

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

CHAIN	BEGINNING STATION	ENDING STATION	UNCL. EXCA. C.Y.	UNDERCUT C.Y.	EMBANK. +% C.Y.	BORROW C.Y.	WASTE C.Y.
<b>SUMMARY 13</b>							
-L- LT	10+25.00	25+00.00	4,432		1,685		2,747
-L- (REMOVE L_DET1)	14+50.00	25+00.00	20,063		53		20,010
-L- LT	30+00.00	44+00.00	3,218		558		2,660
-L- (REMOVE L_DET1)	30+00.00	42+00.00	12,338		2,495		9,843
-L- LT	48+00.00	51+77.00	144		559	415	
-L- LT	78+00.00	101+50.00	1,141		5,159	4,018	
-L- (REMOVE L_DET2)	84+00.00	103+00.00	1,311		23,216	21,905	
-L-	104+68.00	106+16.00	11		115	104	
-L- RT	114+00.00	139+60.00	21,231		713		20,518
-L- (REMOVE L_DET3)	122+00.00	133+00.00	15,215		8,741		6,474
-L- LT	133+82.00	141+50.00	2,389		815		1,574
-L- LT	151+78.00	172+50.00	38,502		362		38,140
-L- (REMOVE L_DET4)	151+78.00	173+50.00	2,847		3,973	1,126	
-L-	183+25.00	197+00.00	31,760	546	6,688		25,618
-L- LT	199+30.00	209+00.00	17		942	925	
-Y4-	12+72.00	15+28.75	564		6,876	6,312	
-Y9-	10+12.02	13+50.00	420	60	392		88
-Y10B-	14+00.00	19+08.01	27,610		124		27,486
-Y12- RT	18+66.98	24+00.00	104				104
-DR1-	9+80.00	11+11.20	11		508	497	
-DR2-	10+20.00	12+20.00	1,135		864		271
-DR5-	11+20.00	12+45.23	6		84	78	
-DR9-	10+10.00	11+72.31			374	374	
-DR10-	11+10.00	12+15.84			503	503	
-DR15-	10+12.00	13+30.00	2,635		330		2,305
-DR21-	10+00.00	10+94.73	437				437
-DR25-	10+05.00	12+29.68	846		40		806
-DR27-	9+82.00	11+07.42	21		156	135	
<b>SUBTOTAL</b>			<b>188,408</b>	<b>606</b>	<b>66,324</b>	<b>36,393</b>	<b>159,083</b>
<b>SUMMARY 14</b>							
-Y10B-	11+86.00	14+00.00	1,034		155		879
-Y13-	10+12.47	12+75.00	3,829		1		3,828
<b>SUBTOTAL</b>			<b>4,863</b>		<b>156</b>		<b>4,707</b>
<b>SUMMARY 15</b>							
-L- (REMOVE L_DET6)	179+50.00	197+00.00	1,051		77,196	76,145	
-L-	197+00.00	199+50.00	519		300		219
-DR22-	10+12.00	11+00.00	683				683
<b>SUBTOTAL</b>			<b>2,253</b>		<b>77,496</b>	<b>76,145</b>	<b>902</b>
<b>SHEET TOTALS</b>			<b>1,195,723</b>	<b>2,530</b>	<b>457,821</b>	<b>228,362</b>	<b>968,794</b>
<b>ADDITIONAL UNDERCUT</b>				<b>9,000</b>	<b>10,800</b>	<b>10,800</b>	<b>9,000</b>
<b>ROCK WASTE USED TO REPLACE BORROW</b>						<b>-41,084</b>	<b>-41,084</b>
<b>ADJUST FOR ROCK WASTE</b>					<b>-8,217</b>	<b>-8,217</b>	
<b>ELIMINATE SHRINKAGE FACTOR ON ROCK</b>					<b>-9,860</b>	<b>-9,860</b>	
<b>UNSUITABLE MATERIAL</b>			<b>500</b>				<b>500</b>
<b>EARTH WASTE IN LIEU OF BORROW</b>						<b>-180,001</b>	<b>-180,001</b>
<b>GRAND TOTAL</b>			<b>1,196,223</b>	<b>11,530</b>	<b>450,544</b>		<b>757,209</b>
<b>SAY</b>			<b>1,197,000</b>				

-L- PAVEMENT STRUCTURE VOLUME = 26,237 C.Y.

SHOULDER BORROW = 1,400 C.Y.

DRAINAGE DITCH EXCAVATION = 15,980 C.Y.

SHALLOW UNDERCUT = 500 C.Y.

SHALLOW UNDERCUT (CONTINGENCY) = 500 C.Y.

TOTAL UNCLASSIFIED EXCAVATION - ACCEPTABLE = 18,500 C.Y.

BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL

-L- STA. 21+75 TO STA. 26+75

-L- STA. 137+25 TO STA. 139+25

-L- STA. 170+75 TO STA. 172+75

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