		cialties	Daily	Labor-			2022 Bare Costs		Total
22 11	1 19.64 Hydrants	Crew	Output	Hours	Unit	Material	Labor Equipment	Total	Incl O&P
3600	For tapped drain port in box, add				Ea.	141		141	155
5000	Moderate climate, all bronze, polished face								
5020	and scoriated cover, set flush								
5100	3/4" IPS connection	1 Plum	16	.500	Ea.	1,100	35	1,135	1,250
5120	1" IPS connection	"	14	.571		2,500	40	2,540	2,800
5200	For tapped drain port in box, add				+	157	The second secon	157	172
22 '	11 23 - Domestic Water Pumps								
22 1	1 23.10 General Utility Pumps								
0010	GENERAL UTILITY PUMPS				***				
2000	Single stage								
3000	Double suction,								
3190	75 HP, to 2,500 GPM	· Q-3	.28	114	Ea.	26,500	7,600	34,100	40,400
3220	100 HP, to 3,000 GPM		.26	123		34,000	8,175	42,175	49,600
3240	150 HP, to 4,000 GPM	i i	.24	133		35,500	8,850	44,350	52,500
	13 16 - Sanitary Waste and Vent Pip 3 16.20 Pipe, Cast Iron PIPE, CAST IRON, Soil, on clevis hanger assemblies, 5' OC	oing .	_ ~~						
0020	Single hub, service wt., lead & oakum joints 10' OC								
2120	2" diameter	Q-1	63	.254	L.F.	17.15	15.95	33.10	43
2140	3" diameter		60	.267		22.50	16.75	39.25	49.50
2160	4" diameter •	1 1		.291		29	18.30	47.30	59.50
			55	1 .4/1		L 27	10.30	47.30	37.30
		1 Q-2				31		51.50	
2180	5" diameter	Q-2	76	.316		31 1	20.50		64.50
2180 2200	5″ diameter 6″ diameter	[ "	76 73	.316		31 1 49.50 l	20.50	51.50   71	64.50 86.50
2180 2200 2220	5" diameter 6" diameter 8" diameter		76	.316		31   49.50   79.50	20.50   [ 21.50   ] 36   [	51.50   71   115.50	64.50
2180 2200 2220 2240	5" diameter 6" diameter 8" diameter 10" diameter	[ "	76 73 59 54	.316 .329 .542 .593		31     49.50     79.50	20.50	51.50   71   115.50   169.50	64.50 86.50 141 202
2180 2200 2220 2240 2260	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter	[ "	76 73 59	.316	-	31 49.50 79.50 130 187	20.50   [ 21.50   ] 36   [	51.50   71   115.50	64.50 86.50
2180 2200 2220 2240 2260 2320	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add	[ "	76 73 59 54	.316 .329 .542 .593		31   49.50   79.50   130   187   10%	20.50	51.50   71   115.50   169.50	64.50 86.50 141 202
2180 2200 2220 2240 2260 2320 2340	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add	[ "	76 73 59 54	.316 .329 .542 .593		31   49.50   79.50   130   187   10%   48%	20.50	51.50   71   115.50   169.50	64.50 86.50 141 202
2180 2200 2220 2240 2260 2320 2340 2360	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add	Q3	76 73 59 54 48	.316 .329 .542 .593 .667	Lb.	31   49.50   79.50   130   187   10%   48%   71%	20.50	51.50 71 115.50 169.50 231.50	64.50 86.50 141 202 272
2180 2200 2220 2240 2260 2320 2340 2360 2400	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For catta heavy, double hub, add Lead for caulking (1#/diam. in.)	[ "	76 73 59 54 48 1	.316 .329 .542 .593 .667	Lb.	31   49.50   79.50   130   187   10%   48%   71%   1.10	20.50	51.50 71 115.50 169.50 231.50	64.50 86.50 141 202 272
2180 2200 2220 2240 2260 2320 2340 2360 2400 2420	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For caulking (1#/diam. in.) 0akum for caulking (1/8#/diam. in.)	[ "	76 73 59 54 48	.316 .329 .542 .593 .667	Lb. "	31   49.50   79.50   130   187   10%   48%   71%	20.50	51.50 71 115.50 169.50 231.50	64.50 86.50 141 202 272
2180 2200 2220 2240 2260 2320 2340 2360 2400	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC	[ "	76 73 59 54 48 1	.316 .329 .542 .593 .667	,	31   49.50   79.50   130   187   10%   48%   71%   1.10	20.50	51.50 71 115.50 169.50 231.50	64.50 86.50 141 202 272
2180 2200 2220 2240 2260 2320 2340 2360 2400 2420 4000 4100	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For caulking (1#/diam. in.) 0akum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter	[ "   Q-3	76 73 59 54 48 1 160 40	.316   .329   .542   .593   .667   .100   .400	L.F.	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47	20.50	51.50 71 115.50 169.50 231.50 7.40 29.47	64.50 86.50 141 202 272 10.55 42.50
