DL84031

COMPUTED BY:	DWT	DATE:	4/4/18
CHECKED BY:		DATE:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5725/R-3822	3D-3

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 %	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
		0709	0705		155.3	154.6														
L 49+00	63 RT	0710		157.5																
		0710	0705		155.0	154.6				24							X	X		
L 45+50	65 RT	0711		159.8																
		0711	0707		157.3	157.0				24							X	X		
L 52+50	40 LT	0712		159.3																
		0712	0708		156.0	155.3														
L 52+35	40 RT	0713		159.4																
		0713	0709		156.1	155.3														
L 54+75	63 RT	0714		154.8																
		0714	0719		152.3	152.0				24							X	X		
L 53+85	63 RT	0715		156.2																
		0715	0714		153.7	152.3				88							X	X		
L 56+55	40 LT	0717		151.9																
		0717	0805		146.8	144.3														
L 56+50	61 LT	0718		149.5																
		0718	0717		147.0	146.8				24							X	X		
L 54+75	39 RT	0719		155.9																
		0719	0721		152.0	151.8														
L 55+00	61 LT	0720		153.0																
		0720	0722		150.5	150.3				20							X	X		
L 55+00	39 RT	0721		155.3																
		0721	0809		151.8	144.3														
L 55+00	41 LT	0722		155.3																
		0722	0717		150.3	146.8														
L 48+00	39 LT	0723		160.7																
		0723	0702		156.7	154.6														
L 48+00	39 RT	0724		160.7																
		0724	0705		155.7	155.1														
Y3 9+00	28 RT	0725																		
L 68+50	40 LT	0802		130.4																
		0802	0801		125.7	125.6							40				X	X		
L 65+00	40 LT	0803		135.8																
		0803	0802		132.6	127.2														
L 63+00	40 LT	0804		139.2																
		0804	0803		135.9	132.6														
L 58+50	40 LT	0805		147.6																
		0805	0813		144.3	139.5														
L 68+50	39 RT	0806		130.4																
		0806	0802		125.9	125.7														
L 65+00	39 RT	0807		135.8																
		0807	0806		132.6	127.1														
L 62+00	39 RT	0808		140.9																
		0808	0807		137.7	132.6														
L 58+50	39 RT	0809		147.6																
		0809	0808		144.3	137.7														
		0810	0806		127.5	127.0	0.6					28				X	X			
L 61+00	40 LT	0813		142.7																
		0813	0804		139.5	135.9														
L 62+37	67 LT	0814																		
SHEET TOTALS										204		28	40							

FROM	TO	C. S. 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	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY
0709	0705																				184									
0710																														
0710	0705																													
0711																														
0711	0707																													
0712																														
0712	0708																			164										
0713																														
0713	0709																			152										
0714																														
0714	0719																													
0715																														
0715	0714																													
0717																														
0717	0805																			196										
0718																														
0718	0717																													
0719																														
0719	0721																			24										
0720																														
0720	0722																													
0721																														
0721	0809																			348										
0722																														
0722	0717																			152										
0723																														
0723	0702																			100										
0724																														
0724	0705																			100										
0725																										28				
0802																														
0802	0801																													
0803																														
0803	0802																			348										
0804																														
0804	0803																			200										
0805																														
0805	0813																			248										
0806																														
0806	0802																					76								
0807																														
0807	0806																			348										
0808																														
0808	0807																			300										
0809																														
0809	0808																			348										
0810	0806																													
0813																														
0813	0804																			200										
0814																											32			
SHEET TOTALS																				3228	184	76				28	32			

FROM	TO	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	C.B. STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16
0709	0705											
0710		1									1	1
0710	0705											
0711		1									1	1
0711	0707											
0712		1			1			1				
0712	0708											
0713		1			1		1					
0713	0709											
0714		1									1	1
0714	0719											
0715		1									1	1
0715	0714											
0717		1	0.1		1			1				
0717	0805											
0718		1									1	1
0718	0717											
0719		1			1		1					
0719	0721											
0720		1									1	1
0720	0722											
0721		1			1		1					
0721	0809											
0722		1			1			1				
0722	0717											
0723		1			1			1				
0723	0702											
0724		1			1		1					
0724	0705											
0725												
0802		1			1			1				
0802	0801											
0803		1			1			1				
0803	0802											
0804		1			1			1				
0804	0803											
0805		1			1			1				
0805	0813											
0806		1			1		1					
0806	0802											
0807		1			1		1					
0807	0806											
0808		1			1		1					
0808	0807											
0809		1			1		1					
0809	0808											
0810	0806											
0813		1			1			1				
0813	0804											
0814												
SHEET TOTALS		23	0.1		17		8	9			6	6

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. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	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	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	18" PIPE END SECTION	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	18" DRAINAGE PIPE ELBOW	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
0709	0705																											
0710																												
0710	0705																											
0711																												
0711	0707																											
0712																												
0712	0708																											
0713																												
0713	0709																											
0714																												
0714	0719																											
0715																												
0715	0714																											
0717																												
0717	0805																											
0718																												
0718	0717																											
0719																												
0719	0721																											
0720																												
0720	0722																											
0721																												
0721	0809																											
0722																												
0722	0717																											
0723																												
0723	0702																											
0724																												
0724	0705																											
0725																												
0802																												
0802	0801																											
0803																												
0803	0802																											Special CB, See Sheet 2C-6
0804																												
0804	0803																											
0805																												
0805	0813																											
0806																												Special CB, See Sheet 2C-6
0806	0802																											
0807																												
0807	0806																											
0808																												
0808	0807																											
0809																												
0809	0808																											
0810	0806																											
0813																												
0813	0804																											
0814																												

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