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TICIVILWORK717

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CHECKED BY:	EV	DATE:	6/30/2017

PROJECT NO.	SHEET NO.
U-4751	3D-8

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, or PVC) 12	15	18	24	30	36	DO NOT USE CSP	DO NOT USE HDPE	DO NOT USE PVC	CAAP 12 .064	CAAP 15 .064	CAAP 18 .064
L 94+45	63 LT	1009		46.9															
		1009	1008		43.0	42.8													
L 95+30	64 LT	1010		46.5															
		1010	1009		43.2	43.0													
L 85+70	51 RT	1011		47.3															
		1011	1012		43.1	41.3													
L 87+75	52 RT	1012		46.3															
		1012	1013		41.3	40.7													
L 90+00	64 RT	1013		44.7															
		1013	1016		40.7	40.3													
L 91+24	63 RT	1014		44.4															
		1014	1016		39.3	39.3													
L 93+15	105 LT	1015																	
		1015	1025		39.9	39.5													
L 91+12	63 RT	1016		44.6															
		1016	1022		39.3	38.7													
L 93+75	52 RT	1020		46.3															
		1020	1014		39.7	39.3													
L 94+60	52 RT	1021		46.6															
		1021	1020		39.8	39.7													
L 91+04	65 LT	1022		48.7															
		1022	1023		38.7	38.5													
L 92+15	74 LT	1025		46.8															
		1025	1022		39.5	39.2													
L 91+15	98 RT	1026																	
		1026	1016		39.5	39.3													
L 94+63	86 RT	1027																	
		1027	1021		39.9	39.8													
L 91+73	7 RT	1031		47.1															
		1031	1004		41.7	41.6													
L 93+35	8 RT	1032		47.5															
		1032	1031		42.4	42.0													
Y1 13+77	37 LT	2401		46.1															
		2401	2415		41.6	41.5	0.3												
Y1 15+75	39 LT	2402		47.0															
		2402	2412		42.7	42.2													
Y1 17+00	42 LT	2403		47.3															
		2403	2402		43.0	42.7													
Y1 18+86	45 LT	2404		47.8															
		2404	2405		44.5	44.1													
Y1 20+14	48 LT	2405		47.8															
		2405	2501		44.1	43.4													
Y1 14+31	38 RT	2406		46.3															
		2406	2424		40.3	39.9													
Y1 16+28	49 RT	2407		46.9															
		2407	2406		42.1	40.8													
Y1 17+40	49 RT	2408		47.2															
		2408	2407		42.7	42.1													
Y1 19+38	49 RT	2409		49.8															
		2409	2408		44.8	42.9													
						SHEET TOTALS													

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
1009																									
1009	1008										68														
1010																									
1010	1009										84														
1011																									
1011	1012										192														
1012																									
1012	1013												212												
1013																									
1013	1016												104												
1014																									
1014	1016													12											
1015																									
1015	1025											100													
1016																									
1016	1022														132										
1020																									
1020	1014												244												
1021																									
1021	1020												84												
1022																									
1022	1023														32										
1025																									
1025	1022											116													
1026																									
1026	1016														36										
1027																									
1027	1021												36												
1031																									
1031	1004											52													
1032																									
1032	1031										160														
2401																									
2401	2415											52													
2402																									
2402	2412										144														
2403																									
2403	2402										124														
2404																									
2404	2405										120														
2405																									
2405	2501										120														
2406																									
2406	2424												84												
2407																									
2407	2406											196													
2408																									
2408	2407											112													
2409																									
2409	2408										196														
SHEET TOTALS											1208	628	764	12	200										

FROM	TO	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY 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	
1009					1			1		1		
1009	1008											
1010					1			1		1		
1010	1009											
1011					1			1		1		
1011	1012											
1012					1			1		1		
1012	1013											
1013					1			1		1		
1013	1016											
1014					1	0.1		1	1			
1014	1016											
1015												
1015	1025											
1016					1	0.3		1	1			
1016	1022											
1020					1	1.6		1			1	
1020	1014											
1021					1	1.8		1			1	
1021	1020											
1022					1	5.0						
1022	1023											
1025					1	2.3						
1025	1022											
1026		3.400										
1026	1016											
1027												
1027	1021											
1031					1	0.4						
1031	1004											
1032					1	0.1						
1032	1031											
2401					1			1		1		
2401	2415											
2402					1			1		1		
2402	2412											
2403					1			1		1		
2403	2402											
2404					1			1		1		
2404	2405											
2405					1			1		1		
2405	2501											
2406					1	1.1		1			1	
2406	2424											
2407					1			1			1	
2407	2406											
2408					1			1			1	
2408	2407											
2409					1			1			1	
2409	2408											
SHEET TOTALS		3.400			22	12.7		18	2	10	6	

FROM	TO	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	Pipe Clean Out	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 W/ 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/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	SPECIAL TBJB W/MH	ADJUST C.B.	ADJUST D.I.	15" CAAP ELBOW	18" CAAP ELBOW	8" SLUICE GATE	MODIFIED CONC. FLUME	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
1009																																		
1009	1008																																	
1010																																		
1010	1009																																	
1011																																		
1011	1012																																	
1012																																		
1012	1013																																	
1013																																		
1013	1016																																	
1014																																		
1014	1016																																	
1015																																		OPEN END PIPE
1015	1025																																	
1016																																		
1016	1022																																	
1020																																		
1020	1014																																	
1021																																		
1021	1020																																	
1022																		1				1												
1022	1023																																	
1025																		1				1												
1025	1022																																	
1026																																		HEADWALL
1026	1016																																	
1027																																		OPEN END PIPE
1027	1021																																	
1031		1				1	1																											
1031	1004																																	
1032		1				1	1																											
1032	1031																																	
2401																																		
2401	2415																																	
2402																																		
2402	2412																																	
2403																																		
2403	2402																																	
2404																																		
2404	2405																																	
2405																																		
2405	2501																																	
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2406	2424																																	
2407																																		
2407	2406																																	
2408																																		
2408	2407																																	
2409																																		
2409	2408																																	
SHEET TOTALS		2				2	2											2				2												

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