US004070AA

COMPUTED BY:	MLH	DATE:	09-13-21 Rev 4-20-22
CHECKED BY:	KBA WHT	DATE:	3-15-22 Rev 4-28-22

PROJECT NO.	SHEET NO.
I-5987B	3D-28

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 54 INCHES & OVER)

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 %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 12	54	60	66	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	R. C. PIPE CLASS III 54	60	66	72		R. C. PIPE CLASS IV 54	60	66	72		R. C. PIPE CLASS V 54	60	66	72	
		1603	1605		158.9	158.6																									
L 654+94		1605		168.3																											
		1605	1606		158.6	158.2																									
L 746+25		2350	2450		161.6	161.2																									
L 759+52		2531	2532		160.5	160.4																									
L 759+58		2535	2536		160.5	160.4																									
Y6 24+11	78 RT	4403															40														
Y6 36+70		4505	4506		161.0	160.6											156														
SHEET TOTALS																	196														
PROJECT TOTALS																	1420	424				16			164						

LINE & STATION	STRUCTURE NUMBER	54" WELDED STEEL PIPE 0.75" THICK, GRADE B IN SOIL	60" WELDED STEEL PIPE 0.875" THICK, GRADE B IN SOIL	66" WELDED STEEL PIPE 0.875" THICK, GRADE B IN SOIL	54" WELDED STEEL PIPE 0.75" THICK, GRADE B NOT IN SOIL	60" WELDED STEEL PIPE 0.875" THICK, GRADE B NOT IN SOIL	66" WELDED STEEL PIPE 0.875" THICK, GRADE BNOT	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 TBDI - SEE DETAIL, SHEET 2B-21	C.B. STD. 852.05
	1603-1605			52			52		6.600											
L 654+94	1605									4.238										
	1605-1606			104			104		6.600											
L 746+25	2350-2450		124			124			11.800											
L 759+52	2531-2532	114			114				14.600											
L 759+58	2535-2536	114			114															
Y6 24+11	4403								5.000											
Y6 36+70	4505-4506								10.000											
SHEET TOTALS		228	124	156	228	124	156		54.600	4.238										
PROJECT TOTALS		1156	200	156	1156	200	156		145.900	118.635										

LINE & STATION	STRUCTURE NUMBER	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	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 PIPE	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	
L 654+94	1605																						1	1							
SHEET TOTALS																							1	1							
PROJECT TOTALS						5						5							2		2		16	16						4	

LINE & STATION	STRUCTURE NUMBER		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
	1603-1605		77				Flowable Fill: 2@ 42" RCP
L 654+94	1605						Special Detail Traffic Bearing Grated Inlet, See Sheet 2D-6
L 746+25	2350-2450		59				Flowable Fill: 2@ 36" RCP
L 759+52	2531-2532		25				Flowable Fill: 24" RCP
SHEET TOTALS			161				
PROJECT TOTALS			346			505	

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