RD-299043

COMPUTED BY:	HLE	DATE:	8/13/2015
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3633	3D-7

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
-Y11- 14+59	LT	0840		677.35	675.10		
		0840	0841		675.10	673.81	
-Y11- 14+59	LT	0841		676.81	673.81		
		0841	0842		673.81	673.31	
-Y11- 16+10	LT	0842		677.08	673.31		
		0842	0844		673.31	673.00	
-Y11- 16+37	LT	0843		678.70	676.45		
		0843	0844		676.45	673.00	
-Y11- 16+38	LT	0844		676.00	673.00		
		0844	0845		673.00	671.35	
-Y11- 17+00	LT	0845		674.35	671.35		
		0845	0817		671.35	670.52	
-L- 73+52	LT	0846		673.89			
-L- 71+99	LT	0847		668.78	662.00		
		0847	0802		662.00	657.00	
-L- 71+99	LT	0848					
		0848	0849				
-L- 71+20	LT	0850					
		0850	0851				
-L- 85+12	RT	0901		642.75	635.74		
		0901	0902		635.74	632.15	
		0901	0903		635.74	635.80	
-L- 85+38	RT	0902		641.60	632.15		
-L- 85+38	RT	0904		629.87	626.87		
		0904	0905		626.87	626.90	
-Y- 19+95	RT	1003		703.85	700.85		
-Y- 17+12	LT	1004		709.81	706.81		
		1004	1012		706.81	706.60	
-Y- 16+47	LT	1005		711.04	708.00		
-Y- 16+47	LT	1006		710.43	708.18		
		1006	1005		708.18	708.00	
-Y2- 10+75	LT	1010					
-Y2- 10+35	LT	1011		707.90	705.65		
-Y- 17+07	LT	1012		709.89	706.60		
-Y- 18+85	RT						
-Y- 19+35	RT						
SHEET TOTAL							
SHEET 3D-8 TOTAL							
PROJECT TOTAL							
SAY							

STATION	FROM	TO	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
-Y11- 14+59	0840																					
	0840	0841														12						
-Y11- 14+59	0841																					
	0841	0842																				
-Y11- 16+10	0842																					
	0842	0844																				
-Y11- 16+37	0843																					
	0843	0844														20						
-Y11- 16+38	0844																					
	0844	0845																				
-Y11- 17+00	0845																					
	0845	0817																				
-L- 73+52	0846																					
-L- 71+99	0847																					
	0847	0802																				
-L- 71+99	0848																					
	0848	0849																				
-L- 71+20	0850																					
	0850	0851																				
-L- 85+12	0901																					
	0901	0902																				
	0901	0903																				
-L- 85+38	0902																					
-L- 85+38	0904																					
	0904	0905																				
-Y- 19+95	1003																					
-Y- 17+12	1004																					
	1004	1012																				
-Y- 16+47	1005																					
-Y- 16+47	1006																					
	1006	1005																				
-Y2- 10+75	1010																					
-Y2- 10+35	1011																					
-Y- 17+07	1012																					
-Y- 18+85																						
-Y- 19+35																						
SHEET TOTAL																32						
SHEET 3D-8 TOTAL																						
PROJECT TOTAL				624		364		428	52							144	120		48		48	
SAY																						

STATION	FROM	TO	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"
-Y11- 14+59	0840																	
	0840	0841																
-Y11- 14+59	0841																	
	0841	0842										152						
-Y11- 16+10	0842																	
	0842	0844										28						
-Y11- 16+37	0843																	
	0843	0844																
-Y11- 16+38	0844																	
	0844	0845										60						
-Y11- 17+00	0845																	
	0845	0817										36						
-L- 73+52	0846																	
-L- 71+99	0847																	
	0847	0802			116													
-L- 71+99	0848																	
	0848	0849			12													
-L- 71+20	0850																	
	0850	0851			12													
-L- 85+12	0901																	
	0901	0902												24				
	0901	0903			20													
-L- 85+38	0902																	
-L- 85+38	0904																	
	0904	0905		36														
-Y- 19+95	1003																	
-Y- 17+12	1004																	
	1004	1012		8														
-Y- 16+47	1005																	
-Y- 16+47	1006																	
	1006	1005		8														
-Y2- 10+75	1010																	
-Y2- 10+35	1011																	
-Y- 17+07	1012																	
-Y- 18+85																		
-Y- 19+35																		
SHEET TOTAL				52	160							276		24				
SHEET 3D-8 TOTAL																		
PROJECT TOTAL				1712	748	256	24	72	36			3468	1116	1344	462	344	172	
SAY																		

