Z1485

COMPUTED BY:	VHB	DATE:	3/20/2023
CHECKED BY:	VHB	DATE:	3/20/2023

PROJECT NO.	SHEET NO.
U-6229	3D-3

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 %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 12	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	DO NOT USE PP PIPE
L 71+62	14	RT	0806		224.0																	
			0806	0803		220.4	220.3															
L 72+00	2	LT	0807		224.0																	
			0807	0805		220.8	220.7															
L 73+00	14	RT	0808		224.5																	
			0808	0806		220.8	220.4															
L 74+00	2	RT	0809		223.9																	
			0809	0808		221.1	220.8															
L 82+70	2	RT	0810		223.1																	
			0810	0811		220.4	220.1															
L 83+50	2	RT	0811		223.5																	
			0811	0901		220.1	219.8															
L 84+37	8	LT	0901		223.1																	
			0901	0902		219.8	219.0															
L 86+00	8	LT	0902		222.3																	
			0902	0903		219.0	218.2															
L 87+75	8	LT	0903		221.4																	
			0903	0904		218.2	217.0															
L 89+30	0	CL	0904		220.2																	
			0904	0905		217.0	212.9															
L 93+08	0	CL	0905		216.1																	
			0905	0906		212.9	210.3	0.4														
L 94+48	11	LT	0906		213.6																	
			0906	0910		210.3	207.1	0.4														
L 95+66	1	LT	0907		210.0																	
			0907	0908		206.8	204.1	0.4														
L 96+42	8	LT	0908		207.4																	
			0908	0909		204.1	201.5	0.5														
L 97+55	8	LT	0909		204.7																	
			0909	1001		201.5	199.9	0.5														
L 95+66	14	LT	0910		210.3																	
			0910	0907		207.1	206.8	0.4														
L 99+25	8	LT	1001		203.1																	
L 46+22	4	LT	0000																			
L 27+65	48	LT	0409		233.2																	
L 61+17	13	LT	0000																			
L 27+63	19	LT	0000																			
L 69+31	3	LT	0000																			
L 71+89	1	RT	0000																			
L 71+09	26	RT	0000																			
L 64+68	5	RT	0000																			
L 63+87	10	RT	0000																			
L 63+27	13	RT	0000																			
L 65+54	1	LT	0000																			
L 60+38	16	LT	0000																			
L 59+99	8	LT	0000																			
L 27+63	4	RT	0000																			
L 28+08	4	RT	0000																			
L 27+45	2	LT	0000																			
L 32+57	12	RT	0000																			
SHEET TOTALS																						

LINE & STATION	FROM	TO	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48
L 71+62	0806																	
	0806	0803										108						
L 72+00	0807																	
	0807	0805										36						
L 73+00	0808																	
	0808	0806										136						
L 74+00	0809																	
	0809	0808										100						
L 82+70	0810																	
	0810	0811										76						
L 83+50	0811																	
	0811	0901										84						
L 84+37	0901																	
	0901	0902										160						
L 86+00	0902																	
	0902	0903										172						
L 87+75	0903																	
	0903	0904										152						
L 89+30	0904																	
	0904	0905										376						
L 93+08	0905																	
	0905	0906										140						
L 94+48	0906																	
	0906	0910										116						
L 95+66	0907																	
	0907	0908										76						
L 96+42	0908																	
	0908	0909										112						
L 97+55	0909																	
	0909	1001										168						
L 95+66	0910																	
	0910	0907		12														
L 99+25	1001																	
L 46+22	0000																	
L 27+65	0409																	
L 61+17	0000																	
L 27+63	0000																	
L 69+31	0000																	
L 71+89	0000																	
L 71+09	0000																	
L 64+68	0000																	
L 63+87	0000																	
L 63+27	0000																	
L 65+54	0000																	
L 60+38	0000																	
L 59+99	0000																	
L 27+63	0000																	
L 28+08	0000																	
L 27+45	0000																	
L 32+57	0000																	
SHEET TOTALS				12								2012						

QUANTITIES FOR DRAINAGE STRUCTURES — NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)

