6/21/00

COMPUTED BY:	MJD	DATE:	11/16/04
CHECKED BY:	SA	DATE:	1/20/04

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-3662	3-A

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
-L- (RT) 11+00 TO 15+50	3004		51		2953
-L- (LT) 11+00 TO 17+00	1558		48		1510
-L- (FULL) 15+50 TO 20+50	66		3774	3708	
-L- (RT) 20+50 TO 24+50	9		472	463	
-L- (LT) 18+50 TO 24+50	179		66		113
TOTAL	4816		4411	4171	4576
SHOULDER CONSTRUCTION			522	522	
WASTE IN LIEU OF BORROW				-2953	-2953
PROJECT TOTAL	4816		4933	1740	1623
5% REPLACING TOPSOIL ON BORROW PITS				87	
GRAND TOTAL	4816			1827	1623
SAY	4820			1875	1623
CONTINGENCY UNDERCUT	500				
DDE	450				

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

SHOULDER BERM GUTTER

LINEAR FEET

STATION TO STATION	LOCATION	LENGTH
-L-		
21+50.00 to 24+00.00	LT	250'
TOTAL		250'
SAY		260'

REMOVAL OF EXISTING ASPHALT PAVEMENT

SQUARE YARDS

STATION TO STATION	LOCATION	YD²
-L-		
14+00.00 to 17+98.00	LT	673.63
18+26.00 to 22+00.00	LT	680.40
TOTAL		1354.03
SAY		1375

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
11+65	RT	1																					
11+84	LT	2																					
13+25	LT	3																					
13+83	LT	4																					
14+40	RT	5																					
14+72	LT	6																					
14+99	RT	7																					
15+54	LT	8																					
19+19	LT	9																					
21+00	LT	10	11		2070.78	2071.14				48'													
21+50	LT	11		2074.14																			
21+50	LT	11	12		2071.14	2076.00				188'													
23+37	LT	12		2079.00																			
23+37	LT	12	13		2076.00	EX. DITCH				96'													
TOTAL:										332'													

STATION	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 STD. 838.11 OR STD.838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. *FT. A 5.0' THRU 10.0'	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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	M.D.I. TYPE "A" STD. 840.17 OR 840.26	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. TYPE "D" STD. 840.19 OR 840.28	M.D.I. FRAME WITH GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	T.B.D.I. STD. 840.35	M.D.I. FRAME WITH TWO GRATES STD. 840.29	TEMPORARY STEEL PLATE COVERS	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
11+65		40'																											40'	DRIVEWAY PIPE
11+84	36'																												29'	DRIVEWAY PIPE
13+25	32'																												30'	DRIVEWAY PIPE
13+83	36'																												30'	DRIVEWAY PIPE
14+40		28'																											30'	DRIVEWAY PIPE
14+72	36'																												20'	DRIVEWAY PIPE
14+99		36'																											22'	DRIVEWAY PIPE
15+54		48'																												DRIVEWAY PIPE
19+19		48'																												DRIVEWAY PIPE
21+00																														
21+50						1																	1	1	1					
21+50																														
23+37						1																	1	1	1					
23+37																														
TOTAL:	140'	200'				2																	2	2	2				201'	

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

"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.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

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	FLEAT (TL-3)	CAT-1	VI MOD	BIC	AT-1	IMPACT ATTENUATOR TYPE 350 EA	G	NG	TEMPORARY WBEAM ANCHOR UNITS	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	17+21.00	18+99.00	LT	178.00'			17+97.00	18+46.00	8'	11'	50'	50'	1'	1'			2													
-L-	16+73.00	19+29.00	RT	256.00'			18+10.00	18+55.00	8'	11'	50'	50'	1'	1'			2													
																											2			SEE TRAFFIC PLANS FOR LOCATION
			SUBTOTAL:	434.00'	ADD'L GUARDRAIL POSTS = 5															ANCHOR DEDUCTIONS:										
			ANCHOR DEDUCTIONS:	-200'																GRAU-350: 4 @ 50' = 200'										
			TOTAL:	234'																										
			SAY:	237.50'																										

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