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BELAM-NEW

COMPUTED BY:	DJS	DATE:	04/04/2023
CHECKED BY:	BNE	DATE:	04/04/2023

PROJECT NO.	SHEET NO.
R-2707E	3D-2

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	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP 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 15 .064	18 .064	24 .064	36 .079
L 871+35	70	LT	0509		722.5																		
			0509	0510		716.9	691.7	0.4		80					X								
L 876+00	102	RT	0511		739.0																		
			0511	0512		739.0	737.6																
L 876+00	0	CL	0512		743.9																		
			0512	0513		737.6	737.4																
L 876+00	93	LT	0513		744.2																		
			0513	0514		737.4	710.6	0.8						204	X								
SR6 11+75	31	LT	0515								52												
L 881+50	0	CL	0601		769.3																		
			0601	0602		766.6	766.3																
L 881+50	70	RT	0602		769.1																		
			0602	0603		766.3	761.8	1.1															
Y42RPC 14+95	42	RT	0603		764.6																		
			0603	0604		761.6	756.5	0.6															
Y42RPC 13+48	42	RT	0604		759.5																		
			0604	0605		756.5	751.0	0.8		92													
L 893+00	0	CL	0606		775.9																		
			0606	0607		773.2	771.4																
L 893+00	77	LT	0607		774.2																		
			0607	0608		771.4	771.3																
L 892+66	77	LT	0608		774.2																		
			0608	0614		771.1	770.8																
Y42 15+30	31	RT	0609		802.7																		
			0609	0610		799.7	799.4																
Y42 15+00	28	LT	0610		802.5																		
			0610	0612		799.4	799.3																
Y42 14+40	19	RT	0611		803.7																		
			0611	0612		800.9	799.3																
Y42 14+40	19	LT	0612		803.7																		
			0612	0614		799.3	771.1		76						X								
L 891+75	0	CL	0613		775.7																		
			0613	0614		773.0	771.1																
L 891+75	77	LT	0614		774.5																		
			0614	0615		770.8	767.7	0.4															
L 888+50	93	LT	0615		772.0																		
			0615	0617		767.2	766.3																
L 883+50	63	LT	0616		777.6																		
			0616	0617		774.9	767.0																
L 885+25	77	LT	0617		776.2																		
			0617	0618		766.3	765.0																
SR6 24+20	84	RT	0619		768.0																		
			0619	0620		762.0	746.0																
SR9 21+20	31	LT	0621		801.6																		
			0621	0622		798.5	798.3																
SR9 21+20	24	RT	0622		801.6																		
			0622	0623		798.3	798.1																
RABT1 11+48	22	RT	0623		802.0																		
			0623	0624		798.1	797.8																
SR10 10+38	25	LT	0624		801.0																		
								SHEET TOTALS	76	172	52			204									

LINE & STATION	FROM	TO	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 30	48	42" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	48" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	16" WELDED STEEL PIPE 0.281" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	18" WELDED STEEL PIPE 0.312" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	30" WELDED STEEL PIPE 0.500" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	42" WELDED STEEL PIPE 0.625" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	48" WELDED STEEL PIPE 0.688" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY
L 871+35	0509																									
	0509	0510																								
L 876+00	0511																									4.500
	0511	0512																						104		
L 876+00	0512																									
	0512	0513																						92		
L 876+00	0513																									
	0513	0514																								
SR6 11+75	0515																									
L 881+50	0601																									
	0601	0602																			68					
L 881+50	0602																									
	0602	0603	60																							
Y42RPC 14+95	0603																									
	0603	0604		140																						
Y42RPC 13+48	0604																									
	0604	0605																								
L 893+00	0606																									
	0606	0607																			76					
L 893+00	0607																									
	0607	0608	32																							
L 892+66	0608																									
	0608	0614									88															
Y42 15+30	0609																									
	0609	0610								64																
Y42 15+00	0610																									
	0610	0612								60																
Y42 14+40	0611																									
	0611	0612								36																
Y42 14+40	0612																									
	0612	0614																								
L 891+75	0613																									
	0613	0614																			76					
L 891+75	0614																									
	0614	0615		324																						
L 888+50	0615																									
	0615	0617			324																					
L 883+50	0616																									
	0616	0617	176																							
L 885+25	0617																									
	0617	0618			128																					
SR6 24+20	0619																									
	0619	0620										184														
SR9 21+20	0621																									
	0621	0622								52																
SR9 21+20	0622																									
	0622	0623								56																
RABT1 11+48	0623																									
	0623	0624								96																
SR10 10+38	0624																									
SHEET TOTALS			268	464	452					364	88	184									220			196		4.500

LINE & STATION	FROM	TO	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		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/ 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	SPRING BOX STD. 840.41	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING D.I. TO J.B. w/ MH	ADJUST D.I.	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	24" SIDE DRAIN PIPE ELBOW	30" SIDE DRAIN PIPE ELBOW	36" SIDE DRAIN PIPE ELBOW	18" SLUICE GATE (25" SIZE SLUICE GATE)	24" SLUICE GATE (32" SIZE SLUICE GATE)	30" SLUICE GATE (38.75" SIZE SLUICE GATE)	BERM DITCH OUTLET STD. 850.10	BERM DITCH OUTLET STD. 850.11	ENERGY DISSIPATION BASIN	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 871+35	0509		1	0.6										1			1																											
	0509	0510																												2														
L 876+00	0511																																											
	0511	0512																																										
L 876+00	0512		1	1.3									1						1																									
	0512	0513																																										
L 876+00	0513		1	1.8									1						1																									
	0513	0514																																										
SR6 11+75	0515																																											
L 881+50	0601		1											1					1																									
	0601	0602																																										
L 881+50	0602		1											1					1																									
	0602	0603																																										
Y42RPC 14+95	0603		1											1					1																									
	0603	0604																																										
Y42RPC 13+48	0604		1											1					1																									
	0604	0605																																										
L 893+00	0606		1											1					1																									
	0606	0607																																										
L 893+00	0607		1											1					1																									
	0607	0608																																										
L 892+66	0608		1											1					1																									
	0608	0614																																										
Y42 15+30	0609		1			1			1																																			
	0609	0610																																										
Y42 15+00	0610		1			1	1																																					
	0610	0612																																										
Y42 14+40	0611		1											1							1																							
	0611	0612																																										
Y42 14+40	0612		1											1							1																							
	0612	0614																											2															
L 891+75	0613		1											1					1																									
	0613	0614																																										
L 891+75	0614		1											1					1																									
	0614	0615																																										
L 888+50	0615		1										1					1	1																									
	0615	0617																																										
L 883+50	0616		1											1					1																									
	0616	0617																																										
L 885+25	0617		1	4.9									1						1																									
	0617	0618																																										
SR6 24+20	0619		1																																									Dry Det. Basin Outlet Str., See Sheets 2D-2 and 2D-3
	0619	0620																																										
SR9 21+20	0621		1								1	1																																
	0621	0622																																										
SR9 21+20	0622		1			1			1																																			
	0622	0623																																										
RABT1 11+48	0623		1			1	1																																					
	0623	0624																																										
SR10 10+38	0624		1								1	1																																
SHEET TOTALS			24	8.6		4	2		2		2	2	4	13			1	1	14		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