DTALBERT-NEW

COMPUTED BY:	DWT	DATE:	11/20/2018
CHECKED BY:	JDG	DATE:	11/20/2018

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5826	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	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 4 Irrigation Conduit	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
L 15+50	69	RT	0401																		
			0401	0402		445.1	444.9				40							X	X		X
Y10 10+91	32	RT	0402		448.1																
			0402	0403		444.9	444.8	0.3													
Y10 10+84	11	RT	0403																		
Y10 10+99	20	LT	0404		448.5																
			0404	0405		445.5	445.1														
Y10 10+75	21	LT	0405		448.1																
			0405	0406		443.9	443.6	0.7			44							X	X		X
L 17+17	14	RT	0407		447.4																
			0407	0408		444.2	442.7														
L 19+35	51	RT	0409		449.6																
			0409	0410		446.6	446.4														
L 19+75	51	RT	0410		449.8																
			0410	0411		446.4	439.2			40							X				X
L 20+87	47	LT	0412		450.3																
L 21+08	51	RT	0413		450.2																
L 13+30	11	LT	0414		449.6																
L 13+27	50	LT	0415		446.7																
L 14+71	49	LT	0416		444.5																
L 14+00	10	LT	0417		448.1																
			0417	0418		445.0	443.5														
L 15+00	9	LT	0418		446.7																
			0418	0419		443.5	443.1														
L 15+48	8	LT	0419		446.3																
RPC 21+64	51	RT	0420		442.5																
RPC 20+99	67	RT	0421		440.0																
			0421	0423		436.0	435.9			8											
RPC 19+00	69	RT	0422		434.9																
			0422	0424		430.9	430.8			8											
RPC 21+00	46	RT	0423		441.7																
RPC 19+02	53	RT	0424		436.5																
L 18+08	40	RT	0425														X	X	X	X	
L 24+16	47	LT	0501		452.1																
L 24+41	51	RT	0502		451.6																
L 25+98	62	RT	0503		450.3																
			0503	0504		447.3	446.4														
L 26+65	62	RT	0504		449.4																
			0504	0505		446.4	445.8														
L 27+28	62	RT	0505		448.8																
L 27+28	1	LT	0506																		
			0506	0507		445.5	445.4														
L 27+28	10	LT	0507		450.4																
			0507	0508		445.4	444.1														
L 29+75	80	LT	0509																		
			0509	0510		447.8	447.1					24									
L 29+87	62	LT	0510		451.5																
L 33+35	8	LT	0511		453.2																
			0511	0512		450.0	449.3														
L 32+72	7	LT	0512		452.5																
							SHEET TOTALS			56	84	24									

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	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
L 15+50	0401																											
	0401	0402																										
Y10 10+91	0402																					1			1			1
	0402	0403											24															
Y10 10+84	0403																											
Y10 10+99	0404																					1			1		1	
	0404	0405										24																
Y10 10+75	0405																										1	
	0405	0406																										
L 17+17	0407																					1						
	0407	0408										80																
L 19+35	0409																					1			1			1
	0409	0410										40																
L 19+75	0410																					1	2.0		1			1
	0410	0411																										
L 20+87	0412																										1	
L 21+08	0413																											1
L 13+30	0414																											
L 13+27	0415																											1
L 14+71	0416																											1
L 14+00	0417																					1						
	0417	0418										96																
L 15+00	0418																					1						
	0418	0419										44																
L 15+48	0419																											
RPC 21+64	0420																											
RPC 20+99	0421																					1						
	0421	0423																										
RPC 19+00	0422																					1						
	0422	0424																										
RPC 21+00	0423																					1	4.9					
RPC 19+02	0424																											
L 18+08	0425																											
L 24+16	0501																											1
L 24+41	0502																										1	
L 25+98	0503																					1			1		1	
	0503	0504										84																
L 26+65	0504																					1			1		1	
	0504	0505										60																
L 27+28	0505																										1	
L 27+28	0506																											
	0506	0507										12																
L 27+28	0507																					1						
	0507	0508										68																
L 29+75	0509																											
	0509	0510																										
L 29+87	0510																					1	0.4					
L 33+35	0511																					1						
	0511	0512										60																
L 32+72	0512																					1						
SHEET TOTALS												568	24									16	7.3		6		7	7

LINE & STATION	FROM	TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	DI IN 2'-9" CURB AND GUTTER	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	J.B. STD. 840.31 OR STD. 840.32	T.B.D.I. STD. 840.35	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING D.I. TO C.B.	CONVERT EXISTING D.I. TO J.B.	ADJUST C.B.	ADJUST D.I.	15" DRAINAGE PIPE ELBOW	MODIFIED CONC. FLUME	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 15+50	0401																														
	0401	0402																													
Y10 10+91	0402																														
	0402	0403																													Remove +/- 8 LF of 18" RCP
Y10 10+84	0403																												0.4465		
Y10 10+99	0404																														
	0404	0405																													
Y10 10+75	0405																							1							
	0405	0406																													
L 17+17	0407		1		1	1																									Remove Existing DI
	0407	0408																													
L 19+35	0409																														
	0409	0410																													
L 19+75	0410																														
	0410	0411																								2					
L 20+87	0412																					1									
L 21+08	0413																							1							
L 13+30	0414		1			1																			1						
L 13+27	0415																							1							
L 14+71	0416																							1							
L 14+00	0417		1		1	1																									
	0417	0418																													
L 15+00	0418		1		1	1																									
	0418	0419																													
L 15+48	0419		1			1																			1						
RPC 21+64	0420																				1		1								
RPC 20+99	0421							1					1																		
	0421	0423																													
RPC 19+00	0422							1					1																		
	0422	0424																													
RPC 21+00	0423																	1			1										Remove +/- 4 LF of 24" RCP
RPC 19+02	0424																				1		1								
L 18+08	0425																														
L 24+16	0501																					1									
L 24+41	0502																							1							
L 25+98	0503																														
	0503	0504																													
L 26+65	0504																														
	0504	0505																													
L 27+28	0505																							1							
L 27+28	0506																												0.3990		Remove Existing DI
	0506	0507																													
L 27+28	0507		1		1	1																									
	0507	0508																													Remove +/- 74 LF of 15" RCP
L 29+75	0509																														
	0509	0510																													
L 29+87	0510																	1			1										
L 33+35	0511		1		1	1																									
	0511	0512																													
L 32+72	0512		1		1	1																									
SHEET TOTALS			8		6	8		2					2					2			4	2	2	6	2	2			0.8455		

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