

DOUBLE 8'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	509A @ 12"	421A @ 6"	426A @ 6"	511A @ 6"	514A @ 6"			
BAR B	457 @ 6"	547 @ 6"	622 @ 6"	717 @ 6"	715 @ 6"			
BAR C	478 @ 6"	479 @ 6"	569 @ 6"	640 @ 6"	641 @ 6"			
BAR E	418 @ 12"	419 @ 12"	420 @ 12"	421 @ 12"	422 @ 12"			
BAR F	418 @ 12"	419 @ 12"	420 @ 12"	421 @ 12"	422 @ 12"			
BAR G IN 2 SLABS	56 - 401	56 - 401	56 - 401	56 - 401	56 - 401			
BAR H IN 3 WALLS	18 - 402	18 - 402	18 - 402	18 - 402	18 - 402			
BAR J IN EXT. CORNER	0	0	0	0	3-424B @ 10"			
BAR J IN INT. CORNER	0	0	3-420B @ 8½"	4-423B @ 9"	4-426B @ 9½"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	19'-0"	19'-2"	19'-4"	19'-6"	19'-8"			
Y	6'-1"	6'-3"	6'-5"	6'-7"	6'-9"			
YD³ CLASS AA CONCRETE/FT	1.929	2.085	2.243	2.403	2.565			
LB BAR REINF STEEL/FT	172.4	196.0	262.5	349.8	369.4			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.7	7.9	8.0	8.2	8.3			
LB BAR REINF STEEL	1099	1099	1099	1099	1099			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.0	8.2	8.3	8.5	8.6			
LB BAR REINF STEEL	1373	1375	1377	1379	1381			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.9	9.1	9.3	9.5	9.6			
LB BAR REINF STEEL	1456	1459	1462	1465	1467			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	11.0	11.2	11.4	11.7	11.9			
LB BAR REINF STEEL	1658	1663	1667	1671	1675			

DOUBLE 8'-0" X 5'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	517A @ 12"	436A @ 6"	440A @ 6"	705A @ 12"	526A @ 6"			
BAR B	456 @ 6"	546 @ 6"	621 @ 6"	710 @ 6"	715 @ 6"			
BAR C	478 @ 6"	479 @ 6"	569 @ 6"	640 @ 6"	641 @ 6"			
BAR E	425 @ 12"	426 @ 12"	428 @ 12"	429 @ 12"	431 @ 12"			
BAR F	425 @ 12"	426 @ 12"	428 @ 12"	429 @ 12"	431 @ 12"			
BAR G IN 2 SLABS	56 - 401	56 - 401	56 - 401	56 - 401	56 - 401			
BAR H IN 3 WALLS	20 - 402	20 - 402	20 - 402	20 - 402	20 - 402			
BAR J IN EXT. CORNER	0	0	0	0	3-424B @ 10"			
BAR J IN INT. CORNER	0	0	3-420B @ 8½"	4-423B @ 9"	4-426B @ 9¼"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	19'-0"	19'-2"	19'-4"	19'-6"	19'-8"			
Y	7'-1"	7'-3"	7'-5"	7'-7"	7'-9"			
YD³ CLASS AA CONCRETE/FT	2.040	2.202	2.366	2.532	2.701			
LB BAR REINF STEEL/FT	179.7	205.1	271.3	355.3	381.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.9	8.1	8.2	8.4	8.6			
LB BAR REINF STEEL	1123	1123	1123	1123	1123			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.2	8.4	8.6	8.7	8.9			
LB BAR REINF STEEL	1398	1400	1402	1404	1406			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	9.2	9.4	9.6	9.8	10.0			
LB BAR REINF STEEL	1481	1484	1487	1490	1492			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	11.3	11.6	11.8	12.0	12.3			
LB BAR REINF STEEL	1684	1688	1693	1697	1701			

DOUBLE 8'-0" X 6'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	529A @ 12"	451A @ 6"	453A @ 6"	707A @ 12"	533A @ 6"			
BAR B	455 @ 6"	545 @ 6"	620 @ 6"	708 @ 6"	715 @ 6"			
BAR C	478 @ 6"	479 @ 6"	569 @ 6"	640 @ 6"	641 @ 6"			
BAR E	434 @ 12"	436 @ 12"	437 @ 12"	438 @ 12"	440 @ 12"			
BAR F	434 @ 12"	436 @ 12"	437 @ 12"	438 @ 12"	440 @ 12"			
BAR G IN 2 SLABS	56 - 401	56 - 401	56 - 401	56 - 401	56 - 401			
BAR H IN 3 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402			
BAR J IN EXT. CORNER	0	0	0	0	3-424B @ 10"			
BAR J IN INT. CORNER	0	0	4-420B @ 8½"	4-423B @ 9"	5-426B @ 9"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	19'-0"	19'-2"	19'-4"	19'-6"	19'-8"			
Y	8'-1"	8'-3"	8'-5"	8'-7"	8'-9"			
YD³ CLASS AA CONCRETE/FT	2.151	2.319	2.490	2.662	2.836			
LB BAR REINF STEEL/FT	190.8	216.8	288.3	369.5	402.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.2	8.3	8.5	8.7	8.8			
LB BAR REINF STEEL	1173	1173	1173	1173	1173			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.5	8.7	8.8	9.0	9.2			
LB BAR REINF STEEL	1449	1451	1453	1455	1458			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	9.5	9.7	9.9	10.1	10.3			
LB BAR REINF STEEL	1534	1536	1539	1542	1545			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	11.6	11.9	12.1	12.4	12.6			
LB BAR REINF STEEL	1739	1743	1747	1751	1756			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	STANDARD REINFORCED CONCRETE DOUBLE BOX CULVERT 8'X4', 8'X5' AND 8'X6' NO SCALE SEPTEMBER 2017	
	BY	DES. YSK DRW. FGS. TRA. <u> </u> CHK. <u> JWB </u>	(SUBMITTED) <i>B. A. Stone</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. Pivelo</i> CHIEF ENGINEER	NUMBER 2402 SHEET 2-H OF 3