

COMPUTED BY: Tony Harris DATE: 9/30/2015  
CHECKED BY: Davidian Byrd DATE: 12/31/2015

## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

### SUMMARY OF EARTHWORK (IN CUBIC YARDS)

### SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

### SHOULDER BERM GUTTER SUMMARY

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- STA 12+00	-L- STA 20+50	607	6712	6105	
-Y- STA 10+00	-Y- STA 16+27.88 (BEGIN BRIDGE)	817	6880	6063	
<b>SUBTOTALS: (SUMMARY #1)</b>		<b>1424</b>	<b>13592</b>	<b>12168</b>	
-L- STA 21+00	-L- STA 50+00	4864	62664	57800	
<b>SUBTOTALS: (SUMMARY #2)</b>		<b>4864</b>	<b>62664</b>	<b>57800</b>	
-L- STA 50+50	-L STA 87+74.04 (BEGIN BRIDGE)	26701	93480	66779	
<b>SUBTOTALS: (SUMMARY #3)</b>		<b>26701</b>	<b>93480</b>	<b>66779</b>	
-L- STA 92+45.12 (END BRIDGE)	-L- STA 121+00	35977	22987		12990
-Y4- STA 12+00	-Y4- STA 16+50	598	978	380	
-Y5- STA 11+00	-Y5- STA 13+00	473	102		371
<b>SUBTOTALS: (SUMMARY #4)</b>		<b>37048</b>	<b>24067</b>	<b>380</b>	<b>13361</b>
-Y- STA 18+35.38 (END BRIDGE)	-Y- STA 25+02.69	1271	2663	1392	
<b>SUBTOTALS: (SUMMARY #5)</b>		<b>1271</b>	<b>2663</b>	<b>1392</b>	
<b>SUBTOTALS SUMMARIES (1-5):</b>		<b>71308</b>	<b>196466</b>	<b>138519</b>	<b>13361</b>
MATERIAL FOR SHOULDER CONSTRUCTION			6828	6828	
LOSS DUE TO CLEARING & GRUBBING		-1000		1000	
WASTE TO BE USED IN LIEU OF BORROW				-13361	-13361
<b>PROJECT SUBTOTAL:</b>		<b>70308</b>	<b>203294</b>	<b>132986</b>	
<b>ESTIMATE 5% TO REPLACE TOP SOIL IN BORROW PIT</b>				<b>6649</b>	
<b>GRAND TOTAL</b>		<b>70308</b>	<b>203294</b>	<b>139635</b>	
<b>SAY</b>		<b>71000</b>		<b>140000</b>	
PAVEMENT STRUCTURE VOLUME = 7800					

LINE	Station	Station	LOC LT/RT/CL	YD <sup>2</sup>
-L-	16+84	18+78	RT	845.4
-Y-	17+99	19+00	RT	239.49
TOTAL:				1084.89
SAY:				<b>1090</b>

LINE	Station	Station	LOC LT/RT/CL	LENGTH (FEET)
-L-/-Y-	18+45	16+21	RT	169
-Y-	18+58	19+00	LT	42
-Y-/-L-	15+81	21+69	LT	166
-Y-/-L-	12+70	22+96	LT	204
-L-	36+00	39+45	RT	345
-L-	73+05	79+50	RT	645
-L-	87+70	87+80	LT	10
-L-	87+70	87+80	RT	10
TOTAL:				1591
SAY:				<b>1630</b>

### 2'-6" CURB AND GUTTER

LINE	Station	Station	LOC LT/RT/CL	LENGTH (FEET)
-L-/-Y4-	120+46	15+87	RT/LT	160
-L-/-Y4-	120+08	11+73	RT	303
-Y4-/-Y5-	13+40	10+89	LT	114
-Y4-/-Y5-	10+83	16+65	LT	211
-Y-	23+66	23+98	RT	63
-Y-	22+83	23+28	RT	49
TOTAL:				900
SAY:				<b>900</b>

GEOTEXTILE FOR SOIL STABILIZATION = 5000 SQUARE YARDS  
CLASS IV SUBGRADE STABILIZATION = 1600 TON  
EST. SHALLOW UNDERCUT = 850 CUBIC YARDS  
SELECT GRANULAR MATERIAL = 3500 CUBIC YARDS  
PER GEOTECH RECOMMENDATION, ESTIMATED 1,000 CUBIC YARDS OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.