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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-3825B	3D-1

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) 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
L 17+00	68 RT	0401		300.9														
		0401	0402		296.6	288.4	2.0		196									
L 19+00	71 RT	0402		291.4														
		0402	0405		288.4	281.2	2.5		148									
L 22+00	68 RT	0403		276.1														
		0403	0404		271.4	269.5	0.5											
DRW25 10+59	5 RT	0404		273.2														
		0404	0512		269.5	267.3	0.6											
L 20+50	68 RT	0405		284.2														
		0405	0403		281.2	271.9	4.7		148									
L 25+50	76 LT	0502		260.3														
		0502	0502-out		257.8	240.3	1.4				204							
L 29+33	42 LT	0504		256.3														
		0504	0505		253.6	253.5		8										
L 29+43	42 LT	0505		256.3														
		0505	0506		252.3	245.0		40						X			X	X
L 35+64	55 LT	0511		253.3														
		0511	0511-out		251.3	250.3		44										
DRW25 10+59	49 LT	0512		271.0														
		0512	0513		266.5	248.1	2.7				204							
L 25+50	85 RT	0513		252.8														
		0513	0514		248.1	242.8	3.2				160							
L 31+00	67 RT	0517		252.8														
		0517	0518		250.0	249.7												
DRW26 10+55	20 RT	0518		254.7														
		0518	0519		249.7	249.4	0.4											
DRW26 10+57	41 LT	0519		254.2														
		0519	0520		249.2	249.0			28									
L 32+50	58 RT	0520		252.8														
		0520	0510JB		247.5	247.2	0.3											
L 32+61	4 LT	0510JB		256.2														
		0510JB	0510-OUT		247.2	245.0												
L 32+51	67 RT	0521		252.2														
		0521	0520		249.2	248.3	1.0					12						
L 37+98	97 RT	0601		246.3														
		0601	0605		245.0	236.3	5.0	32						X			X	X
L 38+71	76 RT	0602		238.0														
		0602	0605		234.5	234.1	0.4			68								
L 36+50	91 RT	0603		251.8														
		0603	0604		250.5	242.3	0.6	24						X			X	X
L 36+50	67 RT	0604		245.0														
		0604	0605		242.3	236.3	3.8	144										
L 38+00	68 RT	0605		240.3														
		0605	0618		233.6	233.4												
L 37+67	10 LT	0606		245.2														
		0606	0619		242.4	232.8												
L 42+47	5 RT	0608		225.1														
		0608	0611		221.9	218.9												
L 40+05	9 LT	0609		236.6														
		0609	0610		233.4	228.8												
SHEET TOTALS								292	520	432	204	12						

LINE & STATION	C. S. PIPE 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
	.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 17+00																																
L 19+00																																
L 22+00																																
							92																									
DRW25 10+59																																
							56																									
L 20+50																																
L 25+50																																
L 29+33																																
L 29+43																																
L 35+64																																
DRW25 10+59																																
L 25+50																																
L 31+00																																
					60																											
DRW26 10+55																																
					60																											
DRW26 10+57																																
L 32+50																																
																	30															30
L 32+61																																
								76																								
L 32+51																																
L 37+98																																
L 38+71																																
L 36+50																																
L 36+50																																
L 38+00																																
							44																									
L 37+67																																
					80																											
L 42+47																																
					52																											
L 40+05																																
					76																											
SHEET TOTALS					328		148	44	76								30															30

LINE & STATION	15" TEMPORARY PIPE	18" TEMPORARY PIPE	24" TEMPORARY PIPE	ENDWALLS STD. 826.01 OR 826.11 (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. 852.04 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 17+00							1														1			1																		
L 19+00							1															1			1																	
L 22+00							1														1			1																		
DRW25 10+59							1			1	1					1																										
L 20+50							1															1			1																	
L 25+50																																										Open End
L 29+33							1															1			1																	
L 29+43							1															1			1																	
																																	2									
L 35+64																																										
DRW25 10+59							1			1	1																															
L 25+50							1														1			1																		
L 31+00							1															1			1																	
DRW26 10+55							1			1	1						1																									
DRW26 10+57							1			1	1																															
L 32+50							1	0.2														1			1																	
L 32+61							1	4.0																			1			1												
L 32+51				3.400																																						Headwall
L 37+98																																								1			
L 38+71							1															1			1																	
L 36+50																																								1			
L 36+50							1															1			1																	
L 38+00							1	1.7													1			1																	
L 37+67							1														1				1																	
L 42+47							1							1		1	1																									
L 40+05							1							1		1	1																									
SHEET TOTALS				3.400			20	5.9		4	4			2	2	2	2	5	8		1	10	3	1				1					2				2					

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