RAL-2UA2440BPJ

COMPUTED BY: CGM DATE: 3/06/14

CHECKED BY: JRR DATE:

PROJECT NO.	SHEET NO.
U-2579B	3D-6

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	OFFSET	STRUCTURE NUMBER FROM	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	SIDE DRAIN PIPE (STATEWIDE TIER) (RCP, CSP, CAAP, HDPE, or PVC) 15	18	24	30	36	42	48	DO NOT USE RCP	C. S. PIPE (SE: SHOP ELONGATED) 15 (.064)	18 (.064)	24 (.064)	30 (.064)	36 (.079)	42 (.109)	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	42	48	R. C. PIPE CLASS V 24	30	36
537+35 -L-	RT	98A						24																													
538+17 -L-	RT	98B						40																													
539+72 -L-	LT	0101		887.3	883.3																																
		0101	0102		883.3	883.0																			92												
539+72 -L-	LT	0100		910.7	907.9																																
		0100	0101		907.9	883.3					52				X																						
539+72 -L-	CL	0102		889.3	883.0																																
		0102	0106		883.0	879.9					300																										
542+70 -L-	RT	0105		884.1	881.4																																
		0105	0106		881.4	881.1																92															
542+70 -L-	LT	0104		885.2	881.7																																
		0104	0106		881.7	880.4																		92													
542+70 -L-	LT	0103		912.7	910.3																																
		0103	0104		910.3	881.7				60					X																						
542+70 -L-	CL	0106		886.2	879.4																																
		0106	0109		879.4	877.6						296																									
545+64 -L-	LT	0108		883.5	880.8																																
		0108	0109		880.8	879.3																92															
545+63 -L-	LT	0107		919.9	918.3																																
		0107	0108		918.3	880.8		80							X																						
545+65 -L-	CL	0109		883.3	877.6																																
		0109	0110		877.6	874.6																				92											
545+66 -L-	RT	0110		880.4	874.6																																
		0110	0113		874.6	873.3						284																									
548+53 -L-	CL	0112		882.0	879.2																																
		0112	0113		879.2	875.1																92															
548+52 -L-	LT	0111		882.2	879.5																																
		0111	0112		879.5	879.2																92															
548+54 -L-	RT	0113		879.1	872.8																																
		0113	0116		872.8	872.1							244																								
551+00 -L-	CL	0115		883.0	878.4																																
		0115	0116		878.4	874.3																100															
551+00 -L-	LT	0114		881.5	878.7																																
		0114	0115		878.7	878.4																100															
551+00 -L	RT	0116		878.3	872.1																																
		0116	0118		872.1	871.2							320																								
554+22 -L-	RT	117A		887.2	884.2																																
		117A	0118		884.2	873.5		64							X																						
554+22 -L-	CL	0117		887.1	884.4																																
		0117	117A		884.4	884.2																72															
554+23 -L-	RT	0118		877.4	871.1																																
		0118	OUT		871.1	849.9							172		X																						
558+30 -L-	CL	0119		897.0	894.2																																
		0119	0120		894.2	894.0																							72								
558+30 -L-	RT	0120		897.1	893.8																																
		0120	OUT		893.8	846.5			116						X																						
560+51 -L-	RT	0122		904.6	901.5																																
		0122	0120		901.5	894.0		220																													
SHEET TOTALS								428	116	60	352	580	736									640		92	92	92			72								

FROM	TO	8" DIP (DUCTILE IRON PIPE)	42" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	48" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	36" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	18" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	30" WELDED STEEL PIPE, 0.500, TRENCLESS INSTALLATION	36" WELDED STEEL PIPE, 0.500, TRENCLESS INSTALLATION	42" WELDED STEEL PIPE, 0.625, TRENCLESS INSTALLATION	48" WELDED STEEL PIPE, 0.625, TRENCLESS INSTALLATION	ENDWALLS STD. 838.01 OR STD. 838.11 OR 838.80 (UNLESS NOTED OTHERWISE) 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	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	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. (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
98A																														
98B																														
0101												1													1			1		
0101	0102																													
0100																														
0100	0101																													
0102												1	1.3											1				1		
0102	0106																													
0105												1													1			1		
0105	0106																													
0104												1													1			1		
0104	0106																													
0103																														
0103	0104																													
0106												1	1.8											1				1		
0106	0109																													
0108												1													1			1		
0108	0109																													
0107																														
0107	0108																													
0109												1	0.7											1				1		
0109	0110																													
0110												1	0.8											1				1		
0110	0113																													
0112												1													1			1		
0112	0113																													
0111												1													1			1		
0111	0112																													
0113												1	1.3											1				1		
0113	0116																													
0115												1													1			1		
0115	0116																													
0114												1													1			1		
0114	0115																													
0116												1	1.2											1				1		
0116	0118																													
117A												1													1	1				
117A	0118																													
0117												1													1			1		
0117	117A																													
0118												1	1.3											1				1		
0118	OUT																													
0119												1													1			1		
0119	0120																													
0120												1													1	1				
0120	OUT																													
0122												1													1	1				
0122	0120																													
SHEET TOTALS												20	8.4											7	13	3		17		

FROM	TO	J.B. STD. 840.31 OR STD. 840.32	T.B.D.I. STD. 840.36	STEEL GRATE AND FRAME STD. 840.37	SPRING BOX STD. 840.41	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING O.T.C.B. TO 2GI	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	15" C.S. PIPE ELBOW	18" C.S. PIPE ELBOW	24" C.S. PIPE ELBOW	42" C.S. PIPE ELBOW	BERM DITCH OUTLET STD. 850.10	MODIFIED CONC. FLUME	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
98A																									32	
98B																										
0101																										SHOULDER DRAIN OUTLET
0101	0102																									
0100																		1								BERM DITCH OUTLET
0100	0101											1														
0102																										
0102	0106																									
0105																										SHOULDER DRAIN OUTLET
0105	0106																									
0104																										SHOULDER DRAIN OUTLET
0104	0106																									
0103																		1								BERM DITCH OUTLET
0103	0104										1															
0106																										
0106	0109																									
0108																										
0108	0109																									
0107																		1								BERM DITCH OUTLET
0107	0108								1																	
0109																										SHOULDER DRAIN OUTLET
0109	0110																									
0110																										SHOULDER DRAIN OUTLET
0110	0113																									
0112																										SHOULDER DRAIN OUTLET
0112	0113																									
0111																										
0111	0112																									
0113																										SHOULDER DRAIN OUTLET
0113	0116																									
0115																										
0115	0116																									
0114																									20	
0114	0115																									
0116																										SHOULDER DRAIN OUTLET
0116	0118																									
117A																										SHOULDER DRAIN OUTLET
117A	0118								2																	
0117																			1							SHLDR DRN OUT/ Special Detail, See Sht 2D-6
0117	117A																									
0118																										
0118	OUT																				1					ENERGY DIS BASIN
0119																										SHOULDER DRAIN OUTLET
0119	0120																									
0120																										SHOULDER DRAIN OUTLET
0120	OUT									2										1						PREFORMED SCOUR HOLE
0122																										SHOULDER DRAIN OUTLET
0122	0120																									
SHEET TOTALS									3	2	1	1						3	1	1	1				52	

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