

COMPUTED BY: R. O'DELL DATE: 3/8/16  
 CHECKED BY: B. MAY DATE: 3/8/16

PROJECT REFERENCE NO. SHEET NO.  
 U-2525C 3B-1

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

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.

Note: "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	STATION	EXCAVATION	UNDERCUT	EMBANK. '+%'	BORROW	WASTE
-L- STA. 275+00.00	-L- STA. 293+00.00	136,542	247	146,526	30,071	20,334
-LACFLY- STA. 14+97.00	-LACFLY- STA. 28+00.00	9,217		78,644	69,427	
-Y13RPA- STA. 13+21.00	-Y13RPA- STA. 28+10.90	11,211		15,540	4,329	
-Y13RPD- STA. 14+38.00	-Y13RPD- STA. 34+38.00	48,510	1,779	5,654		44,635
-Y16DET- STA. 10+00.00	-Y16DET- STA. 18+00.00	1,100		586		514
-Y17- STA. 11+39.00	-Y17- STA. 15+00.00	235		620	385	
-Y18- STA. 10+00.00	-Y18- STA. 18+00.00	179		42		137
-Y16- STA. 14+19.00	-Y16- STA. 16+00.00	216		67		
-Y16- STA. 18+50.00	-Y16- STA. 21+00.00	258		80		178
<b>SUBTOTAL</b>		<b>207,468</b>	<b>2,026</b>	<b>247,760</b>	<b>104,212</b>	<b>65,797</b>
-L- STA. 293+00.00	-L- STA. 329+50.00	62,075	7,215	858,558	819,012	29,744
<b>SUBTOTAL</b>		<b>62,075</b>	<b>7,215</b>	<b>858,558</b>	<b>819,012</b>	<b>29,744</b>
-L- STA. 330+50.00	-L- STA. 336+00.00		1,142	195,130	195,130	1,142
<b>SUBTOTAL</b>			<b>1,142</b>	<b>195,129</b>	<b>195,129</b>	<b>1,142</b>
-L- STA. 338+50.00	-L- STA. 368+50.00	38	6,572	2,196,061	2,196,023	6,572
<b>SUBTOTAL</b>		<b>38</b>	<b>6,572</b>	<b>2,196,061</b>	<b>2,196,023</b>	<b>6,572</b>
-L- STA. 368+50.00	-L- STA. 398+50.00	67,222	550	629,591	562,369	550
-Y3- STA. 10+50.00	-Y3- STA. 11+50.00	184				184
-Y4LPC- STA. 10+00.00	-Y4LPC- STA. 18+22.17	19,732	2,376			22,108
-Y4RPC- STA. 10+00.00	-Y4RPC- STA. 24+72.00	41,228		21,830		19,398
-Y4- STA. 30+00.00	-Y4- STA. 45+50.00	3,315		1,064		2,251
<b>SUBTOTAL</b>		<b>131,681</b>	<b>2,926</b>	<b>652,485</b>	<b>562,368</b>	<b>44,490</b>
<b>SHEET TOTAL</b>		<b>401,262</b>	<b>19,881</b>	<b>4,149,993</b>	<b>3,876,744</b>	<b>147,745</b>
-L- STA. 398+50.00	-L- STA. 428+50.00	407,202	509	98,326		309,385
-Y4DET- STA. 10+54.57	-Y4DET- STA. 22+89.56	3,731	3,341	1		7,071
-Y4LPA- STA. 10+00.00	-Y4LPA- STA. 18+30.25	94,184				94,184
-Y4RPA- STA. 10+00.00	-Y4RPA- STA. 25+94.29	45,618	9	13,231		32,396
-Y4- STA. 12+50.00	-Y4- STA. 27+50.00	9,206		400		8,806
<b>SUBTOTAL</b>		<b>559,941</b>	<b>3,859</b>	<b>111,957</b>		<b>451,842</b>
-L- STA. 428+50.00	-L- STA. 448+00.00	144,033	7,272	165,176	21,491	7,620
-Y5DET- STA. 428+50.00	-Y5DET- STA. 448+00.00	852	2,383	83	57	3,209
-Y5- STA. 17+00.00	-Y5- STA. 21+00.00	611		262		349
-Y5- STA. 23+50.00	-Y5- STA. 28+00.00	388		260		128
<b>SUBTOTAL</b>		<b>145,884</b>	<b>9,655</b>	<b>165,781</b>	<b>21,548</b>	<b>11,306</b>
-L- STA. 448+00.00	-L- STA. 469+50.00	212,273	834	22,565		190,542
-Y6LPC- STA. 10+00.00	-Y6LPC- STA. 19+95.56	42,870	150	2,083		40,937
-Y6RPB- STA. 10+00.00	-Y6RPB- STA. 31+50.00	84,372		25,826		58,546
-Y6RPC- STA. 10+00.00	-Y6RPC- STA. 26+81.55	83,188		1,876		81,312
<b>SUBTOTAL</b>		<b>422,703</b>	<b>984</b>	<b>52,350</b>		<b>371,337</b>
-L- STA. 471+00.00	-L- STA. 501+00.00	81,874	6,227	592,507	535,594	31,188
-Y6LPA- STA. 10+00.00	-Y6LPA- STA. 19+35.43	56,956	212	4,636		52,532
-Y6RPA- STA. 10+00.00	-Y6RPA- STA. 28+22.65	111,835	328	14,863		97,300
-Y6RPD- STA. 10+22.67	-Y6RPD- STA. 26+50.00	80,102		23,706		56,396
-Y6- STA. 10+00.00 LT	-Y6- STA. 38+00.00 LT	1,675		4,856	3,181	
-Y6- STA. 10+00.00 RT	-Y6- STA. 38+00.00 RT	2,040		8,071	6,031	
-DRI- STA. 10+38	-DRI- STA. 10+88	6		149	143	
<b>SUBTOTAL</b>		<b>334,488</b>	<b>6,767</b>	<b>648,788</b>	<b>544,949</b>	<b>237,416</b>
-L- STA. 501+00.00	-L- STA. 523+50.00	182,395	676	256,444	79,175	5,802
-Y7DET- STA. 11+00.00	-Y7DET- STA. 18+50.00	1,263		916		347
-Y7- STA. 22+50.00	-Y7- STA. 24+00.00	378		43		335
-Y7- STA. 27+00.00	-Y7- STA. 28+50.00	352				352
<b>SUBTOTAL</b>		<b>184,388</b>	<b>676</b>	<b>257,402</b>	<b>79,174</b>	<b>6,836</b>
<b>SHEET TOTAL</b>		<b>1,647,404</b>	<b>21,941</b>	<b>1,236,278</b>	<b>645,671</b>	<b>1,078,737</b>

