

SINGLE 5'-0" X 3'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	502A @ 12"	403A @ 6"	404A @ 6"	503A @ 6"	504A @ 6"			
BAR C	414 @ 6"	414 @ 6"	504 @ 6"	601 @ 6"	602 @ 6"			
BAR E	403 @ 12"	403 @ 12"	404 @ 12"	404 @ 12"	405 @ 12"			
BAR G IN 2 SLABS	18 - 401	18 - 401	20 - 401	20 - 401	20 - 401			
BAR H IN 2 WALLS	10 - 402	10 - 402	10 - 402	10 - 402	10 - 402			
BAR J IN EXT. CORNER	0	0	3-403B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
T ₁	8"	8"	9"	9"	10"			
T ₂	9"	9"	10"	10"	11"			
T ₃	8"	8"	9"	9"	10"			
X	6'-4"	6'-4"	6'-6"	6'-6"	6'-8"			
Y	4'-5"	4'-5"	4'-7"	4'-7"	4'-9"			
YD³CLASS AA CONCRETE/FT	0.490	0.490	0.557	0.557	0.627			
LB BAR REINF STEEL/FT	60.6	66.4	91.7	122.7	126.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	2.3	2.3	2.4	2.4	2.5			
LB BAR REINF STEEL	432	432	453	453	455			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	2.4	2.4	2.5	2.5	2.6			
LB BAR REINF STEEL	536	536	560	560	564			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	2.7	2.7	2.8	2.8	2.9			
LB BAR REINF STEEL	569	569	593	593	598			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.3	3.3	3.5	3.5	3.6			
LB BAR REINF STEEL	659	659	685	685	691			

SINGLE 5'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	507A @ 12"	410A @ 6"	411A @ 6"	411A @ 6"	510A @ 6"			
BAR C	414 @ 6"	414 @ 6"	504 @ 6"	601 @ 6"	602 @ 6"			
BAR E	408 @ 12"	408 @ 12"	409 @ 12"	409 @ 12"	410 @ 12"			
BAR G IN 2 SLABS	18 - 401	18 - 401	20 - 401	20 - 401	20 - 401			
BAR H IN 2 WALLS	12 - 402	12 - 402	12 - 402	12 - 402	12 - 402			
BAR J IN EXT. CORNER	0	0	3-403B @ 5"	4-403B @ 5"	4-407B @ 5¾"			
T ₁	8"	8"	9"	9"	10"			
T ₂	9"	9"	10"	10"	11"			
T ₃	8"	8"	9"	9"	10"			
X	6'-4"	6'-4"	6'-6"	6'-6"	6'-8"			
Y	5'-5"	5'-5"	5'-7"	5'-7"	5'-9"			
YD³CLASS AA CONCRETE/FT	0.539	0.539	0.613	0.613	0.688			
LB BAR REINF STEEL/FT	67.4	74.4	99.7	115.4	137.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	2.6	2.6	2.7	2.7	2.8			
LB BAR REINF STEEL	461	461	483	483	485			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	2.7	2.7	2.8	2.8	2.9			
LB BAR REINF STEEL	567	567	591	591	595			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.0	3.0	3.2	3.2	3.3			
LB BAR REINF STEEL	599	599	624	624	629			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.8	3.8	3.9	3.9	4.1			
LB BAR REINF STEEL	690	690	717	717	723			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
		REVISION	STANDARD REINFORCED CONCRETE SINGLE BOX CULVERT 5'X3' AND 5'X'4'		
			NO SCALE		SEPTEMBER 2017
	BY	DES. YSK. DRW. FGS. TRA. _____ CHK. JWB	(SUBMITTED) <i>B. A. Stone</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. Pivelo</i> CHIEF ENGINEER	NUMBER 2401 SHEET 2-B OF 3	