6/21/00

COMPUTED BY: S. MEADOWS	DATE: 1/05
CHECKED BY: J. BRAXTON	DATE: 1/25/05

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-3828	3A

"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	50:1 FLARE LENGTH APPROACH END	50:1 FLARE LENGTH TRAILING END	W APPROACH END	W TRAILING END	ANCHORS XI MOD	ANCHORS XI	ANCHORS GRAU 350	ANCHORS M-350	ANCHORS TYPE III	ANCHORS CAT-1	ANCHORS VI MOD	ANCHORS BIC	ANCHORS AT-1	IMPACT ATTENUATOR TYPE 350 EA	IMPACT ATTENUATOR TYPE 350 G	IMPACT ATTENUATOR TYPE 350 NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	12+12.50	13+81.25	LT	168.75				13+81.25	3	9		150		3			1		1											
-L-	15+48.75	16+30.00	LT	168.75			16+30		3	9	150		3				1		1											
-L-	12+12.50	13+81.25	RT	168.75			13+81.25		3	9	150		3				1		1											
-L-	15+48.75	17+17.50	RT	81.25				15+48.75	3	9		62.5		1.25			1		1											
			SUB-TOTAL:	587.5								ANCHOR DEDUCTION:					4		4											
			ANCHOR DEDUCTION:	-275								GRAU-350 4 @ 50 = 200			=275															
			TOTAL:	312.5								TYPE III 4 @ 18.75 = 75																		
			SAY:	325								ADDITIONAL GUARDRAIL POSTS : 5																		

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

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION IN	INVERT ELEVATION OUT	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	24" (2nd col)	30" .079	30" (2nd col)	36" .079	36" (2nd col)	42" .109	42" (2nd col)	48" .109	48" (2nd col)
12+80	LT	1		800.29																								
12+80	LT	1	OUT		797.54	796.30											20											
15+73	LT	2		808.61																								
15+73	LT	2	OUT		805.86	798.50											24											
12+80	RT	3		800.29																								
12+80	RT	3	OUT		797.54	794.40											20											
TOTAL:																	64											

STATION	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.	ENDWALLS CU. YDS. 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'	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		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. 840.29	J.B. STD. 840.31 OR 840.32	T.B.D.I. STD. 840.35							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
12+80						1																1		1											
12+80																															2@15"				
15+73						1																1		1											
15+73																															2@15"				
12+80						1																1		1											
12+80																															2@15"				
TOTAL:						3																3		3							6@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

SUMMARY OF EARTHWORK
IN CUBIC YARDS

LOCATION	*UNCL. EXCAVATION*	*UNDERCUT*	*EMB+%*	*BORROW*	*WASTE*
-L- STA. 10+95.00 TO 13+90.00 BEG. BRIDGE	*28*		*1342*	*1314*	
END BRIDGE -L- 15+40.00 TO 18+00.00	*102*		*1866*	*1764*	
PROJECT TOTAL	*130*		*3208*	*3078*	
EST. 5% REPLACE TOPSOIL ON BORROW PIT				*154*	
GRAND TOTAL	*130*			*3232*	
SAY	*145 CY*			*3250 CY*	
CONTINGENCY					
UNDERCUT EXCAVATION TO BE WASTED - 100 CY					
SUBGRADE STABILITY UNDERCUT - 50 CY					
PAVEMENT STRUCTURE VOLUME = 327 CY					
EST. DDE = 20 CY					

PARCEL INDEX

PARCEL NO.	PROPERTY OWNERS NAMES	SHEET NUMBER
1	Esther C. Greene	4
2	Robert S. Browne & Mollie A. Browne	4
3	Dean V. Gardener & Shelia B. Gardener	4
4	Junior Martin & Marrie Martin	4

REMOVAL OF EXISTING ASPHALT PAVEMENT

LINE	STATION RANGE	WIDTH (FT)	TOTAL (SY)
-L-	10+95 TO 12+50	18.2	313.4
-L-	17+25 TO 18+00	18.2	151.7
		TOTAL	465.1
		SAY	470

BREAK-UP OF EXISTING ASPHALT PAVEMENT

LINE	STATION RANGE	WIDTH (FT)	TOTAL (SY)
-L-	12+50 TO 14+00	18.2	303.3
-L-	15+20 TO 17+25	18.2	414.6
		TOTAL	717.9
		SAY	720

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

21-FEB-2005 15:29
r:\roadway\proj\b3828_rdy_sum_3a.dgn
smeadows AT RD212457