2180 2200 2220 2240 2260 2320 2340 2360 2400 2420 4000 4100 4120	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter	[ "   Q-3	76 73 59 54 48 48 1 160 1 40	316 329 542 593 .667 100 400	,	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10	20.50	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50
2180 2200 2220 2240 2260 2320 2340 2360 2400 2420 4000 4100	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For caulking (1#/diam. in.) 0akum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter	[ "   Q-3	76 73 59 54 48 1 160 40	.316   .329   .542   .593   .667   .100   .400	,	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47	20.50	51.50 71 115.50 169.50 231.50 7.40 29.47	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50
2180 2200 2220 2240 2360 2320 2340 2400 2420 4000 4120 4140 4160	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For extra heavy, double hub, add Lead for caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter	[ "   Q-3	76 73 59 54 48 48 1 160 40	.316 .329 .542 .593 .667 .100 .400	,	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70	20.50	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50
2180 2200 2220 2240 2360 2320 2340 2400 2420 4000 4100 4120 4140 4160	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter	[ "   Q-3	76 73 59 54 48 48 1 160 40	.316 .329 .542 .593 .667 .100 .400	,	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70	20.50	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50
2180 2200 2220 2240 2360 2340 2360 2400 2420 4000 4100 4120 4140 4160	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For extra heavy, double hub, add Lead for caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter 4" diameter 4" diameter	[ "   Q-3	76 73 59 54 48 48 1 160 40	.316 .329 .542 .593 .667 .100 .400	,	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70	20.50	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50
2180 2200 2220 2240 2260 2320 2340 2360 2400 2420 4000 4120 4140 4160 <b>22 13</b>	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For cauth heavy, double hub, add Lead for cauthing (1#/diam. in.) Oakum for cauthing (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter 4" diameter 4" diameter 4" diameter	[ "   Q-3	76 73 59 54 48 48 1 160 40	.316 .329 .542 .593 .667 .100 .400	,	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70	20.50	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50
2180 2200 2220 2240 2320 2340 2360 2400 2420 4000 4120 4140 4160 22 13	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For catra heavy, double hub, add Lead for caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter 4" diameter 4" diameter 4" diameter 5 Shower Drains Shower, with strainer, uniform diam. trap, bronze top	Q1	76 73 59 54 48 160 40 71 67 64 58	.316 .329 .542 .593 .667 .100 .400 .225 .239 .250 .276	L.F.	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70   15.45	20.50   21.50   36   39.50   44.50   4%   6.30   25   14.15   15.70   17.35   17.35	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40 32.80	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50 43
2180 2200 2220 2240 2320 2340 2360 2400 2420 4100 4120 4140 4160 222 13 0010 2800	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For extra heavy, double hub, add Lead for caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter 4" diameter 4" diameter 4" diameter 4" diameter 4" diameter 4" diameter	Q-1 Q-1 Q-1	76 73 59 54 48 160 40 71 67 64 58	.316 .329 .542 .593 .667 .100 .400 .225 .239 .250 .276	L.F.	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70   15.45	20.50   21.50   36   39.50   44.50   44.50   25   14.15   15.70   17.35   126	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40 32.80	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50 43
