COMPUTED BY: DWT DATE: 4/4/18

CHECKED BY: DATE:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5725/R-3822	3D-6

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	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 12 .064	15 .064	18 .064	24 .064	30 .079	36 .079	42 .109	48 .109	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	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	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 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	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	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	18" PIPE END SECTION	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	18" DRAINAGE PIPE ELBOW	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
L1 53+18	22	LT	1307		139.0																																														1			1	1																														
			1307	1306		135.2	135.0																																		32																																														
L1 50+00	22	LT	1308		140.0																																														1			1			1																														
			1308	1307		136.2	135.2																																		320																																														
L1 46+50	22	LT	1309		141.2																																														1			1			1																														
			1309	1308		138.0	136.7																																	348																																															
			1310	1308		138.0	136.7				24							X	X																																																																						
L1 42+50			1314	1313		136.5	135.8																																	108																																															
L1 63+50	22	RT	1406		135.1																																														1			1		1																															
			1406	1405		131.8	128.6																																	224																																															
L1 62+43	22	LT	1408		136.5																																														1	3.8		1			1																														
			1408	1407		127.8	121.6	0.3																																					332																																															
L1 61+00	22	LT	1409		138.5																																														1			1			1																														
			1409	1416		135.2	134.8																																	44																																															
Y3 29+25	22	LT	1410		137.6																																														1	4.4		1			1																														
			1410	1408		128.1	127.8	0.3																																					88																																															
Y3 29+25	22	RT	1411		137.6																																														1	4.3		1		1																															
			1411	1410		128.4	128.1	0.3																																					44																																															
Y3 28+50	22	RT	1412		137.9																																														1	4.1		1		1																															
			1412	1411		128.8	128.4																																						76																																															
			1413	1411		129.0	128.4					40						X	X																																																																						
L1 65+58	58	LT	1414																																													4.500																																											
			1414	1407		122.0	121.1								40			X	X																																																																							
L1 67+56	22	LT	1415		129.6																																														1			1			1																														
			1415	1417		126.3	125.9																																	56																																															
L1 61+00	22	RT	1416		138.5																																														1			1		1																															
			1416	1406		134.8	131.8																																	248																																															
L1 67+00	22	LT	1417		130.3																																														1			1			1																														
			1417	1407		125.9	124.8																																	124																																															
Y3 27+00	22	RT	1418		138.5																																														1	4.0		1		1																															
			1418	1412		129.5	128.8																																						148																																															
L1 78+00	22	LT	1502		108.0																																														1	0.7		1			1																														
			1502	1501		102.2	99.3																																			168																																														
L1 76+13	22	LT	1503		108.6																																														1			1			1																														
			1503	1502		103.6	102.2																																			184																																														
L1 76+13	22	RT	1504		108.8																																														1			1			1																														
			1504	1503		104.5	104.1																																		40																																															
L1 75+83	22	RT	1505		108.7																																														1			1	1																															
			1505	1504		104.9	104.5																																		28																																															
L1 75+00	22	RT	1506		109.1																																														1			1		1																															
			1506	1505		105.4	104.9																																		84																																															
L1 73+50	22	RT	1507		112.3																																														1			1		1																															
			1507	1506		109.0	105.9																																	148																																															
			1508	1506		107.0	105.9				24							X	X																																																																						
L1 72+00	22	RT	1509		116.6																																														1			1		1																															
			1509	1507		113.4	109.0																																	148																																															
L1 69+50	22	RT	1511		123.9																																														1			1		1																															
			1511	1509		120.7	113.4																																	248																																															
L1 83+50	22	LT	1603		106.2																																														1			1			1																														
			1603	1602		103.0	101.7																																	196																																															
							SHEET TOTALS				48	40			40																										1892	504	352			688			4.500			22	21.3		22	2	9	11																														

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

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