

# 31 05 Common Work Results for Earthwork

## 31 05 13 – Soils for Earthwork

			Daily	Labor-			2022 Bare Costs			Total	Total
			Crew	Output	Hours	Unit	Material	Labor	Equipment		Incl O&P
31 05 13.10	Borrow										
0010	BORROW	R312316-40									
0020	Spread, 200 HP dozer, no compaction, 2 mile RT haul										
0200	Common borrow		B-15	600	.047	C.Y.	12.55	2.52	4.81	19.88	23
0700	Screened loam			600	.047		34	2.52	4.81	41.33	46.50
0800	Topsoil, weed free			600	.047		20.50	2.52	4.81	27.83	31.50
0900	For 5 mile haul, add		B-34B	200	.040			2.12	3.84	5.96	7.40

## 31 05 16 – Aggregates for Earthwork

31 05 16.10	Borrow										
0010	BORROW	R312316-40									
0020	Spread, with 200 HP dozer, no compaction, 2 mile RT haul										
0100	Bank run gravel		B-15	600	.047	L.C.Y.	27.50	2.52	4.81	34.83	39
0300	Crushed stone (1.40 tons per C.Y.), 1-1/2"			600	.047		20.50	2.52	4.81	27.83	31.50
0320	3/4"			600	.047		20.50	2.52	4.81	27.83	31.50
0340	1/2"			600	.047		18.55	2.52	4.81	25.88	29.50
0360	3/8"			600	.047		23	2.52	4.81	30.33	34
0400	Sand, washed, concrete			600	.047		18.75	2.52	4.81	26.08	29.50
0500	Dead or bank sand			600	.047		13.70	2.52	4.81	21.03	24
0600	Select structural fill		B-15	600	.047	L.C.Y.	16.25	2.52	4.81	23.58	27
0900	For 5 mile haul, add		B-34B	200	.040	"		2.12	3.84	5.96	7.40

## 31 05 23 – Cement and Concrete for Earthwork

31 05 23.30	Plant Mixed Bituminous Concrete										
0010	PLANT MIXED BITUMINOUS CONCRETE										
0020	Asphaltic concrete plant mix (145 lb./C.F.)					Ton	68			68	75
0040	Asphaltic concrete less than 300 tons add trucking costs										
0200	All weather patching mix, hot					Ton	64.50			64.50	71
0250	Cold patch						85			85	93.50
0300	Berm mix						69.50			69.50	76.50

# 31 06 Schedules for Earthwork

## 31 06 60 – Schedules for Special Foundations and Load Bearing Elements

31 06 60.14	Piling Special Costs										
0010	PILING SPECIAL COSTS										
0011	Piling special costs, pile caps, see Section 03 30 53.40										
0500	Cutoffs, concrete piles, plain		1 Pile	5.50	1.455	Ea.		84.50		84.50	131
0600	With steel thin shell, add			38	.211			12.25		12.25	18.95
0700	Steel pile or "H" piles			19	.421			24.50		24.50	38
0800	Wood piles			38	.211			12.25		12.25	18.95
0900	Pre-augering up to 30' deep, average soil, 24" diameter		B-43	180	.267	L.F.		13.40	4.37	17.77	25
0920	36" diameter			115	.417			21	6.85	27.85	39
0960	48" diameter			70	.686			34.50	11.25	45.75	64
0980	60" diameter			50	.960			48.50	15.70	64.20	89.50
1000	Testing, any type piles, test load is twice the design load										
1050	50 ton design load, 100 ton test					Ea.				14,000	15,500
1100	100 ton design load, 200 ton test									20,000	22,000
1150	150 ton design load, 300 ton test									26,000	28,500
1200	200 ton design load, 400 ton test									28,000	31,000
1250	400 ton design load, 800 ton test									32,000	35,000
1500	Wet conditions, soft damp ground										
1600	Requiring mats for crane, add									40%	40%
1700	Barge mounted driving rig, add									30%	30%