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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
EB-4707B	3D-4

Kimley»Horn — P.O. Box 33068, Raleigh, N.C. 27636-3068

DL83296

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	DO NOT USE PVC
								THICKNESS OR GAUGE												
134+24 -L-	RT	1405		253.2																
134+75 -L-	LT	1418		252.8																
		1418	1419		249.9	249.6														
135+11 -L-	LT	1419		252.7																
		1419	1420		249.6	249.3														
137+00 -L-	LT	1417		255.3																
		1417	1428		251.6	248.9														
135+40 -L-	RT	1407																		
		1407	1408		246.0	245.6														
135+42 -L-	RT	1408		253.2																
		1408	1410		245.6	245.4														
135+11 -L-	RT	1409		253.0																
		1409	1410		250.0	249.8														
135+43 -L-	RT	1410		253.2																
		1410	1420		245.4	244.0														
135+49 -L-	LT	1420		252.8																
		1420	1421		244.0	242.4														
144+18 -L-	RT	1501		285.8																
		1501	1502		282.8	275.4														
142+85 -L-	RT	1502		279.7																
		1502	1412		275.4	269.4														
141+75 -L-	RT	1412		274.0																
		1411	1412		270.5	269.4														
141+76 -L-	LT	1411		273.6																
		1412	1414		269.4	265.9														
		1413	1414		266.4	265.7				20										
140+40 -L-	RT	1414		268.9																
		1414	1415		265.2	262.7														
139+50 -L-	RT	1415		266.4																
		1415	1429		262.7	259.3														
138+75 -L-	RT	1429		264.3																
		1429	1427		259.3	254.8														
139+50 -L-	LT	1424		266.6																
		1424	1415		263.6	263.1														
138+00 -L-	LT	1425		258.9																
		1425	1427		255.9	255.5														
138+00 -L-	RT	1427		261.1																
		1427	1426		254.8	252.9														
137+00 -L-	RT	1426		256.7																
		1426	1417		252.9	251.6														
136+00 -L-	LT	1428		253.8																
		1428	1420		248.9	248.4														
134+24 -L-	RT	1406		253.6																
SHEET TOTALS										20										
PROJECT TOTALS									428	164	80	60								

C.S. PIPE 12"	15"	18"	24"	30"	36"	42"	48"	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
.064	.064	.064	.079	.079	.109	.109																			
																	36								
																	36								
																		96							
																								16	
																								8	
																	32								
																								40	
																								44	
																	132								
																	108								
																	56								
																	132								
																		88							
																		72							
																		76							
																	44								
																	40								
																		100							
																		32							
																		52							
																	616	516					108		
																	3092	1420	992	140			108		

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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	J.B. STD. 840.31 OR 840.32	TBJB STD. 840.34	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	ADJUSTMENT OF CATCH BASINS	ADJUSTMENT OF MANHOLES	CONVERT EXIST D.I. TO J.B. W/ M.H.	CONVERT EXIST C.B. TO J.B. W/ M.H.	CONCRETE 2GI STD. 840.18 or 840.27	2GI STD. 840.24	FLOWABLE FILL (CY)	DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
		1			1			1																								
		1			1	1																										
		1			1		1																									
																																33
6																																
																																10
		1	2.6												1																
																																7
		1			1	1																										
		1	2.83		1			1																								
																																53
		1	3.8		1		1																									
		1			1		1																									
																																54
		1			1		1																									
																																23
		1			1		1																									
		1			1		1																									
																																135
		1			1		1																									
																																131
		1			1		1																									20
		1													1																	
		1			1		1																									
		1			1		1																									
		1	1.35												1																	
		1			1		1																									
		1			1										1																	
																1																	
																																466
6		66	16.42		56	10	23	23		5	5		3	1		4	3	1			1	1	3.3	2	0.846	2751	

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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1/30/2017