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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5898	3D-4

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

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

LINE & STATION / SIZE / THICKNESS OR GAUGE	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	C. S. PIPE 12 .064	C. S. PIPE 15 .064	C. S. PIPE 18 .064	C. S. PIPE 24 .064	C. S. PIPE	C. S. PIPE 30 .079	C. S. PIPE	R. C. PIPE CLASS III 12	R. C. PIPE CLASS III 15	R. C. PIPE CLASS III 18	R. C. PIPE CLASS III	R. C. PIPE CLASS IV 12	R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24	R. C. PIPE CLASS IV 30	R. C. PIPE CLASS IV	ELLIPICAL 19" x 30" RCP CLASS III	12" FUNNEL DRAIN PIPE	24" WELDED STEEL PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G		CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	M.H. FRAME AND COVER STD. 840.54		CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	FUNNEL DRAIN STD. 820.01	12" FUNNEL DRAIN ELBOW	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	MODIFIED CONC. FLUME	PREFORMED SCOUR HOLE (PER EACH)	ENERGY DISSIPATION BASIN		FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 52+73	87	RT	0733																													1															1			1																																						
			0733	0716																		12																																																																				
L 59+01	1	RT	0801		2637.9																											1																																	1	1																							872	
			0801	0802		2629.8	2629.8																	4																																																																				
L 59+01	4	RT	0802		2637.5																											1																																	1	1																								
			0802	0725		2629.8	2616.2																	396																																																																				
L 63+51	73	LT	0803		2646.0																											1															1			1																																						
			0803	0804		2641.5	2641.1																	72																																																																			
L 63+52	0	CL	0804		2646.1																											1	0.1														1					1																																				
			0804	0818		2641.0	2640.0																	184																																																																			
L 67+77	74	LT	0805		2648.5																											1															1			1																																						
			0805	0810		2644.0	2643.8																	36																																																																			
Y1RT 44+24	21	RT	0806		2649.7																											1																																	1	1																								
			0806	0808		265.2	2645.0																	28																																																																				
RW12 44+28	2	LT	0807		2649.0																											1															1			1																																						
			0807	0806		2646.0	2645.2																	8																																																																			
L 66+92	72	RT	0808		2649.6																											1																																	1	1																								
			0808	0809		2645.0	2643.0																	92																																																																			
L 67+49	0	CL	0809		2647.5																											1															1					1																																				
			0809	0804		2643.0	2641.0																	396																																																																				
L 68+16	74	LT	0810		2648.3																											1															1			1																																						
			0810	0809		2643.8	2643.0																	100																																																																			
L 70+35	75	LT	0811		2646.0																											1																																	1	1																								
			0811	0826		2641.5	2640.2																	96																																																																					
L 72+92	75	LT	0813		2642.0																											1																																	1	1																								
			0813	0814		2637.5	2624.2	0.4			24																																																																2												
L 69+30	72	RT	0815		2649.2																											1																																	1	1																								
			0815	0822		2644.7	2644.6																	24																																																																				
L 71+71	91	RT	0816		2643.2																											1															1			1																																						
			0816	0823		2640.1	2640.0																	24																																																																				
L 72+00	90	RT	0817		2643.3																											1															1			1																																							
			0817	0816		2640.3	2640.1																	28																																																																					
L 61+65	1	RT	0818		2644.5																											1															1			1																																						
			0818	0801		2639.5	2632.9																		264																																																																					
L 71+70	0	CL	0819		2645.7																											1	1.1														1			1																																						
			0819	0902		2639.7	2635.5																	308																																																																				
Y1RT 37+02	22	RT	0820		2638.7																											1																																	1	1																								
			0820	0831		2634.2	2633.2																	32																																																																					
L 69+55	73	RT	0822		2649.1																											1																																	1																									
			0822	0823		2644.6	2640.0																	24																																																																				
I 71+70	66	RT	0823		2646.4																											1	1.4																													1				1																							
			0823	0819		2640.0	2639.7																	64																																																																				
L 69+87	10	RT	0824		2649.5																											1															1			1																																						
			0824	0825		2645.3	2642.9																	12																																																																				
L 69+87	0	CL	0825		2645.9																											1															1				1																																					
			0825	0819		2642.9	2639.7																	180																																																																				
L 71+32	75	LT	0826		2644.7																											1																																	1	1																								
			0826	0827		2640.2	2639.1																	68																																																																				
L 72+00	75	LT	0827		2643.6																											1																																	1	1																								
SHEET TOTALS											24											1788	264	400								25	2.6														13			10	1	2									1		11	10	1											2											872	

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
N.S.	NARROW SLOT
P.V.C.	POLYVINYL CHLORIDE
R.C.	REINFORCED CONCRETE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX
W.S.	WIDE SLOT