

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.
SUMMARY 1							
-L- LT	0+00.00	30+00.00	235		17,480	17,245	
-Y1A-	10+00.00	16+61.40	6,794	1,460	2,445		5,764
-Y1C-	10+00.00	11+44.28	120		15		105
-Y1E-	12+17.38	16+27.29	1,445		375		1,070
-Y2-	12+00.00	14+11.53	68		505	437	
-D7-	10+08.96	11+25.00	4		674	670	
SUBTOTAL			8,666	1,460	21,494	18,352	6,939
SUMMARY 2							
-L- RT	0+00.00	30+00.00	1,209		25,283	24,074	
-Y1B-	10+40.64	18+00.00	1,336		5,725	4,389	
-Y1D-	12+00.00	13+96.53	275		12		264
SUBTOTAL			2,820		31,019	28,462	264
SUMMARY 3							
-L- LT	30+00.00	60+00.00	1,470	315	20,059	18,589	291
SUBTOTAL			1,470	315	20,059	18,589	291
SUMMARY 4							
-L- RT	30+00.00	60+00.00	3,942	315	4,440	828	536
-Y3-	10+35.51	12+97.48	832		32		800
-Y4-	10+35.50	14+00.00	93		1,463	1,370	
SUBTOTAL			4,867	315	5,935	2,198	1,336
SUMMARY 5							
-L- LT	60+00.00	90+00.00	8,421		7,918	1,062	1,565
-Y5-	10+15.82	23+68.65	35,653		151		35,502
-Y5A-	10+00.00	16+32.00	9,933		138		9,795
SUBTOTAL			54,007		8,206	1,062	46,862
SUMMARY 6							
-L- RT	60+00.00	90+00.00	896		6,537	5,956	315
-Y6-	10+35.50	12+26.34	331		69		262
-Y7-	10+35.55	12+00.00	58		827	769	
-Y8-	10+35.50	12+50.00	20		544	524	
SUBTOTAL			1,305		7,976	7,248	577
SUMMARY 7							
-L- LT	90+00.00	120+00.00	14,247	410	28,084	13,837	351
-Y9-	10+35.75	15+64.40	75	200	6,213	6,138	152
-Y11-	12+00.00	14+91.91	269		361	92	
-D1-	10+14.35	11+38.50	6		10	4	
-D2-	10+40.35	12+23.91	15		216	201	
SUBTOTAL			14,612	610	34,885	20,273	503
SUMMARY 8							
-L- RT	90+00.00	120+00.00	2,002	540	15,140	13,578	980
-Y10-	10+39.51	12+77.76	125		324	199	
-Y25-	10+35.50	13+00.00	1,524		28		1,496
SUBTOTAL			3,651	540	15,492	13,777	2,476
SUMMARY 9							
-L- LT	120+00.00	139+47.40	11,573		8,318		3,255
-Y12-	21+50.00	24+23.18	3,072		329		2,743
-Y14-	10+16.01	13+50.00	1,795		56		1,739
SUBTOTAL			16,440	3,240	8,703		7,737

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SUMMARY 10							
-L- RT	120+00.00	139+13.91	78		11,668	11,590	
SUBTOTAL			78		11,668	11,590	
SUMMARY 11							
-L- LT	141+65.09	150+25.00	1,619		5,362	3,743	
-D6-	10+41.50	11+55.00	4		427	423	
SUBTOTAL			1,623		5,789	4,166	
SUMMARY 12							
-L- RT	141+31.60	150+25.00	2,665		2,594		71
-Y13-	10+39.18	13+00.00	138		1,211	1,073	
SUBTOTAL			2,803		3,805	1,073	71
SUMMARY 13							
-L- LT	172+57.48	202+25.00	10,811	2,510	4,568		8,616
-Y15-	11+25.00	15+36.12	2,135		53		2,082
SUBTOTAL			12,946	2,510	4,621		10,698
SUMMARY 14							
-L- RT	172+57.48	202+25.00	1,731		5,990	5,219	960
SUBTOTAL			1,731		5,990	5,219	960
SUMMARY 15							
-L2- LT	202+25.00	233+00.00	6,275	1,090	9,293	5,328	3,611
-Y17-	12+23.63	14+50.00			929	929	
-Y17A-	10+50.00	11+64.01	1		74	73	
SUBTOTAL			6,276	1,090	10,296	6,330	3,611
SUMMARY 16							
-L2- RT	202+25.00	233+00.00	5,221	570	14,591	11,680	2,628
-Y16-	12+75.00	15+27.14	10		407	397	
-D3-	10+39.16	11+50.00	56		225	169	
SUBTOTAL			5,287	570	15,224	12,247	2,628
SUMMARY 17							
-L2- LT	233+00.00	242+09.26	272		5,425	5,153	
SUBTOTAL			272		5,425	5,153	
SUMMARY 18							
-L2- RT	233+00.00	242+09.26	853		562		291
-Y18-	10+39.00	11+15.00	57		8		49
SUBTOTAL			910		570		340
SUMMARY 19							
-L- LT	242+08.28	272+00.00	491	280	30,810	30,319	261
-Y20-	96+40.00	98+28.73	2		1,030	1,028	
SUBTOTAL			493	280	31,840	31,347	261
SUMMARY 20							
-L- RT	242+08.28	272+00.00	263		5,472	5,209	
-Y19-	10+39.00	11+15.00	46		10		36
-Y19A-	10+51.00	11+36.00	5		81	76	
-Y20-	98+68.84	100+30.60	116		72		44
-Y21-	10+39.00	11+35.00	23		9		14
-Y22-	10+39.00	11+20.00	22		24	2	
SUBTOTAL			475	4,450	5,668	5,286	93

