COMPUTED BY:	CJH	DATE:	3/11/2022
CHECKED BY:	WJW	DATE:	5/4/2022

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
I-5987A	3D-11

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 %	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	C. S. PIPE 15 (0.064)	18 (0.064)	24 (0.064)	30 (0.079)	36 (0.079)	42 (0.109)	48 (0.109)	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42	48
		1404	1428		147.50	146.50	.7																																
LA 214+80	3 LT	1405		151.63																																			
		1405	1317		146.80	146.00																											112						
LA 214+80	3 RT	1406		151.62																																			
		1406	1405		146.90	146.80																											8						
LA 226+65	3 LT	1407		150.71																																			
		1407	1408		146.50	146.40																											8						
LA 226+65	3 RT	1408		150.72																																			
		1408	1402		146.40	146.00	.3																										44						
LA 227+65	3 LT	1409		150.70																																			
		1409	1410		146.50	146.40																											8						
LA 227+65	3 RT	1410		150.74																																			
		1410	1402		146.40	146.00	1.0																										60						
LA 241+25	3 LT	1411		152.65																																			
		1411	1412		148.50	148.40																											8						
LA 241+25	3 RT	1412		152.94																																			
		1412	1404		148.40	147.80	.3																										48						
LA 242+50	3 LT	1413		152.60																																			
		1413	1403		148.70	148.30	.4																										52						
LA 242+50	3 RT	1414		153.01																																			
		1414	1413		148.80	148.70																											8						
LA 232+65	3 LT	1417		153.54																																			
		1417	1418		149.40	149.30																											8						
LA 232+65	3 RT	1418		152.88																																			
		1418	1410		149.30	146.40																											504						
LA 224+57	146 RT	1421		142.50																																			
LA 227+35	177 LT	1422		142.80																																			
		1422	1423		139.30	139.23																																	
LA 226+68	99 LT	1423		147.50																																			
		1423	1421		139.23	139.00																																	
LA 229+25	119 LT	1424		143.20																																			
		1424	1423		141.20	140.00	1.7																											260					
LA 222+00	3 LT	1425		152.13																																			
		1425	1426		148.00	147.90																											8						
LA 222+00	3 RT	1426		152.23																																			
		1426	1427		147.90	145.50																																	
LA 241+73	87 RT	1428		152.37																																			
		1428	1415		146.50	145.00	1.3																											56					
LA 247+35	3 LT	1501		154.13																																			
		1501	1504		150.20	148.20																											360						
LA 247+35	3 RT	1502		154.47																																			
		1502	1501		150.30	150.20																											8						
LA 253+00	3 LT	1503		153.95																																			
		1503	1504		149.20	148.20																											208						
LA 250+92	3 LT	1504		154.49																																			
		1504	1505		143.20	141.80																																	
LA 250+53	150 RT	1505		145.60																																			
LA 251+21	119 LT	1506		147.30																																			
		1506	1504		144.30	143.20																																	
LA 243+75	85 LT	1507		151.98																																			
SHEET TOTAL																																	1452	316					

FROM	TO	16" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	36" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	48" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	16" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	24" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL	48" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL	ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY	REINFORCED ENDWALLS CY	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'	LIN.FT. 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 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	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	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 840.32	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 AND TWO GRATES STD. 840.37	M.H. STD. 840.51, STD. 840.52, OR STD.53	M.H. FRAME AND COVER STD. 840.54	TEMP STEEL PLATE COVER MASONARY DRAINAGE	15" C.S. ELBOW	15" SIDE DRAIN PIPE ELBOW	FLOWABLE FILL, C.Y.	PIPE REMOVAL LIN. FT.	REMARKS
1404	1428		44							44																																					
1405																		1																				1	1								
1405	1317																																														
1406																		1																				1	1								
1406	1405																																														
1407																		1																				1	1								
1407	1408																																														
1408																		1																				1	1								
1408	1402																																														
1409																		1																				1	1								
1409	1410																																														
1410																		1																				1	1								
1410	1402																																														
1411																		1																				1	1								
1411	1412																																														
1412																		1																				1	1								
1412	1404																																														
1413																		1																				1	1								
1413	1403																																														
1414																		1																				1	1								
1414	1413																																														
1417																		1																				1	1								
1417	1418																																												6.4		
1418																		1																				1	1								
1418	1410																																														
1421															4.5																																
1422															4.5																																
1422	1423						52							52																																	
1423																		1	3.3																		1											
1423	1421						164							164																															77.5		
1424																		1													1		1														
1424	1423																																													243	
1425																		1																				1	1								
1425	1426																																														
1426																		1																				1	1								
1426	1427	60							60																																				6.9		
1428																		1	0.9																			1	1								
1428	1415																																												7.9		
1501																		1																				1	1								
1501	1504																																														
1502																		1																				1	1								
1502	1501																																														
1503																		1																				1	1								
1503	1504																																														
1504																		1	5.0	1.3																		1	1								
1504	1505			80							80																																		7.7		
1505															2.0																																
1506															2.0																																
1506	1504			60							60																																		7.4		
1507																		1																				1	1								
SHEET TOTAL		60	44	140			216		60	44	140			216		13.0		22	9.2	1.3											1		1			1		20	20						113.8	243	

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