DL83370

COMPUTED BY:	VWB	DATE:	9/25/2015
CHECKED BY:	JDL	DATE:	2/24/2016

PROJECT NO.	SHEET NO.
B-5121 / B-5317	3D-3

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)

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, HDPE, or PVC) 8	Side Drain Pipe 15	Side Drain Pipe 18	Side Drain Pipe 24	Side Drain Pipe 42	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 15 .064	C. S. PIPE 18 .064	DIP SEALED PIPE SYSTEM SEE SPECIAL PROVISIONS 16 (CLASS 250)	DIP 18 (CLASS 250)	DIP 24 (CLASS 150)	DIP 36 (CLASS 150)
		0534	0601		277.8	274.8	0.7																
L 26+35	52 RT	0535		286.0																			
		0535	0534		282.9	278.1																	
L 24+50	52 RT	0536		294.0																			
		0536	0535		290.9	282.9																	
L 17+50	52 RT	0537		292.8																			
		0537	0504		289.8	288.4																	
Y5 12+65	65 RT	0539		280.0																			
		0539	0830		276.8	272.8																	
Y1 20+65	66 RT	0541		290.3																			
		0541	0560		288.9	281.2	0.9		24				X			X	X						
Y1 22+08	9 RT	0542		291.6																			
		0542	0520		287.1	285.6																	
Y1 22+89	34 RT	0543		292.4																			
		0543	0523		287.9	286.3																	
Y1 20+55	9 RT	0544		285.0																			
		0544	0560		280.9	280.7																	
Y1 19+45	43 LT	0545		278.0																			
		0545	0555		270.5	266.9	0.6																
L 24+12	47 LT	0546		281.7																			
Y1 21+73	87 LT	0548		289.2																			
		0548	0520		286.0	285.5	0.4																
Y1 19+75	43 RT	0549		280.3																			
		0549	0554		276.0	267.2																248	
Y1RPC 18+51	6 LT	0550		282.4																			
		0550	0549		278.1	276.0	1.0																
L 23+07	4 LT	0551		300.8																			
		0551	0529		297.8	293.2																	
Y1RPC 17+15	22 RT	0552		287.7																			
		0552	0559		284.4	284.2																	
Y1RPC 16+00	22 RT	0553		289.0																			
		0553	0558		285.5	284.9																	
Y1 17+23	43 RT	0554		271.5																			
		0554	0808		266.2	265.9																	56
Y1 17+70	43 LT	0555		272.7																			
		0555	0813		266.9	265.3	0.6																
Y1RPD 13+62	54 LT	0557		285.5																			
		0557	0533		283.2	281.5			48							X	X						
Y1RPC 16+83	22 RT	0558		288.4																			
		0558	0552		284.9	284.6	0.3																
Y1RPC 17+15	6 LT	0559		288.1																			
		0559	0550		284.2	279.1																	
Y1 20+60	43 RT	0560		285.9																			
		0560	0550		280.4	278.1																	
Y4 11+00	20 RT	0561		297.5																			
		0561	0503		294.9	287.6																	
Y4 11+00	20 LT	0562		297.5																			
		0562	0561		295.2	294.9																	
Y1 21+40	121 LT	0563		289.4																			
		0563	0548		286.2	286.0																	
SHEET TOTALS									72													248	56

FROM	TO	SEALED DRAINAGE STRUCTURE MASONRY CY	QUANTITY FOR SEALED DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) A 0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.	BOOTS FOR SEALED STRUCTURES	R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24	R. C. PIPE CLASS IV 30	R. C. PIPE CLASS IV 36	R. C. PIPE CLASS IV 42	R. C. PIPE CLASS IV 48	R. C. PIPE CLASS V 15	R. C. PIPE CLASS V 18	R. C. PIPE CLASS V 24	R. C. PIPE CLASS V 30	42" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) A 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	GRATE TYPE F	GRATE TYPE G
0534	0601							80																			
0535																					1			1		1	
0535	0534													104													
0536																					1			1		1	
0536	0535						180																				
0537																					1			1			1
0537	0504						128																				
0539																					1						
0539	0830						100																				
0541																											
0541	0560																										
0542																					1						
0542	0520						60																				
0543																					1			1			1
0543	0523						24																				
0544																					1						
0544	0560														32												
0545																					1	0.8				1	
0545	0555												168														
0546																											
0548																					1						
0548	0520						44																				
0549																					1			1			1
0549	0554																										
0550																					1			1			1
0550	0549								32																		
0551																					1			1		1	
0551	0529						116																				
0552																					1			1		1	
0552	0559														28												
0553																					1			1		1	
0553	0558						80																				
0554			1	0.3		2																		1			1
0554	0808																										
0555																					1	0.8				1	
0555	0813												72														
0557																					1						
0557	0533																										
0558																					1			1		1	
0558	0552													32													
0559																					1			1			1
0559	0550							136																			
0560																					1	0.5		1			1
0560	0550															68											
0561																					1						
0561	0503						80																				
0562																					1						
0562	0561													40													
0563																					1						
0563	0548						40																				
SHEET TOTALS			1	0.3		2	852	216	32				240	176	60	68					22	2.1		13		8	7

FROM	TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05	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 "B" STD. 840.18 OR STD. 840.27	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	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/ 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 EXIST C.B. TO J.B. W/ MH (SP. DETAIL)	CONVERT EXIST J.B. TO C.B. (SPECIAL DETAIL)	CONVERT EXIST J.B. TO SLAB TOP J.B.	ADJUST C.B.	ADJUST D.I.	ADJUST M.H.	15" SIDE DRAIN PIPE ELBOW	15" C.S. ELBOW	18" C.S. ELBOW	C.B. STD 840D02 (SPECIAL DETAIL)	T.B. PRECAST M.H. STD. 840D52 (SPECIAL DETAIL)	T.B.D.I. STD. 840D35 (SPECIAL DETAIL)	BERM DITCH OUTLET STD. 850.10 (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
0534	0601																																				
0535																																					
0535	0534																																				
0536																																					
0536	0535																																				
0537																																					
0537	0504																																				
0539					1	1																															
0539	0830																																				
0541																																1					
0541	0560																									2											
0542		1										1					1																				
0542	0520																																				
0543																																					
0543	0523																																				
0544		1										1					1																				
0544	0560																																				
0545																													1								SPECIAL DESIGN, SEE DETAIL 2C-8
0545	0555																																				REMOVE CB
0546																						1															CONVERT TOP TO SLAB LID
0548												1					1																				
0548	0520																																				
0549																																					REMOVE JB W/ MH AND CB
0549	0554																																				
0550																																					
0550	0549																																				
0551																																					
0551	0529																																				
0552																																					
0552	0559																																				
0553																																					REMOVE CB's
0553	0558																																				
0554																																					REMOVE DI
0554	0808																																				
0555																													1								SPECIAL DESIGN, SEE DETAIL 2C-8
0555	0813																																				
0557					1	1																															
0557	0533																																				
0558																																					
0558	0552																																				
0559																																					REMOVE DI
0559	0550																																				
0560																																					REMOVE DI
0560	0550																																				
0561					1	1																															
0561	0503																																				
0562					1	1																															
0562	0561																																				
0563												1					1																				
0563	0548																																				
SHEET TOTALS		2			4	4						4					4					1				2			2			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