COMPUTED BY:	BJF	DATE:	10/25/2022
CHECKED BY:	ARV	DATE:	10/26/2022

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-5751	3D-3

RD24621

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	C.S. PIPE 15	18	24	30	36	42	48	R.C. PIPE CLASS III 15	18	24	30	36	42	48	R.C. PIPE CLASS IV 15	18	24	30	36	42	48	R.C. PIPE CLASS V 12	15	18	24	30	36	42	48
		667	668		84.88	80.11								32																														
Y1RPD 18+54	25 LT	669		93.13																																							
		669	670		90.38	81.40								40																													
Y1A 23+98	CL	1001A	1001B		76.38	75.84																																168					
Y1A 25+00	CL	1002A	1002B		76.25	76.04																																					
Y1A 26+00	CL	1003A	1003B		76.45	76.24																																					
Y1A 27+00	CL	1004A	1004B		76.65	76.44																																					
Y1C 47+54	CL	1101A	1101B		78.50	78.20																																					
SRB 11+77	CL	1102A	1102B		79.60	78.90																																					
SRB 12+50	37 LT	1103A	1103B		80.42	80.16																																					
SHEET TOTAL														72																													
PROJECT TOTAL														788							260							104	1552	300					280	36	520					
SAY TOTAL														788							260							104	1552	300					280	36	520					

LINE & STATION / SIZE / THICKNESS OR GAUGE	R.C. PIPE CLASS V 48	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS OTHERWISE NOTED) CY	REINFORCED ENDWALLS CY	15" WELDED STEEL PIPE 0.25" THICK, GRADE B	42" WELDED STEEL PIPE 0.625" THICK, GRADE B	48" WELDED STEEL PIPE 0.625" THICK, GRADE B	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0')	LIN.FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.06 OR STD. 852.05	C.B. STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	SPECIAL DETAIL 2GI-A (SEE DETAIL 2D-4)	G.D.I. (W.S. 5AG) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. ELAT) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (W.S. 5AG) FRAME W/ 3 GRATES STD. 840.22	G.D.I. (N.S. 5AG) FRAME W/ 2 GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B. - J.B. STD. 840.34	T.B.G.D.I. STD. 840.35	STEEL FRAME AND TWO GRATES STD. 840.37	STEEL FRAME AND GRATE STD. 840.37	M.H. STD. 840.51, STD. 840.52, OR STD.53	M.H. FRAME AND COVER STD. 840.54	PARALLEL PIPE END SECTION STD. 310.04	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO 2 G.I.	CONVERT C.B. TO D.I.	ADJUST EXISTING MANHOLE	ADJUST EXISTING C.B.	ADJUST D.I.	ADJUST 2GI	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	42" C.S. ELBOW	48" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	CONC. COLLARS CL. "B" C.Y. STD. 840.72	FLOWABLE FILL, C.Y.		PIPE REMOVAL LIN. FT.	REMARKS
																																										2		
Y1RPD 18+54									1										1			1																						
																																										2		
Y1A 23+98																																												2 @ 24" RCP
Y1A 25+00	88	3.4																																									
Y1A 26+00	108	3.4																																									
Y1A 27+00	104	3.4																																									
Y1C 47+54	204																																									82	Remove 82LF of 24" RCP
SRB 11+77	96																																									119	Remove 81LF of 18" RCP And Remove 38LF of 12" RCP
SRB 12+50																																											
SHEET TOTAL	300	12.2							1										1			1																			4		201
PROJECT TOTAL	1344	21.2	20.4	276	184	148			46	19.03				4		4	4	2	19	1	1	12	11		1		18	18		1						1		18						108.37		201
SAY TOTAL	1344	21.2	20.4	276	184	148			46	19.03				4		4	4	2	19	1	1	12	11		1		18	18		1						1		18						108.37		201

ABBREVIATIONS

C.A.A - CORRUGATED ALUMINUM INLET
C.B - CATCH BASIN
C.S. - CORRUGATED STEEL
D.I. - DROP INLET
G.D.I. - GRATED DROP INLET
P.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