LINE & STATION	FROM	TO	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	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 2.G.I. STD. 852D06	C.B. STD. 852.05
L 71+62	0806					1									
	0806	0803													
L 72+00	0807					1									
	0807	0805													
L 73+00	0808					1									
	0808	0806													
L 74+00	0809					1									
	0809	0808													
L 82+70	0810					1									
	0810	0811													
L 83+50	0811					1									
	0811	0901													
L 84+37	0901					1									
	0901	0902													
L 86+00	0902					1									
	0902	0903													
L 87+75	0903					1									
	0903	0904													
L 89+30	0904					1								1	
	0904	0905													
L 93+08	0905					1									
	0905	0906													
L 94+48	0906					1									
	0906	0910													
L 95+66	0907					1									
	0907	0908													
L 96+42	0908					1									
	0908	0909													
L 97+55	0909					1									
	0909	1001													
L 95+66	0910					1									
	0910	0907													
L 99+25	1001					1	2.4								
L 46+22	0000														
L 27+65	0409					1									
L 61+17	0000														
L 27+63	0000														
L 69+31	0000														
L 71+89	0000														
L 71+09	0000														
L 64+68	0000														
L 63+87	0000														
L 63+27	0000														
L 65+54	0000														
L 60+38	0000														
L 59+99	0000														
L 27+63	0000														
L 28+08	0000														
L 27+45	0000														
L 32+57	0000														
SHEET TOTALS						18	2.4							1	

LINE & STATION	FROM	TO	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
L 71+62	0806														1		
	0806	0803															
L 72+00	0807																1
	0807	0805															
L 73+00	0808																1
	0808	0806															
L 74+00	0809							1							1		
	0809	0808															
L 82+70	0810							1							1		
	0810	0811															
L 83+50	0811																1
	0811	0901															
L 84+37	0901																1
	0901	0902															
L 86+00	0902																1
	0902	0903															
L 87+75	0903																1
	0903	0904															
L 89+30	0904																1
	0904	0905															
L 93+08	0905																1
	0905	0906															
L 94+48	0906																1
	0906	0910															
L 95+66	0907																1
	0907	0908															
L 96+42	0908																1
	0908	0909															
L 97+55	0909																1
	0909	1001															
L 95+66	0910																1
	0910	0907															
L 99+25	1001																1
L 46+22	0000																
L 27+65	0409																
L 61+17	0000																
L 27+63	0000																
L 69+31	0000																
L 71+89	0000																
L 71+09	0000																
L 64+68	0000																
L 63+87	0000																
L 63+27	0000																
L 65+54	0000																
L 60+38	0000																
L 59+99	0000																
L 27+63	0000																
L 28+08	0000																
L 27+45	0000																
L 32+57	0000																
SHEET TOTALS								2							3		14

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	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	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	MODIFIED CONC. FLUME	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 71+62	0806							1																	
	0806	0803																							
L 72+00	0807							1																	
	0807	0805																							
L 73+00	0808							1																	
	0808	0806																							
L 74+00	0809																								
	0809	0808																							
L 82+70	0810																								
	0810	0811																							
L 83+50	0811							1																	
	0811	0901																							
L 84+37	0901							1																	
	0901	0902																							
L 86+00	0902							1																	
	0902	0903																							
L 87+75	0903							1																	
	0903	0904																							
L 89+30	0904							1																	See Special Detail 852D06
	0904	0905																							
L 93+08	0905							1																	
	0905	0906																							
L 94+48	0906							1																	
	0906	0910																							
L 95+66	0907							1																	
	0907	0908																							
L 96+42	0908							1																	
	0908	0909																							
L 97+55	0909							1																	
	0909	1001																							
L 95+66	0910							1																	
	0910	0907																							
L 99+25	1001							1																	
L 46+22	0000																							14	
L 27+65	0409						1							1											
L 61+17	0000																				10				
L 27+63	0000																							55	
L 69+31	0000																							151	
L 71+89	0000																							107	
L 71+09	0000																							46	
L 64+68	0000																							78	
L 63+87	0000																							72	
L 63+27	0000																							42	
L 65+54	0000																							34	
L 60+38	0000																							7	
L 59+99	0000																							72	
L 27+63	0000																							30	
L 28+08	0000																							38	
L 27+45	0000																							6	
L 32+57	0000																							4	
SHEET TOTALS							1	15						1							10			756	

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