RALD071

COMPUTED BY:	BRC	DATE:	1/26/16
CHECKED BY:	BJH	DATE:	8/22/16

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2915C	3D-2

**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)

LINE & STATION	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe (RCP, CSP, CAAP, or HDPE) 15	Side Drain Pipe 18	Side Drain Pipe 24	Side Drain Pipe 30	Side Drain Pipe 36	Side Drain Pipe 48	DO NOT USE RCP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 15 (.064)	C. S. PIPE 18 (.064)	C. S. PIPE 24 (.064)	C. S. PIPE 30 (.079)	C. S. PIPE 42 (.109)	C. S. PIPE 48 (.109)	R. C. PIPE CLASS III 12	R. C. PIPE CLASS III 15	R. C. PIPE CLASS III 18	R. C. PIPE CLASS III 24	R. C. PIPE CLASS III 30	R. C. PIPE CLASS III 36	R. C. PIPE CLASS III 42	R. C. PIPE CLASS III 48	R. C. PIPE CLASS IV 12	R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24
L 285+00	61	RT	0605		3030.4																														
			0605	OUT		3024.9	3008.0																			168									
L 287+00	98	RT	0606																																
			0606	0607		3033.5	3016.9	1.1			36				X																				
L 287+00	61	RT	0607		3020.4																														
			0607	0608		3016.9	3016.6	0.4																			72								
L 287+00	11	LT	0608		3026.2																														
			0608	0609		3016.6	3013.9	0.5																			44								
			0609	OUT		3013.9	2979.5	1.8			72				X	X	X																		
L 287+00	55	LT	0609		3017.7																														
L 13+42	0	CL	0610	OUT		3063.2	3036.8		80						X																				
DRW3A 10+23	7	RT	0611						40						X																				
			0701	OUT		2932.4	2925.9																				52								
L 294+16	106	LT	0701		2941.1																														
L 293+73	11	LT	0702		2986.1																														
L 293+50	61	RT	0703		2981.5																														
			0703	0702		2973.7	2966.0	0.8																		76									
L 296+35	11	LT	0704		2973.5																														
			0704	0702		2970.8	2969.5																										260		
L 297+50	64	RT	0705		2967.0																														
			0705	0707		2964.3	2915.7	1.6	170						X	X	X																		
L 298+96	98	LT	0706		2906.2																														
			0706	0711		2898.9	2889.5																104												
L 299+21	59	RT	0707		2917.0																														
L 299+39	137	RT	0708		2923.8																														
			0708	0707		2918.5	2911.2																80												
L 301+34	44	LT	0709		2961.9																														
			0709	0712		2959.2	2890.9	2.7	108						X	X	X																		
L 301+34	11	RT	0710		2964.9																														
			0710	0709		2962.1	2959.2																										56		
L 298+31	180	LT	0711		2895.3																														
			0711	OUT		2888.0	2887.8																24												
L 305+40	80	LT	0802		2963.0																														
			0802	OUT		2960.0	2956.8																			92									
L 305+41	5	LT	0803		2970.3																														
			0803	0802		2967.1	2960.3																		76										
L 306+50	72	RT	0804		2971.9																														
			0804	0803		2969.1	2967.1																		132										
L 307+91	2	RT	0805		2980.0																														
			0805	0807		2977.3	2976.7																										108		
L 309+00	98	LT	0806		2980.2																														
L 309+00	2	RT	0807		2984.5																														
			0807	0806		2976.5	2976.0	0.5																		100									
L 309+00	61	RT	0808		2980.3																														
			0808	0807		2977.6	2977.1	0.7																	60										
L 310+50	61	LT	0809		2989.0																														
			0809	0806		2986.3	2976.2																		156										
L 313+00	98	LT	0810		2994.5																														
L 313+00	68	LT	0811		2992.4																														
			0811	0810		2985.6	2985.5																			28									
SHEET TOTALS									398		108												208		424	464	168						424		

