1612LP-M70196

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-3100B	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	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) 15	Drainage Pipe 18	Drainage Pipe 24	Drainage Pipe 30	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 15 (.064)	C. S. PIPE 18 (.064)	C. S. PIPE 24 (.064)	C. S. PIPE 30 (.079)	C. S. PIPE 60 (.109)	R. C. PIPE CLASS III 15	R. C. PIPE CLASS III 18	R. C. PIPE CLASS III 24	R. C. PIPE CLASS III 30	R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24	R. C. PIPE CLASS IV 30
L 17+74	77 LT	0401		899.8																									
L 17+58	35 LT	0402		886.0																									
		0402	0403		883.0	882.9																				24			
L 17+83	36 LT	0403		886.0																									
L 17+67	6 RT	0404		887.4																									
		0404	0413		884.6	884.6																				12			
L 17+56	6 RT	0405		887.4																									
		0405	0404		884.7	884.6																				8			
L 17+55	35 RT	0406		888.3																									
		0406	0410		885.3	885.1																				28			
L 20+50	40 LT	0407		886.7																									
		0407	0408		883.5	883.3																				44			
L 20+62	2 RT	0408		888.3																									
		0408	0409		883.3	883.0	0.4															48							
L 20+30	40 RT	0409		889.0																									
		0409	0410		883.0	881.8	0.4															252							
L 17+83	36 RT	0410		888.3																									
L 17+83	48 RT	0411		885.2																									
L 17+83	6 RT	0413		887.5																									
L 22+05	9 RT	0501		889.1																									
		0501	0408		885.9	885.1																				144			
L 22+55	39 LT	0502		887.5																									
		0502	0407		884.5	883.5																				200			
L 23+30	10 RT	0503		889.5																									
		0503	0504		886.8	886.0																				144			
L 24+75	10 RT	0504		890.1																									
		0504	0509		884.1	879.7	0.4																					56	
L 24+75	39 LT	0505		888.3																									
		0505	0504		884.3	884.1	0.3																					48	
L 26+90	2 RT	0506		890.5																									
		0506	0507		887.8	886.1																				40			
L 26+88	40 LT	0507		889.1																									
		0507	0505		886.1	885.1																				208			
		0508	0505		893.4	884.6	0.9												32										
L 29+45	40 LT	0510		890.5																									
		0510	0515		887.3	886.9																				80			
L 30+20	39 LT	0511		890.8																									
		0511	0510		887.7	887.3																				76			
L 31+25	40 LT	0512		891.2																									
		0512	0511		888.2	887.7																				104			
L 31+25	39 RT	0513		891.2																									
		0513	0514		888.2	887.6																				120			
L 30+05	39 RT	0514		890.7																									
		0514	0515		887.6	887.4																				44			
L 29+60	39 RT	0515		890.6																									
		0515	0516		886.2	875.8	0.8										48												
L 32+15	51 LT	0517		892.3																									
		0517	0520		889.3	889.1																				48			
L 33+45	69 LT	0519		896.6																									
		0519	0533		890.2	887.3	1.0			72																			
						SHEET TOTALS				72							48		32			300				1324		104	

LINE & STATION	FROM	TO	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY 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. TYPE "D" STD. 840.19 OR STD. 840.28	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. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.D.I. STD. 840.35
L 17+74	0401																									
L 17+58	0402					1			1	1																
	0402	0403																								
L 17+83	0403					1	2.1		1	1																
L 17+67	0404					1													1		1					
	0404	0413																								
L 17+56	0405					1													1		1					
	0405	0404																								
L 17+55	0406					1			1	1																
	0406	0410																								
L 20+50	0407					1			1		1															
	0407	0408																								
L 20+62	0408					1							1			1	1									
	0408	0409																								
L 20+30	0409					1	1.0		1			1														
	0409	0410																								
L 17+83	0410					1	4.9		1	1																
L 17+83	0411																									
L 17+83	0413					1	3.9												1		1					
L 22+05	0501					1							1			1	1									
	0501	0408																								
L 22+55	0502					1			1		1															
	0502	0407																								
L 23+30	0503					1													1		1					
	0503	0504																								
L 24+75	0504					1	0.9												1		1					
	0504	0509																								
L 24+75	0505					1			1		1															
	0505	0504																								
L 26+90	0506					1													1		1					
	0506	0507																								
L 26+88	0507					1			1		1															
	0507	0505																								
	0508	0505																								
L 29+45	0510					1			1		1															
	0510	0515																								
L 30+20	0511					1			1		1															
	0511	0510																								
L 31+25	0512					1			1		1															
	0512	0511																								
L 31+25	0513					1			1			1														
	0513	0514																								
L 30+05	0514					1			1			1														
	0514	0515																								
L 29+60	0515					1			1			1														
	0515	0516																								
L 32+15	0517					1			1		1															
	0517	0520																								
L 33+45	0519					1	1.4																		1	
	0519	0533																								
SHEET TOTALS						25	14.2		16	4	8	4	2			2	2		6		6				1	

LINE & STATION	FROM	TO	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	15" PIPE END SECTION	CONVERT EXISTING D.I. TO J.B. W/MH	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	PREFORMED SCOUR HOLE (PER EACH)	DRAINAGE INLET TRANSITIONAL GUTTER SECT. EA	FLOWABLE FILL CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 17+74	0401																Existing headwall
L 17+58	0402																
	0402	0403															
L 17+83	0403																
L 17+67	0404												1				
	0404	0413															
L 17+56	0405												1				
	0405	0404															
L 17+55	0406																
	0406	0410															
L 20+50	0407																
	0407	0408															
L 20+62	0408												1				
	0408	0409															
L 20+30	0409																
	0409	0410															
L 17+83	0410																
L 17+83	0411			1		1											
L 17+83	0413												1				
L 22+05	0501												1				
	0501	0408															
L 22+55	0502																
	0502	0407															
L 23+30	0503												1				
	0503	0504															
L 24+75	0504												1				
	0504	0509															
L 24+75	0505																
	0505	0504															
L 26+90	0506												1				
	0506	0507															
L 26+88	0507																
	0507	0505															
	0508	0505							1		1						
L 29+45	0510																
	0510	0515															
L 30+20	0511																
	0511	0510															
L 31+25	0512																
	0512	0511															
L 31+25	0513																
	0513	0514															
L 30+05	0514																
	0514	0515															
L 29+60	0515																
	0515	0516															
L 32+15	0517																
	0517	0520															
L 33+45	0519			1													
	0519	0533															
SHEET TOTALS				2		1			1		1		8				

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