STATION	FROM	TO			36" SLUICE GATE	42" SLUICE GATE (SEE DETAIL 2C-1)	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	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
-Y11- 14+59	0840								1								
	0840	0841															
-Y11- 14+59	0841								1			1			1		
	0841	0842															
-Y11- 16+10	0842								1			1			1		
	0842	0844															
-Y11- 16+37	0843								1								
	0843	0844															
-Y11- 16+38	0844								1			1			1		
	0844	0845															
-Y11- 17+00	0845								1			1			1		
	0845	0817															
-L- 73+52	0846								1								
-L- 71+99	0847								1	1.78		1		1			
	0847	0802															
-L- 71+99	0848																
	0848	0849															
-L- 71+20	0850																
	0850	0851															
-L- 85+12	0901								1	2.01		1		1			
	0901	0902															
	0901	0903					1										
-L- 85+38	0902								1	4.45		1		1			
-L- 85+38	0904								1			1	1				
	0904	0905															
-Y- 19+95	1003								1			1		1			
-Y- 17+12	1004								1			1			1		
	1004	1012															
-Y- 16+47	1005																
-Y- 16+47	1006								1								
	1006	1005															
-Y2- 10+75	1010																
-Y2- 10+35	1011								1								
-Y- 17+07	1012																
-Y- 18+85																	
-Y- 19+35																	
SHEET TOTAL							1		15	8.2		10	1	4	5		
SHEET 3D-8 TOTAL																	
PROJECT TOTAL					1	1	12.3		139	62.94	13.01	94	13	41	40	10	8
SAY							13			(79.85) SAY 80							

STATION	FROM	TO	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	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	ENERGY DISSIPATOR BASIN	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	CONVERT EXISTING CB TO JB (SEE DETAIL 2C-3)	MANHOLE FRAME AND COVER STD. 840.54	CONVERT EXISTING DI TO JB (SEE DETAIL 2C-3)	4" CONCRETE PAVED DITCH, S.Y.	CONVERT EXISTING JB TO DI (SEE DETAIL 2C-4)	ADJUST CB	FLOWABLE FILL PIPE PLUG (CY)	C. S. 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
-Y11- 14+59	0840		1	1																				
	0840	0841																						
-Y11- 14+59	0841																							
	0841	0842																						
-Y11- 16+10	0842																							
	0842	0844																						
-Y11- 16+37	0843		1	1																				
	0843	0844																						
-Y11- 16+38	0844																							
	0844	0845																						
-Y11- 17+00	0845																							
	0845	0817																						REMOVE EXISTING CB
-L- 73+52	0846						1							1									23	REMOVE EXISTING DI
-L- 71+99	0847																							
	0847	0802																					22	REMOVE EXISTING CB
-L- 71+99	0848																					0.4470		
	0848	0849																				0.4470		REMOVE EXISTING DI
-L- 71+20	0850																					0.4770		
	0850	0851																				0.4770	9	REMOVE EXISTING DI
-L- 85+12	0901																							
	0901	0902																						
	0901	0903																						
-L- 85+38	0902																						9	
-L- 85+38	0904																							
	0904	0905																						
-Y- 19+95	1003																						44	
-Y- 17+12	1004																							
	1004	1012																						
-Y- 16+47	1005														1									
-Y- 16+47	1006		1	1																				
	1006	1005																						
-Y2- 10+75	1010																	1						
-Y2- 10+35	1011		1	1																				
-Y- 17+07	1012												1											
-Y- 18+85																							31	
-Y- 19+35																							16	
SHEET TOTAL			4	4			1						1	1	1			1				1.848	154	
SHEET 3D-8 TOTAL					4						4	1		1									343	
PROJECT TOTAL			29	30	5	3	3		1		8	10	2	13	2	33	1	1	47.3	2 @ 15		4.736	3438	
SAY																			48			5	3440	

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