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USRA13L117006

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-3825B	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) SIZE 15	18	24	30	36	42	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
THICKNESS OR GAUGE																		
L 60+14	42 RT	0722		160.4														
		0722	0718		157.3	139.0	1.2	68						X			X	X
L 49+53	8 LT	0723		192.6														
		0723	0707		189.5	187.3												
L 66+47	43 LT	0801		161.0														
		0801	0803		156.5	144.0		52						X			X	X
L 67+37	54 LT	0802		159.7														
		0802	0801		157.0	156.5		88										
L 67+35	42 RT	0804		160.0														
		0804	0805		157.2	156.8		80										
L 66+55	42 RT	0805		160.9														
		0805	0806		156.8	142.0		60						X			X	X
Y6 11+78	42 LT	0807		145.2														
		0807	0807-out		142.2	140.0												
Y6 14+56	42 LT	0808		149.4														
		0808	0808-out		147.4	144.9	0.5											
L 73+10	78 LT	0809		158.5														
		0809	0809J		155.0	152.8												
L 73+08	6 RT	0809J																
		0809J	0809-out		152.8	151.4												
L 74+26	10 RT	0810		165.9														
		0810	0811		163.1	161.8												
L 73+79	10 RT	0811		164.9														
		0811	0812		161.8	161.2												
L 73+53	9 RT	0812		164.4														
		0812	0813		161.2	156.0												
L 68+53	182 RT	0899		152.0														
		0899	0899-out		150.0	149.0	2.0			32								
L 87+50	84 LT	0901		194.5														
		0901	0902		191.0	190.9	0.5						20					
L 87+50	64 LT	0902		198.0														
		0902	0926		190.9	190.3												
L 87+50	81 RT	0903		194.9														
		0903	0904		188.6	175.0	1.1						248					
L 85+00	93 RT	0904		181.2														
		0904	0905		175.0	168.5	1.2						236					
L 82+63	87 RT	0905		174.8														
		0905	0923		168.5	167.3	0.3											
L 81+75	80 LT	0906		181.3														
		0906	0928		177.8	172.9												
L 80+28	64 LT	0907		176.9														
		0907	0908		169.5	169.1	0.3											
L 80+28	8 RT	0908		177.7														
		0908	0909		169.1	168.9	0.3											
L 79+59	10 LT	0910		176.8														
		0910	0911		173.7	171.9												
L 78+82	10 LT	0911		175.1														
		0911	0912		171.9	171.3												
L 78+51	10 LT	0912		174.4														
		0912	0912A		171.3	169.7												
SHEET TOTALS								348		32			504					

LINE & STATION	C. S. PIPE SIZE 15	18	24	30	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	WELDED STEEL PIPE GRADE B 0.5" THICK 15	18	24	30	36	42	48	15	18	24	30	36	42	48	15	18	24	30	36	42	48
THICKNESS OR GAUGE	.064	.064	.064	.079															IN SOIL	IN SOIL	IN SOIL	IN SOIL	IN SOIL	IN SOIL	IN SOIL	NOT IN SOIL	NOT IN SOIL	NOT IN SOIL	NOT IN SOIL	NOT IN SOIL	NOT IN SOIL	NOT IN SOIL
L 60+14																																
L 49+53																																
					80																											
L 66+47																																
L 67+37																																
L 67+35																																
L 66+55																																
Y6 11+78																																
									96																							
Y6 14+56																																
							88																									
L 73+10																																
																			52												52	
L 73+08																																
									68																							
L 74+26																																
					44																											
L 73+79																																
					24																											
L 73+53																																
					64																											
L 68+53																																
L 87+50																																
L 87+50																																
									40																							
L 87+50																																
L 85+00																																
L 82+63																																
																			116												116	
L 81+75																																
																			46												46	
L 80+28																																
									72																							
L 80+28																																
									48																							
L 79+59																																
					76																											
L 78+82																																
					32																											
L 78+51																																
					68																											
SHEET TOTALS					388		88		96	228									214												214	

LINE & STATION	15" TEMPORARY PIPE	18" TEMPORARY PIPE	24" TEMPORARY PIPE	ENDWALLS STD. 826.01 OR 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY 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. 852.06 OR STD. 852.05	OR DETAIL SHEET 2C-2 C.B. STD. 852.05	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. (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/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	TEMP STEEL PLATE COVER PSH 2C-8	M.H. FRAME AND COVER STD. 840.54	T.B.J.B. SPECIAL DETAIL PSH 2C-6	15" PIPE END SECTION	18" CROSS PIPE END SECTION	ADJUST C.B.	15" DRAINAGE PIPE ELBOW	18" DRAINAGE PIPE ELBOW	24" DRAINAGE PIPE ELBOW	15" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 (L CY	PIPE REMOVAL LIN. FT.	REMARKS
L 60+14							1														1						1															
																															2											
L 49+53							1							1																												See Special Detail Sheet 2C-5
L 66+47							1														1						1															
																															2											
L 67+37							1														1						1															
L 67+35							1														1						1															
L 66+55							1														1						1															
																															2											
Y6 11+78				3.400																																						
Y6 14+56																																										Open End
L 73+10				4.500																																						
L 73+08																																							1.7712			Special Detail Collar No. 840D72; See Detail Sheet 2C-10
L 74+26							1															1		1	1																	Leave boxes low with steel plate and pave, then adjust height for final grade
L 73+79							1															1		1	1																	Leave boxes low with steel plate and pave, then adjust height for final grade
L 73+53							1							1								1		1	1																	Leave boxes low with steel plate and pave, then adjust height for final grade
L 68+53																																										Open End
L 87+50				4.500																																						
L 87+50							1	2.1																				1			1											
L 87+50							1	1.3													1			1																	
L 85+00							1	1.3													1			1																	
L 82+63							1	1.3													1			1																	
L 81+75				4.500																																						
L 80+28							1	2.4													1			1																	
L 80+28							1	3.6						1													1			1		1										See Detail Sheet 2C-2. Leave boxes low with steel plate and pave, then adjust height for final grade
L 79+59							1							1		1	1																									
L 78+82							1							1		1	1																									
L 78+51							1							1		1	1																									
SHEET TOTALS				16.900			18	12.0						6		3	3	4	5		4	9	1		3	4	1	1			6							1.7712			

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