RD261645

COMPUTED BY: Ray Lovinggood DATE: 01/09/15

CHECKED BY: Piotr Stojda DATE: 01/13/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3338B	3D-12

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 (SIZE / THICKNESS OR GAUGE)	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	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	DO NOT USE PVC
Y6 08+02	34 LT	2510		39.5																
Y6 10+46	8 RT	2511		41.4																
		2511	2512		37.4	37.2														
Y6 10+46	53 RT	2512		39.9																
		2512	2513		35.6	35.3	0.4			68							X			
Y5B 11+00	29 LT	2513		40.1																
		2513	2504		35.3	35.0														
Y5B 11+45	44 LT	2514		39.3																
		2514	2504		36.4	35.7		32									X			
Y6 09+38	45 LT	2516		37.5																
Y6 13+38	41 LT	2517		40.7																
		2517	2518		37.6	37.5			40								X			
Y15 14+07	42 RT	2518		39.3																
		2518	2519		37.5	37.4			24								X			
Y15 13+90	26 RT	2519		39.7																
		2519	2521		37.4	37.2														
Y5B 11+84	34 RT	2522																		
Y6 18+64	53 RT	2612		41.3																
Y6 16+50	53 RT	2613		39.9																
		2613	2615		37.9	37.5	0.5													
Y6 13+85	53 RT	2614		40.3																
		2614	2512		36.9	35.6														
Y6 15+84	53 RT	2615		39.8																
		2615	2617		37.5	37.4														
Y6 15+30	53 RT	2617		39.8																
		2617	2614		37.4	36.9														
Y6 13+96	8 RT	2619		41.6																
		2619	2614		38.7	37.5														
		2620	2621		38.6	38.3														
DR1 12+70	12 RT	2621		40.5																
		2621	2623		38.3	38.1														
DR1 11+44	12 RT	2622		40.5																
		2622	2623		38.5	38.3														
DR1 12+07	12 RT	2623		41.1																
		2623	2624		38.1	38.0	0.6													
DR1 11+50	35 LT	2630		39.2																
		2630	2631		37.9	37.2			44								X			
DR1 10+98	33 LT	2631		39.8																
		2631	2647		37.2	37.0	0.4		112								X			
Y6 16+90	10 LT	2640		41.4																
		2640	2641		39.4	38.8														
Y6 15+84	10 LT	2641		41.1																
		2641	2643		38.8	37.5														
Y6 16+90	53 LT	2642		40.1																
		2642	2643		38.1	37.5														
Y6 15+84	53 LT	2643		39.7																
		2643	2644		37.5	37.4														
Y6 15+30	53 LT	2644		39.8																
		2644	2645		37.4	37.2	0.3													
Y6 14+30	53 LT	2645		40.1																
							SHEET TOTALS	32	220	68										

LINE & STATION	FROM	TO	C. A. A. 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	R. C. PIPE CLASS IV 12	15	18	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48	
Y6 08+02	2510																													
Y6 10+46	2511																													
	2511	2512																				44								
Y6 10+46	2512																													
	2512	2513																												
Y5B 11+00	2513																													
	2513	2504																							72					
Y5B 11+45	2514																													
	2514	2504																												
Y6 09+38	2516																													
Y6 13+38	2517																													
	2517	2518																												
Y15 14+07	2518																													
	2518	2519																												
Y15 13+90	2519																													
	2519	2521																					124							
Y5B 11+84	2522																													
Y6 18+64	2612																													
Y6 16+50	2613																													
	2613	2615																				64								
Y6 13+85	2614																													
	2614	2512																						340						
Y6 15+84	2615																													
	2615	2617																					52							
Y6 15+30	2617																													
	2617	2614																						144						
Y6 13+96	2619																													
	2619	2614																				44								
	2620	2621																					76							
DR1 12+70	2621																													
	2621	2623																					64							
DR1 11+44	2622																													
	2622	2623																				64								
DR1 12+07	2623																													
	2623	2624																					60							
DR1 11+50	2630																													
	2630	2631																												
DR1 10+98	2631																													
	2631	2647																												
Y6 16+90	2640																													
	2640	2641																				104								
Y6 15+84	2641																													
	2641	2643																					40							
Y6 16+90	2642																													
	2642	2643																				104								
Y6 15+84	2643																													
	2643	2644																					52							
Y6 15+30	2644																													
	2644	2645																					100							
Y6 14+30	2645																													
SHEET TOTALS																						424	568	484	72					

