USRALLGCGVNH2

COMPUTED BY:	MMK	DATE:	02/22/2022
CHECKED BY:	MDB	DATE:	02/01/2023

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5748	3D-4

**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 %	C. S. PIPE 15 .064	C. S. PIPE 18 .064	C. S. PIPE 24 .064	C. S. PIPE 30 .079	C. S. PIPE 36 .079	C. S. PIPE 48 .109	R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24	R. C. PIPE CLASS IV 30	R. C. PIPE CLASS IV 36	R. C. PIPE CLASS IV 48	R. C. PIPE CLASS V 15	R. C. PIPE CLASS V 18	R. C. PIPE CLASS V 24	R. C. PIPE CLASS V 30	R. C. PIPE CLASS V 36	R. C. PIPE CLASS V 48	30" x 19" RCP-V Elliptical	48" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	48" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY
L 38+00	73	LT	0543		206.3																											
			0543	0544		203.3	200.4														148											
L 36+50	73	LT	0544		203.4																											
			0544	0545		200.4	199.2														112											
L 35+38	73	LT	0545		202.2																											
			0545	0546		199.0	198.7															56										
L 34+81	73	LT	0546		202.1																											
			0546	0547		198.7	198.7															8										
L 34+73	73	LT	0547		202.1																											
			0547	0571		197.9	197.7																36									
L 32+60	73	LT	0548		202.9																											
			0548	0565		199.9	199.3														108											
L 42+59	98	LT	0550		220.0																											
			0550	0551		218.0	217.6	0.9														28										
L 42+50	73	LT	0551		221.3																											
			0551	0553		217.1	216.6																88									
L 44+00	5	LT	0552		226.9																											
			0552	0553		223.7	217.4														168											
L 42+30	14	RT	0553		220.6																											
			0553	0554		216.6	216.6	0.4															12									
L 42+20	20	RT	0554		221.3																											
			0554	0556		216.6	216.3	0.4															52									
L 44+00	79	RT	0555		226.4																											
			0555	0556		223.4	217.7														180											
L 42+20	73	RT	0556		220.7																											
			0556	0557		213.4	204.5	2.3			52																					
L 36+25	102	LT	0558		198.6																											
			0558	0559		195.6	194.7														88											
Y4 15+50	23	LT	0560		203.6																											
			0560	0561		200.8	193.0		52																							
L 41+00	14	RT	0562		216.1																											
			0562	0534		212.9	208.7														120											
L 33+67	73	LT	0565		202.5																											
			0565	0549		197.4	188.0	1.3			52																					
L 34+00	0	CL	0566		202.8																											
			0566	0540		199.3	199.0														68											
Y1 12+74	9	RT	0567		210.7																											
Y1 12+75	54	LT	0568		204.9																											
			0568	0569		203.6	203.6														4											
Y1 12+75	59	LT	0569		207.7																											
			0569	0511		202.8	199.8	0.4															72									
L 34+37	89	LT	0570		200.6																											
			0570	0571		199.1	199.0														16											
L 34+37	73	LT	0571		202.2																											
			0571	0565		197.7	197.4																68									
SLIP 12+00	21	RT	0575		205.7																											
			0575	0529		202.7	200.8														84											
Y2 32+70	56	LT	0601		248.1																											
			0601	0603		245.9	245.8															24										
L 51+00	85	LT	0602		251.2																											
								SHEET TOTALS	52		104										1096	116	328									

LINE & STATION	FROM	TO	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	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
L 38+00	0543		1			1		1																	
	0543	0544																							
L 36+50	0544		1			1		1																	
	0544	0545																							
L 35+38	0545		1			1		1																	
	0545	0546																							
L 34+81	0546		1			1		1																	
	0546	0547																							
L 34+73	0547		1			1	1																		
	0547	0571																							
L 32+60	0548		1			1			1																
	0548	0565																							
L 42+59	0550																								
	0550	0551																							
L 42+50	0551		1			1		1																	
	0551	0553																							
L 44+00	0552		1							1			1	1											
	0552	0553																							
L 42+30	0553		1							1			1	1											
	0553	0554																							
L 42+20	0554		1							1			1	1											
	0554	0556																							
L 44+00	0555		1			1			1																
	0555	0556																							
L 42+20	0556		1	2.3		1			1																
	0556	0557																							
L 36+25	0558		1													1					1				
	0558	0559																							
Y4 15+50	0560		1													1									1
	0560	0561																							
L 41+00	0562		1							1			1	1											
	0562	0534																							
L 33+67	0565		1	0.1		1			1																
	0565	0549																							
L 34+00	0566		1			1	1																		
	0566	0540																							
Y1 12+74	0567																								
Y1 12+75	0568																								
	0568	0569																							
Y1 12+75	0569		1			1		1																	
	0569	0511																							
L 34+37	0570																								
	0570	0571																							
L 34+37	0571		1			1			1																
	0571	0565																							
SLIP 12+00	0575		1			1			1																
	0575	0529																							
Y2 32+70	0601		1														1				1				
	0601	0603																							
L 51+00	0602		1			1		1																	
SHEET TOTALS			22	2.4		15	2	7	6	4			4	4		2	1				2				1

LINE & STATION	FROM	TO	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	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	G.D.I EXTRA DEPTH TYPE "A" , SHT. 2C-2	G.D.I MIN. DEPTH TYPE "A" STD.840D17 , SHT. 2C-14	O.T.C.B. DETAIL 840D04, SHT. 2C-15	CONVERT EXISTING C.B. TO J.B. SHT. 2C-18	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B. SHT. 2C-18	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	15" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	PREFORMED SCOUR HOLE (PER EACH)	ENERGY DISSIPATION BASIN	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
L 38+00	0543																															
	0543	0544																														
L 36+50	0544																															
	0544	0545																														
L 35+38	0545																															
	0545	0546																														
L 34+81	0546																															
	0546	0547																														
L 34+73	0547																															
	0547	0571																														
L 32+60	0548																															
	0548	0565																														
L 42+59	0550																															
	0550	0551																														
L 42+50	0551																															
	0551	0553																														
L 44+00	0552																															
	0552	0553																														
L 42+30	0553																															
	0553	0554																														
L 42+20	0554																															
	0554	0556																														
L 44+00	0555																															
	0555	0556																														
L 42+20	0556																															
	0556	0557																						2								
L 36+25	0558																															
	0558	0559																														
Y4 15+50	0560																															
	0560	0561																				2										
L 41+00	0562																															
	0562	0534																														
L 33+67	0565																															
	0565	0549																				2										
L 34+00	0566																															See Detail for CB in 2'-9" C & G, Sheet 2C-12
	0566	0540																														
Y1 12+74	0567																1															
Y1 12+75	0568																											0.3990				
	0568	0569																														
Y1 12+75	0569																															
	0569	0511																														
L 34+37	0570																															
	0570	0571																														
L 34+37	0571																															
	0571	0565																														
SLIP 12+00	0575																															
	0575	0529																														
Y2 32+70	0601																															
	0601	0603																														
L 51+00	0602																															
SHEET TOTALS																	1					4	2					0.3990			

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