RALD071

COMPUTED BY:	Allen Hodges	DATE:	12/8/15
CHECKED BY:	Benton Carroll	DATE:	12/9/15

PROJECT NO.	SHEET NO.
U-2524D	3D-11

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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 54 INCHES & OVER)

LINE & STATION	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
L 466+88	105 RT	0814					
		0814	0820		802.2	797.3	
L 468+00	90 LT	0820		817.0			
		0820	0813		797.3	792.4	
L 470+57	90 LT	0813		806.9			
		0813	0819		792.4	792.4	
L 521+21	118 RT	10A1					
		10A1	10A3		772.6	770.4	
L 521+23	0 CL	10A3		777.1			
		10A3	10A2		768.9	766.0	
L 521+25	102 LT	10A2		773.9			
		10A2	10A14		764.5	764.4	
Y8_DET 18+29	0 CL	02B2			759.0	757.9	

SIZE / THICKNESS OR GAUGE — pipes:

LINE & STATION	FROM	TO	C. S. PIPE 54	60	66	72	78	84	R. C. PIPE CLASS III 54	60	66	72	78	84	R. C. PIPE CLASS IV 54	60	66	72	78	84	R. C. PIPE CLASS V 54	60	66	72	78	84	STRUCTURAL PLATE PIPE 60	66	72	154" x 100" C.S. STRUCTURAL PLATE PIPE ARCH, 8 GAUGE
L 466+88	0814																													
	0814	0820								224																				
L 468+00	0820																													
	0820	0813								256																				
L 470+57	0813																													
	0813	0819								52																				
L 521+21	10A1																													
	10A1	10A3																116												
L 521+23	10A3																													
	10A3	10A2																100												
L 521+25	10A2																													
	10A2	10A14										44																		
Y8_DET 18+29	02B2																													125
SHEET TOTALS										532		44						216												125
PROJECT TOTALS										532		44						216												125

Endwalls and drainage structures:

LINE & STATION	FROM	TO	ENDWALLS STD. 838.01 OR STD. 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. 852.04 OR STD. 852.06	C.B. STD. 852.05
L 466+88	0814			5.900										
	0814	0820												
L 468+00	0820				15.000									
	0820	0813												
L 470+57	0813				12.000									
	0813	0819												
L 521+21	10A1			7.100										
	10A1	10A3												
L 521+23	10A3				5.980									
	10A3	10A2												
L 521+25	10A2				6.640									
	10A2	10A14												
Y8_DET 18+29	02B2													
SHEET TOTALS				13.000	39.620									
PROJECT TOTALS				13.000	39.620									

Drop inlets and frames:

LINE & STATION	FROM	TO	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	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. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	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/ 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/ GRATE STD. 840.29	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
L 466+88	0814																		
	0814	0820																	
L 468+00	0820																		
	0820	0813																	
L 470+57	0813																		
	0813	0819																	
L 521+21	10A1																		
	10A1	10A3																	
L 521+23	10A3																		
	10A3	10A2																	
L 521+25	10A2																		
	10A2	10A14																	
Y8_DET 18+29	02B2																		
SHEET TOTALS																			
PROJECT TOTALS																			

Junction boxes, manholes, pipe removal and remarks:

LINE & STATION	FROM	TO	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	SPRING BOX STD. 840.41	SPECIAL DESIGN JB	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	PIPE REMOVAL LIN. FT.	REMARKS
L 466+88	0814														
	0814	0820													
L 468+00	0820										1		1		JB W/ MH SPECIAL DESIGN
	0820	0813													
L 470+57	0813										1		1		JB W/ MH SPECIAL DESIGN
	0813	0819													
L 521+21	10A1														
	10A1	10A3													
L 521+23	10A3		1												WITH SLAB LID
	10A3	10A2													
L 521+25	10A2		1												WITH SLAB LID
	10A2	10A14													
Y8_DET 18+29	02B2													125	TEMP. DRAINAGE, REMOVE WITH DETOUR
SHEET TOTALS			2								2		2	125	
PROJECT TOTALS			2								2		2	125	

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