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-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)

LINE & STATION / SIZE / THICKNESS OR GAUGE	OFFSET		STRUCTURE NUMBER FROM	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
			0925	0926		773.0	772.0	0.7												
			0926	0930		772.0	768.1	0.8												
SPAY8 03+26	14	RT	0926		775.3															
			0927	0926		772.3	772.2													
SPAY8 03+19	14	RT	0927		775.3															
Y8 17+00	7	LT	0928		775.4															
			0928	0929		772.7	771.5													
Y8 17+00	43	LT	0929		774.5															
			0929	0930		771.5	768.4													
Y8 17+00	126	LT	0930		771.1															
			0930	0988		768.1	763.3	1.2												
RPBY8 12+57	38	RT	0931		771.8															
			0931	0932		769.1	768.6													
Y8 17+85	49	RT	0932		773.4															
			0932	0985		768.2	765.6	0.5												
			0933	0932		768.6	768.4													
RPBY8 13+64	16	RT	0933		772.4															
			0934	0933		769.3	768.6													
RPCY8 13+16	16	LT	0934		772.3															
			0935	0987		762.8	760.9													
RPAY8 13+86	16	LT	0935		772.3															
Y8 19+55	49	RT	0936		773.5															
			0936	0937		770.5	770.0													
Y8 19+71	43	LT	0937		773.8															
			0937	0938		770.0	769.5													
			0938	0935		763.7	763.1													
RPDY8 14+07	16	RT	0938		772.5															
RPDY8 13+20	38	RT	0939		770.9															
			0939	0938		764.1	763.7													
Y8 20+60	90	LT	0940		774.7															
			0940	0939		772.0	766.9													
Y8 20+54	98	RT	0941		770.7															
			0941	0986		767.7	765.9	0.4												
Y8 20+50	49	RT	0942		775.2															
			0942	0941		772.2	768.0													
Y8 20+50	16	RT	0943		776.2															
			0943	0942		773.5	772.2													
			0944	0941		772.9	768.0	0.5												
SPCY8 03+29	15	RT	0944		775.9															
Y8 21+70	54	RT	0945		777.9															
			0945	0944		774.9	772.9													
Y8 21+70	13	RT	0946		779.8															
			0946	0945		777.1	774.9													
			0947	0971		773.9	771.3		40										X	X
SPDY8 01+69	14	LT	0947		776.9															
SPDY8 03+00	14	LT	0948		781.4															
			0948	0970		778.4	776.8	0.9	32										X	X
Y8 24+75	3	RT	0949		798.3															
			0949	0950		795.6	795.1													
Y8 24+75	49	LT	0950		798.1															
							SHEET TOTALS		72											

FROM	TO	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
0925	0926																		72													
0926	0930																		92													
0926																																
0927	0926																	8														
0927																																
0928																																
0928	0929																	32														
0929																																
0929	0930									84																						
0930																																
0930	0988										60																					
0931																																
0931	0932									104																						
0932																																
0932	0985										60																					
0933	0932																	44														
0933																																
0934	0933																	124														
0934																																
0935	0987																20															
0935																																
0936																																
0936	0937																	92														
0937																																
0937	0938																	40														
0938	0935																132															
0938																																
0939																																
0939	0938																84															
0940																																
0940	0939									88																						
0941																																
0941	0986										52																					
0942																																
0942	0941									48																						
0943																																
0943	0942																	32														
0944	0941																	80														
0944																																
0945																																
0945	0944																	80														
0946																																
0946	0945																	40														
0947	0971																															
0947																																
0948																																
0948	0970																															
0949																																
0949	0950																	48														
0950																																
SHEET TOTALS										324	172						236		620	164												

FROM	TO	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
0925	0926																						
0926	0930																						
0926			1			1	1																
0927	0926																						
0927			1			1	1																
0928			1							1							1						1
0928	0929																						
0929			1			1			1														
0929	0930																						
0930			1													1			1				
0930	0988																						
0931			1													1			1				
0931	0932																						
0932			1	0.2		1		1															
0932	0985																						
0933	0932																						
0933			1			1	1																
0934	0933																						
0934			1			1	1																
0935	0987																						
0935			1	4.4		1	1																
0936			1			1			1														
0936	0937																						
0937			1			1		1															
0937	0938																						
0938	0935																						
0938			1	3.8		1	1																
0939			1	1.8											1				1				
0939	0938																						
0940			1													1			1				
0940	0939																						
0941			1													1			1				
0941	0986																						
0942			1			1			1														
0942	0941																						
0943			1							1							1						1
0943	0942																						
0944	0941																						
0944			1			1	1																
0945			1			1			1														
0945	0944																						
0946			1							1							1						1
0946	0945																						
0947	0971																						
0947			1			1	1																
0948			1			1		1															
0948	0970																						
0949			1							1							1						1
0949	0950																						
0950			1			1		1															
SHEET TOTALS			25	10.2		16	8	4	4	4					1	4	4		5				4

FROM	TO	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
0931																			REMOVE HW

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