USORLL7FB0NN3

COMPUTED BY: NKS DATE: 2/15/2022

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PROJECT NO.	SHEET NO.
BR-0041	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 %	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	18" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	18" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL	REMARKS
		0519	0521		789.5	789.3										32	32	Trenchless Installation
Y 18+00	94 RT	0520		791.6														
		0520	0521		789.2	789.1				28								
Y 18+00	66 RT	0521		795.0														
		0521	0522		788.6	788.4					224							
Y 20+25	72 RT	0522		794.4														
		0522	0523		788.4	788.3					32							
Y 18+50	91 LT	0524		790.9														Open End
		0524	0525		789.4	788.1				24								
Y 18+50	66 LT	0525		789.5														
		0525	0526		788.1	786.1				224								
Y 20+78	72 LT	0526		789.5														
		0526	0527		786.1	785.7	0.3			24								
Y 21+15	72 LT	0527		788.9														
		0527	0528		785.2	785.0	0.3			28								
Y 26+09	69 RT	0604		777.4														4GI
		0604	0605		773.2	771.5	2.6									34	34	Trenchless Installation
Y 25+77	67 LT	0601		775.2														4GI
		0601	0602		769.7	760.9	2.1			268								
Y 28+49	69 LT	0602		765.4														
		0602	0603		760.9	749.3	2.6			228								
L 29+26	35 RT	0529		812.5														
		0529	0409		809.5	806.1			256									
L 29+39	35 LT	0530		812.6														
		0530	0410		809.6	808.5			132									
Y 16+00	0 CL	0531		792.1														
		0531	0519		790.2	789.8			196									
Y 18+50	0 CL	0532		792.1														
		0532	0519		790.1	790.0			48									
Y 26+10	1 RT	0605		775.2														
L 36+09	41 RT																	
L 23+06	36 LT																	
L 25+12	37 RT																	
L 27+59	30 RT																	
L 28+26	34 RT																	
L 28+56	49 RT																	
L 26+79	43 LT																	
L 26+96	4 LT																	
Y 23+05	69 LT																	
Y 19+68	33 LT																	
Y 18+91	35 RT																	
Y 25+88	33 LT																	
Y 25+89	35 RT																	
SHEET TOTALS									632	824	256					66	66	
PROJECT TOTALS									1924	1076	256					66	66	

LINE & STATION	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 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/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29
Y 18+00 (94 RT)	0520				1															1				1				
Y 18+00 (66 RT)	0521				1	1.4																						
Y 20+25 (72 RT)	0522				1	1.0														1		1						
Y 18+50 (66 LT)	0525				1																							
Y 20+78 (72 LT)	0526				1														1			1						
Y 21+15 (72 LT)	0527				1														1			1						
Y 26+09 (69 RT)	0604				1													1						2				
Y 25+77 (67 LT)	0601				1	0.5												1						2				
Y 28+49 (69 LT)	0602				1														1			1						
L 29+26 (35 RT)	0529				1			1			1																	
L 29+39 (35 LT)	0530				1			1		1																		
Y 16+00 (0 CL)	0531				1															1				1				
Y 18+50 (0 CL)	0532				1															1				1				
Y 26+10 (1 RT)	0605				1	2.0													1					1				
SHEET TOTALS					14	4.9		2		1	1							2	4	4		4		8				
PROJECT TOTALS					38	4.9		21		10	11	2				2	2	2	5	5		4		9				1

LINE & STATION	STRUCTURE	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	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	SPRING BOX STD. 840.41	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	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 D.I.	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.
Y 18+00 (66 RT)	0521					1							1									
Y 18+50 (66 LT)	0525					1							1									
L 36+09 (41 RT)																						48
L 23+06 (36 LT)																						60
L 25+12 (37 RT)																						72
L 27+59 (30 RT)																						40
L 28+26 (34 RT)																						44
L 28+56 (49 RT)																						6
L 26+79 (43 LT)																				1		
L 26+96 (4 LT)																				4		
Y 23+05 (69 LT)																						534
Y 19+68 (33 LT)																				7		
Y 18+91 (35 RT)																				3		
Y 25+88 (33 LT)																				3		
Y 25+89 (35 RT)																				3		
SHEET TOTALS						2							2							21		804
PROJECT TOTALS				1		2							3							21		804

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