

31 23 Excavation and Fill

31 23 16 – Excavation

31 23 16.13 Excavating, Trench		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
6080	4' to 6' deep, 1/2 C.Y. excavator	B-11M	220	.073	B.C.Y.		3.85	1.83	5.68	7.75
6090	5/8 C.Y. excavator	B-12Q	275	.058			3.17	2.65	5.82	7.65
6100	3/4 C.Y. excavator	B-12F	330	.048			2.64	2.65	5.29	6.85
6130	1/2 C.Y. excavator, truck mounted	B-12J	220	.073			3.96	3.90	7.86	10.20
6140	6' to 10' deep, 3/4 C.Y. excavator	B-12F	248	.065			3.52	3.52	7.04	9.15
6150	1 C.Y. excavator	B-12A	440	.036			1.98	2.07	4.05	5.25
6160	1 C.Y. excavator, truck mounted	B-12K	440	.036			1.98	3.38	5.36	6.65
6170	1-1/2 C.Y. excavator	B-12B	660	.024			1.32	1.50	2.82	3.62
6190	10' to 14' deep, 3/4 C.Y. excavator	B-12F	220	.073			3.96	3.97	7.93	10.25
6200	1 C.Y. excavator	B-12A	396	.040			2.20	2.30	4.50	5.80
6210	1-1/2 C.Y. excavator	B-12B	594	.027			1.47	1.66	3.13	4.02
6250	14' to 20' deep, 1 C.Y. excavator	B-12A	352	.045			2.48	2.59	5.07	6.55
6260	1-1/2 C.Y. excavator	B-12B	528	.030			1.65	1.87	3.52	4.52
6270	2-1/2 C.Y. excavator	B-12S	840	.019			1.04	1.60	2.64	3.31
6300	20' to 24' deep, 1 C.Y. excavator	B-12A	317	.050			2.75	2.88	5.63	7.25
6310	1-1/2 C.Y. excavator	B-12B	475	.034			1.84	2.08	3.92	5
6320	2-1/2 C.Y. excavator	B-12S	755	.021			1.15	1.78	2.93	3.67
6352	4' to 6' deep, 1/2 C.Y. excavator w/trench box	B-13H	209	.077			4.17	4.69	8.86	11.35
6354	5/8 C.Y. excavator	"	261	.061			3.34	3.76	7.10	9.10
6356	3/4 C.Y. excavator	B-13G	314	.051			2.78	3.18	5.96	7.60
6362	6' to 10' deep, 3/4 C.Y. excavator w/trench box	"	236	.068			3.69	4.23	7.92	10.15
6364	1 C.Y. excavator	B-13D	418	.038			2.09	2.48	4.57	5.85
6366	1-1/2 C.Y. excavator	B-13E	627	.026			1.39	1.77	3.16	4.02
6370	10' to 14' deep, 3/4 C.Y. excavator w/trench box	B-13G	209	.077	↓		4.17	4.77	8.94	11.45
6372	1 C.Y. excavator	B-13D	376	.043	B.C.Y.		2.32	2.75	5.07	6.50
6374	1-1/2 C.Y. excavator	B-13E	564	.028			1.55	1.97	3.52	4.47
6382	14' to 20' deep, 1 C.Y. excavator w/trench box	B-13D	334	.048			2.61	3.10	5.71	7.30
6384	1-1/2 C.Y. excavator	B-13E	502	.032			1.74	2.22	3.96	5.05
6386	2-1/2 C.Y. excavator	B-13J	790	.020			1.10	1.85	2.95	3.68
6392	20' to 24' deep, 1 C.Y. excavator w/trench box	B-13D	301	.053			2.90	3.44	6.34	8.10
6394	1-1/2 C.Y. excavator	B-13E	452	.035			1.93	2.46	4.39	5.60
6396	2-1/2 C.Y. excavator	B-13J	710	.023	↓		1.23	2.06	3.29	4.10
7020	Dense hard clay with no sheeting or dewatering included									
7050	1' to 4' deep, 3/8 C.Y. excavator	B-11C	132	.121	B.C.Y.		6.40	2.49	8.89	12.30
7060	1/2 C.Y. excavator	B-11M	176	.091			4.82	2.29	7.11	9.65
7080	4' to 6' deep, 1/2 C.Y. excavator	"	176	.091			4.82	2.29	7.11	9.65
7090	5/8 C.Y. excavator	B-12Q	220	.073			3.96	3.31	7.27	9.55
7100	3/4 C.Y. excavator	B-12F	264	.061			3.30	3.31	6.61	8.55
7130	1/2 C.Y. excavator, truck mounted	B-12J	176	.091			4.95	4.87	9.82	12.75
7140	6' to 10' deep, 3/4 C.Y. excavator	B-12F	198	.081			4.40	4.41	8.81	11.40
7150	1 C.Y. excavator	B-12A	352	.045			2.48	2.59	5.07	6.55
7160	1 C.Y. excavator, truck mounted	B-12K	352	.045			2.48	4.23	6.71	8.35
7170	1-1/2 C.Y. excavator	B-12B	528	.030			1.65	1.87	3.52	4.52
7190	10' to 14' deep, 3/4 C.Y. excavator	B-12F	176	.091			4.95	4.97	9.92	12.85
7200	1 C.Y. excavator	B-12A	317	.050			2.75	2.88	5.63	7.25
7210	1-1/2 C.Y. excavator	B-12B	475	.034			1.84	2.08	3.92	5
7250	14' to 20' deep, 1 C.Y. excavator	B-12A	282	.057			3.09	3.23	6.32	8.15
7260	1-1/2 C.Y. excavator	B-12B	422	.038			2.07	2.34	4.41	5.65
7270	2-1/2 C.Y. excavator	B-12S	675	.024			1.29	1.99	3.28	4.10
7300	20' to 24' deep, 1 C.Y. excavator	B-12A	254	.063			3.43	3.59	7.02	9.05
7310	1-1/2 C.Y. excavator	B-12B	380	.042			2.29	2.60	4.89	6.30
7320	2-1/2 C.Y. excavator	B-12S	605	.026	↓		1.44	2.22	3.66	4.59