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CHECKED BY: REL DATE: 03-26-24

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5809	3D-1

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	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	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	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY
L 12+11	24	LT	0401		897.7																													
			0401	0402		894.5	893.6												88															
L 12+98	27	LT	0402		897.1																													
			0402	0403		893.6	891.9												64															
L 13+64	24	LT	0403		897.1																													
			0403	0404		891.9	889.5												28															
L 13+64	4	RT	0404		897.3																													
			0404	0408		889.5	889.2	1.0											28															
L 10+55	20	RT	0405		898.1																													
			0405	0406		895.1	894.2												88															
L 11+46	22	RT	0406		898.1																													
			0406	0407		894.2	892.7												148															
L 12+96	33	RT	0407		897.0																													
			0407	0408		892.7	889.2												68															
L 13+64	34	RT	0408		896.5																													
			0408	0413		889.0	888.1	0.5												88														
L 14+57	63	LT	0409		896.0																													
			0409	0472		891.1	891.0	0.4											4															
L 14+79	15	LT	0410		897.0																													
			0410	0411		890.6	890.1	0.5											56															
L 14+24	3	LT	0411		897.1																													
			0411	0404		890.1	889.5	0.6											60															
L 14+86	14	RT	0412		896.5																													
			0412	0410		893.3	890.6												28															
L 14+53	47	RT	0413		895.7																													
			0413	0415		888.1	887.4	0.5												76														
RPD 10+93	27	RT	0415		893.8																													
			0415	0414		885.2	876.9	0.6							96																			
L 15+47	67	RT	0416		894.4																													
			0416	0415		885.6	885.2	0.5																44										
L 15+94	54	RT	0417		894.5																													
			0417	0416		886.0	885.6	0.5																48										
L 16+44	32	RT	0418		894.6																													
			0418	0417		886.5	886.0	0.5																52										
RPC 11+95	53	RT	0419		896.9																													
			0419	0409		893.4	891.1			124																								
RPC 11+95	26	LT	0420		897.4																													
			0420	0419		894.2	893.4												80															
L 16+86	38	LT	0421		894.0																													
			0421	0423		890.8	890.5												32															
L 16+24	13	LT	0422		896.2																													
			0422	0423		893.0	890.5												60															
L 16+86	7	LT	0423		896.0																													
			0423	0424		890.5	889.8												56															
L 17+45	7	LT	0424		895.7																													
			0424	0430		889.8	889.2	0.3											32															
L 17+90	7	LT	0425		895.6																													
			0425	0424		890.4	889.8												44															
L 18+35	7	LT	0426		895.5																													
			0426	0425		890.8	890.4												40															
SHEET TOTALS										124					96				1004	164				144										

LINE & STATION	STRUCTURE NUMBER	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
L 12+11	0401	1			1			1																		
L 12+98	0402	1			1			1																		
L 13+64	0403	1	0.2		1			1																		
L 13+64	0404	1	2.8							1				1	1											
L 10+55	0405	1			1			1																		
L 11+46	0406	1			1		1																			
L 12+96	0407	1			1		1																			
L 13+64	0408	1	2.5		1		1																			
L 14+57	0409	1												1	1											
L 14+79	0410	1	1.4							1				1	1											
L 14+24	0411	1	2.0							1				1	1											
L 14+86	0412	1								1				1	1											
L 14+53	0413	1	2.6		1		1																			
RPD 10+93	0415	1	3.6		1		1																			
L 15+47	0416	1	3.8		1	1																				
L 15+94	0417	1	3.5		1			1																		
L 16+44	0418	1	3.1		1			1																		
RPC 11+95	0419	1												1	1											
RPC 11+95	0420	1												1	1											
L 16+86	0421	1												1	1											
L 16+24	0422	1								1				1	1											
L 16+86	0423	1	0.5							1				1	1											
L 17+45	0424	1	0.9							1				1	1											
L 17+90	0425	1	0.2							1				1	1											
L 18+35	0426	1								1																2
SHEET TOTALS		25	27.1		12	1	5	6		9				12	12											2

LINE & STATION	STRUCTURE NUMBER	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	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	FLUME UNDER S.W., SEE DETAIL SHEET 2D-1	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.	TB2GI-A (36"), SEE DETAIL SHEET 2D-4	TB2GI-A (30"), SEE DETAIL SHEET 2D-5	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	CONFLICT BOX, SEE DETAIL SHEET 2D-2	TB4GI, SEE DETAIL 2D-3		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 12+11	0401																																	
L 12+98	0402																																	
L 13+64	0403																																	
L 13+64	0404																																	
L 10+55	0405																																	
L 11+46	0406																																	
L 12+96	0407																																	
L 13+64	0408																																	
L 14+57	0409																																	
L 14+79	0410																																	
L 14+24	0411																																	
L 14+86	0412																																	
L 14+53	0413																																	
RPD 10+93	0415																																	
L 15+47	0416																																	
L 15+94	0417																																	
L 16+44	0418																																	
RPC 11+95	0419																																	
RPC 11+95	0420																																	
L 16+86	0421																																	
L 16+24	0422																																	
L 16+86	0423																																	
L 17+45	0424																																	
L 17+90	0425																																	
L 18+35	0426																												1						TB4GI, SEE DETAIL 2D-3
SHEET TOTALS																												1						

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