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COMPUTED BY: SRG DATE: 12/12/2023

CHECKED BY: JDL DATE: 12/12/2023

PROJECT NO.	SHEET NO.
U-5108	3D-3

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	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
		1130	1128		779.9	777.8	
Y6 14+74	2 RT	1131		772.7			
		1131	1127		766.1	766.0	
Y6 13+65	4 RT	1132		776.2			
		1132	1131		770.0	766.9	
Y6 09+88	51 LT	1133		786.2			
		1133	1128		780.2	777.9	
Y6 08+65	36 RT	1135		788.3			
		1135	1129		786.3	784.8	
L 27+34	18 LT						
L 29+04	25 LT						
L 37+83	49 LT						
L 38+11	17 RT						
L 39+17	3 LT						
L1 15+47	2 LT						
L1 15+56	22 RT						
L1 16+44	14 LT						
Y6 09+61	28 RT						
Y6 10+07	51 LT						
Y6 13+56	32 LT						
Y6 15+07	3 RT						
Y6 15+60	23 LT						
SHEET TOTALS							
PROJECT TOTALS							

Drainage Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) and C. S. PIPE (SIZE / THICKNESS OR GAUGE)

LINE & STATION	FROM	TO	DP 12	DP 15	DP 18	DP 24	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	CS 12 .064	CS 15 .064	CS 18 .064	CS 24 .064	CS 30 .079	CS 36 .079	CS 42 .109	CS 48 .109
	1130	1128																	
Y6 14+74	1131																		
	1131	1127																	
Y6 13+65	1132																		
	1132	1131																	
Y6 09+88	1133																		
	1133	1128																	
Y6 08+65	1135																		
	1135	1129																	
L 27+34																			
L 29+04																			
L 37+83																			
L 38+11																			
L 39+17																			
L1 15+47																			
L1 15+56																			
L1 16+44																			
Y6 09+61																			
Y6 10+07																			
Y6 13+56																			
Y6 15+07																			
Y6 15+60																			
SHEET TOTALS																			
PROJECT TOTALS				192		36							292	40					

R. C. PIPE CLASS III, CLASS IV, CLASS V

LINE & STATION	FROM	TO	III 12	III 15	III 18	III 24	III 30	III 36	III 42	III 48	IV 12	IV 15	IV 18	IV 24	IV 30	IV 36	IV 42	IV 48	V 12	V 15	V 18	V 24	V 30	V 36	V 42	V 48
	1130	1128												32												
Y6 14+74	1131																									
	1131	1127												32												
Y6 13+65	1132																									
	1132	1131										108														
Y6 09+88	1133																									
	1133	1128												140												
Y6 08+65	1135																									
	1135	1129												64												
L 27+34																										
L 29+04																										
L 37+83																										
L 38+11																										
L 39+17																										
L1 15+47																										
L1 15+56																										
L1 16+44																										
Y6 09+61																										
Y6 10+07																										
Y6 13+56																										
Y6 15+07																										
Y6 15+60																										
SHEET TOTALS												108		268												
PROJECT TOTALS												2060	108	872	120	76										

LINE & STATION	FROM	TO	15" SIDE DRAIN PIPE	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	
	1130	1128														
Y6 14+74	1131								1	1.6						
	1131	1127														
Y6 13+65	1132								1	1.2						
	1132	1131														
Y6 09+88	1133								1	1.0						
	1133	1128														
Y6 08+65	1135															
	1135	1129														
L 27+34																
L 29+04																
L 37+83																
L 38+11																
L 39+17																
L1 15+47																
L1 15+56																
L1 16+44																
Y6 09+61																
Y6 10+07																
Y6 13+56																
Y6 15+07																
Y6 15+60																
SHEET TOTALS									3	3.8						
PROJECT TOTALS						3.400			51	26.2		34	4	8	22	

LINE & STATION	FROM	TO	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 "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 WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	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	J.B. STD. 840.31 OR STD. 840.32	T.B.D.I. STD. 840.35	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING J.B. TO C.B.	15" C.S. ELBOW	18" C.S. ELBOW	FLOWABLE FILL CY	PIPE REMOVAL LIN. FT.	REMARKS
	1130	1128																									
Y6 14+74	1131																1		1								
	1131	1127																									
Y6 13+65	1132																1		1								
	1132	1131																									
Y6 09+88	1133																	1		1	1						
	1133	1128																									
Y6 08+65	1135																										
	1135	1129																									
L 27+34																									11		PLUG, FILL, AND ABANDON EX 15" RCP
L 29+04																									5		PLUG, FILL, AND ABANDON EX 15" RCP
L 37+83																										46	REMOVE EX 15" RCP
L 38+11																										48	REMOVE 48' OF EX 12" RCP
L 39+17																									3		PLUG, FILL, AND ABANDON EX 15" RCP
L1 15+47																										38	REMOVE EX CB AND 15" RCP
L1 15+56																										39	REMOVE EX DI AND 15" RCP
L1 16+44																										155	REMOVE EX CB AND 15" RCP
Y6 09+61																										148	REMOVE EX 18" RCP
Y6 10+07																										36	REMOVE EX 24" RCP
Y6 13+56																										43	REMOVE EX 15" RCP
Y6 15+07																									5		PLUG, FILL, AND ABANDON EX 18" RCP
Y6 15+60																										73	REMOVE EX 24" RCP
SHEET TOTALS																	2	1	2	1	1				24	626	
PROJECT TOTALS						2	2		3	1				3		1	9	2	9	2	2	3	8	2	24	626	

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