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TGSBEN-LAPTOP

COMPUTED BY:	BAC	DATE:	04-20-21
CHECKED BY:	BJH	DATE:	04-20-21

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
15614.1075010	3D-3

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	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	C. S. PIPE(ALUMINIZED TYPE 2) 12 0.079	15 0.079	18 0.079	24 0.109	30 0.138	36 0.138	42 0.168	48 0.168	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48
I26 467+50	62 RT	0613		1727.9																			
		0613	0610		1720.1	1708.9														248			
HGR 52+55	90 LT	0615		1597.7																			
		0615	0614		1586.4	1586.1	1.6					32											
HGR 52+68	18 LT	0616		1635.5																			
		0616	0615		1624.7	1590.3	1.6					72											
HGR 52+75	18 RT	0617		1634.3																			
		0617	0616		1629.3	1628.9	1.6					36											
HGR 53+24	21 RT	0618		1641.2																			
		0618	0617		1633.2	1629.3	1.6					48											
I26 469+83	113 LT	0619		1716.2																			
		0619	0628		1708.4	1673.8						72											
I26 469+93	43 LT	0620		1737.1																			
		0620	0619		1728.9	1709.4						68											
I26 470+00	1 RT	0621																					
		0621	0620																				
I26 470+10	63 RT	0622		1739.0																			
		0622	0621																				
I26 472+63	43 LT	0623		1748.6																			
		0623	0620		1745.4	1730.6											268						
I26 472+49	64 RT	0624		1748.5																			
		0624	0622		1743.1	1732.6														236			
I26 465+06	97 RT	0625																					
		0625	0610		1715.5	1709.4	0.4				36												
I26 469+58	63 RT	0626		1736.8																			
		0626	0613		1731.5	1720.1														208			
I26 470+65	90 RT	0627																					
		0627	0626		1739.5	1731.5	0.7					112											
I26 469+73	183 LT	0628		1679.4																			
		0628	0618		1667.6	1633.2						72											
HGR 60+23	20 RT	0703																					
		0703	0702																				
		0704																					
I26 476+70	69 LT	0704	0703																				
I26 475+63	2 LT	0705																					
		0705	0706																				
I26 475+00	64 RT	0706		1758.5																			
		0706	0624		1753.7	1743.6														248			
I26 477+22	65 RT	0707		1767.4																			
		0707	0704																				
I26 479+50	2 RT	0708																					
		0708	0709																				
I26 479+49	69 RT	0709		1774.8																			
		0709	0707		1768.8	1761.2	0.7													216			
I26 482+45	92 LT	0710		1791.2																			
		0710	0701																				
I26 481+38	70 RT	0711		1783.6																			
		0711	0709		1778.8	1768.8	0.3													176			
I26 484+00	2 RT	0712		1797.9																			
		0712	0717		1781.5	1779.3	0.5															56	
						SHEET TOTALS					36	512					268			640	692		56

| STRUCTURE NUMBER FROM | TO | 15" PIPE REHABILITAION CIPP LINER | 18" PIPE REHABILITAION CIPP LINER | 18" PIPE REHABILITATION SMOOTH WALL STEEL SLIP LINER (0.5" THICK) | 24" PIPE REHABILITAION CIPP LINER | 30" PIPE REHABILITAION CIPP LINER | 36" PIPE REHABILITAION CIPP LINER | 42" PIPE REHABILITAION CIPP LINER | 42" PIPE REHABILITAION SOLID WALL THERMOPLASTIC SLIP LINER | 18" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL | 18" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY | QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) A 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 OR STD. 852.04 | C.B. STD. 852.05 | 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 | 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 | M.H. FRAME AND VENTED M.H. GRATE | ENERGY DISSIPATOR J.B. SEE DETAIL 2D-1 | SPITTER BOX SEE DETAIL 2D-4 | SPECIAL DESIGN J.B. W/ MH SEE DETAIL 2D-8 | HINGED GRATE | G.D.I. TYPE "A" EXTRA DEPTH, SEE DETAIL 2D-12 | CONVERT EXISTING D.I. TO J.B. | CONVERT EXISTING J.B. TO D.I. | ADJUST C.B. | ADJUST D.I. | 15" C.S. ELBOW | 18" C.S. ELBOW | 24" C.S. ELBOW | 30" C.S. ELBOW | 36" C.S. ELBOW | SPEC. DSN. PIPE CONNECTION, SEE DETAIL 2D-11 | BERM DITCH OUTLET STD. 850.11 (PER EACH) | PIPE CLEANOUT EA | 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 |
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