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TICIVILWORK717

COMPUTED BY: MSP DATE: 6/30/2017

CHECKED BY: EV DATE: 6/30/2017

PROJECT NO.	SHEET NO.
U-4751	3D-28

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 / SIZE / THICKNESS OR GAUGE	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
L 58+62	0	CL	0905			38.3	37.8	
L 178+67	101	LT	1716		37.5			
L 182+07	99	RT	1717		38.0			
			1717	1723		38.0	37.7	
SR4 22+23	54	LT	1721		38.3			
SR4 23+00	26	RT	1722		38.6			
			1722	1721		38.6	38.3	
L 180+29	6	LT	1723		51.0			
			1723	1716		37.7	37.5	
L 215+99	103	LT	2041		36.5			
			2041	2042		36.5	35.8	
L 215+28	85	RT	2042		35.8			
Y8RPC 26+53	104	RT	2106		36.0			
Y8RPC 30+20	87	LT	2107		36.3			
			2107	2106		36.3	36.0	

LINE & STATION	FROM	TO	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	24	30		DO NOT USE CSP	DO NOT USE HDPE	DO NOT USE PVC	CAAP 12 .064	15 .064	18 .064	
L 58+62	0905														
L 178+67	1716														
L 182+07	1717														
	1717	1723													
SR4 22+23	1721														
SR4 23+00	1722														
	1722	1721													
L 180+29	1723														
	1723	1716													
L 215+99	2041														
	2041	2042													
L 215+28	2042														
Y8RPC 26+53	2106														
Y8RPC 30+20	2107														
	2107	2106													
SHEET TOTALS															
PROJECT TOTALS															

LINE & STATION	FROM	TO	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	54	60
L 58+62	0905											
L 178+67	1716											
L 182+07	1717											
	1717	1723										
SR4 22+23	1721											
SR4 23+00	1722											
	1722	1721										
L 180+29	1723											
	1723	1716										
L 215+99	2041											
	2041	2042										
L 215+28	2042											
Y8RPC 26+53	2106											
Y8RPC 30+20	2107											
	2107	2106										
SHEET TOTALS												
PROJECT TOTALS												

LINE & STATION	FROM	TO	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	54	60	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48	54
L 58+62	0905											188									
L 178+67	1716																				
L 182+07	1717																				
	1717	1723										208									
SR4 22+23	1721																				
SR4 23+00	1722																				
	1722	1721									104										
L 180+29	1723																				
	1723	1716										188									
L 215+99	2041																				
	2041	2042										204									
L 215+28	2042																				
Y8RPC 26+53	2106																				
Y8RPC 30+20	2107																				
	2107	2106										416									
SHEET TOTALS											104	1204									
PROJECT TOTALS											104	1204									

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 58+62	0905														
L 178+67	1716			5.600											
L 182+07	1717			5.600											
	1717	1723													
SR4 22+23	1721			5.000											
SR4 23+00	1722			5.000											
	1722	1721													
L 180+29	1723					1	5.0	3.3							
	1723	1716													
L 215+99	2041			5.600											
	2041	2042													
L 215+28	2042			5.600											
Y8RPC 26+53	2106			5.600											
Y8RPC 30+20	2107			5.600											
	2107	2106													
SHEET TOTALS				43.600		1	5.0	3.3							
PROJECT TOTALS				43.600		1	5.0								

LINE & STATION	FROM	TO	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	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 58+62	0905																										CULVERT
L 178+67	1716																										
L 182+07	1717																										
	1717	1723																									
SR4 22+23	1721																										
SR4 23+00	1722																										
	1722	1721																									
L 180+29	1723																					1	1					
	1723	1716																									
L 215+99	2041																										
	2041	2042																									
L 215+28	2042																										
Y8RPC 26+53	2106																										
Y8RPC 30+20	2107																										
	2107	2106																									
SHEET TOTALS																					1	1					
PROJECT TOTALS																					1	1					

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