12/06/07

COMPUTED BY:	WEJ	DATE:	02-16
CHECKED BY:	THB	DATE:	02-16

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
R-4416	3D-1

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT, RT, OR CL)'	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC)								DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE							R.C. PIPE CLASS III							R.C. PIPE CLASS IV							** "R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS		QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')			C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE			CONCRETE TRANSITIONAL SECTION		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	CONVERT EXISTING DI TO JB	FLOWABLE FILL, CY	SIDE DRAIN PIPE ELBOWS NO. & SIZE	C.S PIPE ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
SIZE								12"	15"	18"	24"	30"	36"	42"	48"					12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"						R.C.P.	C.S.P.	PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE		E	F	G	DROP INLET	CATCH BASIN																	
THICKNESS OR GAUGE		FROM	TO																	.064	.064	.064	.064	.079	.079	.109	.109																																																	
10+00	LT	401																																																																										
		402	401		2414.1	2410.0																																				80																																		
10+03	RT	402		2420.3																																															1	1.25										1				1										
		403	402		2426.1	2414.1								344																																																														
13+50	RT	403		2432.3																																															1	1.25										1				1										
		404	403		2444.0	2427.1						20				X																																																								2-30"			
16+72	RT	405		2439.5																																															1	0.80										1				1										
		405	403		2433.7	2426.6							320																																																															
16+79	RT	406																																																																										
		406	405		2448.0	2434.2						24																																																												2-30"			
21+50	RT	407		2458.2																																															1											1				1										
		407	405		2453.5	2434.7					464																																																																	
11+75	LT	408							40																																																																		31	Remove 31 LF of existing 15" CMP
25+00	RT	501		2476.1																																															1									1	1														
		501	407		2473.4	2454.2			340																																																																			
42+00	RT	602		2562.4																																															1									1	1									6					Remove existing GI
		602	601		2558.9	2556.0																																	104																																					
44+00	RT	603		2574.9																																															1									1	1														
		603	602		2571.9	2559.4				200																																																																		
47+00	RT	604		2596.0																																															1									1	1														
		604	603		2593.3	2572.2			296																																																																			
60+50	RT	701									36																																																																24	Remove 24 LF of existing 18" CMP
66+70	RT	802		2730.3																																															1	0.20										1				1					6					Remove existing 2GI
		803	802		2746.8	2725.1						232																																																																
69+00	RT	803		2752.0																																															1	0.25										1				1										
69+00	RT	804																																																																										
		804	803		2753.0	2746.8						28				X																																																								2-30"			
70+53	RT	805		2762.8																																															1									1	1														
		805	803		2760.1	2748.0			156																																																																			
90+00	RT	1002		2860.7																																															1									1	1														
		1002	1001		2857.2	2855.0																																	92																																				118	Remove 118 LF of existing 24" CMP and GI
93+00	RT	1003		2876.8																																															1									1	1														
		1003	1002		2873.8	2857.7				280																																																																		
96+50	RT	1004		2898.1																																															1									1	1														
		1004	1003		2895.4	2874.1			328																																																																			
101+00	RT	1006		2925.3																																															1											1				1					9				133	Remove 133 LF of existing 18" CMP
		1006	1005		2920.6	2919.0																																	116																																					
100+04	RT	1007		2943.6																																															1											1				1										
		1007	1006		2938.9	2920.6					284																																																																	
107+50	RT	1101		2966.4																																															1									1	1									8					
		1101	1007		2963.7	2939.4			328																																																																		116	Remove 116 LF of existing 18" CMP
110+50	RT	1104		2985.7																																															1									1	1														
		1104	1103		2983.0	2981.4																															80																																							
110+50	LT	1103		2984.1																																															1									1	1														
		1103	1102		2981.4	2980.0			28																																																																			
115+00	RT	1108		3013.2																																																																								
		1108	1107		3010.5	2999.2																																																																						
113+00	RT	1107		3001.9					204																																										1									1	1									32					
		1107	1106		2998.4	2995.5																																	80																																					
113+00	LT	1106		2999.0																																															1									1	1														
SHEET TOTALS								0	1720	480	784	304	320	344	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	392	0	0	80	0	0	0	0	0	0	0	0	21	3.75	0	0	0	0	0	0	0	13	13	8	0	0	0	8	0	0	0	0	61	6-30"			422	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	(NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

2/19/2016 4:06:03 PM
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USER: todd.buckner