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NC10478

COMPUTED BY:	Stacey H. Bailey	DATE:	8/25/2014
CHECKED BY:	Alex D. Snider	DATE:	6/19/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5516	3D-1

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 %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
SAC-ALN 14+00	25	LT	0201																		
L 22+66	50	RT	0401			748.2	736.9														
L 24+87	16	LT	0402		746.8																
			0402	0403		743.5	741.3			28											
Y1 13+59	20	LT	0404																		
Y1 15+78	20	LT	0405																		
L 29+00	28	LT	0501		724.7																
			0501	0502		721.4	721.1														
L 29+00	28	RT	0502		724.7																
			0502	0503		721.1	715.2	1.6		104											
L 30+00	44	RT	0503		718.4																
			0503	0507		714.9	696.1	2.6			100						X				
L 32+26	16	RT	0504		722.9																
			0504	0505		719.6	719.3														
L 31+67	16	RT	0505		723.1																
			0505	0506		719.3	718.9														
L 30+86	16	RT	0506		723.6																
			0506	0507		718.9	696.3	0.5		72							X				
L 30+88	87	RT	0507		700.0																
			0507	0508		692.4	692.3					16									
L 37+33	75	LT	0509																		
			0509	0510		715.5	706.7														
Y2 14+45	25	LT	0601																		
L 40+88	68	LT	0602			748.5	746.5														
L 43+60	52	LT	0603			741.4	739.0														
L 56+65	22	RT	0701		696.0																
			0701	0702		692.8	692.6														
L 56+65	22	LT	0702		696.0																
			0702	0703		692.6	692.3			48											
L 57+10	23	LT	0703		696.1																
			0703	0700		689.6	663.0			72							X				
L 63+50	35	LT	0704		697.8																
			0704	0705		694.8	694.4	0.4													
L 63+50	36	RT	0705		697.8																
			0705	0706		693.9	690.0	0.5				280									
Y 39+73	0	CL	0707		668.4																
L 67+00	25	RT	0801		702.8																
			0801	0705		700.1	694.7	0.5		352											
L 79+34	63	RT	0901			758.5	757.9														
L 83+36	33	RT	0902			778.0	773.8														
L 85+79	43	RT	0903			770.8	762.4														
L 89+54	54	RT	0904			766.0	760.2														
L 96+16	42	LT	1001			765.4	764.9														
L 99+23	51	LT	1002																		
			1002	1003		757.1	756.6														
L 124+11	32	RT	1201			795.7	792.7														
Y3 12+12	23	LT	1301																		
Y3 14+00	29	RT	1302			806.0	805.7														
Y3 20+08	41	LT	1303			805.2	803.4														
L 129+64	35	LT	1304			800.5	798.5														
SHEET TOTALS										676	100	296									

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	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY
SAC-ALN 14+00	0201											48											
L 22+66	0401						156																
L 24+87	0402																						
	0402	0403																					
Y1 13+59	0404																		24				
Y1 15+78	0405																		32				
L 29+00	0501																						
	0501	0502										56											
L 29+00	0502																						
	0502	0503																					
L 30+00	0503																						
	0503	0507																					
L 32+26	0504																						
	0504	0505										60											
L 31+67	0505																						
	0505	0506										84											
L 30+86	0506																						
	0506	0507																					
L 30+88	0507																						
	0507	0508																					
L 37+33	0509																					6.000	
	0509	0510																160					
Y2 14+45	0601																		24				
L 40+88	0602												148										
L 43+60	0603				92																		
L 56+65	0701																						
	0701	0702										48											
L 56+65	0702																						
	0702	0703																					
L 57+10	0703																						
	0703	0700																					
L 63+50	0704																						
	0704	0705											72										
L 63+50	0705																						
	0705	0706																					
Y 39+73	0707																						
L 67+00	0801																						
	0801	0705																					
L 79+34	0901				128																		
L 83+36	0902												64										
L 85+79	0903					196																	
L 89+54	0904														124								
L 96+16	1001				100																		
L 99+23	1002																					3.400	
	1002	1003						104															
L 124+11	1201				64																		
Y3 12+12	1301																		28				
Y3 14+00	1302												56										
Y3 20+08	1303													104									
L 129+64	1304													64									
SHEET TOTALS					384	196	156	104				296	340	168	124			160	108			9.400	

