

EARTHWORK SUMMARY

DAVIS RD; MP5
COCHISE COUNTY

PROJECT NO. 000 CH CCH T0497 01C
FEDERAL AID NO. CCH-0(207)T

Prepared for:

ARIZONA DEPARTMENT OF TRANSPORTATION



Prepared by:



September 2026

EARTHWORK QUANTITIES – END AREA VOLUME (CY)	
Excavation	
Roadway Excavation	1,667
Detour Excavation	531
Drainage Excavation	783
Structural Excavation	1,729
Total Excavation (10% shrink)	4,710
Embankment	
Roadway Embankment	25,615
Detour Embankment	1,008
Pipe Backfill	12
Total Embankment/Fill	26,635
Net Earthwork	
Total Borrow	21,925

EARTHWORK QUANTITIES – SURFACE COMPARISON (CY)	
Excavation	
Roadway Excavation	1,661
Detour Excavation	531
Drainage Excavation	783
Structural Excavation	1,729
Total Excavation (10% shrink)	4,704
Embankment	
Roadway Embankment	26,537
Detour Embankment	1,008
Pipe Backfill	12
Total Embankment/Fill	27,557
Net Earthwork	
Total Borrow	22,853

Notes:

1. The earthwork estimate obtained by the surface comparison method was used to determine the Borrow & Excavation volumes shown in the Davis Rd Plans & Cost Estimate.
2. All excavation volumes shown include a 10% shrinkage factor.

End Area Volume Report									
Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
252+10.000	81.89	0.00	0.00	3.85	0.00	0.00	0.00	0.00	0.00
252+50.000	73.11	103.33	103.33	6.27	7.50	103.33	103.33	7.50	95.84
253+00.000	65.44	115.45	115.45	13.30	18.13	218.79	218.79	25.62	193.16
253+50.000	60.73	105.14	105.14	21.13	31.89	323.92	323.92	57.51	266.41
254+00.000	68.04	107.30	107.30	30.40	47.72	431.22	431.22	105.23	325.99
254+50.000	62.11	107.26	107.26	41.07	66.80	538.48	538.48	172.03	366.45
255+00.000	31.31	76.81	76.81	80.72	113.66	615.29	615.29	285.68	329.61
255+50.000	28.23	48.85	48.85	102.00	170.40	664.14	664.14	456.09	208.05
256+00.000	19.78	39.39	39.39	111.51	199.09	703.53	703.53	655.17	48.36
256+50.000	16.66	29.90	29.90	127.95	223.22	733.43	733.43	878.40	-144.97
257+00.000	11.67	23.25	23.25	139.46	249.14	756.68	756.68	1127.54	-370.86
257+50.000	6.59	14.98	14.98	151.07	270.55	771.66	771.66	1398.09	-626.42
258+00.000	7.18	11.29	11.29	190.19	317.73	782.96	782.96	1715.81	-932.86
258+50.000	3.83	9.03	9.03	179.48	344.07	791.99	791.99	2059.89	-1267.90
259+00.000	1.13	4.13	4.13	167.58	321.35	796.12	796.12	2381.23	-1585.11
259+50.000	2.75	3.23	3.23	130.36	275.87	799.35	799.35	2657.10	-1857.75
260+00.000	5.52	6.89	6.89	100.98	214.21	806.24	806.24	2871.31	-2065.07
260+50.000	5.04	8.80	8.80	78.70	166.38	815.04	815.04	3037.69	-2222.64
261+00.000	13.80	15.70	15.70	49.23	118.46	830.74	830.74	3156.14	-2325.41
261+50.000	11.08	20.73	20.73	36.20	79.10	851.47	851.47	3235.25	-2383.78
262+00.000	22.35	27.86	27.86	22.50	54.35	879.33	879.33	3289.60	-2410.27
262+50.000	16.69	32.53	32.53	20.92	40.20	911.86	911.86	3329.80	-2417.94
263+00.000	23.63	33.60	33.60	13.23	31.62	945.46	945.46	3361.42	-2415.96
263+50.000	29.00	43.86	43.86	13.62	24.87	989.31	989.31	3386.28	-2396.97
264+00.000	18.63	39.69	39.69	21.95	32.94	1029.00	1029.00	3419.22	-2390.22
264+50.000	6.86	21.24	21.24	49.74	66.38	1050.24	1050.24	3485.60	-2435.36
265+00.000	2.14	7.50	7.50	72.00	112.72	1057.75	1057.75	3598.32	-2540.58
265+50.000	3.26	4.51	4.51	86.20	146.48	1062.25	1062.25	3744.80	-2682.55
266+00.000	4.57	6.42	6.42	105.50	178.45	1068.67	1068.67	3923.25	-2854.58
266+50.000	7.24	9.68	9.68	104.05	195.27	1078.35	1078.35	4118.51	-3040.17
267+00.000	1.97	7.55	7.55	143.46	230.59	1085.90	1085.90	4349.11	-3263.21
267+50.000	0.05	1.66	1.66	173.79	295.24	1087.55	1087.55	4644.35	-3556.80
268+00.000	0.00	0.04	0.04	207.59	354.77	1087.59	1087.59	4999.12	-3911.53
268+50.000	0.00	0.00	0.00	235.05	411.55	1087.59	1087.59	5410.67	-4323.08

