LL23240

COMPUTED BY: F.MASTERSON DATE: 10/31/19

CHECKED BY: J.Moore DATE: 09/27/23

PROJECT NO.	SHEET NO.
U-5907	3D-2

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 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 %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	24	30	36	42	48		DO NOT USE PVC
L2 10+47	1	LT																
L3 12+73	22	RT																
Y3 15+98	31	RT																
Y3 17+31	42	RT																
-L1- 31+50	28	RT										304						
L2- 10+46	11	LT										64						
-L1- 32+33	15	LT										40						
-L1- 31+50	29	RT																
L2- 10+46	11	LT																
-L1- 32+33	15	LT																
SHEET TOTALS												408						
PROJECT TOTALS										24		408			128			

LINE & STATION	OFFSET		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	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48	
L2 10+47	1	LT																																	
L3 12+73	22	RT																																	
Y3 15+98	31	RT																																	
Y3 17+31	42	RT																																	
-L1- 31+50	28	RT																																	
L2- 10+46	11	LT																																	
-L1- 32+33	15	LT																																	
-L1- 31+50	29	RT																																	
L2- 10+46	11	LT																																	
-L1- 32+33	15	LT																																	
SHEET TOTALS																																			
PROJECT TOTALS																				672	48			12	36	328									

LINE & STATION	OFFSET		15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE		ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) 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
L2 10+47	1	LT													
L3 12+73	22	RT													
Y3 15+98	31	RT													
Y3 17+31	42	RT													
-L1- 31+50	28	RT													
L2- 10+46	11	LT													
-L1- 32+33	15	LT													
-L1- 31+50	29	RT													
L2- 10+46	11	LT													
-L1- 32+33	15	LT													
SHEET TOTALS															
PROJECT TOTALS							13.900		23	34.6		15	3	7	7

LINE & STATION	OFFSET		CONCRETE TRANSITIONAL SECTION: D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	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	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	CB STD 840D02 (SPECIAL DETAIL)	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
L2 10+47	1	LT																20	REMOVE EX 18" RCP
L3 12+73	22	RT																20	REMOVE EX 15" CMP
Y3 15+98	31	RT																198	REMOVE EX 12" CMP
Y3 17+31	42	RT													1				PLUG, FILL, AND ABANDON EX 12" CMP
-L1- 31+50	28	RT																	PIPE INSTALLATION SEQUENCE, EC-8A
L2- 10+46	11	LT																	PIPE INSTALLATION SEQUENCE, EC-8A
-L1- 32+33	15	LT																	PIPE INSTALLATION SEQUENCE, EC-8B
-L1- 31+50	29	RT																304	REMOVE TEMP PIPE, EC-8A
L2- 10+46	11	LT																64	REMOVE TEMP PIPE, EC-8B
-L1- 32+33	15	LT																40	REMOVE TEMP PIPE, EC-8B
SHEET TOTALS															1			646	
PROJECT TOTALS					1			1	1	2	2	2	2	2	1			701	

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