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SUMMARY 21							
-L- LT	272+00.00	305+00.00		670			560
-Y24-	13+08.65	23+93.99	2,052	140	3,539	1,487	122
-D4-	10+41.15	12+10.39	23		290	267	
SUBTOTAL			2,075	810	3,828	1,753	682
SUMMARY 22							
-L- RT	272+00.00	305+00.00	365		6,836	6,218	
-Y23-	10+41.50	17+03.30	8,617		81		8,537
-Y23A-	10+00.00	11+79.90	540		91		449
-D5-	10+41.50	14+05.05	12		104	92	
SUBTOTAL			9,534		7,110	6,309	8,986
SUMMARY 23							
-X-OVER1-	305+00.00	306+41.51	38		56	18	
SUBTOTAL			38		56	18	
SHEET TOTALS			153,119	8,500	265,642	200,707	96,684
MATERIAL FOR SHOULDER CONSTRUCTION					10,460	10,460	
ADDITIONAL UNDERCUT				2,000	2,300	2,300	2,000
GRADE POINT UNDERCUT				2,400	2,760	2,760	
SELECT MATERIAL IN LIEU OF BORROW					-3,910	-3,910	
EARTH WASTE IN LIEU OF BORROW						-71,375	-71,375
PROJECT TOTAL			153,119	12,900	277,252	140,942	29,709
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT							7,047
GRAND TOTAL			153,119				147,989
SAY			153,120				147,990
DRAINAGE DITCH EXCAVATION = 18,330 C.Y.							
CLASS IV SUBGRADE STABILIZATION = 6,600 TON							
SHALLOW UNDERCUT = 2,900 C.Y.							
SHALLOW UNDERCUT CONTINGENCY = 500 C.Y.							
TOTAL SHALLOW UNDERCUT = 3,400 C.Y.							
Note: Earthwork quantities are calculated by RK&K. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.							

*UNCLASSIFIED EXCAVATION – ACCEPTABLE, BUT NOT TO BE USED IN TOP 3’ OF EMBANKMENT OR BACKFILL (25,800 CY) SEE LOCATIONS BELOW

-L- 58+75 – 60+75 (240.0 CY)	-L2- 234+75 – 237+25 (420.0 CY)
-L- 61+25 – 61+75 (120.0 CY)	-L- 282+75 – 290+25 (2150.0 CY)
-L- 62+25 – 62+75 (100.0 CY)	-Y1B- 12+75 – 16+75 (810.0 CY)
-L- 63+75 – 70+75 (670.0 CY)	-Y1D- 12+25 – 13+97 (300.0 CY)
-L- 89+60 – 94+75 (5000.0 CY)	-Y5- 10+16 – 18+25 (4950.0 CY)
-L- 123+25 – 129+50 (5890.0 CY)	-Y24- 13+08 – 17+25 (550.0 CY)
-L- 184+75 – 186+75 (860.0 CY)	-Y24- 18+75 – 23+80 (1720.0 CY)
-L2- 222+75 – 225+25 (510.0 CY)	-Y25- 10+40 – 12+75 (1510.0 CY)

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