PROJECT REFERENCE NO.	SHEET NO.
U-4910B	3D-4
R/W SHEET NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BELAM

COMPUTED BY: BNE DATE: 8/16/2016

CHECKED BY: JGD DATE: 8/16/2016

PROJECT NO.	SHEET NO.
U-4910B	3D-4

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	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	C. S. PIPE SIZE 15	18	24	30	36	48	R. C. PIPE CLASS III SIZE 15	18	24	30	36	48	R. C. PIPE CLASS IV SIZE 15	18	24	30	36
								THICKNESS OR GAUGE .064	.064	.064	.079	.079	.109												
		0821	0822		700.5	700.3											80							
L 210+75	39 LT	0821		709.0																				
L 209+94	39 LT	0822		709.3																				
		0822	0823		700.3	699.6	0.3										44							
Y8 9+82	0 CL	0824			694.4	690.8											100							
L 205+00	86 LT	0825		713.0																				
		0825	0805		710.0	708.9														156				
L 220+55	41 LT	0901		719.0																				
		0901	0902		716.0	714.9														140				
L 219+15	41 LT	0902		717.9																				
		0902	0906		714.9	713.6														108				
L 218+40	40 RT	0903		717.3																				
		0903	0904		714.3	714.0														32				
L 218+10	46 RT	0904		717.0																				
		0904	0905		714.0	713.8														36				
L 218+05	7 RT	0905		717.5																				
		0905	0906		713.8	713.6														44				
L 218+05	40 LT	0906		717.0																				
		0906	0908		713.6	710.6	0.3													324				
L 214+80	40 RT	0907		713.9																				
		0907	0908		710.9	710.6														76				
L 214+80	39 LT	0908		713.9																				
		0908	0910		710.3	706.9	0.4														228			
L 212+50	40 RT	0909		710.6																				
		0909	0910		707.6	707.2														76				
L 212+50	40 LT	0910		710.6																				
		0910	0821		706.9	701.5	0.7														176			
L 214+58	67 RT	0911														24								
L 224+50	51 LT	0912		722.0																				
		0912	0914		718.7	716.7	0.5														168			
L 222+00	51 LT	0913		719.9																				
		0913	0914		716.9	716.7														80				
L 222+81	52 LT	0914		720.5																				
		0914	0916		716.7	715.9	0.8														88			
L 221+50	40 RT	0915		719.7																				
		0915	0916		716.7	716.2														136				
L 222+81	40 RT	0916		720.8																				
		0916	0917		715.9	715.5	1.3										32							
Y9 11+12	46 RT	0918														40								
L 231+00	54 LT	1001		730.0																				
		1001	1002		727.0	724.9														148				
L 229+50	54 LT	1002		727.9																				
		1002	1010		724.9	724.8														8				
L 229+40	54 LT	1010		727.8																				
		1010	1003		724.8	722.0														240				
L 227+00	59 LT	1003		725.0																				
		1003	1005		722.0	721.1	0.5													100				
L 226+00	50 RT	1004		723.9																				
		1004	1005		721.6	721.1														88				
L 226+00	39 LT	1005		724.1																				
SHEET TOTALS																64	32		224	1792	660			

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	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. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	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. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO T.B.-J.B.	ADJUST C.B.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	48" C.S. ELBOW	SPECIAL OFFSET C.B.	MINIMUM DEPTH C.B.	BERM DITCH OUTLET STD. 850.10 (PER EACH)	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
	1	3.5		1	1																								
	1	4.1		1		1																							
																													Remove Existing 24" CMP
	1			1	1																								
	1			1		1																								
	1			1		1																							
	1			1			1																						
	1			1			1																						
	1			1		1																							
	1			1		1																							
	1			1			1	1		1	1																		
	1			1		1																							
	1			1		1																							
	1			1			1																			1				Minimum Depth Catch Basin, See Detail Sheet 2C-5
	1			1		1																							
	24	7.6		22	2	13	8	1		1	1															1			

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINUM 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

REVISIONS

Revisions:

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