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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5898 DETOUR	3D-11

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 %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 12	15	18	DO NOT USE PP PIPE	C. S. PIPE .064 12	.064 15	.064 18	.064 24	.079 30	R. C. PIPE CLASS III 12	15	18	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	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
		2615	2614		2646.4	2646.1															48																
DET01_WB 61+40	26 LT	2616		2644.6																										1							
		2616	2603		0.4	2638.4														88																	
DET01EBEXT 48+50	9 LT	2617		2648.1																										1							
		2617	2618		2644.8	2643.7														72																	
DET01EBEXT 49+25	9 LT	2618		2646.9																										1							
		2618	2619		2643.7	2642.4														84																	
DET01EBEXT 50+09	9 LT	2619		2645.6																										1							
		2619	2620		2642.4	2640.0														44																	
DET01EBEXT 50+09	33 RT	2620		2642.8																										1							
		2620	2701		2640.0	2639.6			120																												
DET01EBEXT 51+31	30 RT	2701		2644.0																										1							
		2701	2702		2639.6	2636.0	0.3		8																												
DET01EBEXT 51+32	23 RT	2702		2643.8																																	
DET01_EB 63+95	25 LT	2703		2642.1																																	
DET01EBEXT 54+29	6 LT	2711		2634.4																										1							
		2711	2712		2631.4	2631.0		32																													
SHEET TOTALS								32	128											288	48									7							
PROJECT TOTALS								72	128			60	48			52			152	812	324		232	560	316					49	38.5							

STRUCTURE NUMBER FROM	TO	CONCRETE TRANSITIONAL SECTION: D.I. STD. 852.06 OR STD. 852.06	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	TEMP STEEL PLATE COVER MASONRY DRAINAGE	##" SPRING BOX PIPE	SPRING BOX STD. 840.41	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.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	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
2615	2614																																																
2616																														1	1																		
2616	2603																																																
2617																														1	1																		
2617	2618																																																
2618																														1	1																		
2618	2619																																																
2619																														1	1																		
2619	2620																																																
2620																																																	
2620	2701																																																
2701						1	1																																										
2701	2702																																																
2702																																1					1												COVER DI GRATE W/ 1/2" STEEL PLATE
2703																																1																	COVER DI GRATE W/ 1/2" STEEL PLATE
2711																														1	1																		435
2711	2712																																																
SHEET TOTALS						1	1		1						1															5	5	2					1											435
PROJECT TOTALS						3	3	1	5	2		1	1	6												13		25	26	6				3			1				4	2		2			21			3452

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