

5/28/99

PROJECT REFERENCE NO.
U-5797

SHEET NO.
3B-1



STV Engineers, Inc.
2121 RDU Center Dr.
Suite 210
Morrisville, NC 27560
NC License Number F-0991

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE	LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L- 53+00.00 TO 67+92.00 RT	423		3,503	3,080		-L- 45+00.00 TO 48+86.00 RT	104		99		5
-Y3- 14+21.97 TO 25+23.64 LT	174		890	716		-Y2- 26+55.16 TO 37+15.00 RT	345		246		99
SUBTOTAL 1	597		4,393	3,796		SUBTOTAL 11	449		345		104
-L- 48+86.00 TO 53+00.00 RT	191		178		14	-L- 40+21.00 TO 44+60.00 LT (FILL REDUCED TO ACCOUNT FOR FILL PLACED WITH TEMPORARY WIDENING)	49		409	360	
-Y3- 14+21.97 TO 25+23.64 RT	431		104		327						
SUBTOTAL 2	622		281		340	-Y2- 15+60.00 TO 25+96.31 RT	46		2,908	2,862	
-L- 52+65.00 TO 69+50.00 LT	1,228		2,471	1,243		SUBTOTAL 12	95		3,317	3,222	
-L- 69+50.00 TO 86+23.34 LT	1,384		784		600	-L- 20+38.00 TO 38+51.00 RT	341		548	207	
-Y3- 12+50.00 TO 13+42.46 LT	59		39		20	-Y1- 10+65.00 TO 13+77.68	132		168	36	
SUBTOTAL 3	2,671		3,293	1,243	620	-RAB- 00+00.00 TO 3+14.15	142		2,030	1,888	
-L- 69+00.00 TO 86+23.34 RT	257		521	264		SUBTOTAL 13	615		2,746	2,131	429
-Y4- 10+47.76 TO 16+07.49 LT	355		198		158	-L- 18+35.00 TO 40+21.00 LT	768		339		31
-Y5- 10+47.45 TO 11+50.00	58		85	27		-Y- 11+70.00 TO 14+14.95	66		35		4
SUBTOTAL 4	670		804	291	158	-YA- 10+44.00 TO 10+99.78	19		15		464
-L- 67+92.00 TO 69+00.00 RT	12		0		12	SUBTOTAL 14	853		389		
-Y4- 10+47.76 TO 12+50.00 RT	190		30		160						2,353
SUBTOTAL 5	202		30		172	TOTAL	8,443		22,369	16,284	
-Y4- 12+50.00 TO 17+06.00 RT	16		960	944		LOSS DUE TO CLEARING & GRUBBING	-50			50	
						USE WASTE IN LIEU OF BORROW				-2,353	-2,353
SUBTOTAL 6	16		960	944							
-Y2- 16+07.21 TO 22+37.26 LT (TEMP)	293		1,278	985		PROJECT TOTAL	8,393		22,369	13,981	
SUBTOTAL 7	293		1,278	985		ESTIMATE 5% TO REPLACE TOPSOIL ON BORROW PIT				699	
-L- 38+56.00 TO 44+60.00 LT (TEMP)	118		296	178		GRAND TOTAL	8,393			14,680	
-Y2- 18+03.71 TO 25+96.31 RT	249		1,338	1,089							
SUBTOTAL 8	367		1,634	1,267		SAY	8,400			14,680	
-L- 44+60.00 TO 52+65.00 LT	54		228	174							
-Y2- 15+60.00 TO 25+96.31 LT (INCLUDES REMOVAL OF TEMPORARY FILL)	139		2,246	2,107		EST. DDE = 210 CY EST. SHALLOW UNDERCUT (CONTINGENCY) = 3000 CY					
SUBTOTAL 9	193		2,474	2,281							
-L- 45+00.00 TO 48+86.00 RT	0		124	124	463	PER GEOTECH RECOMMENDATION, ESTIMATED 850 CY OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.					
-Y2- 26+55.16 TO 37+15.00 LT	727		264		32						
-Y3- 12+50.00 TO 13+42.46 RT	73		41		495	PER GEOTECH RECOMMENDATION, ESTIMATED 800 CUBIC YARDS OF SELECT GRANULAR MATERIAL					
SUBTOTAL 10	800		429	124							

NOTE: Earthwork quantities are calculated by the Engineer.
These earthwork quantities are based in part on subsurface data
provided by the Geotechnical Engineering Unit.

NOTE: Approximate quantities only. Unclassified excavation, borrow excavation,
fine grading, clearing and grubbing, and removal of existing pavement
will be paid for at the contract lump sum price for grading.

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