COMPUTED BY: DLH DATE: 4/18/2016

CHECKED BY: DON DATE: 5/3/2016

PROJECT NO.	SHEET NO.
R-4060	3 -B

D11CAD-274131

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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) 12"	15"	18"	24"	30"	36"	42"	48"	Do Not Use RCP	Do Not Use CSP	Do Not Use CAAP	Do Not Use HDPE	Do Not Use PVC	C.S. Pipe 12" (.064)	15" (.064)	18" (.064)	24" (.064)	30" (.079)	36" (.079)	42" (.109)	48" (.109)
35+08.00 -L-	LT	604	605		2826.38	2824.85																						
35+35.00 -L-	LT	605		2827.85	2824.85																							
35+74.00 -L-	LT	606			2824.85	2812.00																	76					
18+24.00 -Y1-	RT	607			2838.30	2809.65																68						
38+50.00 -L-	LT	608		2812.40	2809.65																							
38+32.00 -L-	CL	608	609		2809.65	2804.50																						
38+00.00 -L-	RT	609		2810.95	2804.50																							
37+56.00 -L-	RT	610			2804.50	2796.00																104						
37+34.00 -L-	LT	615		2821.50	2818.33																							
37+38.00 -L-	LT	614			2818.33	2818.20			16									X	X	X								
40+17.00 -L-	RT	611		2802.14	2799.39																							
40+33.00 -L-	RT	611	613		2799.39	2794.68			36									X	X	X								
40+50.00 -L-	RT	613		2797.43	2794.68																							
40+50.00 -L-	CL	613	612		2794.68	2794.54																						
40+50.00 -L-	LT	612		2799.23	2794.54																							
41+62.00 -L-	LT	612	701		2794.54	2780.39																						
42+71.00 -L-	LT	701		2783.14	2780.39																							
43+11.00 -L-	LT	701	702		2780.39	2776.19																						
43+50.00 -L-	LT	702		2778.94	2775.44																							
15+44.00 -Y2-	RT	702	703		2778.10	2775.44																						
14+90.00 -Y2-	RT	703		2781.57	2778.10																							
43+70.00 -L-	CL	704			2775.44	2774.24																						
20+90.00 -Y2-	LT	708		2772.33	2769.16																							
20+21.00 -Y2-	LT	708	712		2769.16	2773.38																						
19+50.00 -Y2-	LT	712		2776.55	2773.38																							
20+90.00 -Y2-	LT	708	714		2769.16	2769.90			8																			
20+90.00 -Y2-	LT	714		2779.50	2769.90																							
21+11.00 -Y2-	LT	710			2769.16	2768.00																						
SHEET 3-B TOTALS									60													172	76					
SHEET 3-A TOTALS																								144				
PROJECT TOTALS									60													172	76	144				

Station	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"	**"R.C. Pipe (Class V)	***"RC Pipe Culverts, Contractor Design	***"RC Pipe Culverts, Contractor Design	15" Side Drain Pipe	18" Side Drain Pipe	Endwalls Std. 838.01, 838.11 or Std. 838.80 (Unless Noted Otherwise) Cu. Yards R.C.P.	Endwalls 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	C.B. Std. 840.01 or Std. 840.02	Open Throat C.B. Std. 840.04 or 840.05
35+08.00 -L-											52																	
35+35.00 -L-																								1				
35+74.00 -L-																												
18+24.00 -Y1-																												
38+50.00 -L-																								1				
38+32.00 -L-										96																		
38+00.00 -L-																								1	1.45			
37+56.00 -L-																												
37+34.00 -L-																								1				
37+38.00 -L-																												
40+17.00 -L-																								1				
40+33.00 -L-																												
40+50.00 -L-																								1				
40+50.00 -L-										48																		
40+50.00 -L-																								1				
41+62.00 -L-										220																		
42+71.00 -L-																								1				
43+11.00 -L-										80																		
43+50.00 -L-																								1				
15+44.00 -Y2-										112																		
14+90.00 -Y2-																								1				
43+70.00 -L-												104																
20+90.00 -Y2-																								1				
20+21.00 -Y2-										136																		
19+50.00 -Y2-																								1				
20+90.00 -Y2-																												
20+90.00 -Y2-																								1	4.6			
21+11.00 -Y2-										40																		
SHEET 3-B TOTALS										732	52	104												13	6.05			
SHEET 3-A TOTALS										340	52	796	84											15	0.46			
PROJECT TOTALS										1072	104	900	84											28	6.51			

Station	Frame, Grates, and Hood Standard 840.03 Type of Grate E	F	G	Concrete Transitional Section Drop Inlet	Catch Basin	D.I. Std. 840.14 or Std. 840.15	D.I. Frame and Grate 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 Flat Grates Std. 840.20	G.D.I. Frame with Two Sag Grates Std. 840.22	G.D.I. (N.S.) Frame with Two Sag Grates Std. 840.24	G.D.I. (N.S.) Frame with Two Flat Grates Std. 840.29	T.B.G.D.I. Std. 840.35	J.B. Std. 840.31 or 840.32	G.D.I. Steel Frame with Two Grates Std. 840.37	Drainage Pipe Elbows No. & Size	Side Drain Pipe Elbows No. & Size	Preformed Scour Hole (See Detail "F" Sheet 5)	C.S. Pipe Elbows No. & Size	Flowable Fill, C.Y.	Conc. Collars Cl. "B" C.Y. Std. 840.72	Pipe Removal Lin. Ft.	Remarks
35+08.00 -L-																									
35+35.00 -L-									1				1												
35+74.00 -L-																					2-18"				
18+24.00 -Y1-																					2-15"				BERM DRAINAGE OUTLET
38+50.00 -L-									1					1											
38+32.00 -L-																									
38+00.00 -L-									1					1											
37+56.00 -L-																					2-15"				
37+34.00 -L-									1					1											
37+38.00 -L-																									
40+17.00 -L-									1					1											2GI W/O APRON (IN EXPRESSWAY GUTTER)
40+33.00 -L-																									
40+50.00 -L-									1				1												
40+50.00 -L-																									
40+50.00 -L-									1					1											2GI W/O APRON (IN EXPRESSWAY GUTTER)
41+62.00 -L-																									
42+71.00 -L-									1					1											2GI W/O APRON (IN EXPRESSWAY GUTTER)
43+11.00 -L-																									
43+50.00 -L-									1				1												
15+44.00 -Y2-																									
14+90.00 -Y2-									1					1											
43+70.00 -L-																								84	REMOVE 18"CMP AT STA. -L- 43+94 CL
20+90.00 -Y2-														1	1										TB 2GI W/O APRON (IN EXPRESSWAY GUTTER)
20+21.00 -Y2-																									
19+50.00 -Y2-														1	1										TB 2GI W/O APRON (IN EXPRESSWAY GUTTER)
20+90.00 -Y2-																									
20+90.00 -Y2-						1	1																		
21+11.00 -Y2-																									
SHEET 3-B TOTALS						1	1		10				3	9	2						2-18", 4-15"			84	
SHEET 3-A TOTALS								1	14				7	8						1		16.46		109	
PROJECT TOTALS						1	1	1	24				10	17	2					1	2-18", 4-15"	16.46		193	

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