LINE & STATION	FROM	TO	15" DUCTILE IRON PIPE	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.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G		CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05	SPECIAL JUNCTION BOX., SEE SHEET 2C-7	SPECIAL CATCH BASIN, SHEET 2C-1 OR 2C-6	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16
Y6 08+02	2510				1					1						1		
Y6 10+46	2511				1								1					
	2511	2512																
Y6 10+46	2512				1			1			1							
	2512	2513																
Y5B 11+00	2513				1			1			1							
	2513	2504																
Y5B 11+45	2514				1													
	2514	2504																
Y6 09+38	2516																	
Y6 13+38	2517				1			1			1							
	2517	2518																
Y15 14+07	2518				1												1	1
	2518	2519																
Y15 13+90	2519				1			1			1							
	2519	2521																
Y5B 11+84	2522																	
Y6 18+64	2612				1			1			1							
Y6 16+50	2613				1			1			1							
	2613	2615																
Y6 13+85	2614				1			1		1								
	2614	2512																
Y6 15+84	2615				1			1	1									
	2615	2617																
Y6 15+30	2617				1			1		1								
	2617	2614																
Y6 13+96	2619				1								1					
	2619	2614																
	2620	2621																
DR1 12+70	2621				1			1			1							
	2621	2623																
DR1 11+44	2622				1			1	1									
	2622	2623																
DR1 12+07	2623				1			1			1							
	2623	2624																
DR1 11+50	2630																	
	2630	2631																
DR1 10+98	2631				1													
	2631	2647																
Y6 16+90	2640				1								1					
	2640	2641																
Y6 15+84	2641				1								1					
	2641	2643																
Y6 16+90	2642				1			1		1								
	2642	2643																
Y6 15+84	2643				1			1	1									
	2643	2644																
Y6 15+30	2644				1			1			1							
	2644	2645																
Y6 14+30	2645				1			1		1								
SHEET TOTALS					24			16	3	5	9		4			1	1	1

LINE & STATION	FROM	TO	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. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXSITING J.B. TO 2GI	ADJUST M.H.	ADJUST C.B.	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
Y6 08+02	2510																						SEE DETAIL, SHEET 2C-6
Y6 10+46	2511							1					1										
	2511	2512																					
Y6 10+46	2512																						
	2512	2513																					
Y5B 11+00	2513																						
	2513	2504																					
Y5B 11+45	2514							1					1										
	2514	2504																					
Y6 09+38	2516																			0.3528			
Y6 13+38	2517																						
	2517	2518																					
Y15 14+07	2518																						
	2518	2519																					
Y15 13+90	2519																						
	2519	2521																					
Y5B 11+84	2522																1						
Y6 18+64	2612																						
Y6 16+50	2613																						
	2613	2615																					
Y6 13+85	2614																						
	2614	2512																					
Y6 15+84	2615																						
	2615	2617																					
Y6 15+30	2617																						
	2617	2614																					
Y6 13+96	2619							1					1										
	2619	2614																					
	2620	2621																					
DR1 12+70	2621																						
	2621	2623																					
DR1 11+44	2622																						
	2622	2623																					
DR1 12+07	2623																						
	2623	2624																					
DR1 11+50	2630																						
	2630	2631																					
DR1 10+98	2631							1					1										
	2631	2647																					
Y6 16+90	2640							1					1										
	2640	2641																					
Y6 15+84	2641							1					1										
	2641	2643																					
Y6 16+90	2642																						
	2642	2643																					
Y6 15+84	2643																						
	2643	2644																					
Y6 15+30	2644																						
	2644	2645																					
Y6 14+30	2645																						
SHEET TOTALS								6					6				1			0.3528			

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