STATION	STATION	EXCAVATION	UNDERCUT	EMBANK. '+%'	BORROW	WASTE
-L- STA. 523+50.00	-L- STA. 548+15.23	285,732	4,283	45,688		244,327
<b>SUBTOTAL</b>		<b>285,732</b>	<b>4,283</b>	<b>45,687</b>		<b>244,327</b>
<b>SHEET TOTAL</b>		<b>285,732</b>	<b>4,283</b>	<b>45,687</b>		<b>244,327</b>
<b>TOTAL FROM SHEET 1</b>		<b>401262</b>	<b>19881</b>	<b>4149993</b>	<b>3876744</b>	<b>147745</b>
<b>TOTAL FROM SHEET 2</b>		<b>1647404</b>	<b>21941</b>	<b>1236278</b>	<b>645671</b>	<b>1078737</b>
<b>TOTAL FROM SHEET 3</b>		<b>285732</b>	<b>4283</b>	<b>45687</b>		<b>244327</b>
<b>TOTAL</b>		<b>2,334,398</b>	<b>46,105</b>	<b>5,431,958</b>	<b>4,522,415</b>	<b>1,470,809</b>
MATERIAL FOR SHOULDER CONSTRUCTION				58,800	58,800	
LOSS DUE TO CLEARING & GRUBBING		-65,000			65,000	
ADDITIONAL UNDERCUT			68,100	81,720	-81,720	68,100
SELECT MATERIAL TO REPLACE BORROW				-38,200	-38,200	
WASTE TO REPLACE BORROW					-1,070,017	-1,070,017
<b>PROJECT TOTAL</b>		<b>2,269,398</b>	<b>114,205</b>	<b>5,534,278</b>	<b>3,619,718</b>	<b>468,892</b>
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					180,986	
<b>GRAND TOTAL</b>		<b>2,269,398</b>	<b>114,205</b>	<b>5,534,278</b>	<b>3,800,704</b>	<b>468,892</b>
<b>SAY</b>		<b>2,300,000</b>	<b>114,500</b>		<b>4,000,000</b>	
PAVEMENT STRUCTURE VOLUME = 16996 CY						
DDE = 54,624 CY						
NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT.						

PER GEOTECH LETTER DATED JULY 19, 2017  
 REDUCTION OF UNCLASSIFIED EXCAVATION - ACCEPTABLE BUT NOT USED IN THE TOP 3 FEET OF EMBANKMENT OR BACKFILL.

STATION	STATION	LOCATION	STATION	STATION	LOCATION
-L-			-Y4LPA-		
287+25	291+00	LT & RT	14+95	17+05	LT & RT
301+25	303+50	LT	-Y4RPA-		
407+75	415+25	LT & RT	19+50	26+50	LT & RT
432+75	440+75	LT & RT	-Y6LPA-		
442+15	448+05	LT & RT	11+82	19+35.43	LT & RT
451+75	463+55	LT & RT	-Y4LPC-		
466+05	467+25	LT & RT	11+40	14+45	LT & RT
479+05	481+30	LT & RT	-Y6LPA-		
517+05	519+75	LT & RT	16+50	22+40	LT & RT
524+90	527+75	LT & RT	-Y6RPA-		
531+25	534+58	LT & RT	23+85	28+23	LT & RT
538+75	548+15	LT & RT	-Y13RPD-		
			30+75	32+55	LT & RT

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