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TGSZJR-LAPTOP

COMPUTED BY:	Zachary Richard, PE	DATE:	3/23/2022
CHECKED BY:	David Petty, PE	DATE:	5/25/2022

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
A-0009CB	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 / 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) 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
L 402+14	71 RT																		
L 401+79	25 RT																		
L 406+64	32 RT																		
L 406+44	4 LT																		
L 409+25	40 LT																		
L 409+49	10 RT																		
L 409+72	50 RT																		
L 412+87	33 LT																		
L 413+16	20 RT																		
L 413+57	39 RT																		
L 282+98	65 LT																		
L 316+06	6 RT																		
L 293+02	22 RT																		
Y4 38+85	0 CL																		
Y4 38+94	2 RT																		
L 414+50	22 LT																		
SHEET TOTALS																			
PROJECT TOTALS								1644	1304	956	122	324	52	28					

LINE & STATION / SIZE / THICKNESS OR GAUGE	C. S. PIPE 15	18	24	30	36	42	48	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42
	.064	.064	.064	.064	.064	.064	.064													
L 402+14																				
L 401+79																				
L 406+64																				
L 406+44																				
L 409+25																				
L 409+49																				
L 409+72																				
L 412+87																				
L 413+16																				
L 413+57																				
L 282+98																				
L 316+06																				
L 293+02																				
Y4 38+85																				
Y4 38+94																				
L 414+50																				
SHEET TOTALS																				
PROJECT TOTALS	460	940	372	192	464	12	80	368	696	604	76	172	88	244	1756	1140	136	196	212	144

| LINE & STATION / SIZE / THICKNESS OR GAUGE | 36" CAA PIPE, 0.075" THICK | 48" CAA PIPE, 0.105" THICK | 36" WELDED STEEL PIPE 0.5" THICK, GRADE B, IN SOIL | 36" WELDED STEEL PIPE 0.5" THICK, GRADE B, NOT IN SOIL | 18" PIPE REHABILITATION CIPP LINER | 24" PIPE REHABILITATION CIPP LINER | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) 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. | 4-SIDED OTCB, SEE DETAIL SHEET 2D-1 | 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, 840.26, OR 840.45 | G.D.I. TYPE "B" STD. 840.18, 840.27, OR 840.45 | 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/ GRATE STD. 840.22 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | J.B. STD. 840.31 OR STD. 840.32 | T.B.J.B. STD. 840.34 | T.B.D.I. STD. 840.35 | 6" PVC PIPE (SPRING BOX) | SPRING BOX STD. 840.41 | 6" HDPE PIPE (LF) | M.H. FRAME AND COVER STD. 840.54 | TB PRECAST DRAINAGE STRUCTURE STD. 840.46 | PRECAST 4' DIA MH STD 840.52 | CONTRACTOR DESIGN 4' DIA MH OVER 30' | T.B. G.D.I TYPE "A" SEE SHEET 2D-3 | CONVERT EXISTING D.I. TO J.B. SEE SHEET 2D-2 | ADJUST D.I. | MIN DEPTH TYPE A SPECIAL DSN SEE SHEET 2D-7 | 15" C.S. ELBOW, 0.064" THICK | 18" C.S. ELBOW, 0.064" THICK | 24" C.S. ELBOW, 0.064" THICK | 30" C.S. ELBOW, 0.064" THICK | 36" C.S. ELBOW, 0.064" THICK | 42" C.S. ELBOW, 0.064" THICK | 48" C.S. ELBOW, 0.064" THICK | 48" C.A.A. ELBOW, 0.105" THICK | BERM DRAINAGE OUTLET STD. 850.10 (SY) | BERM DRAINAGE OUTLET STD. 850.11 (SY) | BERM DRAINAGE OUTLET 36" DSN,SHT 2D-4 (SY) | BERM DRAINAGE OUTLET 42" DSN,SHT 2D-5 (SY) | BERM DRAINAGE OUTLET 48" DSN,SHT 2D-6 (SY) | FLOWABLE FILL CY | CONCRETE COLLARS CL. "B" STD. 840.72 CY | PIPE REMOVAL LIN. FT. | REMARKS |
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