LINE & STATION	FROM	TO	15" WELDED STEEL PIPE 0.28" THICK, GRADE B IN SOIL	15" WELDED STEEL PIPE 0.28" THICK, GRADE B NOT N SOIL	18" WELDED STEEL PIPE 0.31" THICK, GRADE B IN SOIL	18" WELDED STEEL PIPE 0.31" THICK, GRADE B NOT IN SOIL	24" WELDED STEEL PIPE 0.38" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE 0.38" THICK, GRADE B NOT IN SOIL	30" WELDED STEEL PIPE 0.47" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.47" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.53" THICK, GRADE B IN SOIL	36" WELDED STEEL PIPE 0.53" THICK, GRADE B NOT IN SOIL	6" PVC PIPE (SPRING BOX)	6" DUCTILE IRON PIPE (SPRING BOX)	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A: 5' THRU 10' LIN. FT.	B: 10' AND ABOVE LIN. FT.
L 285+00	0605															1	0.5	
	0605	OUT																
L 287+00	0606																	
	0606	0607																
L 287+00	0607															1		
	0607	0608																
L 287+00	0608															1	4.6	
	0608	0609																
	0609	OUT																
L 287+00	0609															1		
L 13+42	0610	OUT																
DRW3A 10+23	0611																	
	0701	OUT																
L 294+16	0701															1	3.7	
L 293+73	0702															1	5.0	10.1
L 293+50	0703															1	2.8	
	0703	0702																
L 296+35	0704															1		
	0704	0702																
L 297+50	0705															1		
	0705	0707																
L 298+96	0706															1	2.3	
	0706	0711																
L 299+21	0707															1	2.3	
L 299+39	0708														4.900			
	0708	0707																
L 301+34	0709															1		
	0709	0712																
L 301+34	0710															1		
	0710	0709																
L 298+31	0711															1	2.3	
	0711	OUT																
L 305+40	0802															1		
	0802	OUT																
L 305+41	0803															1		
	0803	0802																
L 306+50	0804															1		
	0804	0803																
L 307+91	0805															1		
	0805	0807																
L 309+00	0806															1	5.0	7.7
L 309+00	0807															1	3.0	
	0807	0806																
L 309+00	0808															1		
	0808	0807																
L 310+50	0809															1		
	0809	0806																
L 313+00	0810															1	5.0	10.3
L 313+00	0811															1	1.8	
	0811	0810																
SHEET TOTALS															4.900	24	38.3	28.1

LINE & STATION	FROM	TO	CONCRETE TRANSITIONAL SECTION: D.I. STD. 852.06	CONCRETE TRANSITIONAL SECTION: G.D.I. (SEE DETAIL SHEET 2C-2)	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	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 OR STD. 840.46	T.B.D.I. STD. 840.35 OR STD. 840.46	T.B. 2GI SPECIAL DESIGN	T.B. 3GI SPECIAL DESIGN	SPRING BOX STD. 840.41	15" PARALLEL PIPE END SECTION STD. 310.02	CONVERT EXIST. DI TO 3GI SPECIAL DESIGN	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	CONVERT EXISTING T.B.J.B. TO 2GI	CONVERT TB2GI TO TBJB W/ SLAB LID	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	24" SIDE DRAIN PIPE ELBOW	36" SIDE DRAIN PIPE ELBOW	18" C.S. ELBOW	30" C.S. ELBOW	BERM DITCH OUTLET (PER EACH)	PREFORMED SCOUR HOLE (PER EACH)	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 285+00	0605								1				1																										
	0605	OUT																																					
L 287+00	0606																																1						24" BDO STD. 850.11
	0606	0607																												1									
L 287+00	0607								1				1																										
	0607	0608																																					
L 287+00	0608			1							1						1																						REMOVE HW
	0608	0609																																					
	0609	OUT																												2									
L 287+00	0609														1																								
L 13+42	0610	OUT																									1												
DRW3A 10+23	0611																																						
	0701	OUT																																					
L 294+16	0701														1																								
L 293+73	0702			1							1							1																					SD TB2GI, See Detail Sheet 2C-10
L 293+50	0703							1				1	1																										
	0703	0702																																					
L 296+35	0704			1							1						1																						
	0704	0702																																					
L 297+50	0705								1				1																										
	0705	0707																									2												
L 298+96	0706														1																								LINE EXIST. 48" CMP W/ CCCP, L=160'
	0706	0711																																					
L 299+21	0707														1																								REMOVE HW
L 299+39	0708																																						
	0708	0707																																					
L 301+34	0709								1		1																												
	0709	0712																									2												
L 301+34	0710			1							1						1																						
	0710	0709																																					
L 298+31	0711														1																								
	0711	OUT																																					
L 305+40	0802								1				1																										
	0802	OUT																																1					
L 305+41	0803		1			1	1																																
	0803	0802																																					
L 306+50	0804								1				1																										
	0804	0803																																					
L 307+91	0805			1							1						1																						
	0805	0807																																					
L 309+00	0806					1	1																																
L 309+00	0807			1							1						1																						
	0807	0806																																					
L 309+00	0808								1				1																										
	0808	0807																																					
L 310+50	0809								1				1																										
	0809	0806																																					
L 313+00	0810								1		1																												
L 313+00	0811								1				1																										
	0811	0810																																					
SHEET TOTALS			1	6		2	2	1	10		8	1	9		5		5	1									5		3				1	1					

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
N.S.	NARROW SLOT
P.V.C.	POLYVINYL CHLORIDE
R.C.	REINFORCED CONCRETE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX
W.S.	WIDE SLOT