2MQ6010FQ2

COMPUTED BY: CGM DATE: 08/11/2026

CHECKED BY: JJM DATE: 08/11/2026

PROJECT NO.	SHEET NO.
U-3422B	3D-1

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	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
L 113+21	37	RT	1005		184.6			
			1005	1015		180.3	179.6	
L 111+55	37	LT	1010		184.7			
			1010	1013		181.7	181.3	
L 111+00	37	RT	1011		185.6			
			1011	1012		182.1	181.7	
L 112+40	37	RT	1012		184.9			
			1012	1023		181.7	181.5	
L 113+00	37	LT	1013		184.7			
			1013	1017		181.3	181.2	
L 115+90	37	LT	1014		184.6			
			1014	1101		181.6	181.4	
L 115+23	37	RT	1015		184.8			
			1015	1102		179.7	179.3	
L 113+21	37	LT	1017		184.6			
			1017	1020		181.0	180.8	
L 113+00	6	RT	1018		186.1			
			1018	1020		182.4	181.1	
L 113+21	6	RT	1020		186.0			
			1020	1005		180.8	180.7	
L 111+00	52	RT	1021		185.0			
			1021	1011		182.8	182.1	
L 112+95	50	RT	1022		184.4			
			1022	1023		182.2	181.5	
L 112+95	37	RT	1023		184.7			
			1023	1005		181.5	181.0	
L 115+23	51	RT	1024		184.6			
			1024	1015		182.4	181.7	
L 116+45	37	LT	1101		184.5			
			1101	1102		181.1	180.9	
L 116+55	37	RT	1102		184.5			
			1102	1103		179.3	178.4	
L 118+00	37	RT	1103		184.8			
			1103	1106		177.9	176.8	
L 118+45	37	LT	1104		185.0			
			1104	1101		182.0	181.4	
L 123+79	46	LT	1105		183.2			
			1105	1124		175.8	175.2	
L 121+50	48	RT	1106		184.6			
			1106	1114		176.8	176.1	
L 125+52	49	RT	1107		181.4			
			1107	1122		178.4	177.8	
L 127+30	61	LT	1108		176.7			
			1108	1229		171.1	170.1	
L 127+00	7	RT	1109		179.3			
			1109	1125		176.1	174.4	
Y3 38+92	7	LT	1110		180.3			
			1110	1113		173.7	173.6	
Y3 38+92	51	RT	1111		178.1			

Pipe quantities (Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 12, 15, 18, 24, 30, 36, 42, 48, DO NOT USE PP PIPE; C. S. PIPE 12 .064, 15 .064, 18 .064; R. C. PIPE CLASS III 12–48; R. C. PIPE CLASS IV 12–48):

FROM	TO	SD 12	SD 15	SD 18	SD 24	SD 30	SD 36	SD 42	SD 48	DO NOT USE PP PIPE	CS 12 .064	CS 15 .064	CS 18 .064	RC III 12	RC III 15	RC III 18	RC III 24	RC III 30	RC III 36	RC III 42	RC III 48	RC IV 12	RC IV 15	RC IV 18	RC IV 24	RC IV 30	RC IV 36	RC IV 42	RC IV 48
1005	1015																								200				
1010	1013																						144						
1011	1012																						140						
1012	1023																						52						
1013	1017																						20						
1014	1101																						52						
1015	1102																								132				
1017	1020																							40					
1018	1020																						20						
1020	1005																							28					
1021	1011																						16						
1022	1023																						12						
1023	1005																						24						
1024	1015																						16						
1101	1102																							72					
1102	1103																144												
1103	1106																	348											
1104	1101																						200						
1105	1124																	120											
1106	1114																	228											
1107	1122																						92						
1108	1229																			96									
1109	1125																						100						
1110	1113																	48											
SHEET TOTALS																	144	744		96			888	140	332				

Drainage structure quantities:

STRUCTURE	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	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	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/ GRATE STD. 840.20	G.D.I. (W.S. FLAT) FR. W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FR. W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FR. W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FR. 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	ANG. VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. FRAME AND COVER STD. 840.54	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 M.H.		FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONC. AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
1005							1	1																																								
1010				1			1			1																																						
1011				1			1		1																																							
1012				1			1		1																																							
1013				1			1			1																																						
1014				1			1			1																																						
1015				1	0.1		1		1																																							
1017				1			1	1																																								
1018				1								1				1	1																															
1020				1	0.2							1				1	1																															
1021				1												1	1																															
1022				1												1	1																															
1023				1			1	1																																								
1024				1												1	1																															
1101				1			1	1																																							148	Pipe Removal for all of Sheet 11
1102				1	0.2		1	1																																								
1103				1	1.9		1			1																																						
1104				1			1		1																																							
1105				1	2.4		1			1																																						
1106				1	2.8		1		1																																							
1107				1			1		1																																							
1108				1	0.6		1			1																																						
1109				1								1				1	1																															
1110				1	1.6							1																	1						1													
1111				1			1	1																																								

Sheet totals for drainage structure columns, from the SHEET TOTALS row:

SHEET TOTALS				24	9.8		18	6	6	6		4				6	6												1						1												148	

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