

Quantities calculated for each separate culvert site for use in funding splits in the General Summary.

PID 108471

EDG Project No. 20-00270-010

Pavement Quantity Calculations (Office Calcs) - Tracings

Calc by: RMS Stage 1

Check by: RSW Stage 1

Update by: RMS 6/3/22 Stage 2

Update by: SAC 9/14/2022 Stage 3

Update by: SAC 5/12/2023 Tracings

STATION	SIDE	LENGTH L	EXISTING AVERAGE PAVEMENT WIDTH C (CADD)	PROPOSED AVERAGE PAVEMENT WIDTH W	EXISTING PAVEMENT AREA AC = L x C	PROPOSED PAVEMENT SURFACE AREA AS = L x W	PROPOSED PAVEMENT AREA STEP 1 AS1 = AP + (L x 8 / 12)	PROPOSED PAVEMENT AREA STEP 2 AS2 = AS1 + (L x 12 / 12)	PROPOSED PAVEMENT AREA STEP 3 AS3 = AS2 + (L x 12 / 12)	Number on Typical Sections =>											
										Ext. =>	N/A 23000	N/A 32000	5 10000	3 56000	4 20000	2 10000	1 70101	10000	7 (14.99 only) 26000		
TO	FROM	FT	FT	FT	SF	SF	SF	SF	SF	PAVEMENT REMOVED <u>AC</u> 9	CURB REMOVED L	SUBGRADE COMPACTION <u>AS3</u> 9	7" ASPHALT CONCRETE BASE, PG64-22, (449) <u>(AS1x3.5)+(AS2x3.5)</u> 12 x 27	8" ASPHALT CONCRETE BASE, PG64-22, (449) <u>(AS1x4)+(AS2x4)</u> 12 x 27	9" ASPHALT CONCRETE BASE, PG64-22, (449) <u>(AS1x4.5)+(AS2x4.5)</u> 12 x 27	6" AGGREGATE BASE <u>AS3 x 6</u> 12 x 27	TACK COAT (NEW ASPHALT) (AVE. RATE = 0.055 GAL/SY) <u>3 x (AS1 x 0.055)</u> 9	3" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449) PG70-22M, AS PER PLAN, <u>AS1 x 3</u> 12 x 27	ASPHALT CONCRETE CURB, TYPE 1 L	CURB, TYPE 6 L	
SY	FT	SY	CY	CY	CY	GAL	CY	FT	FT												
GEA-86-0.38																					
19+39.00	19+69.00	LT/RT	30.00	24.63	24.86	738.9	745.8	765.80	795.80	825.80	82.10		91.76	16.87		15.29	14.04	6.91			
GEA-86-0.38 SUBTOTALS											82		92	17		15	14	7			
GEA-87-0.41																					
21+06.00	21+46.00	LT/RT	40.00	29.32	29.85	1172.8	1194.0	1220.67	1260.67	1300.67	130.31		144.52	30.63		24.09	22.38	11.06			
GEA-87-0.41 SUBTOTALS											130		145	31		24	22	11			
GEA-422-14.29																					
744+60.00	745+02.00	LT/RT	42.00	33.90	33.82	1423.8	1420.4	1448.44	1490.44	1532.44	158.20		170.27		40.82	28.38	26.55	13.15			
GEA-422-14.29 SUBTOTALS											158		170		41	28	27	13			
GEA-422-14.99																					
(2)	(2)	(3)			(CADD)	(CADD)	(4)	(4)	(4)			AS3+(Lx6/12) 9		AS2 x 9 12 x 27	[AS3+(Lx6/12)]x6 12 x 27						(5)
781+81.56	781+93.08	LT/RT	11.52			978.47	979.19	983.03	988.79	1004.15	108.72	24.15	112.21	27.47	18.70	18.02	11.83	5.98			24.15
781+93.08	782+14.29	LT	21.21			643.99	645.47	645.47	645.47	645.47	71.55	26.41	72.90	17.93	12.15	11.83	5.98				26.41
GEA-422-14.99 SUBTOTALS											180	51	185		45	31	30	15			51
GEA-700-1.72																					
89+88.00	90+28.00	LT/RT	40.00	25.28	25.29	1011.2	1011.6	1038.27	1078.27	1118.27	112.36		124.25	26.13		20.71	19.03	9.37			
GEA-700-1.72 SUBTOTALS											112		124	26		21	19	9			
GEA-700-7.61																					
400+78.00	401+18.00	LT/RT	40.00	23.09	23.10	923.6	924.0	950.67	990.67	1030.67	102.62		114.52	23.97		19.09	17.43	8.56			
GEA-700-7.61 SUBTOTALS											103		115	24		19	17	9			
LAKE-84-27.10																					
100+03.00	100+75.00	LT/RT	72.00	36.2	36.18	2606.4	2605.0	2652.96	2724.96	2796.96	289.60		310.77	66.39		51.80	48.64	24.12			
100+03.00	101+22.00	LT	125.00									(5) 125.00									
100+57.00	100+85.00	RT	28.00									28.00									
100+03.00	101+20.00	LT	124.00																		124.00
100+03.00	101+20.00	RT	118.00																		118.00
LAK-84-27.10 SUBTOTALS											290	153	311	0	66	0	52	49	24	242	0
LAKE-608-3.10																					
99+59.00	99+71.00	LT/RT	12.00	24.14	24.16	289.7	289.9	297.92	309.92	321.92	32.19		35.77	6.57		5.96	5.46	2.68			
LAK-608-3.10 SUBTOTALS											32		36	7		6	5	3			
TOTALS CARRIED TO GENERAL SUMMARY											1087	204	1178		257		196	183	91	242	51

NOTES: (CADD) Length or Area measured by CADD in the basemap drawings.
(1) See typical sections for step dimensions.
(2) Stations are measured at the location where the skewed (projected) section intersects the CL R/W.
(3) Length is measured along the perpendicular for the region, as the replacement is skewed.
(4) Pavement steps only apply to one side due to confinement by the curb.
(5) Curb removal and replacement is measured along the face of curb by CADD.
(6) Per D12 Stage 3 comment, add a layer of tack coat between the lifts in the surface course and the asphalt base layers.