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

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

STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

MAP #5

	FROM STATION	TO STATION	SIDE	TOTAL UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT +%	BORROW	WASTE
-L-	10+00.00	31+25.00	LT & RT	5467		4047		1420
-Y1-	11+46.00	11+97.00	LT & RT	27				27
INTERSECTION SUBTOTAL SUMMARY				5494		4047		1447
ESTIMATED LOSS DUE TO CLEARING AND GRUBBING				-806			806	
SHOULDER MATERIAL						1412	1412	
EARTH WASTE TO REPLACE BORROW							-1447	-1447
PROJECT TOTAL				4688		5459	771	0
ESTIMATE 5% FOR TOPSOIL FOR BORROW PITS							39	
TOTAL				4688		5459	810	
SAY				4700		5500	900	

MAP #7

	FROM STATION	TO STATION	SIDE	TOTAL UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT +%	BORROW	WASTE
-L-	5+50.00	22+18.00	LT & RT	277		7984	7707	
-L-	45+11.00	64+25.47	LT & RT	3629		3992	363	
-L- SUBTOTAL SUMMARY				3906		11976	8070	
-Y1-	11+60.00	12+15.00	LT & RT	19				19
INTERSECTION SUBTOTAL SUMMARY				3925		11976	8070	19
ESTIMATED LOSS DUE TO CLEARING AND GRUBBING				-1290			1290	
SHOULDER MATERIAL						2022	2022	
EARTH WASTE TO REPLACE BORROW							-19	-19
PROJECT TOTAL				2635		13998	11363	0
ESTIMATE 5% FOR TOPSOIL FOR BORROW PITS							568	
TOTAL				2635		13998	11931	
SAY				2700		14000	12000	

APPROX. DDE = 3086 CU. YD.

MAP #6

	FROM STATION	TO STATION	SIDE	TOTAL UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT +%	BORROW	WASTE
-L-	12+67.00	17+28.00	LT & RT	1206		25		1181
-Y1-	10+50.00	11+56.00	LT & RT	66		17		49
INTERSECTION SUBTOTAL SUMMARY				1272		42		1230
ESTIMATED LOSS DUE TO CLEARING AND GRUBBING				-108			108	
SHOULDER MATERIAL						210	210	
EARTH WASTE TO REPLACE BORROW							-318	-318
PROJECT TOTAL				1164		252	0	912
ESTIMATE 5% FOR TOPSOIL FOR BORROW PITS								
TOTAL				1164		252		912
SAY				1200		250		1000

MAP #8

	FROM STATION	TO STATION	SIDE	TOTAL UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT +%	BORROW	WASTE
-L-	101+36.00	104+13.00	LT & RT	393		24		369
-Y1-	10+24.00	13+23.00	LT & RT	614		13		601
INTERSECTION SUBTOTAL SUMMARY				1007		37		970
ESTIMATED LOSS DUE TO CLEARING AND GRUBBING				-54			54	
SHOULDER MATERIAL						428	424	
EARTH WASTE TO REPLACE BORROW							-482	-482
PROJECT TOTAL				953		465	0	488
ESTIMATE 5% FOR TOPSOIL FOR BORROW PITS								
TOTAL				953		465		488
SAY				1000		500		500

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".

$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$