RD261645

COMPUTED BY: SLK	DATE: 12/31/2013
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3615B	3D-17

**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" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109
-L- 346+01	RT	290		884.24	881.87																						
-L- 331+09	RT	308		865.74	859.31																						
-L- 331+59	RT	308	OUT		859.31	858.32																					
-L- 333+28	RT	215A																									
-L- 333+73	RT	218A																									
-L- 343+82	RT	289B																									
-L- 290+36	LT	272		879.88	867.76																						
-L- 290+36	LT	272	307		872	874			20																		
-L- 290+51	LT	307		880.9	874																						
-L- 292+49	LT	273		882.68	872.4																						
-Y43N- 12+13																											
-L- 254+46	LT	51E		851.7	848.95																						
-L- 254+16	LT	51E	52E		848.95	848.84																					
-L- 254+16	LT	52E		854.45	848.84																						
-L- 253+53	LT	52E	45E		848.84	848.6																					
-L- 253+53	CL	45E	EX		849.58																						
-L- 253+53	LT		45E	854.17	848.6																						
-L- 252+50	LT	45E	46E		848.6	846.34																					
-L- 252+50	LT		46E	850.09	846.34																						
-L- 252+50	LT	54E	46E		837.84	846.34																					
-L- 250+50	LT	54E		841.59	837.84																						
-L- 250+50	LT	54E	47E		837.84	830.18																					
-L- 249+00	LT	47E		833.93	830.18																						
-L- 249+00	LT	48E	47E		813.31	830.18																					
-L- 245+00	LT	48E		817.71	813.31																						
-L- 245+00	LT	55E	48E		811.59	813.31																					
-L- 242+90	LT	55E		816.49	811.59																						
-L- 241+40	LT	57E	55E		808	811.59																					
-Y35- 12+25	RT	57E		813.86	808																						
-Y35- 12+16	RT	57E	OUT		808	802																24					
SHEET TOTALS									20														24				
TOTALS SHEETS 3D-1 TO 3D-17								76	2252	440	1860	756									244		68				
TOTALS SHEET 3D-18																											
PROJECT TOTALS								76	2252	440	1860	756									244		68				
SAY								**76**	**2252**	**440**	**1860**	**756**									**244**		**68**				

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"	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.	C.S.P.
-L- 346+01																				
-L- 331+09																				
-L- 331+59											60									
-L- 333+28																				
-L- 333+73																				
-L- 343+82																				
-L- 290+36																				
-L- 290+36																				
-L- 290+51																				
-L- 292+49																				
-Y43N- 12+13																				
-L- 254+46																				
-L- 254+16										36										
-L- 254+16																				
-L- 253+53											68									
-L- 253+53																				
-L- 253+53																				
-L- 252+50												122								
-L- 252+50																				
-L- 252+50												206								
-L- 250+50																				
-L- 250+50												154								
-L- 249+00																				
-L- 249+00												406								
-L- 245+00																				
-L- 245+00												252								
-L- 242+90																				
-L- 241+40												176								
-Y35- 12+25																				
-Y35- 12+16																				
SHEET TOTALS										36	128	1316								
TOTALS SHEETS 3D-1 TO 3D-17		100	728	52	788		296	208		15432	3332	4140	276		40		20		27.3	
TOTALS SHEET 3D-18																				
PROJECT TOTALS		100	728	52	788		296	208		15432	3332	4140	276		40		20		27.3	
SAY		**100**	**728**	**52**	**788**		**296**	**208**		**15432**	**3332**	**4140**	**276**		**40**		**20**		**28**	

STATION	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	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. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	M.H. FRAME AND COVER STD. 840.54	GENEREC PIPE ITEM - REMOVE AND RESET FES	CONVERT EXISTING D.I. TO J.B.	ADJUST C.B.	15" SLUICE GATE	18" SLUICE GATE	24" SLUICE GATE	30" SLUICE GATE	MODIFIED CONCRETE FLUME	PREFORMED SCOUR HOLE
-L- 346+01	1																1											
-L- 331+09	1	0.8																1	1									
-L- 331+59																												
-L- 333+28																			1		1							
-L- 333+73																					1							
-L- 343+82																												
-L- 290+36	1																	1	1									
-L- 290+36																												
-L- 290+51	1	1.9											1		1													
-L- 292+49	1	4.6																1	1									
-Y43N- 12+13																												
-L- 254+46	1												1		1													
-L- 254+16																												
-L- 254+16	1			1			1																					
-L- 253+53																												
-L- 253+53																												
-L- 253+53	1			1		1																						
-L- 252+50																												
-L- 252+50	1			1		1																						
-L- 252+50																												
-L- 250+50	1			1		1																						
-L- 250+50																												
-L- 249+00	1			1		1																						
-L- 249+00																												
-L- 245+00	1																1		1									
-L- 245+00																												
-L- 242+90	1																	1	1									
-L- 241+40																												
-Y35- 12+25	1																1		1									
-Y35- 12+16																												
SHEET TOTALS	14	7.3		5		4	1						2		2		3	4	7		2							
TOTALS SHEETS 3D-1 TO 3D-17	324	60.5	9.8	252	33	106	113	5	41	16	16	4	15	1	19		17	14	24	1	3	1	3	1	5	2	5	5
TOTALS SHEET 3D-18												1			1		1		1									
PROJECT TOTALS	324	60.5	9.8	252	33	106	113	5	41	16	16	5	15	1	20		18	14	25	1	3	1	3	1	5	2	5	5
SAY	**324**	**74**		**252**	**33**	**106**	**113**	**5**	**41**	**16**	**16**	**5**	**15**	**1**	**20**		**18**	**14**	**25**	**1**	**3**	**1**	**3**	**1**	**5**	**2**	**5**	**5**

STATION	FLOWABLE FILL CY	CONC. & BRICK PIPE PLUG STD. 840.71 CY	CONC. COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
-L- 346+01					
-L- 331+09					
-L- 331+59					
-L- 333+28					SEE DETAIL SHEET 2C-9
-L- 333+73					SEE DETAIL SHEET 2C-9
-L- 343+82		0.045			RETAIN EX JB
-L- 290+36					
-L- 290+36					
-L- 290+51					
-L- 292+49					
-Y43N- 12+13	5.8				15" CONC
-L- 254+46					
-L- 254+16					
-L- 254+16					
-L- 253+53					
-L- 253+53					
-L- 253+53					
-L- 252+50					
-L- 252+50					
-L- 252+50					
-L- 250+50					
-L- 250+50					
-L- 249+00					
-L- 249+00					
-L- 245+00					
-L- 245+00					
-L- 242+90					
-L- 241+40					
-Y35- 12+25					
-Y35- 12+16					
SHEET TOTALS	5.8	0.045			
TOTALS SHEETS 3D-1 TO 3D-17	35.4	1.958	8.3614	4321	
TOTALS SHEET 3D-18	577.7		6.8352	264	
PROJECT TOTALS	613.1	1.958	15.1966	4585	
SAY	**613.1**	**1.96**	**15.3**	**4585**	

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