COMPUTED BY:	W. T. Best	DATE:	7/11/2014
CHECKED BY:	D.D. Klein	DATE:	8/6/2014

RD266429

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-5115	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)

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) 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" (4.000)	15" (4.000)	18" (4.000)	24" (4.000)	30" (4.000)	36" (4.000)	42" (4.000)	48" (4.000)
10+28.380-L-	CL	401			2163.50	2162.61																					
15+39.23 -L-	Lt.	402		2166.00	2163.25																						
15+37.86 -L-	Rt.	403		2167.34	2162.75																						
		402	403		2163.25	2162.75																					
15+50.18 -L-	Rt.	406		2152.50	2150.33																						
		403	406		2162.75	2150.33															36'						
15+24.85 -L-	Rt.	406	405		2150.33	2149.70				28'																	
17+45.38 -L-	Rt.	408		2173.00	2167.75																						
16+81.42 -L-	Rt.	409		2161.93	2159.43																						
		408	409		2167.75	2159.43				80'																	
		409	406		2153.50	2153.15				144'																	
SHEET TOTALS										252'											36'						
PROJECT TOTALS										252'											36'						
SAY																											

STATION	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS V 12"	15"	18"	24"	30"	36"	42"	48"	** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	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 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
10+28.380-L-											80'															
15+39.23 -L-																								1		
15+37.86 -L-																								1		
(402–403)		52'																								
15+50.18 -L-																								1		
17+45.38 -L-																								1	0.25	
16+81.42 -L-																								1		
SHEET TOTALS		52'									80'													5	0.25	
PROJECT TOTALS		52'									80'													5	0.25	
SAY																									1	

STATION	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 (EACH) DROP INLET	CATCH BASIN	OPEN THROAT CATCH BASIN STD. 840.04 OR 840.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH TWO GRATES STD. 840.20	G.D.I. N.S. FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	M.H. FRAME AND COVER STD. 840.54	T.B.D.I. STD. 840.35	ADJUST EXIST. DI	G.D.I. FRAME WITH TWO GRATES STD. 840.29		DRAINAGE PIPE ELBOWS NO. & SIZE	SPECIAL 2-G.I. (DETAIL SHEET 2-?)	CS 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
15+39.23 -L-											1			1													
15+37.86 -L-											1								1								
15+50.18 -L-											1			1													
(403–406)																							2 @ 15"				
15+24.85 -L-																											Outlet pipe
17+45.38 -L-											1			1													
16+81.42 -L-											1			1													
(409–406)																											Cl "I" Rip Rap Req'd
SHEET TOTALS											5			4					1								
PROJECT TOTALS											5			4					1				2 @ 15"				
SAY																											

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