RD248621

COMPUTED BY: NM DATE: 3/24/2016

CHECKED BY: WJW DATE: 3/24/2016

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-4929	3D-3

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	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12	15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
THICKNESS OR GAUGE																			
Y1 40+50	25 RT																		
Y1 42+35	28 LT																		
Y1 43+40	25 LT																		
Y1 43+73	26 LT																		
Y1 47+05	25 LT																		
Y1 48+28	28 RT																		
Y3 12+78	13 RT																		
Y4 12+79	37 RT																		
Y5 15+34	21 LT																		
Y5 15+34	20 RT																		
Y5 15+34	20 LT																		
SHEET 1 TOTAL																			
SHEET 2 TOTAL																			
SHEET 3 TOTAL																			
PROJECT TOTAL																			
SAY TOTAL																			

LINE & STATION	C.S. PIPE SIZE 12	15	18	24	30	36	42	48	R.C. PIPE CLASS III SIZE 12	15	18	24	30	36	42	48	R.C. PIPE CLASS IV SIZE 12	15	18	24	30	36	42	48	ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY	REINFORCED ENDWALLS CY	MASONRY DRAINAGE STRUCTURE CY	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE
THICKNESS OR GAUGE	0.064	0.064	0.064	0.064	0.079	0.079	0.109	0.109																					
Y1 40+50																													
Y1 42+35																													
Y1 43+40																													
Y1 43+73																													
Y1 47+05																													
Y1 48+28																													
Y3 12+78																													
Y4 12+79																													
Y5 15+34																													
Y5 15+34																													
Y5 15+34																													
SHEET 1 TOTAL																	940	36	92		76								
SHEET 2 TOTAL																	1376	652											
SHEET 3 TOTAL																													
PROJECT TOTAL																	2316	688	92		76								
SAY TOTAL																	2316	688	92		76								

LINE & STATION	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS OTHERWISE NOTED) 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. 852.04 OR STD. 852.06	C.B. STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME W/ TWO GRATES 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	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 3 GRATES STD. 840.22	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	T.B.G.D.I. STD. 840.36	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	CONVERT EXISTING D.I. TO C.B.	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING D.I. TO T.B.J.B.	CONVERT EXISTING J.B. TO 2 G.I.	ADJUST EXISTING MANHOLE	ADJUST D.I.	REBUILD D.I.	15" C.S. ELBOW	18" C.S. ELBOW	24"C.S. ELBOW	SPECIAL CONCRETE MEDIAN 2GI	BERM DITCH OUTLET STD. 850.10 (PER EACH)	PREFORMED SCOUR HOLE (PER EACH)	FLOWABLE FILL, C.Y.	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN. FT.	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	PIPE CLEANOUT	REMARKS
Y1 40+50																																																				1	
Y1 42+35																																																		3			
Y1 43+40																																																			36			
Y1 43+73																																																			190			
Y1 47+05																																																			142			
Y1 48+28																																																			10			
Y3 12+78																																																			112			
Y4 12+79																																																					1	
Y5 15+34																																																					1	
Y5 15+34																																																			97			
Y5 15+34																																																			40			
SHEET 1 TOTAL																																													25	2.45		19	5	9	5					6			6																							
SHEET 2 TOTAL																																													26	1.40		11	2	4	5	1		3	3		4	4			2	1	3	3			3																	52	2	
SHEET 3 TOTAL																																																					3		627		3
PROJECT TOTAL																																													51	3.85		30	7	13	10	1		3	3	6	4	4	6			2	1	3	3			3																3		679	2	3
SAY TOTAL																																													51	3.85		30	7	13	10	1		3	3	6	4	4	6			2	1	3	3			3																3		679	2	3

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