COMPUTED BY: SLK DATE: 12/31/2013

CHECKED BY: GSP DATE: 12/31/2013

PROJECT NO.	SHEET NO.
U-3615B	3D-6

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

RAL-WS033

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	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	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"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	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	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. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	M.H. FRAME AND COVER STD. 840.54	GENEREC PIPE ITEM - REMOVE AND RESET FES	CONVERT EXISTING D.I. TO J.B.	ADJUST C.B.	15" SLUICE GATE	18" SLUICE GATE	24" SLUICE GATE	30" SLUICE GATE	MODIFIED CONCRETE FLUME	PREFORMED SCOUR HOLE	FLOWABLE FILL CY	CONC. & BRICK PIPE PLUG STD. 840.71 CY	CONC. COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
-L- 236+00	LT	97		819.57	816.57																																											1			1		1																										
-L- 235+35	LT	97	97A		816.57	816.15																															60																																											
-L- 235+35	LT	97A		819.15	816.15																																											1			1		1																										
-L- 234+38	CL	97A	99		816.15	814.87																															72																																											
-L- 235+46	CL	99		820.69	814.81																																											1	0.4		1		1			1																								
-L- 235+25	CL	99	98		815.94	817.91																															68																																											
-L- 235+25	CL	98		820.91	817.91																																											1			1		1			1																								
																																														1			1		1																										
-L- 234+37	RT	99	100		814.87	814.5																															80																																											
-L- 234+65	RT	100A																																																																					1										
-L- 234+65	RT	100A	100B							32																																																																							
-L- 232+03	CL	94	96A			811.66																										96																																															0.656		30" CONC
-L- 232+36	RT	95D	94A		814	813.38																															88																																											
-L- 232+30	LT	95B	95C		804.1																											36																																														0.656		30" CONC
-L- 231+99	CL	91T			812.13																																																																															
-L-232+00	RT	91T			812.13	811.77															92																																																												92	15" CSP (TEMPORARY)
-L- 232+50	RT	94B																																														1																							1										SEE DETAIL SHEET 2D-3
-L- 232+50	RT	96B			811.97																																	36																																										
-L- 232+50	RT	94C			811.97	811.66																																	32																																									
-Y34- 10+37																																																																												24.1				
-Y34- 11+25	RT	295		816.41	813.41																																											1			1		1																										
-Y34- 11+34	LT	295	296		813.41	804																															76																																											
-Y34- 13+45	RT	296A																																																																																
-Y34- 13+45	RT	IN	OUT		810.1	807.39																									148																																																					
-Y34- 11+34	LT		296																																																																									1					
-L- 240+00	LT	104		819.29	816.29																																											1			1			1																									
-L- 241+40	LT	104	105		816.29	815																															140																																											
-L- 241+40	LT	105		818	815																																											1			1			1																									
-L- 241+39	CL	105	103		815	814.88																															40																																											
-L- 240+00	RT	101		819.27	816.27																																											1			1		1																										
-L- 240+50	RT	101	102		816.27	816.08																															52																																											
-L- 240+50	RT	102		819.08	816.08																																											1			1		1																										
-L- 240+48	CL	102	102A		816.08	815.95																															44																																											
-L- 240+48	CL	102A		819.65	815.95																																											1			1			1		1																								
-L- 241+39	CL	102A	103		815.95	815.72																															92																																											
-L- 241+39	CL	103		818.72	814.88																																											1			1			1		1																								
-L- 243+47	CL	103	120		814.88	813.9																															212																																											
-L- 243+47	CL	120		817.52	812.39																																											1			1	1				1																								
-L- 243+33	RT	120	121		812.39	810.5																																	72																																										
-L- 241+73	RT	121A																																														1																									1								SEE DETAIL SHEET 2D-3
-L- 241+73	RT	121A	121B					24																																																																										
-L- 241+73	RT	121A	121C							32																																																																							
SHEET TOTALS								24		64											92									148		132					1024	36	104									15	0.4		13	1	8	4		5														2		1			1	24.1		1.312	92	

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