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PROJECT REFERENCE NO. R-2707D SHEET NO. 3B-1

SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L- 635+00.00 TO 662+00.00	20,699		211,186	190,487	
SUBTOTAL	20,699		211,186	190,487	
-L- 662+00.00 TO 690+00.00	102,372		140,371	37,999	
-Y1- 10+00.00 TO 18+82.63	771		20,235	19,464	
-Y1- 20+80.38 TO 29+30.30	2,669		1,295		1,374
-SRVRD1- 10+12.03 TO 25+80.19	1,402		5,315	3,913	
-DET2- 10+00.00 TO 12+94.38			6,212	6,212	
-DET2- 10+00.00 TO 12+94.38 (REMOVAL)	1,224				1,224
SUBTOTAL	108,438		173,429	67,589	2,598
-L- 690+00.00 TO 720+00.00	179,290		81,162		98,128
-Y2- 11+00.00 TO 19+16.80	2,170		9,347	7,177	
-Y2- 21+18.64 TO 32+23.90	1,518	500	2,064	946	900
-Y6- 8+35.00 TO 9+88.00	147		10		137
SUBTOTAL	183,125	500	92,584	8,123	99,164
-L- 720+00.00 TO 750+00.00	213,415	5,300	302,861	89,846	5,700
SUBTOTAL	213,415	5,300	302,861	89,846	5,700
-L- 750+00.00 TO 780+00.00	683,485		166,935		516,550
-Y3- 12+00.00 TO 22+28.97	36,688		913		35,775
-Y3- 24+47.80 TO 32+00.00	18,640		508		18,132
-Y7- 9+10.00 TO 9+88.00	18				18
-PVTENT1- 5+65.72 TO 9+88.00	1,115		6		1,109
-PVTENT2- 10+12.00 TO 14+20.00	413		58		356
-PVTENT6- 10+12.00 TO 12+50.00	3,107				3,107
SUBTOTAL	743,466		168,420		575,046
-L- 780+00.00 TO 809+41.25	115,313		324,821	209,508	
SUBTOTAL	115,313		324,821	209,508	
-L- 810+60.83 TO 840+50.00	427,535		88,267		339,268
-SRVRD4- 9+78.55 TO 20+20.00	38,382		3,534		34,848
-SRVRD5- 10+10.00 TO 22+96.49	64,814	3,250	4,204		63,860
-SRVRD5A- 10+00.00 TO 13+38.14	14,008		173		13,836
-RAMP C- 16+73.42 TO 19+63.63	31,382				31,382
-RAMP A- 16+00.00 TO 35+63.63	34,798		397,741	362,943	
-RAMP A- 37+95.88 TO 48+50.00	22,699		14,033		8,666
-LOOP A- 13+50.00 TO 17+75.52	1,425		43,936	42,511	
-SRVRD3- 12+00.00 TO 24+50.00	8,834		3,380		5,454
-PVTENT4- 10+25.00 TO 12+80.00	3,420		3		3,417
SUBTOTAL	647,297	3,250	555,272	405,454	500,729
-Y4- 9+90.00 TO 12+50.00	305		41		264
-Y4- 17+50.00 TO 21+50.00	5,135				5,135
-Y5- RT 32+50.00 TO 41+50.00	740		642		98
-PVTENT5- RT 10+25.00 TO 11+10.00	69				69
SUBTOTAL	6,249		683		5,566
-Y5- LT 32+50.00 TO 41+50.00	1,105		189		916
-RAMP D- 19+65.71 TO 27+00.00	54,946		133		54,813
SUBTOTAL	56,051		322		55,729

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L- LT 840+50.00 TO 847+40.00			19,631	19,631	
SUBTOTAL			19,631	19,631	
-L- MED 840+50.00 TO 847+40.00			7,105	7,105	
SUBTOTAL			7,105	7,105	
-L- RT 840+50.00 TO 847+40.00	10,435		8,058		2,377
SUBTOTAL	10,435		8,058		2,377
-L- LT 850+60.00 TO 851+00.000			1,209	1,209	
SUBTOTAL			1,209	1,209	
-L- MED 850+60.00 TO 851+00.000			222	222	
SUBTOTAL			222	222	
-L- RT 850+60.00 TO 851+00.000			961	961	
SUBTOTAL			961	961	
PROJECT SUBTOTAL (R-2707D)	2,104,488	9,050	1,867,971	1,000,134	1,246,910
FILL IN EXISTING CHANNEL (R-2707D)			426	426	
LOSS DUE TO CLEARING AND GRUBBING (R-2707D)	-50,000				-50,000
ADDITIONAL UNDERCUT (R-2707D)		11,300	12,995	12,995	11,300
WASTE IN LIEU OF BORROW (R-2707D)				-1,013,555	-1,013,555
PROJECT TOTALS	2,054,488	20,350	1,881,392	-	194,655
R-2707D SAY	2,054,500			-	
R-2707E SAY	246,000			755,000	
MATERIAL FOR SHOULDER CONSTRUCTION (R-2707D)			23,920	23,920	
WASTE IN LIEU OF BORROW (R-2707D)				-194,655	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				1,196	
GRAND TOTAL	2,300,500			585,461	
R-2707D & R-2707E COMBINED SAY	2,310,000			590,000	

EST. DDE = 32,080 CY (R-2707D) + 8,600 CY (R-2707E) = 40,680 CY (GRAND TOTAL)
 EST. SHALLOW UNDERCUT = 1,000 CY (R-2707D) + 2,600 CY (R-2707E) = 3,600 CY (GRAND TOTAL)
 EST. CLASS IV SUBGRADE STABILIZATION = 2,000 TONS (R-2707D) + 5,200 TONS (R-2707E) = 7,200 TONS (GRAND TOTAL)
 PAVEMENT STRUCTURE VOLUME = 128,400 CY (R-2707D) + 28,900 CY (R-2707E) = 157,300 CY (GRAND TOTAL)

Earthwork quantities are calculated by the Engineer. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.