COMPUTED BY: D. PETRY DATE: 3/1/03
CHECKED BY: M. COPPLE DATE:

6/21/00

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-4270	3-A

ASPHALT PAVEMENT REMOVAL SUMMARY

STATION TO STATION	SQUARE YARDS
-L- STA. 12+58 TO -L- STA. 13+70 (BEGIN BRIDGE)	259.14
-L- STA. 15+50 (END BRIDGE) TO -L- STA. 16+62	238.47
PROJECT TOTAL	497.61
SAY	500

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".

SUMMARY OF EARTHWORK

STATION TO STATION	UNCLASIFIED EXCAVATION (cu. yds)	UNDERCUT (cu. yds)	ROADWAY EMBANKMENT + % (cu. yds)	BORROW (cu. yds)	TOTAL WASTE (cu. yds)
SUMMARY #1					
-L- STA. 9+40.00 -L- STA. 13+70.00 (BEGIN BRIDGE)	201		547	447	101
SUMMARY #2					
-L- STA. 15+50 (END BRIDGE) -L- STA. 19+00.00	38		121	102	19
SUBTOTAL (SUMMARIES 1-2)	239		668	549	120
EST. 5% FOR REPLACING TOPSOIL ON BORROW PITS				27	
GRAND TOTAL	239		668	576	120
SAY	240		670	580	120

ESTIMATED UNDERCUT = 200 CY.
ESTIMATED DRAINAGE DITCH EXCAVATION = 6 CY.

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH: STRAIGHT	LENGTH: SHOP CURVED	LENGTH: DOUBLE FACED	WARRANT POINT: APPROACH END	WARRANT POINT: TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH: APPROACH END	FLARE LENGTH: TRAILING END	W: APPROACH END	W: TRAILING END	ANCHORS: XI MOD	XI	GRAU 350	M-350	XIII	CAT-A	VI MOD	BIC	TYPE III	IMPACT ATTENUATOR TYPE 350	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	11+45.50	13+58.00	RT.	212.50'			13+58.00		6'	9'	100.00'		2.00'				1						1					
-L-	12+58.00	13+58.00	LT.	100.00'				13+58.00	6'	9'		81.25'		1.62'			1						1					
-L-	15+62.00	16+62.00	RT.	100.00'				15+62.00	6'	9'		81.25'		1.62'			1						1					
-L-	15+62.00	18+37.00	LT.	275.00'			15+62.00		6'	9'	100.00'		2.00'				1						1					
																	4						4					
SUBTOTAL				687.50'																								
DEDUCTION FOR ANCHOR UNITS:				-275.00'													DEDUCTIONS FOR ANCHOR UNITS:											
											ADDITIONAL GUARDRAIL POSTS ..... 5 EA.						4 GRAU-350 @ 50.00' = 200.00'											
																	4 TYPE III @ 18.75' = 75.00'											
TOTAL				412.50'													TOTAL 275.00'											
			SAY	412.50'																								

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12"	15"	18"	24"	30"	36"	42"	48"	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHRWISE) 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0')	LIN. *FT. A: 5.0' THRU 10.0'	LIN. *FT. B: 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	TRAFFIC BEARING DROP INLET STD. 840.35	NARROW SLOT FRAME AND GRATE STD. 840.29	PREFORMED SCOUR HOLE (SEE SHEET 2-A)	CORL STEEL ELBOWS NO. & SIZE (BITUMINOUS COATED)	REMARKS
-L- 13+45	RT.	1		86.35																									1								1	1										
-L- 13+45	RT.	1	2		83.15	82.85			24																																							
-L- 13+45	LT.	2		86.35																									1								1	1										
-L- 13+45	LT.	2	3		82.70	81.00											16																													1		2-15"	
-L- 15+77	LT.	4		85.66																									1								1	1										
-L- 15+77	LT.	4	5		82.46	82.16			24																																							
-L- 15+77	RT.	5		85.66																									1								1	1										
-L- 15+77	RT.	5	6		82.00	78.00											12																													1		2-15"	
-L- 17+00	CL.	7			78.50	78.50							72																																			EQUALIZATION PIPE
TOTALS									48				72				28												4								4	4								2		4-15"	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
M.D.I. (N.S.)	MEDIAN DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUCTION BOX

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