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COMPUTED BY: RCH DATE: 2/27/2015

CHECKED BY: JGD DATE: 2/27/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5206AG	3D-1

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)

DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC): 6" 12" 15" 18" 24" 30" 36" 42" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE

C.S. PIPE: 12" 15" 18" 24" 30" 36" 42" 48" — .064 .064 .064 .064 .079 .079 .109 .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" 48"

ENDWALLS: STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) — CU. YARDS: 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')

STATION	SIZE / THICKNESS OR GAUGE	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, or PVC)	C.S. PIPE	R.C. PIPE CLASS III	R.C. PIPE CLASS IV	*** R.C. PIPE (CLASS V)	**** RC. PIPE CULVERTS, CONTRACTOR DESIGN	**** RC PIPE CULVERTS, CONTRACTOR DESIGN	15" WELDED STEEL PIPE, 0.500" THK., GRADE 'B', IN SOIL (TRENCHLESS INSTALLATION)	15" WELDED STEEL PIPE, 0.500" THK., GRADE 'B', NOT IN SOIL (TRENCHLESS INSTALLATION)	ENDWALLS R.C.P.	ENDWALLS C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES: PER EACH (0' THRU 5.0')	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	CONCRETE TRANSITIONAL SECTION: DROP INLET	CATCH BASIN	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	MODIFIED CONCRETE FLUME	FRAME WITH TWO GRATES, STD. 840.16	J.B. STD. 840.31 OR 840.32	G.D.I. TYPE B STD. 840.18 OR 840.27	G.D.I. (N.S. FLAT) FRAME W/2 GRATES STD. 840.29	ADJUST M.H., EA.	D.I. STD. 840.14 OR STD. 840.15	M.H. STD. 840.52	M.H. FRAME AND COVER STD. 840.54	DRAINAGE PIPE ELBOWS NO. & SIZE	CORR. STEEL ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS C.L. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
L 19+00		RT	401		170.20																																					RETAIN EX. C.B.
L 22+86		RT	402		180.33																																					RETAIN EX. C.B.
			402	401		172.93	164.82																																			RETAIN EX. 15" RCP
L 22+85		LT	403		180.27																																					RETAIN EX. C.B.
			403	402		176.47	176.03																																			RETAIN EX. 15" RCP
L 22+85		LT	404		178.64															1												1									REMOVE EX. D.I.
			404	403		176.72	176.50	0.50			20																														20	REMOVE EX. 12" RCP
L 25+33		LT	405		184.00															1												1									
			405	404		182.08	176.72	0.30			244																															
L 26+43		LT	410		187.00															1													1								
			410	405		183.68	182.08				120																															
L 27+30		LT	411		187.83															1			1	1																	
			411	410		183.96	183.68				92																															
L 27+75		LT	412		188.28															1			1	1																	
			412	411		184.17	183.96				68																															
L 28+12		LT	414		187.00															1													1								
			414	412		184.40	184.17				76																															
L 29+16		LT	415		188.37																																					RETAIN EX. M.H.
			415	414		184.72	184.40				108																															
L 20+45		RT	417		179.25															1	5	5.47																	1	1	
			417	416		163.78	163.00				260																															
L 25+45		RT	418		186.00															1	5	9.84																	1	1	
			418	417		166.16	164.66											375	125																						
CUL 17+48		LT	419		170.41															1													1								
			419	418		167.16	166.16											249	83																						
CUL 16+09		LT	420		171.08															1													1								
			420	419		167.91	167.24				140																															
CUL 17+48		RT	422		170.41															1													1								
			422	419		167.24	167.16				28																															
CUL 16+09		RT	421		171.21															1													1								
			421	420		168.04	167.91				20																															
L 33+38		RT	433		181.52																																					RETAIN EX. C.B.
			433	434		176.82	175.99																																			RETAIN EX. 15" RCP
L 30+06		RT	431		185.84																																					RETAIN EX. J.B.
			431	433		179.04	177.02																																			RETAIN EX. 15" RCP
L 33+30		LT	432		184.01															1													1								
			432	433		180.84	178.00																																			
L 30+07		RT	430		185.10															1			1		1																
			430	431		182.10	182.08				4																															
L 30+07		LT	429		187.08															1													1								
			429	430		182.83	182.10				36																															
L 26+05		RT	408		186.86															1	0.73												1								
			408	407		181.13	180.78																																			RETAIN EX. 15" RCP
L 26+02		RT	407		185.68																																		1			
			407	402		180.58	174.63																																			RETAIN EX. 15" RCP
L 26+02		RT	406		185.11															1			1			1															REMOVE EX. C.B.
			406	407		180.63	180.60																																			
SHEET TOTALS											1216							624	208				17	10.73	15.31	4	2	1	1		2		9		2	1	9	2	2					20	

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