COMPUTED BY: JW DATE: 3/31/2015
CHECKED BY: LJ DATE: 3/31/2015

PROJECT REFERENCE NO.	SHEET NO.
W-5329	3A

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300–5".

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUB–REGIONAL & REGIONAL

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION / SIZE	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"	15"	18"	24"	36"	42"	48"	R.C. PIPE (CLASS III) 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)	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" 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 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 CATCH BASIN	DROP INLET		G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
THICKNESS OR GAUGE																				.064	.064	.064	.064	.079	.109	.109																																											
-L- 22+96.09	CL	403	404		100.4	99.1																															76																															REMOVE 18" RCP
-L- 18+39.07	RT	405			94.64	93.95			51																																																											47	
-L- 19+36.96	RT	406			95.76	96.54			42																																																											25	
-L- 19+87.19	RT	407			96.70	97.52			42																																																											25	
-L- 21+47.61	LT	408			99.23	100.10			67																																																											63	
-L- 24+25.50	RT	409			101.87	102.91				79																																																										56	
-L- 25+00.16	LT	411			102.93	103.70					41																																																								21	
-L- 25+95.12	RT	501			104.25	104.83				49																																																										23	
-L- 26+40.57	LT	502			104.66	104.96					46																																																									23	
-L- 26+94.28	RT	503			105.45	105.98				46																																																										22	
-L- 28+02.95	LT	504			105.85	106.21					32																																																									30	
-L- 28+00.33	RT	505			106.57	106.98				45																																																										23	
-L- 29+07.29	LT	506			106.61	106.66					30																																																									29	
-L- 28+86.97	RT	507			107.38	107.76				42																																																										21	
-L- 29+47.67	LT	508			106.71	106.78					32																																																									21	
-L- 30+06.48	RT	509			108.51	108.83				36																																																										22	
-L- 30+97.29	LT	510			109.14	109.23				36																																																										22	
-L- 32+17.39	LT	511			107.91	108.10				32																																																										31	
-L- 32+47.02	RT	512			109.22	109.34				38																																																										21	
-L- 33+32.02	LT	513			108.46	108.89				43																																																										22	
-L- 33+56.95	RT	514			109.78	110.03																															33																															22	
-L- 33+73.84	LT	515			108.96	109.18																														23																																23	
-L- 35+41.36	LT	516			110.35	110.48																														22																																22	
-L- 46+60.31	LT	601	602		100.25	100.00																																119																														118	
-L- 47+52.93	RT	603	604		100.20	99.90																																79																														77	
-L- 49+44.11	CL	605	606		98.8	97.7																																	79																														REMOVE 18" RCP
-L- 49+32.69	LT	609			98.98	98.10					35																																																									33	
-L- 42+97.99	LT	610			108.34	107.87																														32																																21	
-L- 43+79.67	LT	611			107.20	106.97																														30																																21	
TOTALS									202	446	216																								107	33	274	79																													884	

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 / SIZE	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"			BITUMINOUS COATED C.S. PIPE TYPE B 54"	54"	54"	54" SHOP ELON–GATED	54" SHOP ELON–GATED	60"	60"	66"	66"	72"	72"		STRUCTURAL PLATE PIPE 60"	60"	60"	66"	66"	66"	72"	72"	72"				REINFORCED ENDWALLS WITH R.C. – C.Y.	REINFORCED ENDWALLS 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
THICKNESS OR GAUGE																.109	.138	.168	.138	.168	.138	.168	.138	.168	.138	.168		12	10		12	10		12	10																										
-L- 16+03.95	CL	401	402		88.0	87.0			75																																																			78	RCP CLASS IV
-L- 53+20.24	CL	607	608		93.00	92.50		95																																																				103	RCP CLASS IV
TOTALS								95	75																																																			181	

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

4/04/06
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$$$$USERNAME$$$$