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COMPUTED BY: ANK DATE: 2/27/19
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PROJECT REFERENCE NO.	SHEET NO.
B-4484	3D-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & 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"	C.A.A. PIPE (UNLESS OTHERWISE NOTED) 12"	15"	18"	24"		30"		36"		42"		48"	
SIZE																												
THICKNESS OR GAUGE																.064	.064	.064	.064		.079		.079		.109		.109	
–L1– 21+86	15RT	0401		31.59																								
		0401	0402		28.84	26.00																						
–L1– 20+54	17RT	0402		28.65																								
		0402	0403		24.65	22.45																						
–L1– 20+55	39RT	0403		26.00																								
		0403	0404		21.00	10.00											28											
–L1– 19+40	17LT	0405		24.75																								
		0405	0406		22.00	7.00											40											
–L1– 28+28	15RT	0501		32.70																								
		0501	0502		29.95	27.05																						
–L1– 29+69	15RT	0502		29.80																								
		0502	0503		26.30	21.45																						
–L1– 29+71	67RT	0503		25.00																								
		0503	0504		20.00	10.00											32											
–L1– 34+05	17 LT	0506		17.00																								
		0506	0507		14.25	12.50											16											
–L1– 39+25	17LT	0601		18.10																								
		0601	0602		13.50	13.00																						
–L1– 38+95	17LT	0602		17.50																								
		0602	0603		12.20	12.00																						
–L1– 43+65	17LT	0604		20.10																								
		0604	0605		12.00	9.00											24											
		0606			8.60	8.40																						
–L1– 37+00	16LT	0607		15.36																								
		0607	0608		13.20	13.00																						
–L1– 38+32	37RT	T–0607																										
–L1– 39+33	32RT	T–0608																										
TOTALS																	140											

STATION	CLASS III R.C. PIPE (UNLESS OTHERWISE NOTED) 12"	15"	18"	24"	30"	36"	42"	48"	CLASS IV R.C. PIPE (UNLESS OTHERWISE NOTED) 12"	15"	18"	24"	30"	36"	42"	48"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') PER EACH (0' THRU 5.0')	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	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	T.B.D.I. STD. 840.35	J.B. STD. 840.31 OR 840.32	MANHOLE FRAME AND COVER STD. 840.54	C.A.A. PIPE ELBOWS	PIPE REMOVAL LIN.FT.	REMARKS
–L1– 21+86																						1						1	1					
									128																									
–L1– 20+54																						1						1	1					
									24																									
–L1– 20+55																						1								1	1			
																																2		
–L1– 19+40																						1						1	1					32
																																2		
–L1– 28+28																						1						1	1					
									140																									
–L1– 29+69																						1						1	1					
									52																									
–L1– 29+71																						1								1	1			
																																2		
–L1– 34+05																						1						1	1					
–L1– 39+25																						1						1	1					
									36																									
–L1– 38+95																						1	0.3					1	1					
									36																									
–L1– 43+65																						1	3.1					1	1					
																																2		
											44									1														CROSS PIPE WITH HEADWALL
–L1– 37+00																						1						1	1					
									12																									
–L1– 38+32																	28																	28
–L1– 39+33																	60																	60
TOTALS									428								88			1		12	3.4					10	10	2	2	8		120

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.)	GRATED DROP INLET (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

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54" & OVER)

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 54"	60"	66"	72"	78"	84"	C.S. PIPE 54" .109	54" .138	54" .168	54" SHOP ELON-GATED .138	54" SHOP ELON-GATED .168	60" .138	60" .168	66" .138	66" .168	72" .138	72" .168	84"	84" .168	STRUCTURAL PLATE PIPE 60" 12	60" 10	66" 12	66" 10	72" 12	72" 10	REINFORCED ENDWALLS WITH R.C. – C.Y.	WITH C.S. – C.Y.	MASONARY DRAINAGE STRUCTURES CUBIC YARDS	REINF. CONC. FLARED END SECTIONS NO. & SIZE	CORR. STEEL FLARED END SECTIONS NO. & SIZE	REINF. CONC. ELBOWS NO. & SIZE	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	PIPE REMOVAL LIN.FT.	REMARKS
–L– 48+80	LT	0701			4.75	4.70																		28								19.1							4.3		COLLAR AND EXTEND EXIST 84" CMP 10' x2, SEE SHEETS 2D-2 & 2D-3 REMOVE 4' OF EACH EXISTING 84" INLET PRIOR TO COLLARING
TOTALS																								28								19.1							4.3		

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.)	GRATED DROP INLET (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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