269+00.000	0.00	0.00	0.00	280.42	479.17	1087.59	1087.59	5889.85	-4802.26
269+50.000	0.00	0.00	0.00	310.34	549.28	1087.59	1087.59	6439.12	-5351.53
270+00.000	0.00	0.00	0.00	329.83	595.31	1087.59	1087.59	7034.44	-5946.85
270+50.000	0.00	0.00	0.00	354.97	636.90	1087.59	1087.59	7671.34	-6583.75
271+00.000	0.00	0.00	0.00	352.78	658.09	1087.59	1087.59	8329.43	-7241.84
271+50.000	0.00	0.00	0.00	374.78	676.05	1087.59	1087.59	9005.48	-7917.89
272+00.000	0.00	0.00	0.00	411.86	730.65	1087.59	1087.59	9736.14	-8648.55
272+50.000	0.00	0.00	0.00	485.43	833.36	1087.59	1087.59	10569.50	-9481.91
273+00.000	27.44	22.41	22.41	507.13	923.30	1110.00	1110.00	11492.80	-10382.80
273+50.000	50.30	64.38	64.38	541.83	975.24	1174.38	1174.38	12468.05	-11293.67
274+00.000	18.65	57.84	57.84	515.67	979.16	1232.22	1232.22	13447.21	-12214.99
274+50.000	0.00	15.87	15.87	671.79	1099.59	1248.09	1248.09	14546.79	-13298.71
275+00.000	0.00	0.00	0.00	740.71	1309.89	1248.09	1248.09	15856.69	-14608.60
275+50.000	0.00	0.00	0.00	782.40	1412.36	1248.09	1248.09	17269.05	-16020.96
276+00.000	0.00	0.00	0.00	734.74	1407.86	1248.09	1248.09	18676.90	-17428.82
276+50.000	0.00	0.00	0.00	691.05	1324.29	1248.09	1248.09	20001.19	-18753.11
277+00.000	0.00	0.00	0.00	611.40	1210.43	1248.09	1248.09	21211.63	-19963.54
277+50.000	0.00	0.00	0.00	517.02	1049.18	1248.09	1248.09	22260.81	-21012.72
278+00.000	0.00	0.00	0.00	446.33	896.19	1248.09	1248.09	23157.00	-21908.91
278+50.000	0.00	0.00	0.00	408.54	795.14	1248.09	1248.09	23952.14	-22704.05
279+00.000	0.00	0.00	0.00	362.00	716.15	1248.09	1248.09	24668.29	-23420.20
279+50.000	0.00	0.00	0.00	278.15	594.76	1248.09	1248.09	25263.05	-24014.96
280+00.000	0.00	0.00	0.00	181.37	427.35	1248.09	1248.09	25690.39	-24442.31
280+50.000	0.00	0.00	0.00	141.00	300.46	1248.09	1248.09	25990.86	-24742.77
281+00.000	0.00	0.00	0.00	119.87	243.39	1248.09	1248.09	26234.25	-24986.16
281+50.000	0.00	0.00	0.00	110.77	215.25	1248.09	1248.09	26449.50	-25201.41
282+00.000	0.00	0.00	0.00	93.50	190.69	1248.09	1248.09	26640.19	-25392.10
282+50.000	2.21	1.83	1.83	88.94	170.45	1249.92	1249.92	26810.64	-25560.72
283+00.000	2.93	4.26	4.26	72.89	151.17	1254.18	1254.18	26961.82	-25707.64
283+50.000	4.33	6.05	6.05	55.58	118.95	1260.23	1260.23	27080.77	-25820.54
284+00.000	6.72	9.22	9.22	37.53	86.21	1269.45	1269.45	27166.98	-25897.53
284+50.000	14.56	17.74	17.74	19.52	52.82	1287.19	1287.19	27219.80	-25932.62
285+00.000	38.95	44.59	44.59	8.71	26.14	1331.78	1331.78	27245.94	-25914.16
285+50.000	65.21	86.79	86.79	6.82	14.38	1418.57	1418.57	27260.32	-25841.75
286+00.000	73.53	115.61	115.61	7.02	12.82	1534.18	1534.18	27273.14	-25738.96
286+47.992	92.38	132.71	132.71	3.38	9.25	1666.89	1666.89	27282.39	-25615.50