RALPH WHITEHEAD ASSOCIATES
CONSULTING ENGINEERS
P.O. BOX 35624
CHARLOTTE, NORTH CAROLINA 28235

PROJECT REFERENCE NO.	SHEET NO.
37613, ETC.	3-A

STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

MAP #1 (DAVIDSON CO.)

	FROM STATION	TO STATION	SIDE	TOTAL UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT +%	BORROW	WASTE
-L-	13+15.00	20+70.00	LT & RT	2006		1178		828
-Y1-	10+83.00	11+75.00	LT & RT	35		4		31
-Y2-	10+25.00	11+18.00	LT & RT	68		37		31
INTERSECTION SUBTOTAL SUMMARY				2109		1219		890
ESTIMATED LOSS DUE TO CLEARING AND GRUBBING				-270			270	
SHOULDER MATERIAL						625	625	
EARTH WASTE TO REPLACE BORROW							-890	-890
PROJECT TOTAL				1839		1844	5	0
ESTIMATE 5% FOR TOPSOIL FOR BORROW PITS								
TOTAL				1839		1844	5	
SAY				1900		1900	0	

APPROX. DDE = 212 CU. YD.

MAP #2 (RANDOLPH CO.)

	FROM STATION	TO STATION	SIDE	TOTAL UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT +%	BORROW	WASTE
-L-	20+70.00	32+25.00	LT & RT	275		4448	4173	
INTERSECTION SUBTOTAL SUMMARY				275		4448	4173	
ESTIMATED LOSS DUE TO CLEARING AND GRUBBING				-430			430	
SHOULDER MATERIAL						750	750	
EARTH WASTE TO REPLACE BORROW								
PROJECT TOTAL				-155		5198	5353	
ESTIMATE 5% FOR TOPSOIL FOR BORROW PITS							268	
TOTAL				-155		5198	5621	
SAY				-155		5200	5700	

APPROX. DDE = 1678 CU. YD.

NOTE:
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, DRAINAGE DITCH EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING".

MAP #3

	FROM STATION	TO STATION	SIDE	TOTAL UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT +%	BORROW	WASTE
-L-	10+00.00	29+25.00	LT & RT	4407		3528		879
-Y2-	10+30.00	11+25.00	LT & RT	194		4		190
INTERSECTION SUBTOTAL SUMMARY				4601		3532		1069
ESTIMATED LOSS DUE TO CLEARING AND GRUBBING				-700			700	
SHOULDER MATERIAL						1872	1872	
EARTH WASTE TO REPLACE BORROW							-1069	-1069
PROJECT TOTAL				3901		5404	1503	0
ESTIMATE 5% FOR TOPSOIL FOR BORROW PITS							75	
TOTAL				3901		5404	1578	
SAY				3900		5400	1600	

APPROX. DDE = 140 CU. YD.

MAP #4

	FROM STATION	TO STATION	SIDE	TOTAL UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT +%	BORROW	WASTE
-L-	11+23.00	41+70.00	LT & RT	8993		8094		899
-Y1-	10+22.00	11+19.00	LT & RT	35		70	35	
-Y2-	10+99.00	11+93.00	LT & RT	90				90
-Y3-	10+92.00	11+75.00	LT & RT	80		2		78
-Y4-	10+22.00	11+42.00	LT & RT	64		35		29
INTERSECTION SUBTOTAL SUMMARY				9262		8201	35	1096
ESTIMATED LOSS DUE TO CLEARING AND GRUBBING				-108			108	
SHOULDER MATERIAL						2678	2678	
EARTH WASTE TO REPLACE BORROW							-1096	-1096
PROJECT TOTAL				9154		10879	1725	0
ESTIMATE 5% FOR TOPSOIL FOR BORROW PITS							87	
TOTAL				9154		10890	1812	
SAY				9200		10900	1900	

APPROX. DDE = 705 CU. YD.

$$$$$$$SYSTIME$$$$$
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