COMPUTED BY: KAP DATE: 10/3/2016

CHECKED BY: DZK DATE: 10/3/2016

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-4753	3D-8

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	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) SIZE 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 SIZE 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS III SIZE 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV SIZE 12"	15"	18"	24"	30"	36"	42"	48"
								THICKNESS OR GAUGE												.064	.064	.064	.064	.079	.079	.109	.109																
198+43 -L-	LT	1701		2207.8'																																							
198+93 -L-	LT	1701	1702		2204.7'	2200.2'																																100					
199+44 -L-	LT	1702		2203.4'																																							
199+34 -L-	LT	1702	1709		2200.2'	2202.4'			24																																		
199+23 -L-	LT	1709		2204.6'																																							
200+19 -L-	LT	1702	1703		2200.2'	2191.4'			148																																		
200+94 -L-	LT	1703		2193.6'																																							
201+45 -L-	LT	1703	1704		2191.4'	2189.0'			100																																		
201+97 -L-	LT	1704		2191.3'																																							
202+19 -L-	LT	1704	1705		2189.0'	2187.3'			44																																		
202+43 -L-	LT	1705		2190.3'																																							
202+21 -L-	C/L	1705	1706		2187.3'	2180.1'																92																					
201+93 -L-	RT	1706		2183.1'																																							
201+93 -L-	RT	1710		2183.1'																																							
201+93 -L-	RT	1706	1710		2180.1'	2178.5'					20																																
201+75 -L-	RT	1710	1711		2178.5'	2178.0'					80																																
206+68 -L-	RT	1712		2175.8'																																							
206+83 -L-	C/L	1707	1712		2173.2'	2173.5'																																64					
206+93 -L-	LT	1707		2176.3'																																							
207+59 -L-	LT	1707	1708		2173.2'	2167.1'																																128					
208+25 -L-	LT	1708		2169.3'																																							
208+71 -L-	LT	1708	1801		2167.1'	2161.1'			92																																		
209+19 -L-	LT	1801		2164.5'																																							
209+20 -L-	C/L	1801	1802		2161.1'	2150.4'																84																					
10+74 -Y4-	C/L	1803	1806		2157.7'	2154.9'																																					
11+25 -Y4-	LT	1807																																									
212+75 -L-	C/L	1804	1805		2150.5'	2149.8'																																					
TEMPORARY PIPE																																											
142+79 -L-	CL															120																											
168+42 -L-	CL															92																											
SHEET TOTALS									408		100					212							176															292				148		
PROJECT TOTALS									992	304	136					212					128	228	720	104	76	72	84											3716	1164	1672	136	344	104	20
SAY									992	304	136					212					128	228	720	104	76	72	84											3716	1164	1672	136	344	104	20

STATION	15" R.C. PIPE CLASS V	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	48" WELDED STEEL PIPE, 0.688" THICK, GRADE B IN SOIL	48" WELDED STEEL PIPE, 0.688" THICK, GRADE B NOT IN SOIL	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES "TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL."B") PER EACH (0' THRU 5.0')	5.0' THRU 10.0'	10.0' AND ABOVE	LIN. FT. A	LIN. FT. B	SPECIAL TBJB (SEE DETAIL SHEET 2C-1)	OTCB STD. 840.04 OR 840.05	T.B.J.B. STD. 840.34	M.H. FRAME AND COVER STD. 840.54	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	T.B.D.I. STD. 840.35	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.29	G.D.I. (N.S.) FRAME WITH 2 GRATES STD. 840.29	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	C.S. PIPE ELBOWS 15"	C.S. PIPE ELBOWS 18"	C.S. PIPE ELBOWS 24"	C.S. PIPE ELBOWS 36"	C.S. PIPE ELBOWS 48"	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
198+43 -L-								1											1			1																40	REMOVE 15" CMP
198+93 -L-																																							
199+44 -L-								1											1						1														
199+34 -L-																																							
199+23 -L-								1											1							1													
200+19 -L-																																							
200+94 -L-								1											1							1													
201+45 -L-																																							
201+97 -L-								1											1							1													
202+19 -L-																																						---	REMOVE 15" CMP
202+43 -L-								1									1								1	1													3GI
202+21 -L-																																						58	REMOVE 18" CMP & HW
201+93 -L-								1											1							1													
201+93 -L-								1											1							1													
201+93 -L-																																							
201+75 -L-																																							
206+68 -L-								1											1							1											91	REMOVE 15" CMP & HW
206+83 -L-																																							
206+93 -L-								1											1				1																
207+59 -L-																																							
208+25 -L-								1											1							1													
208+71 -L-																																						86	REMOVE 18" CMP & DI
209+19 -L-								1											1							1													
209+20 -L-																																						41	REMOVE PIPE & DI
10+74 -Y4-						3.4																																---	ENDWALL ON INLET REMOVE 24" CMP & HW
11+25 -Y4-	40																																					48	REMOVE 15" CMP
212+75 -L-						3.4																																---	ENDWALL ON INLET REMOVE 18" CMP & HW
TEMPORARY PIPE																																							
142+79 -L-																																						120	TEMPORARY DRAINAGE PIPE
168+42 -L-																																						92	TEMPORARY DRAINAGE PIPE
SHEET TOTALS	40					6.8		12									1	11				3	1	9													576	
PROJECT TOTALS	68	646	104	50	50	16.2	18.4	148	29.8	8.62			3	2			2	2	4	94		41	1	104	3	35	2	2	4	8	6	2			1844	
SAY	68	646	104	50	50	40		148	41				3	2			2	2	4	94		41	1	104	3	35	2	2	4	8	6	2			1900	

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