COMPUTED BY:
 MJB
 DATE:
 1/16/2023

 CHECKED BY:
 ASB
 DATE:
 11/7/2023

## NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO. R-2577A 3D-13

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,	ENDWA	ALLS,	ETC	C. (FO	$\mathbb{R}$	PIPES	4899	&	UNDER	)

1		1	<del>                                     </del>		т т												<u> </u>	Т.Т.Т.											<u> </u>	1	1	
LINE & STATION		STRUCTURE NO. ON TION		D SLOPE	D SLOPE	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, PP or PVC)		C.S. PI	C.S. PIPE		R.C. PIPE CLASS III		R.C. PIPE CLASS IV		IPE AS NOTED	STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE)	QUANTITIES FOR DRAINAG	*TOTAL L.F. FOR PAY  QUANTITY SHALL BE COL.  'A' + (1.3 X COL.'B')		FRAME, GRATES, AND HOOD TANDARD 840.03	CONCRETE TRANSITIONAL SECTION			).20 0.24	840.29							ABBREVIATIONS  C.B. CATCH BASIN N.D.I. NARROW DROP INLET D.I. DROP INLET G.D.I. GRATED DROP INLET G.D.I.(N.S.) (NARROW SLOT)
SIZE	FFSET		ELEVAT	ELEVA	REQUIR	15"   18"   24"   30"		15" 18" 24" 30"	36" 42" 48	5" 15" 18" 24" ;	30" 36" 42"	48" 15"	18" 24" 30" 36"	24"  24"	30" 30" 48" 4		1	FT.	4					3TD. 840 40.22 3TD. 840	S. STD. 8					0.71		J.B. JUNCTION BOX M.H. MANHOLE
	0		TOPE	INVERT	MINIMUM %	T USE RCP	T USE CAP T USE CAAP HDPE, PP, OR PVC							(IN SOIL)	(IN SOIL) VOT IN SOIL)	IOT IN SOIL)	5.0')	A B	STD. 840.02	TYPE OF GRATE		TD. 840.15 ATE STD. 840.16	840.17 OK 840.26 840.18 OR 840.27 840.19 OR 840.28	WO FLAT GRATES S WO GRATES STD. 8/	1 TWO FLAT GRATES ET LIN. FT. STD. 840	340.32	-RAME STD. 840.37 WER STD. 840.54	JTLET R 840.05	) O. & SIZE	: PLUG, C.Y. STD. 840	H.	T.B.D.I. TRAFFIC BEARING DROP INLET T.B.J.B. TRAFFIC BEARING JUNCTION BOX
THICKNESS OR GAUGE		FROM				DO NO	DO NO DO NOT USE I	.064 .064 .064	079.					Trenchless W.S. (N	Trenchless W.S. (N	Trenchless W.S. (N	PER EACH (0' THRU	5.0' THRU 10.0' 10.0' AND ABOVE	C.B. STD. 840.01 OR 9	: F G	DROP INLET CATCH BASIN	D.I. STD. 840.14 OR S D.I. FRAME AND GRA	G.D.I. TYPE "B" STD. G.D.I. TYPE "D" STD.	G.D.I. FRAME WITH T G.D.I. FRAME WITH T G.D.I. (N.S.) FRAME V	G.D.I. (N.S.) FR. WITH DRIVEWAY DROP INL SPRING ROX STD 84	J.B. STD. 840.31 OR 8 TBJB STD. 840.34 T.B.D.I. STD. 840.35	STEEL GRATE AND FR M.H. FRAME AND COVI ADJUST MH	ADJUST CB BERM DRAINAGE OUTLET OTCB STD. 840.04 OR 840.0	FLOWABLE FILL (CY	CONC. & BRICK PIPE	PIPE REMOVAL LIN. I	REMARKS
SHEET 12																																
- L- 99+71.29 - L- 99+00.00	96 R1 -41 L1	T 1201 12 T 1203	889.8	880.0 864.0				80									1		1	1								1	2 @ 15		+	
- L- 99+00.00		T 1203 12	35	885.8 878.7	0.7%							144	4																			
- Y9- 15+30.00 - Y9- 15+30.00	-25 L1	T 1235 T 1235 12	882.7 11	878.7 878.1	0.7%							92	2				1		1	1									22			
- L- 101+02.41	-98 L1	T 1207 12	08	870.0 868.6	0.5%								20			3.4															102	
