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TGSZJR-LAPTOP

COMPUTED BY:	Zachary Richard, PE	DATE:	10/12/2022
CHECKED BY:	David Petty, PE	DATE:	2/20/2026

PROJECT NO.	SHEET NO.
A-0009CD	3D-4

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	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	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
Y2 149+62	38	LT							6				
Y2 153+91	24	LT							3				
Y2 148+29	13	RT										20	
Y2 100+02	14	RT							19				Flowable Fill 36" CMP
Y2 100+07	50	RT										8	Remove 36" CMP
Y2 103+93	9	LT										22	Remove 15"
Y2 104+28	2	RT										66	Remove 15"
Y2 109+12	10	RT										20	Remove 15"
Y2 111+86	25	LT										16	Remove 18"
Y2 111+31	9	LT										18	Remove 15"
Y2 116+45	11	LT										87	Remove 15"
SHEET TOTALS									28			257	
PROJECT TOTALS									146	0.4465	0.013	1093	

SIZE / THICKNESS OR GAUGE	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 15	18	24	30	36	42	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C. S. PIPE 15 .064	18 .064	24 .064	30 .079	36 .079	42 .109	48 .109	R. C. PIPE CLASS III 18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42
SHEET TOTALS																													
PROJECT TOTALS	732	452										396		40						80				1428	704		76		

	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) 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 D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "B" STD. 840.18, 840.27, OR 840.45	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20		G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32
SHEET TOTALS																					
PROJECT TOTALS		58	6.8		36	2	17	22		4			2	2	8	3	12		5	2	1

	ANGLED VANE GRATES AND FRAMES STD. 840.33		T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36		TEMP STEEL PLATE COVER SEE SHEET 2D-1		M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	TB PRECAST DRAINAGE STRUCTURE STD. 840.46		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 C.B. SEE SHT 2D-2	CONVERT EXISTING D.I. TO C.B. SEE SHT 2D-2	ADJUST D.I.	ADJUST M.H.	ADJUST C.B.			15" C.S. ELBOW, 0.064" THICK	18" C.S. ELBOW, 0.064" THICK	15" ELBOW	18" ELBOW	BERM DRAINAGE OUTLET STD. 850.10 (SY)	
SHEET TOTALS																											
PROJECT TOTALS			8			3			1						4	1		1					6		1	11	

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