COMPUTED BY:	JL MOORE	DATE:	6/1/2015
CHECKED BY:	PA JORDAN	DATE:	6/1/15

D3CAD274448

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5103	3D-3

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".

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

STATION / SIZE / THICKNESS OR GAUGE / -L-	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP,CSP,CAAP,HDPE,orPVC) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	R.C. PIPE CLASS III 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	24" WELDED STEEL PIPE, 0.5" THICK	30" WELDED STEEL PIPE, 0.5" THICK	36" WELDED STEEL PIPE, 0.5" THICK	4 SIDE OPEN THROAT CATCH BASIN (SEE DETAIL 2C-6)	ADJUST CB	ADJUST DI	CONVERT TBDI TO TBJB (SEE DETAIL 2C-4)	TEMP. STEEL PLATE COVERS FOR DRAINAGE STRUCTURES (SEE DETAIL 2C-5)	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	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	O.T.C.B. STD. 840.04 OR STD. 840.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	GRATE WITH FRAME, DRIVEWAY DROP INLET STD. 840.30	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	T.B.D.I. STD. 840.35	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	M.H. FRAME AND COVER STD. 840.54	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	G.D.I. TYPE "A" STD. 840.17, 840.26	ENERGY DISSIPATOR BASIN	FLOWABLE FILL (CY)	DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. B C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
200+00	LT	1502		41.6	36.8																																														1																		1			1							
198+00	CL	1501		42.9	39.9																																														1																		1			1							
201+90	LT	1503		40.9	36.4																																														1																		1			1							
		1501	1502		39.9	37.3																																200																																											
		1502	1503		36.8	36.2																																	190																																									
205+40	LT	1613		42.4	39.2																																														1							1			1	1																		
205+40	RT	1614		41.9	38.7																																														1							1			1	1																		
204+50	CL	1615		42.2	38.5																																														1							1			1	1																		
204+00	LT	1616		42.1	38.3																																														1							1			1	1																		
203+50	LT	1617		41.9	38.2																																														1							1			1	1																		
		1613	1614		39.2	38.7																															20																																												
		1614	1615		38.7	38.5	X																														84																																												
		1615	1616		38.5	38.3	X																														48																																												
		1616	1617		38.3	38.2	X																														48																																												
		1617	1503		38.2	36.9	X																														160																																												
		1503	1505		36.4	36.0	X																																	84																																									72.00	
206+50	RT	1612		41.7	39.5																																														1			1	1				1																				
207+00	RT	1611		41.9	39.3																																														1			1			1		1																				
208+00	CL	1610		41.9	39.0																																														1			1			1		1																				
208+50	RT	1609		43.0	38.9																																														1			1	1				1																				
209+35	CL	1607		43.2	38.1																																														1			1		1			1																				
213+00	CL	1601		47.9	45.2																																														1													1					1										
211+80	RT	1602		46.5	43.3																																														1							1			1	1																		
211+35	LT	1603		46.0	42.8																																														1							1			1	1																		
210+90	LT	1604		44.8	41.6																																														1							1			1	1																		
209+35	LT	1606		42.6	38.1																																														1			1			1		1																				
		1612	1611		39.5	39.3	X																														48																																												
		1611	1610		39.3	39.0	X																														100																																												
		1610	1609		39.0	38.9	X																														48																																												
		1609	1607		38.9	38.6	X																														84																																												
		1601	1602		45.2	43.3	X																														120																																												
		1602	1603		43.3	42.8	X																														52																																												
		1603	1604		42.8	41.6	X																														48																																												
		1604	1607		41.6	40.2	X																														148																																												
		1605	1606		38.2	38.1	X																																64																																										59.00	
		1606	1607		38.1	38.1	X																																4																																											
		1607	1608		38.1	37.9	X																																	64																																									56.00	
205+00	RT	1618										288																																																																						
		804	807		41.6	40.2	X																														148																																												
		805	806		38.2	38.1	X																																64																																										59.00	
		806	807		38.1	38.1	X																																4																																											
		807	808		38.1	37.9	X																																	64																																									56.00	
205+00	RT	899										288																																																																						
SHEET TOTALS												576																									1156	200	326	212											18			6	2	1	3	8	6		8	8		1					4			3						302	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	(NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX