COMPUTED BY: BDP/LAT	DATE: 04.07.03
CHECKED BY: SER	DATE: 04.07.03
REVISED BY: BDP	DATE: 10.20.03

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-3300	3-A

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) * UNCOATED 12" .064	15" .064	18" .064	24" .064	30" .079	.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) *STD. 838.02 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'	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	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	T.B.D.I. STD. 840.36	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	J.B. STD. 840.31 OR 840.32	M.H. STD. 840.54	T.B.J.B. STD. 840.34	25" SLUICE GATE, STD. 838.02	CONC. & BRICK PIPE PLUG CY STD. 840.71	CORR. STEEL ELBOWS NO. & SIZE	PIPE REMOVAL LIN.FT.	REMARKS
-L- 12+20	RT.	1		2798.3																									1	5	0.35								1	1											
-L- 12+20	RT.	1	2		2788.0	2782.0											48																																	
-L- 12+12	RT.	3	3A		2782.0	2775.6												*72													*1.0																				
-L- 15+48	RT.	6	1		2789.0	2788.1			324																																								0.130		8.4	REM. 8.4' OF EXIST. 18" CMP AND PLUG
-L- 15+50	LT.	4		2792.9																									1						1	1															
-L- 15+50	CL.	4	5		2789.9	2783.7				100																																							0.130		21	REM. 21' OF EXIST. 18" CMP AND PLUG
-L- 15+48	RT.	6		2793.4																									1								1	1													
-L- 15+48	RT.	7	6		2789.2	2789.0			84																																										
-Y2- 10+64	RT.	7		2792.3																									1								1	1													
-Y2- 10+64	CL.	8	7		2789.3	2789.2			36																																										
-Y2- 10+64	LT.	8		2792.1																									1								1	1													
-L- 18+26	LT.	9		2792.5																									1								1	1													
-L- 18+26	RT.	9	13		2789.7	2786.4			220																																										
-L- 18+41	RT.	10		2792.5																									1								1	1													
-L- 18+41	RT.	10	11		2790.6	2790.4			20																																										
-L- 20+13	RT.	12																							24																										
-L- 20+50	LT.	13		2790.1																									1								1	1													
-L- 20+50	CL.	13	14		2786.4	2786.2			68																																										
-L- 20+50	LT.	13A	13		2787.7	2786.4											12																																0.09			TO BE PLUGGED UPON COMPLETION OF H.W.R.B. (SEE PLANS). INCLUDES TEMPORARY PLUG
-L- 22+00	LT.	15	13		2786.8	2786.4			144																																										
-L- 22+00	LT.	15		2788.7																									1								1	1													
-L- 21+92	LT.	16		2786.4																									1						1	1															
-L- 21+92	CL.	16	17		2783.7	2778.4											32																																	2@15		
-L- 21+92	CL.	17		2789.5																									1	5	1.18									1	1										
-L- 21+74	RT.	18	19		2785.9	2775.1												*36													*1.0													1						2@18		H.W.R.B.
-L- 22+06	RT.	19		2786.7																									1	5	1.57											1	1								
-L- 23+27	LT.	20																							32																										
GRAND TOTAL:									896	100							92	*108							56			*2.0	12	15	3.1				2	2	8	8		1	2	1		2							0.35	4@18	29.4	
																														SAY	20																				SAY	30	

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
H.W.R.B.	HAZARDOUS WASTE RETENTION BASIN

"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.

GUARDRAIL SUMMARY

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

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 III MOD	III	GRAU 350	M-350	XIII	CAT-1	VI MOD	BIC	AT-1	IMPACT ATTENUATOR TYPE 350 EA	G	NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	11+49.28	15+67.13	RT.	412.50'			12+50.00		*4'	7'	50'		1'				1						1					403'		* VARIES 4' TO 6' -L- STA. 14+69.23 TO 15+69.23
-Y2-	10+29.06	10+48.00	LT.	6.25'	37.5'																									
-Y1-	10+34.73	11+00.44 (APR.SLAB)	RT.	43.75'	31.25'			11+00.44 (APR.SLAB)	4'	11'						1							1							TYPE III, SHOP CURVED
-Y2-	10+62.76	10+23.15 (APR.SLAB)	RT.		50.00'		10+62.76		4'	11'						1							1							TYPE III, SHOP CURVED
-L-	17+91.64 (APR.SLAB)	20+14.73	LT.	218.75'			17+91.64 (APR.SLAB)		4'	11'	200'		4'			1	1													
-L-	18+17.04 (APR.SLAB)	19+10.79	RT.	93.75'				18+17.04 (APR.SLAB)	4'	11'		75'		1.5'		1	1													
-L-	21+52.67	22+72.51	RT.	125'			22+50.00		8'	11'	50'		1'				1											272'		TIE TO REMAINING EXISTING GUARDRAIL
-DR1-	10+01.35		LT.	6.25'																			1					84'		TIE TO REMAINING EXISTING GUARDRAIL
			SUB-TOTALS:	906.25'	118.75'											4	4						4					759'		
LESS ANCHOR DEDUCTIONS:			GRAU 350 4 @ 50	-200'																										
			AT-1 4 @ 6.25	-18.75'	-6.25'																									
			TYPE III 4 @ 18.75	-37.5'	-37.5'																									
			ANCHOR TOTAL DEDUCTION:	-256.25'	-43.75'																									
			GRAND TOTALS:	650'	75'																									
			SAY:	662.50'	75'	ADDITIONAL GUARDRAIL POSTS: 5										4	4						4					760'		

6/21/00
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