LINE & STATION	FROM	TO	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES 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
SAC-ALN 14+00	0201												
L 22+66	0401												
L 24+87	0402			1									
	0402	0403											
Y1 13+59	0404												
Y1 15+78	0405												
L 29+00	0501			1									
	0501	0502											
L 29+00	0502			1									
	0502	0503											
L 30+00	0503			1									
	0503	0507											
L 32+26	0504			1									
	0504	0505											
L 31+67	0505			1									
	0505	0506											
L 30+86	0506			1									
	0506	0507											
L 30+88	0507			1	2.6								
	0507	0508											
L 37+33	0509												
	0509	0510											
Y2 14+45	0601												
L 40+88	0602												
L 43+60	0603												
L 56+65	0701			1									
	0701	0702											
L 56+65	0702			1									
	0702	0703											
L 57+10	0703			1	1.5								
	0703	0700											
L 63+50	0704			1									
	0704	0705											
L 63+50	0705			1									
	0705	0706											
Y 39+73	0707												
L 67+00	0801			1									
	0801	0705											
L 79+34	0901												
L 83+36	0902												
L 85+79	0903												
L 89+54	0904												
L 96+16	1001												
L 99+23	1002												
	1002	1003											
L 124+11	1201												
Y3 12+12	1301												
Y3 14+00	1302												
Y3 20+08	1303												
L 129+64	1304												
SHEET TOTALS				14	4.1								

NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)

LINE & STATION	FROM	TO	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	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/ 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/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30
SAC-ALN 14+00	0201																	
L 22+66	0401																	
L 24+87	0402							1									1	
	0402	0403																
Y1 13+59	0404																	
Y1 15+78	0405																	
L 29+00	0501							1							1			
	0501	0502																
L 29+00	0502							1							1			
	0502	0503																
L 30+00	0503							1							1			
	0503	0507																
L 32+26	0504							1									1	
	0504	0505																
L 31+67	0505							1									1	
	0505	0506																
L 30+86	0506							1									1	
	0506	0507																
L 30+88	0507																	
	0507	0508																
L 37+33	0509																	
	0509	0510																
Y2 14+45	0601																	
L 40+88	0602																	
L 43+60	0603																	
L 56+65	0701							1									1	
	0701	0702																
L 56+65	0702							1									1	
	0702	0703																
L 57+10	0703							1									1	
	0703	0700																
L 63+50	0704							1							1			
	0704	0705																
L 63+50	0705							1							1			
	0705	0706																
Y 39+73	0707																	
L 67+00	0801							1							1			
	0801	0705																
L 79+34	0901																	
L 83+36	0902																	
L 85+79	0903																	
L 89+54	0904																	
L 96+16	1001																	
L 99+23	1002																	
	1002	1003																
L 124+11	1201																	
Y3 12+12	1301																	
Y3 14+00	1302																	
Y3 20+08	1303																	
L 129+64	1304																	
SHEET TOTALS								13							6		7	

LINE & STATION	FROM	TO	J.B. STD. 840.31 OR STD. 840.32	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	ADJUST D.I.	15" DRAINAGE PIPE ELBOW	18" DRAINAGE PIPE ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	PREFORMED SCOUR HOLE (PER EACH)	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
SAC-ALN 14+00	0201																					
L 22+66	0401																					
L 24+87	0402																					
	0402	0403																				
Y1 13+59	0404																				20	
Y1 15+78	0405																				40	
L 29+00	0501																					
	0501	0502																				
L 29+00	0502																					
	0502	0503																				
L 30+00	0503																					
	0503	0507										2										
L 32+26	0504																					
	0504	0505																				
L 31+67	0505																					
	0505	0506																				
L 30+86	0506																					
	0506	0507									2											
L 30+88	0507		1							1												
	0507	0508																				
L 37+33	0509																					
	0509	0510																				
Y2 14+45	0601																				20	
L 40+88	0602																				50	
L 43+60	0603																					
L 56+65	0701																					
	0701	0702																				
L 56+65	0702																					
	0702	0703																				
L 57+10	0703																					
	0703	0700									2				1							
L 63+50	0704																					
	0704	0705																				
L 63+50	0705																					
	0705	0706																				
Y 39+73	0707										1											
L 67+00	0801																					
	0801	0705																				
L 79+34	0901																					
L 83+36	0902																					
L 85+79	0903																					
L 89+54	0904																					
L 96+16	1001																					
L 99+23	1002																					
	1002	1003																				
L 124+11	1201																					
Y3 12+12	1301																				40	
Y3 14+00	1302																				40	
Y3 20+08	1303																					
L 129+64	1304																					
SHEET TOTALS			1							1	1	4	2			1					210	

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