	469	0%	469	\$ -	\$ 6.29	\$ 6.29	\$ 2,950.01
71	2" Dia Adjustable Clevis Hanger	EA	19	0%	19	\$ -	\$ 8.25	\$ 8.25	\$ 156.75
72	3" Dia Adjustable Clevis Hanger	EA	10	0%	10	\$ -	\$ 11.23	\$ 11.23	\$ 112.30
73	4" Dia Adjustable Clevis Hanger	EA	197	0%	197	\$ -	\$ 13.92	\$ 13.92	\$ 2,742.24
74	6" Dia Adjustable Clevis Hanger	EA	62	0%	62	\$ -	\$ 15.22	\$ 15.22	\$ 943.64
75	1/2" Dia Threaded Rod (1 Ea = 1 FT)	EA	469	0%	469	\$ -	\$ 15.98	\$ 15.98	\$ 7,494.62
76	3/8" Dia Threaded Rod (1 Ea = 1 FT)	EA	226	0%	226	\$ -	\$ -	\$ -	\$ -
77	5/8" Dia Threaded Rod (1 Ea = 1 FT)	EA	62	0%	62	\$ -	\$ -	\$ -	\$ -
SUBTOTAL								\$	239,922
OVERHEAD AND PROFIT								7%	\$ 16,795
INSURANCE								3%	\$ 7,198
CONTINGENCY								3%	\$ 7,198
TAX								5%	\$ 11,996
TOTAL TRADE COST									\$ 283,108