2180 2220 2220 2240 2320 2340 2360 2420 4000 4120 4140 4160 <b>22 13</b> 0010 2780 2820 2840	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For extra heavy, double hub, add Lead for caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter 4" diameter	Q-1 Q-1 Q-1	76 73 59 54 48 160 40 71 67 64 58	.316 .329 .542 .593 .667 .100 .400 .225 .239 .250 .276	L.F.	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70   15.45   500   570   570	20.50   21.50   36   39.50   44.50   44.50   25   14.15   15.70   17.35   126	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40 32.80	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50 43
2180 2220 2220 2240 2320 2340 2360 2420 4000 4120 4140 4160 <b>22 13</b> 0010 2780 2820 2840	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For cauth heavy, double hub, add Lead for cauthing (1#/diam. in.) Oakum for cauthing (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter 4" diameter	Q-1 Q-1 Q-1	76 73 59 54 48 160 40 71 67 64 58	.316 .329 .542 .593 .667 .100 .400 .225 .239 .250 .276	L.F.	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70   15.45   500   570   570	20.50   21.50   36   39.50   44.50   44.50   25   14.15   15.70   17.35   126	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40 32.80	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50 43
2180 2220 2220 2240 2320 2340 2360 2400 2420 4100 4120 4140 4160 22 1: 0010 2780 2820 2840 292 1: 0010	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For catra heavy, double hub, add Lead for caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter 4" diameter	Q-1 Q-1 Q-1	76 73 59 54 48 160 40 71 67 64 58	.316 .329 .542 .593 .667 .100 .400 .225 .239 .250 .276	L.F.	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70   15.45   500   570   570	20.50   21.50   36   39.50   44.50   44.50   25   14.15   15.70   17.35   126	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40 32.80	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50 43
2180 2200 2220 2240 2320 2340 2360 2400 4100 4120 4140 4160 <b>22 1</b> 3 0010 2780 2800 2820 2840	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add Lead for caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter 4" diameter 4" diameter 4" diameter 4" diameter 4" pipe size For galvanized body, add  16.60 Traps TRAPS	Q-1 Q-1 Q-1	76 73 59 54 48 160 40 71 67 64 58	.316 .329 .542 .593 .667 .100 .400 .225 .239 .250 .276	L.F.	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70   15.45   500   570   570	20.50   21.50   36   39.50   44.50   44.50   25   14.15   15.70   17.35   126	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40 32.80	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50 43
2180 2200 2220 2240 2360 2340 2360 2400 4100 4120 4140 4160 22 13 0010 2780 2820 2840 22 13	5" diameter 6" diameter 8" diameter 10" diameter 12" diameter For service weight, double hub, add For extra heavy, single hub, add For extra heavy, double hub, add Lead for caulking (1#/diam. in.) Oakum for caulking (1/8#/diam. in.) No hub, couplings 10' OC 1-1/2" diameter 2" diameter 3" diameter 4" diameter 4" diameter 4" diameter 4" diameter 4" diameter 4" pipe size For galvanized body, add 3 16.60 Traps TRAPS Cast iron, service weight	Q-1 Q-1 Q-1	76 73 59 54 48 160 40 71 67 64 58	.316 .329 .542 .593 .667 .100 .400 .225 .239 .250 .276	L.F. Ea.	31   49.50   79.50   130   187   10%   48%   71%   1.10   4.47   8.65   9.10   11.70   15.45   500   570   570	20.50   21.50   36   39.50   44.50   44.50   25   14.15   15.70   17.35   126	51.50 71 115.50 169.50 231.50 7.40 29.47 22.80 24.10 27.40 32.80	64.50 86.50 141 202 272 10.55 42.50 30.50 32.50 36.50 43