RALD071

COMPUTED BY: Allen Hodges DATE: 12/8/15

CHECKED BY: Benton Carroll DATE: 12/9/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-2524D	3D-10

**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 %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) 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
L 477+67	32 LT	0000																	
L 475+69	39 LT	0000																	
L 473+02	16 LT	0000																	
L 471+05	13 RT	0000																	
L 468+98	5 RT	0000																	
L 498+70	30 LT	0000																	
RPBY8 12+69	31 LT	0000																	
RPBY8 13+07	27 LT	0000																	
RPBY8 12+35	25 RT	0000																	
L 492+49	40 LT	0000																	
L 493+04	79 LT	0000																	
L 493+14	82 LT	0000																	
L 494+02	40 LT	0000																	
RPBY8 13+23	26 LT	0000																	
L 457+78	99 LT	0000																	
L 459+33	38 LT	0000																	
L 459+38	93 LT	0000																	
L 458+69	99 LT	0000																	
L 490+98	46 LT	0000																	
L 465+33	141 LT	0000																	
L 462+64	102 RT	0000																	
RPDY8 12+04	3 RT	0000																	
SPDY8 02+78	43 LT	0000																	
Y8 23+40	28 LT	0000																	
Y8 24+86	26 LT	0000																	
Y8 25+04	32 LT	0000																	
RPCY8 10+22	40 RT	0000																	
SPCY8 03+35	49 RT	0000																	
SPCY8 00+44	29 RT	0000																	
L 468+36	104 RT	0000																	
Y8 19+25	0 CL	0000																	
Y8_DET 17+11	361 LT	02B1	0958						76									X	X
L 431+34	155 RT	0532		823.2															
		0532	0521		820.4	819.3		108										X	X
L 430+22	158 RT	0521		823.0															
		0521	0531		819.3	818.2		108										X	X
L 429+08	160 RT	0531		826.0															
L 420+37	217 RT	0401		765.0	762.6														
L 420+45	202 RT																		
SHEET TOTALS								216	76										
PROJECT TOTALS								1148	204	24	100	112							

	C. S. PIPE 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	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48
PROJECT TOTALS	132	200	24	32	134				3468	2140	2212	1072	1976		432		5144	164	420	512	324							300			

LINE & STATION	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) 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. 852.06	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 "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	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	J.B. STD. 840.31 OR STD. 840.32	SPECIAL DESIGN JB (See Detail Sht.)	T.B.D.I. STD. 840.35	OPEN THROAT CATCH BASIN SPECIAL DESIGN	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	ADJUST M.H.	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	15" C.S. ELBOW	18" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10	BERM DITCH OUTLET STD. 850.11	30" SLUICE GATE 38.8" SIZE SLUICE GATE)	36" SLUICE GATE 46" SIZE SLUICE GATE)	FLOWABLE FILL CY	PIPE REMOVAL LIN. FT.	REMARKS
L 477+67																																							261	
L 475+69																																							134	
L 473+02																																							395	
L 471+05																																							23	
L 468+98																																							100	REMOVE HW
L 498+70																																							29	
RPBY8 12+69																																							43	
RPBY8 13+07																																							63	
RPBY8 12+35																																							115	
L 492+49																																							25	
L 493+04																																							73	
L 493+14																																							74	
L 494+02																																							79	
RPBY8 13+23																																							38	
L 457+78																																							58	
L 459+33																																							87	
L 459+38																																							21	
L 458+69																																							133	
L 490+98																																							66	
L 465+33																																							56	REMOVE HW
L 462+64																																							64	
RPDY8 12+04																																							35	
SPDY8 02+78																																							47	
Y8 23+40																																							262	
Y8 24+86																																							28	
Y8 25+04																																							5	
RPCY8 10+22																																							40	
SPCY8 03+35																																							159	
SPCY8 00+44																																							28	
L 468+36																																							66	
Y8 19+25																																							110	
Y8_DET 17+11																																							76	TEMP. DRAINAGE, REMOVE WITH DETOUR
L 431+34		1										1	1																											
																																							115	
L 430+22		1									1																													
																																							120	
L 429+08		1	2.8									1	1																											
L 420+37		1										1	1																											
L 420+45																																							16	
SHEET TOTALS		4	2.8								1	3	3																										3044	
PROJECT TOTALS	11.700	197	203.7		49	12	19	20	5		7	14	14	32	80	40	7	74	2	5	1	5	1	1	5	1	1	12	2	4	5	1	4	2	1	1	1		6051	

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