

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

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.

Quantities are approximate only. The Resident Engineer will re-cross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

STATION to STATION		UNCLASSIFIED	UNDERCUT	EMBANK. +%	BORROW	WASTE
PHASE 1						
-L- 10+00	10+22.63 (BEG. BRIDGE)			5,870	5,870	
-LPC- 6+89.67	9+25	1,188		810		378
-RPC- 7+29.19	9+28	2,153		569		1,584
-LPC/RPC- 9+41.74	17+62.20			81,993	81,993	
-SR2- 13+19.30	28+57.05	6,240		4,365		1,875
-DR4- 10+50	11+85.00	1,070				1,070
-DR5- 10+25	11+79.20	316		138		178
-L-(LT) 28+00	35+00	293		749	456	
-L-(LT) 35+00	60+00	126		36,013	35,887	
-L-(RT) 60+00	90+00	45,559		3,488		42,071
-Y2- 10+50	13+20	5,725		3		5,722
-Y3- 10+50	11+85	781				781
-L-(RT) 90+00	114+00	75,185		3,453		71,733
-Y4- 10+50	13+75	1,362		250		1,112
-DR2- 10+50	13+00	2,016		1,156		860
-L-(LT) 114+00	135+00	3,864		22,317	18,453	
-DR3- 10+00	12+22.20	6		949	943	
-L-(RT) 135+00	138+50	4,426		123		4,303
-Y7- 10+50	15+20	2,152		2,069		83
-L-(RT) 141+00	156+00	180,859		2,113		178,746
-Y9- 10+50	13+10	2		2,453	2,451	
-L-(RT) 158+00	160+00			1,010	1,010	
-SR1- 11+00	28+30	2,777		1,242		1,535
PHASE 1 SUBTOTALS		336,100		171,133	147,063	312,030
ROCK WASTE TO REPLACE BORROW				-30,619	-111,195	-80,576
WASTE TO REPLACE BORROW					-35,868	-35,868
PHASE 1 TOTALS		336,100		140,514		195,586
PHASE 2						
-L- (LT) 12+50	28+00	1,204		87,583	86,379	
-L-(RT) 12+50	28+00	28,456		51,195	22,739	
-RPA- 8.87.20	15+06.30	254		29,848	29,594	
-SR2Rev- 11+49.23	17+96.35	55,676		128		55,548
-L-(RT) 28+00	35+00	55,351		68		55,284
-L-(RT) 35+00	60+00	33,233		3,311		29,922
-L-(RT) 114+00	135+00	71,916		2,862		69,054
-Y6- 10+50	12+00	2,510				2,510
-L-(RT) 138+50	141+00	17,651		34		17,617
-L-(RT) 156+00	158+00			2,172	2,172	
PHASE 2 SUBTOTALS		266,251		177,201	140,884	229,934
ROCK WASTE TO REPLACE BORROW				-1,809	-6,569	-4,760
WASTE TO REPLACE BORROW					-134,315	-134,315
PHASE 2 TOTALS		266,251		175,392		90,859
PHASE 3						
-Y1- 11+00	40+50	3,199		2,723		476
-Y1- 40+50	54+00	601		1,213	612	
-L- (LT) 60+00	90+00	1,940		3,696	1,756	
-DR6- 10+50	11+89.50	41		3		38
-L-(LT) 90+00	114+00	1,114		11,564	10,450	
-Y5- 17+50	19+64.41	6		1,496	1,490	
-L-(LT) 135+00	138+50	5		951	946	
-L- (LT) 138+50	141+00	25		437	412	
-L-(LT) 141+00	156+00	3,579		4,133	554	
-Y8- 15+00	15+14.5	59				59
-L-(LT) 156+00	158+00	69		228	159	
-L-(LT) 158+00	160+00	59		110	51	
PHASE 3 SUBTOTALS		10,697		26,554	16,430	573
ROCK WASTE TO REPLACE BORROW					-573	-573
WASTE TO REPLACE BORROW					-573	-573
PHASE 3 TOTALS		10,697		26,554	15,857	

STATION to STATION	UNCLASSIFIED	UNDERCUT	EMBANK. +%	BORROW	WASTE
PROJECT SUBTOTALS (PHASE 1 - PHASE 3)					
ESTIMATED LOSS DUE TO CLEARING & GRUBBING	613,048		342,460	15,857	286,445
SHOULDER MATERIAL	-20,000		13,191	13,191	-20,000
PROJECT TOTALS (CUBIC YARDS)					
ESTIMATED 5% FOR REPLACE TOPSOIL ON BORROW PITS	593,048		355,651	29,048	266,445
GRAND TOTALS (CUBIC YARDS)					
	593,048		355,651	30,500	266,445
SAY VALUES (CUBIC YARDS)					
	593,100			30,600	
ESTIMATED DRAINAGE DITCH EXCAVATION = 2340					
ESTIMATED PAVEMENT STRUCTURE VOLUME: 26033 CUBIC YARDS					