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TGSBEN-LAPTOP

COMPUTED BY:	TBE	DATE:	2/23/18
CHECKED BY:	BJH	DATE:	2/23/18

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-6055	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) SIZE / THICKNESS OR GAUGE: 12	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
Y4 11+02	11 RT	0401		2657.5																
		0401	0402		2654.5	2648.6														
Y4 11+48	11 RT	0402		2651.6																
		0402	0403		2648.6	2638.6														
Y3 11+44	14 LT	0403		2641.6																
		0403	0404		2638.6	2626.7														
Y3 10+50	26 LT	0404		2629.7																
		0404	0405		2626.7	2620.3														
Y1 12+07	29 RT	0405		2623.3																
		0405	0406		2620.3	2618.7	0.4													
L 13+61	29 LT	0406		2621.7																
		0406	0408		2618.7	2614.0	0.5													
L 13+04	32 LT	0407		2618.1																
		0407	0408		2615.8	2614.0														
L 13+04	19 LT	0408		2617.0																
		0408	0419		2614.0	2611.8	0.8													
L 12+35	13 LT	0409		2612.8																
		0409	0424		2608.9	2606.9	0.8													
Y3 11+88	13 RT	0411		2648.5																
		0411	0412		2645.5	2633.0	1.0													
Y3 11+14	15 RT	0412		2636.0																
		0412	0413		2633.0	2627.3	1.1													
Y3 10+45	24 RT	0413		2630.3																
		0413	0414		2627.3	2624.6	1.2													
Y2 10+51	1 LT	0414		2627.9																
		0414	0415		2624.4	2621.8	0.5													
Y2 10+45	30 RT	0415		2625.1																
		0415	0420		2621.8	2609.6	1.1													
L 12+79	28 RT	0416		2615.7																
		0416	0417		2612.9	2611.8														
L 12+56	27 RT	0417		2614.8																
		0417	0420		2611.8	2609.8														
L 13+05	0 CL	0418		2617.7																
		0418	0408		2614.5	2614.0														
L 12+69	14 LT	0419		2614.8																
		0419	0409		2611.8	2609.6	0.8													
L 12+35	14 RT	0420		2612.9																
		0420	0409		2609.1	2608.9	0.4													
Y3 11+95	13 RT	0421		2649.7																
		0421	0411		2646.7	2645.5	1.0													
Y 10+37	12 LT	0422		2616.0																
		0422	0416		2613.2	2612.9														
L 14+10	0 CL	0423		2626.0																
		0423	0406		2621.0	2618.7														
L 11+94	27 LT	0424		2610.4																
		0424	0410		2604.3	2603.3	0.8													
Y2 10+24	6 RT																			
Y 10+19	37 LT																			
L 12+31	14 RT																			
SHEET TOTALS																				
PROJECT TOTALS																				

LINE & STATION	C. S. PIPE 12	15	18	24	30	36	42	48	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	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48
	.064	.064	.064	.064	.079	.079	.109	.109																								
Y4 11+02																																
																	44															
Y4 11+48																																
																	44															
Y3 11+44																																
																	96															
Y3 10+50																																
																										76						
Y1 12+07																																
																	48															
L 13+61																																
																	52															
L 13+04																																
										12																						
L 13+04																																
																	32															
L 12+35																																
																			44													
Y3 11+88																																
																	68															
Y3 11+14																																
																	68															
Y3 10+45																																
																										36						
Y2 10+51																																
																											32					
Y2 10+45																																
																											156					
L 12+79																																
																										24						
L 12+56																																
																	28															
L 13+05																																
																										16						
L 12+69																																
																	32															
L 12+35																																
																												24				
Y3 11+95																																
																	8															
Y 10+37																																
																	8															
L 14+10																																
																										56						
L 11+94																																
																			28													
Y2 10+24																																
Y 10+19																																
L 12+31																																
SHEET TOTALS										12							528		72						208	188	24					
PROJECT TOTALS										12							528		72						208	188	24					

LINE & STATION	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. 852.06	C.B. STD. 852.05	D.I. STD. 852.04 OR STD. 840.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	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	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	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		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
Y4 11+02	1			1		1																																
Y4 11+48	1			1		1																																
Y3 11+44	1			1		1																																
Y3 10+50	1			1		1																																
Y1 12+07	1			1	1																																	
L 13+61	1			1		1																																
L 13+04	1											1	1																									
L 13+04	1			1		1																																
L 12+35	1			1			1																															
Y3 11+88	1			1			1																															
Y3 11+14	1			1			1																															
Y3 10+45	1			1			1																															
Y2 10+51	1							1				1	1																									
Y2 10+45	1			1			1																															
L 12+79	1																									1			1									
L 12+56	1			1			1																															
L 13+05	1							1				1	1																									
L 12+69	1			1		1																																
L 12+35	1			1			1																															
Y3 11+95	1			1			1																															
Y 10+37	1																									1			1									
L 14+10	1											1	1																									
L 11+94	1	1.1																									1			1	1							
Y2 10+24																																	9					
Y 10+19																																					148	
L 12+31																																			0.100			
SHEET TOTALS	23	1.1		16	1	7	8		2			4	4													2	1		2	1	1		9		0.100	148	
PROJECT TOTALS	23	1.1		16	1	7	8		2			4	4													2	1		2	1	1		9		0.100	148	

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