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WEI-JPCKXL3

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PROJECT NO.	SHEET NO.
HB-0002	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)

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

Part 1 – Line & station, structures, elevations, side drain pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE), C.S. pipe

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 15	18	24	30	36	42	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE HDPE	DO NOT USE PVC	DO NOT USE PP PIPE	C. S. PIPE 12 (.064)	15 (.064)	18 (.064)	24 (.064)
L 308+99	15 LT	T0401		2671.5																		
		T0401	T0402		2668.8	2667.3																
L 309+64	20 LT	T0402		2670.0																		
		T0402	T0403		2667.3	2665.0																
L 310+45	27 LT	T0403		2667.8																		
		T0403	T0405		2665.0	2662.9																
L 311+19	34 LT	T0404		2666.5																		
		T0404	T0405		2663.8	2662.9																
L 310+95	33 LT	T0405		2666.9																		
		T0405	0433		2662.9	2661.3																
L309+70	3 RT	T0407		2669.7																		
		T0501	T0502		2655.7	2655.7		12														
L 315+00	61 LT	T0502		2661.4																		
		T0502	T0504		2655.7	2655.3																
		T0503	T0504		2658.0	2655.3		12														
L 314+01	58 LT	T0504		2662.6																		
		T0504	T0505		2655.3	2640.8																
		T0506	T0507		2652.3	2652.2		8														
L 317+95	54 LT	T0507		2656.5																		
		T0507	T0509		2652.2	2651.6																
		T0508	T0509		2653.4	2651.6																
L 319+91	42 LT	T0509		2654.6																		
		T0509	T0510		2651.6																	
L 320+44	37 LT	T0510		2654.5																		
		T0510	T0511		2654.5	2651.3																
L 320+95	33 LT	T0511		2654.6																		
		T0511	T0512		2651.3	2642.7															52		
L 315+22	2 RT	T0514	T0515		2650.7	2634.8		84						X								
		T0601	T0513		2659.2	2655.5																
L 324+89	15 RT	T0513		2657.8																		
L 324+79	115 RT	T0516	T0518		2638.7	2636.5		16						X								
L 319+82	8 RT	T0517		2650.4																		
SHEET TOTALS								132												52		
PROJECT TOTALS								488	244				68							52		

Part 2 – R. C. pipe and welded steel pipe

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	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48	18" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL
L 308+99	T0401																											
	T0401	T0402										60																
L 309+64	T0402																											
	T0402	T0403										80																
L 310+45	T0403																											
	T0403	T0405										48																
L 311+19	T0404																											
	T0404	T0405										20																
L 310+95	T0405																											
	T0405	0433										44																
L309+70	T0407																											
	T0501	T0502																										
L 315+00	T0502																											
	T0502	T0504										96																
	T0503	T0504																										
L 314+01	T0504																											
	T0504	T0505										76																
	T0506	T0507																										
L 317+95	T0507																											
	T0507	T0509										196																
	T0508	T0509										4																
L 319+91	T0509																											
	T0509	T0510										52																
L 320+44	T0510																											
	T0510	T0511										48																
L 320+95	T0511																											
	T0511	T0512																										
L 315+22	T0514	T0515																										
	T0601	T0513										28																
L 324+89	T0513																											
L 324+79	T0516	T0518																										
L 319+82	T0517																											
SHEET TOTALS												752																
PROJECT TOTALS				296	116	52						1288	416	324						180							28	28

Part 3 – Endwalls, quantities for drainage structures, frame/grates/hood, concrete transitional section

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	5' THRU 10' (A) LIN. FT.	10' AND ABOVE (B) 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	
L 308+99	T0401					1										
	T0401	T0402														
L 309+64	T0402					1										
	T0402	T0403														
L 310+45	T0403					1										
	T0403	T0405														
L 311+19	T0404					1										
	T0404	T0405														
L 310+95	T0405					1										
	T0405	0433														
L309+70	T0407					1										
	T0501	T0502														
L 315+00	T0502					1	1.1									
	T0502	T0504														
	T0503	T0504														
L 314+01	T0504					1	2.3									
	T0504	T0505														
	T0506	T0507														
L 317+95	T0507					1										
	T0507	T0509														
	T0508	T0509														
L 319+91	T0509					1										
	T0509	T0510														
L 320+44	T0510					1										
	T0510	T0511														
L 320+95	T0511					1										
	T0511	T0512														
L 315+22	T0514	T0515														
	T0601	T0513														
L 324+89	T0513															
L 324+79	T0516	T0518														
L 319+82	T0517															
SHEET TOTALS						12	3.4									
PROJECT TOTALS						47	36.7									

Part 4 – Drop inlets, manholes, elbows, fill, collars, pipe removal, remarks

LINE & STATION	FROM	TO	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.2	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	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	CONVERT EXISTING D.I. TO J.B.	ADJUST D.I.	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	15" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 308+99	T0401									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0401	T0402																					60	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 309+64	T0402									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0402	T0403																					60	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 310+45	T0403									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0403	T0405																					48	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 311+19	T0404									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0404	T0405																					20	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 310+95	T0405									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0405	0433																					44	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L309+70	T0407							1				1												
	T0501	T0502																					12	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 315+00	T0502									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0502	T0504																					96	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
	T0503	T0504																					12	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 314+01	T0504									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0504	T0505																					76	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
	T0506	T0507																						TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 317+95	T0507									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0507	T0509																					196	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
	T0508	T0509																					4	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 319+91	T0509									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0509	T0510																					52	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 320+44	T0510									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0510	T0511																					48	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 320+95	T0511									1	1													TEMPORARY INLET TO BE REMOVED WITH DETOUR
	T0511	T0512																	2				52	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 315+22	T0514	T0515															2						64	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
	T0601	T0513																					28	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 324+89	T0513														1									
L 324+79	T0516	T0518																				0.3990	16	TEMPORARY PIPE TO BE REMOVED WITH DETOUR
L 319+82	T0517															1								
SHEET TOTALS								1		11	11	1			1	1	2		2			0.3990	888	
PROJECT TOTALS			15	5	3	5	6	2	4	26	26	1	1	1	1	1	16	8	2	1	15	0.3990	1020	