- L- 101+25.00 - L- 101+25.00	-41 L7	T 1211 12 T 1211	882.2	870.3 866.4	1.1%							48	8				1 1	5.0 1.9	1	1												
- L- 101+25.00	-41 LT	T 1211 12	08	870.3 866.4	1.1%							48	8					0.0 1.0		'												
- L- 104+65.00 - L- 104+65.00	-51 LT	T 1216 T 1216 12	880.6	976 6 976 3	0.4%							69	ρ				1		1	1												
- L- 104+00.00	-41 LT	T 1215	880.6	876.6 876.3	0.4%							00	0				1		1	1												
- L- 104+00.00	-41 L1	T 1215 12 T 1214	880.4	876.3 876.0	0.4%							80	0				1															
- L- 103+22.79 - L- 103+22.79	-41 L1	T 1214 12	+	876.0 875.8	0.5%							48	8				+ ' +		<del>                                     </del>													
- L- 102+76.50	-41 L1		880.5														1		1	1												
- L- 102+76.50 - L- 102+00.00	-41 L1	T 1213 12 T 1212	881.0	875.8 875.5	0.5%							80	0				1	0.5	1	1												
- L- 102+00.00	-41 L7	T 1212 12	11	875.5 875.2	0.5%							76	6																			
- L- 99+63.00 - L- 99+63.00	41 R		887.2	883.2 875.0	0.5%		+					16/	4				1		1	1											24	
- L- 101+25.00	41 R	T 1220	882.4	000.2	0.070							104					1	2.4	1	1									52		27	
- L- 101+25.00	41 R		880.4	875.0 861.5	2.4%			48									1		1 1										2 @ 15	5		
- L- 103+22.79 - L- 103+22.79	41 R			876.4 876.0	0.4%							76	6						<del>                                     </del>													
- L- 102+50.00	41 R		880.6														1		1	1												
- L- 102+50.00 - L- 105+35.00	41 R1		880.5	876.0 875.0	0.4%					+ + +		128	8		+ + +		+ +		1	1		$\square$								+	+ +	
- L- 105+35.00	-68 LT	T 1217 12	18	875.6 875.4	0.5%							68	8																			
- L- 106+00.00 - L- 106+00.00	-82 L1	T 1218 T 1218 12	880.5	875 / 07/ 0	0.60/							E					1	0.2	1	1												
- L- 106+00.00 - L- 106+00.00	-82 L1			875.4874.0886.0873.7	1.8%			64				52																	2 @ 15	5		
- L- 110+00.00	-41 L1		890.0	006.0	0.50/							148					1		1	1												
- L- 110+00.00 - L- 108+50.00	-41 L1		884.9	886.0 880.9	0.5%	<del>                                     </del>						148	0		+ + +		1	0.3	1	1			++-						+		+ +	
- L- 108+50.00	-41 L1	T 1233 12	34	879.6 871.3	2.2%			56											$\downarrow \downarrow$										2 @ 15	5		
- L- 110+00.00 - L- 110+00.00	42 R		890.1	885.3   880.1	0.6%								152				1		1	1												
- L- 110+50.00	42 R		884.9										102				1		1	1												
- L- 108+50.00	41 R		880.6	880.1 875.3	2.4%			44																					2 @ 24	1		
- L- 104+00.00 - L- 104+00.00	41 R	T 1223 12		876.6 876.2	0.4%					+ + + +		92	2		+ + + +				+	1 1											+ +	
- L- 104+90.00	41 R	T 1224	880.9	876.2 875.9								-					1		1	1												
- L- 104+90.00 - L- 105+55.00	41 R		881.9	876.2 875.9	0.4%							68	8				1		++		1	1 1									+	
		+ +	+ +		+					+++									++												+	
																													8 @ 15	5		
3D-13 SHEET TOTALS	Ī							248 44				1480	0 152 20			3.4	21	8.3 1	.9 20	2 10 8	1	1 1						1	74 2 @ 24	1	126	
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