COMPUTED BY: Jon Whittington DATE: 2 /16 /18
CHECKED BY: Eleni Riggs DATE: 2 /19 /18

950015 | PROJECT REFERENCE NO. 17BP.4.R.87 | SHEET NO. 3D-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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
SHEET 4							
-L- 14+54	RT	401		84.01			
-L- 14+54	RT	401	402		79.01	78.52	
-L- 14+73	LT	403		84.11			
-L- 14+73	LT	403	404		79.11	76.50	
-L- 16+27	LT	405		84.11			
-L- 16+27	LT	405	406		79.11	77.60	
-L- 16+27	RT	407		84.11			
-L- 16+27	RT	407	408		79.11	77.44	
-DR2- 10+36	CL				76.80	76.70	
Project Total							

STATION	C.S.P. 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	R.C. PIPE CLASS III 12"	15"	18"	24"	30"	36"	42"	48"
SHEET 4																
-L- 14+54																
-L- 14+54											24					
-L- 14+73																
-L- 14+73											28					
-L- 16+27																
-L- 16+27											28					
-L- 16+27																
-L- 16+27											28					
-DR2- 10+36																
Project Total											108					

STATION	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"	PIPE AS NOTED 18" Side Drain	15" Side Drain	15" Alternate	24" RCP-IV	24" RCP-V	36" RCP-V	48" RCP-V	48" RCP-CD	18" RCP-V	30" RCP-V	30" RCP-CD	
SHEET 4																				
-L- 14+54																				
-L- 14+54																				
-L- 14+73																				
-L- 14+73																				
-L- 16+27																				
-L- 16+27																				
-L- 16+27																				
-L- 16+27																				
-DR2- 10+36				40																
Project Total				40																

STATION	ENDWALLS STD. 838.01 OR STD. 838.11 (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
SHEET 4											
-L- 14+54			1								
-L- 14+54											
-L- 14+73			1								
-L- 14+73											
-L- 16+27			1								
-L- 16+27											
-L- 16+27			1								
-L- 16+27											
-DR2- 10+36											
Project Total			4								

STATION	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 GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FR. WITH TWO FLAT GRATES. STD. 840.29	J.B. STD. 840.31 OR 840.32	TBJB STD. 840.34	T.B.D.I. STD. 840.35	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	3GI	ADJUST DI	CONV DI TO JBMH	BERM DRAINAGE OUTLET	CLASS B RIPRAP TONS	GEOTEXTILE FABRIC SY	DRAINAGE 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
SHEET 4																									
-L- 14+54									1			1													
-L- 14+54																			3	10					
-L- 14+73									1			1													
-L- 14+73																			3	10					
-L- 16+27									1			1													
-L- 16+27																			3	10					
-L- 16+27									1			1													
-L- 16+27																			3	10					
-DR2- 10+36																									
Project Total									4			4							12	40					

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

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