R0266446

COMPUTED BY:	MJD	DATE:	1/11/2012
CHECKED BY:	SKR	DATE:	7/18/14

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3465	3D-10

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".

SUB-REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	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	C.S. PIPE 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	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"
-L-																																										
135+61	LT	1230		286.7	283.7																																					
	LT	1230	1310		283.7	286.3																														140						
137+00	LT	1310		289.3	286.3																																					
137+75	RT	1309		290.2	287.2																																					
143+15	RT	1301		288.5	285.5																																					
	RT	1301	1302		285.5	285.3	X																													80						
	LT	1302		288.5	285.3																																					
	LT	1302	1311		285.3	284.3																														84						
146+00	LT	1306		285.1	281.7																																					
145+60	LT	1305		284.9	281.9																																					
	LT	1305	1306		281.9	281.7	X																													52						
145+50	RT	1303		285.6	282.6																																					
	RT	1303	1304		282.6	282.5	X																													36						
	CL	1304		286.5	282.5																																					
	CL	1304	1306		282.5	282.1																														68						
146+00	LT	1306	1308		281.7	279.1																														172						
147+70	LT	1308		283.3	279.1																																					
	LT	1308	1307		280.0	280.3	X																													80						
	RT	1307		283.3	280.3																																					
	LT	1308	1401		279.1	266.2																															480					
144+00	LT	1311		287.3	284.3																																					
	LT	1311	1306		284.3	281.7																														200						
	CL	1312						40																																		
152+50	LT	1401		269.4	266.2																																					
	LT	1401	1402		266.4	275.5		40								X																										
	CL	1401	1403		266.2	265.9																															80					
	RT	1403	1404		265.9	261.7				32																																
	RT	1403		269.4	265.9																																					
157+50	RT	1408		249.4	246.4																																					
	RT	1408	1414		246.4	241.1																														212						
159+60	RT	1414		244.1	241.1																																					
	RT	1414	1415		241.1	240.5																														72						
160+30	RT	1415		243.5	239.3																																					
	RT	1415	1416		239.3	236.6				28																																
	RT	1415	1413		240.3	240.4	X																													44						
160+71	RT	1413		243.4	240.4																																					
156+50	LT	1419		253.5	250.5																																					
	LT	1419	1407		250.5	246.4																														100						
157+50	LT	1407		249.4	246.4																																					
	LT	1407	1406		246.4	251.5		32								X																										
	LT	1407	1409		246.4	241.1																														212						
159+60	LT	1409		244.1	240.9																																					
	LT	1409	1412		240.9	240.2	X																														72						
160+30	LT	1412		243.5	239.8																																					
	LT	1412	1410		240.5	244.5		24								X																										
	LT	1412	1415		239.8	239.3	X																														80						
	LT	1412	1411		240.3	240.4	X																													44						
160+71	LT	1411		243.4	240.4																																					
165+00	RT	1501		241.2	238.2																																					
	RT	1501	1502		238.2	238.0	X																													80						
	LT	1502		241.2	238.0																																					
SHEET TOTALS								136		60																										1676	552	160				

STATION	24" WELDED STEEL PIPE, 0.5" THICK	30" WELDED STEEL PIPE, 0.5" THICK	36" WELDED STEEL PIPE, 0.5" THICK	4 SIDE OPEN THROAT CATCH BASIN (SEE DETAIL 2C-6)	ADJUST CB	ADJUST DI	CONVERT TBDI TO TBJB (SEE DETAIL 2C-4)	TEMP. STEEL PLATE COVERS FOR DRAINAGE STRUCTURES (SEE DETAIL 2C-5)	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	O.T.C.B STD. 840.04 OR STD. 840.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	GRATE WITH FRAME, DRIVEWAY DROP INLET STD. 840.30	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	T.B.D.I. STD. 840.35	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	M.H. FRAME AND COVER STD. 840.54	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	I.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	4" CONCRETE PAVED DITCH, S.Y.	EMERGY DISSIPATOR BASIN	FLOWABLE FILL (CY)	DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-L-																																										
135+61									1			1		1																												
137+00									1			1		1																												
137+75									1			1			1																										21	REMOVE 15" RCP
143+15									1			1		1																												
									1			1			1																											
146+00									1			1			1																											
145+60									1			1			1																											
145+50									1			1		1																												
									1									1											1	1												
146+00																																									26	REMOVE 15" RCP (IN MEDIAN)
147+70									1			1			1																											
									1			1		1																										24	REMOVE 15" RCP
144+00									1			1			1																											
																																									40	TEMPORARY PIPE TO BE REMOVED
152+50									1			1			1																											
																																			11		2 @ 15"					BERM DRAINAGE OUTLET
																																				7.3						PLUG AND FILL 24" RCP
																																					2 @ 24"					
					1			1	1			1		1																											PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
157+50									1			1		1																											
159+60									1			1		1																											
160+30					1			1	1			1		1																											PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
																																					2 @ 24"					
160+71									1			1	1																												
156+50									1			1			1																											
157+50									1			1			1																											
																																			11		2 @ 15"					BERM DRAINAGE OUTLET
159+60									1			1			1																											
160+30									1			1			1																											
																																			11		2 @ 15"					BERM DRAINAGE OUTLET
																																				6.1						PLUG AND FILL 24" RCP
160+71									1			1	1																													
165+00									1			1		1																											
									1			1			1																										20	REMOVE 15" RCP (IN MEDIAN)
																																					6 @ 15"					
SHEET TOTALS					2			2	25			24	2	10	12	1									1	1					33		13.4	4 @ 24"				131	

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