COMPUTED BY: BNE DATE: 2/22/2017

CHECKED BY: JGD DATE: 2/22/2017

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2707C	3D-8

BELAM

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

STATION	LOCATION (LT, RT, OR CL)*	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	MIN. REQUIRED SLOPE %	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE SIZE 12"	15"	18"	24"	30"	36"	42"	48"	THICKNESS OR GAUGE .064	.064	.064	.064	.079	.079	.109	.109
31+08 -Y9-	LT	3202		944.0																															
		3202	3203		941.8	939.5																													
30+73 -Y9-	LT	3203		943.3																															
		3203	3206		939.2	939.1																													
31+20 -Y9-	LT	3204		943.0																															
		3204	3205		939.8	939.7																													
30+90 -Y9-	LT	3205		942.9																															
		3205	3206		939.7	939.3																													
30+73 -Y9-	LT	3206		942.8																															
		3206	3207		939.1	938.5																													
30+73 -Y9-	RT	3207		941.8																															
		3207	3208		938.5	938.1																													
31+50 -Y9-	RT	3208		941.6																															
		3208	3214		938.1	934.4																													
33+50 -Y9-	LT	3209		944.7																															
		3209	3210		941.5	939.5																													
32+46 -Y9-	LT	3210		942.7																															
		3210	3211		939.5	938.6																													
32+26 -Y9-	LT	3211		945.0																															
		3211	3212		937.9	933.9																													
32+26 -Y9-	RT	3212		942.9																															
		3212	3214		933.9	933.9																													
34+00 -Y9-	RT	3213		944.9																															
		3213	3212		938.8	935.3																													
32+26 -Y9-	RT	3214		942.3																															
		3214	3215		933.9	930.9				60																									
13+78 -Y8REV-	LT	3215						40																											
20+50 -Y9-	RT	1638		943.1																															
		1638	1639		940.1	938.6																													
18+65 -Y9-	RT	1639		941.6																															
		1639	1641		938.6	937.6																													
20+50 -Y9-	LT	1640		943.0																															
		1640	1641		940.0	937.6																													
18+65 -Y9-	LT	1641		940.6																															
		1641	1645		937.3	937.0																													
17+50 -Y9-	RT	1642		941.8																															
		1642	1643		938.8	938.5																													
16+55 -Y9-	RT	1643		942.6																															
		1643	1644		938.2	937.9																													
12+93 -Y9-	RT	3101		946.0																															
		3101	3102		943.8	942.9		12																											
12+93 -Y9-	RT	3102		945.9																															
		3102	3104		942.9	940.6																													
15+50 -Y9-	RT	3103		943.0																															
SHEET TOTALS								52		60																									

| STATION | 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" | 24" R.C. PIPE (CLASS V) | 30" R.C. PIPE (CLASS V) | 36" R.C. PIPE (CLASS V) | 42" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES *TOTALL.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL."B") PER EACH (0' THRU 5.0') | LIN. FT. A 5.0' THRU 10.0' | B 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | CONCRETE TRANSITIONAL SECTION DROP INLET | CATCH BASIN | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 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. SAG) FRAME W/ 2 GRATES STD. 840.24 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | T.B.D.I. STD. 840.35 | T.B.J.B. STD. 840.34 | J.B. STD. 840.31 OR 840.32 | M.H. FRAME AND COVER STD. 840.54 | CONVERT EXISTING C.B. TO T.B.J.B. | 1" STEEL COVER | CONCRETE ENDWALL AND SLUICE GATE STD. 838.02 | 8" SLUICE GATE | 15" SIDE DRAIN PIPE ELBOW | 18" SIDE DRAIN PIPE ELBOW | 24" SIDE DRAIN PIPE ELBOW | 30" SIDE DRAIN PIPE ELBOW | 36" SIDE DRAIN PIPE ELBOW | BERM DITCH OUTLET STD. 850.10 | BERM DITCH OUTLET STD. 850.11 | CONCRETE AND BRICK PIPE PLUG STD. 840.71 | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---