DL83370

COMPUTED BY: VWB DATE: 9/25/2015

CHECKED BY: JDL DATE: 2/24/2016

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5121 / B-5317	3D-6

**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)

Rows in the header: LINE & STATION / SIZE / THICKNESS OR GAUGE

LINE & STATION	OFFSET	STRUCTURE NUMBER FROM	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
		0721	0722		270.5	265.5	1.3
FLYOVER 15+34	1 RT	0722		269.7			
		0722	0723		265.5	264.9	0.3
FLYOVER 15+37	20 LT	0723		268.7			
		0723	0775		264.9	257.9	0.4
FLYOVER 17+00	1 RT	0724		272.7			
		0724	0725		268.7	268.3	
FLYOVER 17+00	20 LT	0725		271.6			
		0725	0723		268.3	265.6	
FLYOVER 17+58	33 RT	0731		274.1			
		0731	0732		271.3	270.9	
FLYOVER 17+58	1 RT	0732		273.7			
		0732	0724		270.9	269.0	
L 46+10	44 RT	0726		257.9			
		0726	0733		254.6	252.3	1.1
L 45+00	7 LT	0727		261.2			
		0727	0728		258.2	255.1	
L 46+85	7 LT	0728		258.1			
		0728	0729		255.1	253.7	0.3
L 47+58	7 LT	0729		256.7			
		0729	0736		253.7	250.6	0.4
L 47+58	59 RT	0733		255.6			
		0733	0735		250.3	249.1	
L 48+25	76 RT	0734		253.5			
		0734	0735		251.2	250.9	
L 48+25	57 RT	0735		254.4			
		0735	0702		249.1	248.3	
L 49+00	3 LT	0736		254.8			
		0736	0738		247.6	247.2	
Y2RPB 11+16	14 LT	0737		256.0			
		0737	0738		253.0	250.6	
L 49+15	33 LT	0738		253.6			
		0738	0713		247.2	246.6	
NBL 10+80	35 RT	0740		251.9			
		0740	0744		248.9	247.5	
		0741	0743		248.8	248.1	
NBL 12+27	44 RT	0743		252.2			
		0743	0744		247.7	247.6	0.7
NBL 12+27	35 RT	0744		251.3			
		0744	0745		246.7	245.7	
SBL 12+45	13 LT	0745		251.6			
		0745	0746		245.8	245.7	
SBL 12+46	19 LT	0746		252.3			
NBL 13+17	35 RT	0750		251.0			
		0750	0752		248.2	247.9	
NBL 13+84	53 RT	0751		250.4			
		0751	0752		248.1	247.6	
NBL 13+84	34 RT	0752					
FLYOVER 22+02	1 RT	0759		268.6			
		0759	0761		263.6	260.9	

Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC); C. S. PIPE; DIP SEALED PIPE SYSTEM SEE SPECIAL PROVISIONS; QUANTITY FOR SEALED DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)); R. C. PIPE CLASS IV; R. C. PIPE CLASS V

FROM	TO	Side Drain 8	15	18	24	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	18 .064		DIP 16 (CLASS 250)	18 (CLASS 250)	24 (CLASS 150)	36 (CLASS 150)	SEALED DRAINAGE STRUCTURE MASONRY CY	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	18	24	30	36	42	48		R. C. PIPE CLASS V 15	18	24	30	42" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL
0721	0722																							52													
0722																																					
0722	0723																								20												
0723																																					
0723	0775																																	108			
0724																																					
0724	0725																																20				
0725																																					
0725	0723																																152				
0731																																					
0731	0732																															28					
0732																																					
0732	0724																															56					
0726																																					
0726	0733																							144													
0727																																					
0727	0728																						184														
0728																																					
0728	0729																						72														
0729																																					
0729	0736																						140														
0733																																					
0733	0735																											68									
0734																																					
0734	0735		20							X	X																										
0735																																					
0735	0702																											44									
0736																																					
0736	0738																																			16	16
0737																																					
0737	0738																															104					
0738																																					
0738	0713					24				X	X																										
0740																																					
0740	0744																						144														
0741	0743			48						X	X																										
0743																																					
0743	0744																							8													
0744																																					
0744	0745																								100												
0745																																					
0745	0746																								8												
0746																																					
0750																																					
0750	0752																						64														
0751																																					
0751	0752		16							X	X																										
0752																																					
0759																																					
0759	0761																						52														
SHEET TOTALS			36	48		24																	656	204	128			112			188	172	108		16	16

QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)); FRAME, GRATES, AND HOOD STD. 840.03; CONCRETE TRANSITIONAL SECTION

FROM	TO	DRAINAGE STRUCTURE MASONRY CY	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	GRATE TYPE E	F	G		D.I. STD. 852.04 OR STD. 852.06	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
0721	0722																				
0722			1								1										1
0722	0723																				
0723			1			1		1													
0723	0775																				
0724			1								1										1
0724	0725																				
0725			1			1		1													
0725	0723																				
0731			1													1			1		
0731	0732																				
0732			1								1										1
0732	0724																				
0726			1			1		1													
0726	0733																				
0727			1			1		1													
0727	0728																				
0728			1			1		1													
0728	0729																				
0729			1			1		1													
0729	0736																				
0733			1	0.3				1													
0733	0735																				
0734			1											1	1						
0734	0735																				
0735			1	0.3				1													
0735	0702																				
0736			1	2.2																	
0736	0738																				
0737			1			1	1														
0737	0738																				
0738			1	1.4		1			1												
0738	0713																				
0740			1			1		1													
0740	0744																				
0741	0743																				
0743			1																		
0743	0744																				
0744			1			1		1													
0744	0745																				
0745			1	0.9		1			1												
0745	0746																				
0746																					
0750			1			1		1													
0750	0752																				
0751			1											1	1						
0751	0752																				
0752																					
0759			1								1										1
0759	0761																				
SHEET TOTALS			23	5.1		12	1	11	2		4			2	2	1			1		4

FROM	TO	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
0721	0722																									
0722						1																				
0722	0723																									
0723																										
0723	0775																									
0724						1																				
0724	0725																									
0725																										
0725	0723																									
0731																										
0731	0732																									
0732						1																				
0732	0724																									
0726																										REMOVE CB
0726	0733																									
0727																										REMOVE CB (L 44+20 LT)
0727	0728																									
0728																										
0728	0729																									
0729																										
0729	0736																									
0733																		1								SPECIAL DESIGN, SEE DETAIL 2C-8
0733	0735																									
0734																										REMOVE CB
0734	0735																									
0735																		1								SPECIAL DESIGN, SEE DETAIL 2C-8
0735	0702																									REMOVE CB's
0736				1				1																		
0736	0738																									
0737																										REMOVE CB
0737	0738																									
0738																										REMOVE CB
0738	0713																									
0740																										
0740	0744																									REMOVE DI
0741	0743																							0.065		
0743				1				1																		REMOVE DI
0743	0744																									
0744																										REMOVE CB
0744	0745																									
0745																										
0745	0746																									
0746																							0.5526			REMOVE CB
0750																										REMOVE CB
0750	0752																									
0751																										
0751	0752																									
0752												1														
0759						1																				
0759	0761																									
SHEET TOTALS				2		4		2				1						2					0.5526	0.065		

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