

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
SUMMARY OF EARTHWORK
 IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L- 382 + 00.00	0	0	0	0	0
SUBTOTAL	0	0	0	0	0
-L- 386 + 50.00	909,138	0	78,330	0	830,808
-Y2- 21 + 75.00	688	0	11,552	10,864	0
-Y2- 30 + 14.49	4,856	0	137	0	4,719
SUBTOTAL	914,682	0	90,019	10,864	835,527
-L- 416 + 00.00	616,275	0	26,162	0	590,113
SUBTOTAL	616,275	0	26,162	0	590,113
-L- 444 + 50.00	303,705	0	171,834	0	131,871
-Y3- 16 + 15.00	922	0	1,082	160	0
-Y3- 21 + 63.23	3,666	0	1,610	0	2,056
SUBTOTAL	308,293	0	174,526	160	133,927
-L- 470 + 00.00	339,141	0	99,795	0	239,346
SUBTOTAL	339,141	0	99,795	0	239,346
-Y4-REV 15 + 02.00	742	0	2,482	1,740	0
-Y4-REV 25 + 39.00	1,602	0	13,931	12,329	0
-Y18- 12 + 00.00	855	0	764	0	91
SUBTOTAL	3,199	0	17,177	14,069	91
-L- 495 + 00.00	44,775	1,500	329,635	284,860	1,500
SUBTOTAL	44,775	1,500	329,635	284,860	1,500
-Y6A- 10 + 00.00	3,376	0	2,537	0	839
-DR3- 10 + 20.00	42	0	18	0	24
SUBTOTAL	3,418	0	2,555	0	863
-Y8-REV 10 + 50.00	3,196	0	20,761	17,565	0
-Y8A- 33 + 00.00	464	0	500	36	0
-Y9- DET 12 + 00.00	4,640	0	5,793	1,153	0
SUBTOTAL	8,300	0	27,054	18,754	0
-L- 520 + 00.00	198,410	0	151,448	0	46,962
-Y9- 11 + 50.00	1,121	0	9,044	7,923	0
-Y9- 25 + 17.80	607	0	11,434	10,827	0
-Y9RPA- 10 + 00.00	1,012	0	49,785	48,773	0
-Y9RPD- 8 + 00.00	128	0	43,479	43,351	0
SUBTOTAL	201,278	0	265,190	110,874	46,962
-Y9RPB- 9 + 50.00	20,169	0	3,225	0	16,944
-Y9RPC- 9 + 00.00	7,491	0	2,026	0	5,465
SUBTOTAL	27,660	0	5,251	0	22,409
-L- 545 + 00.00	287	6,000	393,746	393,459	6,000
SUBTOTAL	287	6,000	393,746	393,459	6,000
-L- 575 + 00.00	19,552	0	141,459	121,907	0
-Y11-REV2 18 + 00.00	2,110	0	6,647	4,537	0
SUBTOTAL	21,662	0	148,106	126,444	0
-L- 597 + 50.00	3,332	0	474,916	471,584	0
-Y11-REV2 33 + 00.00	15,517	0	1,099	0	14,418
-Y14RPB- 10 + 50.00	7,685	0	0	0	7,685
-Y14RPC- 10 + 50.00	2,580	0	0	0	2,580
SUBTOTAL	29,114	0	476,015	471,584	24,683
-L- 612 + 00.00	90,779	0	138,268	47,489	0
-Y11-REV2 49 + 00.00	782	0	46,963	46,181	0
-Y14RPA- 13 + 50.00	400	0	2,515	2,115	0
-Y14- 13 + 00.00 LT	3,946	0	8,923	4,977	0
-Y14- 33 + 00.00 LT	1,456	0	2,976	1,520	0
-Y14- 13 + 00.00 RT	3,654	0	1,737	0	1,917
-Y14- 33 + 00.00 RT	5,385	0	1,114	0	4,271
-Y16-REV 10 + 00.00	7,242	0	20,705	13,463	0
-Y16A- 13 + 75.00	98	0	214	116	0
-SR2- 10 + 50.00	468	0	265	0	203
-DR1- 11 + 04.70	6	0	1,395	1,389	0
SUBTOTAL	114,216	0	225,075	117,250	6,391
-Y14RPD- 9 + 00.00	9,245	0	4,206	0	5,039
-DR2- 10 + 60.90	4	0	227	223	0
SUBTOTAL	9,249	0	4,433	223	5,039
-Y9- DET 12 + 00.00 (REM)	5,037	0	0	0	5,037
SUBTOTAL	5,037	0	0	0	5,037
PROJECT TOTAL	2,646,586	7,500	2,284,477	1,548,541	1,918,150
LOSS DUE TO CLEARING & GRUBBING			368		-50,000
FILL IN EXISTING CHANNEL	-50,000			14,375	
ADDITIONAL UNDERCUT		12,500	368	-213,308	
ROCK WASTE TO REPLACE BORROW			14,375	-53,327	12,500
ADJUST FOR ROCK SWELL			-53,327	-39,995	-213,308
ADJUST FOR ROCK WASTE			-39,995	-1,256,654	
WASTE IN LIEU OF BORROW			0	0	
PROJECT TOTAL	2,596,586	20,000	2,205,898	0	-1,256,654
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT		20,000		0	
GRAND TOTAL	2,596,586	20,000	2,205,898	0	410,688
SAY	2,730,000		2,320,000		440,000

EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

PAVEMENT STRUCTURE VOLUME
 -Y2- 1,510 CY
 -Y3- 1,130 CY
 -Y4-REV 2,300 CY
 -Y6A- 1,240 CY
 -Y9- 7,380 CY
 -Y9- DETOUR 1,550 CY
 -Y11- REV2 8,740 CY
 -Y14 11,000 CY

NOTE: VOLUMES SHOWN INCLUDE ADDITIONAL VOLUME OF 5" OVER SUBGRADE FOR "GRADING & STRUCTURES ONLY PLANS".
 SHOULDER BORROW = 11,900 CY
 EST DDE = 15,920 CY
 CLASS IV SUBGRADE STABILIZATION = 32,000 TONS
 SHALLOW UNDERCUT = 15,800 CY