

SINGLE 6'-0" X 3'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	406A @ 6"	409A @ 6"	506A @ 6"	508A @ 6"	509A @ 6"			
BAR C	505 @ 6"	506 @ 6"	507 @ 6"	605 @ 6"	606 @ 6"			
BAR E	403 @ 12"	404 @ 12"	405 @ 12"	406 @ 12"	407 @ 12"			
BAR G IN 2 SLABS	22 - 40I	22 - 40I	22 - 40I	22 - 40I	24 - 40I			
BAR H IN 2 WALLS	10 - 402	10 - 402	10 - 402	10 - 402	10 - 402			
BAR J IN EXT. CORNER	0	0	3-407B @ 5¾"	3-409B @ 6¼"	4-410B @ 7"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	7'-4"	7'-6"	7'-8"	7'-10"	8'-0"			
Y	4'-5"	4'-7"	4'-9"	4'-11"	5'-1"			
YD³CLASS AA CONCRETE/FT	0.542	0.616	0.691	0.769	0.849			
LB BAR REINF STEEL/FT	84.9	86.7	119.6	136.4	146.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	2.6	2.7	2.8	2.9	3.0			
LB BAR REINF STEEL	492	494	496	498	519			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	2.7	2.8	2.9	3.0	3.1			
LB BAR REINF STEEL	610	614	618	623	645			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.0	3.1	3.3	3.4	3.5			
LB BAR REINF STEEL	646	651	656	661	684			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.8	3.9	4.1	4.2	4.3			
LB BAR REINF STEEL	745	751	758	764	789			

SINGLE 6'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	412A @ 6"	414A @ 6"	416A @ 6"	512A @ 6"	515A @ 6"			
BAR C	505 @ 6"	506 @ 6"	507 @ 6"	605 @ 6"	606 @ 6"			
BAR E	408 @ 12"	409 @ 12"	410 @ 12"	411 @ 12"	412 @ 12"			
BAR G IN 2 SLABS	22 - 40I	22 - 40I	22 - 40I	22 - 40I	24 - 40I			
BAR H IN 2 WALLS	12 - 402	12 - 402	12 - 402	12 - 402	12 - 402			
BAR J IN EXT. CORNER	2-401B @ 4½"	0	3-406B @ 5¾"	3-409B @ 6¼"	4-410B @ 7"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	7'-4"	7'-6"	7'-8"	7'-10"	8'-0"			
Y	5'-5"	5'-7"	5'-9"	5'-11"	6'-1"			
YD³CLASS AA CONCRETE/FT	0.592	0.671	0.753	0.837	0.923			
LB BAR REINF STEEL/FT	101.2	94.7	110.4	147.4	157.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	2.9	3.1	3.2	3.3	3.4			
LB BAR REINF STEEL	522	525	527	529	550			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.1	3.2	3.3	3.4	3.6			
LB BAR REINF STEEL	641	645	650	654	677			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.4	3.6	3.7	3.8	4.0			
LB BAR REINF STEEL	677	682	687	692	716			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.3	4.4	4.6	4.8	4.9			
LB BAR REINF STEEL	777	784	790	797	822			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
		REVISION	STANDARD REINFORCED CONCRETE SINGLE BOX CULVERT 6'X3' AND 6'X4' NO SCALE SEPTEMBER 2017		
	BY	DES. YSK DRW. FGS TRA. CHK. JWB	(SUBMITTED) (APPROVED)	STATE DESIGN POLICY ENGINEER Margaret B. Pivelo CHIEF ENGINEER	NUMBER 2401 SHEET 2-D OF 3