

	DESCRIPTION	NOTES	UNITS	MATERIAL+EQUIPMENT	LABOR	TIME	DAILY OUTPUT	TOAL COST + OVERHEAD + %10 PROFIT	SOURCE
2 site earthwork	trenching	Trenching includes excavation, backfill & removal of soil & compaction	linear foot						R.S. Means
		2' wide 2' deep 3/8 c.y. bucket		0.93	1.7			2.63	
		3' deep 3/8 c.y. bucket		1.15	2.49			3.54	
		4' deep 3/8 c.y. bucket		1.36	3.28			4.64	
		6' deep 3/8 c.y. bucket		1.69	4.18			5.87	
		8' deep 1/2 c.y. bucket		1.98	5.3			7.28	
		10' deep 1 c.y. bucket		3.01	6.3			9.3	
		4' wide 2' deep 3/8 c.y. bucket		1.98	3.42			5.4	
		3' deep 3/8 c.y. bucket		2.8	5.1			7.9	
		4' deep 1/2 c.y. bucket		2.79	5.1			7.9	
		6' deep 1/2 c.y. bucket		3.56	7.75			11.3	
		8' deep 1/2 c.y. bucket		5.6	10			15.6	
		10' deep 1 c.y. bucket		6.25	12.4			18.66	
		6' wide 6' deep 5/8 c.y. bucket		7.25	10.75			18	
		8' deep 3/4 c.y. bucket		8.85	12.9			21.75	
		10" deep 1 c.y. bucket		9.5	15.5			25	
		12' deep 1-1/4 c.y. bucket		8.35	12.3			20.3	
	pipe bedding	Compacted bank sand is used to fill 12" over pipe, backfill is not included	linear foot						R.S. Means
		1' wide 6" diameter pipe		0.3	0.49			0.79	
		2' wide, 8" diameter pipe		0.57	1.09			1.76	
		10" diameter pipe		0.69	1.11			1.8	
		12" diameter pipe		0.71	1.15			1.86	
		3' wide, 14" diameter pipe		1.17	1.89			3.06	
		15" diameter pipe		1.18	1.9			3.08	
		16" diameter pipe		1.19	1.93			3.12	
	pedestrian paving	System includes excavation and compacted gravel base	linear foot						R.S. Means
		bituminous sidewalk							

		1" thick paving							
		4" gravel base,3/4' width		1.39/1.85	3.17/3.44			4.56/5.29	
		6" gravel base,3/4' width		1.76/2.34	3.33/3.5			5.09/5.99	
		2" thick							
		4" gravel base,3/4' width		2.06/2.74	3.84/4.28			5.90/7.02	
		6" gravel base,3/4' width		2.43/3.23	3.99/4.49			6.42/7.72	
		concrete sidewalk							
		4" thick concrete							
		4" gravel base, 3/4' width		5.2/6.9	8.6/10.65			13.8/17.55	
		6" gravel base, 3/4' width		5.55/7.4	8.75/10.85			14.3/18.25	
		6" thick concrete							
		4" gravel base, 3/4' width		7.65/10.2	9.8/12.15			17.45/22.35	
		6" gravel base,3/4' width		8/10.7	10/12.8			18/23.5	
		brick and tile pavers							
		brick pavers 4"x8"x2.25"							
		aggregate base,sand bedding		4.66	4.37			9.03	
		slab on grade, asphalt bedding		6.3	6.3			12.6	
		concrete paving stone 4"x8"x2.5"							
		gravel base, sand bedding		3.45	3.04			6.49	
		slab on grade, asphalt bedding		4.77	4.59			9.36	
		concrete patio block 8"x16"x2"							
		gravel base,sand bedding		3.26	3.99			7.25	
		slab on grade, asphalt bedding		4.78	5.85			10.63	
		granite pavers 3.5"x3.5"x3.5"							
		gravel base,sand bedding		9	9.8			18.8	
		slab on grade, asphalt bedding		10.45	13.05			23.5	
	site mechanical utilities	excavation & backfill excluded	linear foot						R.S. Means
		water distribution piping							
		iron class 250							
		4" diameter		13.75	12.85			26.6	
		6" diameter		15.95	16.05			32	
		8" diameter		17.65	19.2			36.85	
		copper tubing type K							
		.75" diameter		2.97	2.21			5.18	

	1" diameter		3.93	2.76			6.69	
	1.5" diameter		6.45	3.34			9.79	
	2" diameter		10	3.85			13.85	
	3" diameter		20.5	6.6			27.1	
	4" diameter		34	9.3			43.3	
	6" diameter		102	14.5			116.5	
	PVC class 160 S.D.R. 26							
	1.5" diameter		0.5	1.5			2	
	2" diameter		1.2	1.64			2.84	
	4" diameter		4.16	3			7.16	
	6" diameter		8.95	3.56			12.51	
	8" diameter		15.2	4.32			19.52	
	drainage and sewage							
	PVC plain							
	4" diameter		2.11	3			5.11	
	6" diameter		3.78	3.21			6.99	
	8" diameter		6.4	3.35			9.75	
	concrete non reinforced							
	6" diameter		4.54	8.75			13.29	
	8" diameter		5	10.35			15.35	
	10" diameter		5.55	10.75			16.3	
	12" diameter		6.8	11.65			18.45	
	corrugated metal, alum, or galv							
	8" diameter		9.85	7			16.85	
	10" diameter		11.8	8.9			20.7	
	12" diameter		14.15	11.1			25.25	
	15" diameter		17.2	11.65			28.85	
	gas fuel							
	steel schedule 40, plain end, tarred & wrapped							
	1" diameter		2.9	6.55			9.45	
	2" diameter		4.56	7			11.56	
	3" diameter		7.55	7.55			15.1	
	4" diameter		9.8	11.85			21.65	
	5" diameter		14.25	13.7			27.95	
	6" diameter		17	16.8			34.2	