COMPUTED BY: SLK	DATE: 12/31/2013
CHECKED BY: GSP	DATE: 12/31/2013

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

RAL-WS033

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL
-L- 198+02	RT	48A					
-L- 201+36	RT	52		834.04	831.04		
-L- 202+23	RT	52	54		831.04	830.77	
-L- 202+23	RT	54		835.6	830.77		
-L- 203+50	RT	54	56		830.77	830.39	
-L- 203+50	RT	56		836.9	830.39		
-L- 203+57	LT	56	55		830.39	830.1	
-L- 205+00	RT	58		838.42	835.42		
-L- 205+00	LT	58	57		835.42	835.16	
-L- 205+00	LT	57		838.62	835.16		
-L- 203+57	LT	57	55		835.16	833.9	
-L- 203+57	LT	55		836.9	830.1		
-L- 201+50	LT	55	53		830.1	829.2	
-L- 201+50	LT	53		835.12	824		
-L- 201+53	LT	53	53A		824	823.5	
-L- 202+24	LT	53B					
-L- 202+24	LT	53B	53C				
-L- 202+24	LT	53B	53D				
-L- 193+50	CL	IN			N/A		
-L- 195+00	CL	44A			N/A	N/A	
-Y30A- 10+66	RT	305		845.03	842.28		
-Y30A- 10+64	LT	305	306		842.28	841.63	
-L- 197+95	RT	48A					
-L- 198+09	RT	48A	48A				
-Y31- 11+23	RT	50A		832.07	829.07		
-Y31- 11+22	LT	50A	50B		829.07	828.97	
-Y31- 11+22	LT	50B		832.07	828.97		
-Y31- 11+55	LT	50B	294		828.97	828	
-L- 202+49	RT	61A			EXIST		
-L- 202+62	RT	HW			822.09		
-L- 202+69	RT	HW	61		822.09	821.61	
-L- 202+69	RT	61			821.61		
-L- 202+86	CL	61	58A		821.61	820.51	
-L- 202.86	CL	58A		837.57	820.51		
-L- 204+12	LT	58A	60		820.51	820	
-L- 208+55	LT	OUT			822.37		
-L- 208+69	RT	OUT	62A		822.37	826.7	
-L- 207+63	RT	63A					

Thickness or gauge: C.S. pipe 12" .064, 15" .064, 18" .064, 24" .064, 30" .079, 36" .079, 42" .109, 48" .109.

STATION	FROM	TO	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"	30"	36"	42"	48"
-L- 198+02	48A			16																		
-L- 201+53	53	53A				80																
-L- 202+24	53B	53C				24																
-L- 202+24	53B	53D	24																			
-L- 195+00	44A															152						
-L- 198+09	48A	48A		16																		
-Y31- 11+55	50B	294		72																		
SHEET TOTALS			24	104		104										152						

STATION	FROM	TO	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"
-L- 202+23	52	54										96						
-L- 203+50	54	56										128						
-L- 203+57	56	55										64						
-L- 205+00	58	57										64						
-L- 203+57	57	55										148						
-L- 201+50	55	53										200						
-Y30A- 10+64	305	306		100														
-Y31- 11+22	50A	50B										36						
-L- 202+69	HW	61							20									
-L- 202+86	61	58A							4									
-L- 204+12	58A	60							156									
-L- 208+69	OUT	62A								208								
SHEET TOTALS				100					180	208		736						

STATION	FROM	TO	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
-L- 201+36	52						1			1			1		
-L- 202+23	54						1			1			1		
-L- 203+50	56						1	1.5		1			1		
-L- 205+00	58						1			1			1		
-L- 205+00	57						1			1		1			
-L- 203+57	55						1	1.8		1		1			
-L- 201+50	53						1	1.3		1		1			
-L- 202+24	53B						1								
-Y30A- 10+66	305						1								
-Y31- 11+23	50A						1			1			1		
-Y31- 11+22	50B						1			1		1			
-L- 202+62	HW				4.5										
-L- 202.86	58A						1	5	7.1						
-L- 208+69	OUT	62A			6										
-L- 207+63	63A		20												
SHEET TOTALS			20		10.5		12	9.6	7.1	9		4	5		

STATION	FROM	TO	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- 202+24	53B																	1								SEE DETAIL SHEET 2D-3
-L- 195+00	44A																								152	TEMPORARY 15" CSP
-Y30A- 10+66	305					1		1																	120	REMOVE 12" CONC, REMOVE CB
-L- 202+49	61A												1												16	
-L- 202+69	61																							0.8856		
-L- 202+86	61	58A																						0.8856		
-L- 202.86	58A									1		1														SEE DETAIL SHEET 2C-11
-L- 208+69	OUT	62A																							58	REMOVE 36" CONC
SHEET TOTALS						1		1		1		1	1					1						1.7712	346	

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