

SINGLE 7'-0" X 5'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	428A @ 6"	430A @ 6"	525A @ 6"	527A @ 6"	603A @ 6"			
BAR C	510 @ 6"	511 @ 6"	608 @ 6"	703 @ 6"	704 @ 6"			
BAR E	415 @ 12"	416 @ 12"	417 @ 12"	418 @ 12"	419 @ 12"			
BAR G IN 2 SLABS	24 - 40I	24 - 40I	24 - 40I	24 - 40I	24 - 40I			
BAR H IN 2 WALLS	14 - 402	14 - 402	14 - 402	14 - 402	14 - 402			
BAR J IN EXT. CORNER	2-403B @ 5"	0	3-409B @ 6¼"	4-410B @ 6¾"	4-411B @ 7½"			
T ₁	9"	10"	11"	12"	13"			
T ₂	10"	11"	12"	13"	14"			
T ₃	9"	10"	11"	12"	13"			
X	8'-6"	8'-8"	8'-10"	9'-0"	9'-2"			
Y	6'-7"	6'-9"	6'-11"	7'-1"	7'-3"			
YD³CLASS AA CONCRETE/FT	0.785	0.880	0.976	1.074	1.174			
LB BAR REINF STEEL/FT	119.7	112.7	169.9	197.1	233.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.5	3.6	3.8	3.9	4.1			
LB BAR REINF STEEL	589	591	593	595	597			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.7	3.8	4.0	4.1	4.2			
LB BAR REINF STEEL	724	728	732	736	740			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.1	4.3	4.4	4.6	4.7			
LB BAR REINF STEEL	765	770	774	779	784			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	5.1	5.3	5.5	5.7	5.9			
LB BAR REINF STEEL	876	882	888	894	901			

SINGLE 7'-0" X 6'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	437A @ 6"	440A @ 6"	534A @ 6"	538A @ 6"	607A @ 6"			
BAR C	510 @ 6"	511 @ 6"	608 @ 6"	703 @ 6"	704 @ 6"			
BAR E	421 @ 12"	422 @ 12"	423 @ 12"	424 @ 12"	425 @ 12"			
BAR G IN 2 SLABS	24 - 40I	24 - 40I	24 - 40I	24 - 40I	24 - 40I			
BAR H IN 2 WALLS	18 - 402	18 - 402	18 - 402	18 - 402	18 - 402			
BAR J IN EXT. CORNER	2-403B @ 5"	2-406B @ 5¾"	3-409B @ 6¼"	4-410B @ 6¾"	4-411B @ 7½"			
T ₁	9"	10"	11"	12"	13"			
T ₂	10"	11"	12"	13"	14"			
T ₃	9"	10"	11"	12"	13"			
X	8'-6"	8'-8"	8'-10"	9'-0"	9'-2"			
Y	7'-7"	7'-9"	7'-11"	8'-1"	8'-3"			
YD³CLASS AA CONCRETE/FT	0.841	0.941	1.044	1.148	1.255			
LB BAR REINF STEEL/FT	129.0	131.3	182.3	209.4	249.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.6	3.8	3.9	4.1	4.2			
LB BAR REINF STEEL	637	639	641	643	645			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.8	3.9	4.1	4.3	4.4			
LB BAR REINF STEEL	773	777	781	785	789			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.2	4.4	4.6	4.7	4.9			
LB BAR REINF STEEL	815	819	824	829	834			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	5.3	5.5	5.7	5.9	6.1			
LB BAR REINF STEEL	927	933	939	946	952			

SINGLE 7'-0" X 7'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	445A @ 6"	448A @ 6"	545A @ 6"	548A @ 6"	613A @ 6"			
BAR C	510 @ 6"	511 @ 6"	608 @ 6"	703 @ 6"	704 @ 6"			
BAR E	427 @ 12"	428 @ 12"	429 @ 12"	513 @ 12"	514 @ 12"			
BAR G IN 2 SLABS	24 - 40I	24 - 40I	24 - 40I	24 - 40I	24 - 40I			
BAR H IN 2 WALLS	20 - 402	20 - 402	20 - 402	20 - 402	20 - 402			
BAR J IN EXT. CORNER	2-403B @ 5"	2-406B @ 5¾"	3-409B @ 6¼"	4-410B @ 6¾"	4-411B @ 7½"			
T ₁	9"	10"	11"	12"	13"			
T ₂	10"	11"	12"	13"	14"			
T ₃	9"	10"	11"	12"	13"			
X	8'-6"	8'-8"	8'-10"	9'-0"	9'-2"			
Y	8'-7"	8'-9"	8'-11"	9'-1"	9'-3"			
YD³CLASS AA CONCRETE/FT	0.897	1.003	1.112	1.222	1.335			
LB BAR REINF STEEL/FT	137.1	139.3	193.3	227.0	270.5			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.8	3.9	4.1	4.2	4.4			
LB BAR REINF STEEL	662	664	666	668	670			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.9	4.1	4.3	4.4	4.6			
LB BAR REINF STEEL	798	802	806	810	815			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.4	4.6	4.8	4.9	5.1			
LB BAR REINF STEEL	840	845	850	855	859			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	5.4	5.7	5.9	6.1	6.4			
LB BAR REINF STEEL	953	959	966	972	978			

SINGLE 7'-0" X 8'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	466A @ 6"	555A @ 6"	557A @ 6"	559A @ 6"	621A @ 6"			
BAR C	607 @ 6"	511 @ 6"	608 @ 6"	703 @ 6"	704 @ 6"			
BAR E	516 @ 12"	517 @ 12"	518 @ 12"	436 @ 6"	437 @ 6"			
BAR G IN 2 SLABS	24 - 40I	24 - 40I	24 - 40I	24 - 40I	24 - 40I			
BAR H IN 2 WALLS	22 - 402	22 - 402	22 - 402	22 - 402	22 - 402			
BAR J IN EXT. CORNER	2-403B @ 5"	0	3-409B @ 6¼"	4-410B @ 6¾"	4-411B @ 7½"			
T ₁	9"	10"	11"	12"	13"			
T ₂	10"	11"	12"	13"	14"			
T ₃	9"	10"	11"	12"	13"			
X	8'-6"	8'-8"	8'-10"	9'-0"	9'-2"			
Y	9'-7"	9'-9"	9'-11"	10'-1"	10'-3"			
YD³CLASS AA CONCRETE/FT	0.952	1.065	1.180	1.296	1.415			
LB BAR REINF STEEL/FT	174.5	178.8	211.4	244.4	291.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.9	4.1	4.3	4.4	4.6			
LB BAR REINF STEEL	687	689	691	693	695			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.1	4.3	4.5	4.6	4.8			
LB BAR REINF STEEL	824	828	832	836	840			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.6	4.8	5.0	5.2	5.4			
LB BAR REINF STEEL	866	871	876	881	886			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	5.7	5.9	6.2	6.4	6.7			
LB BAR REINF STEEL	980	986	992	999	1005			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	STANDARD REINFORCED CONCRETE SINGLE BOX CULVERT 7'X5', 7'X6', 7'X7' AND 7'X8' NO SCALE SEPTEMBER 2017	
	BY	DES. YSK. DRW. EGS. TRA. _____ CHK. JWB.	(SUBMITTED) <i>B. A. H.</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. Pucke</i> CHIEF ENGINEER	NUMBER 2401 SHEET 2-G OF 3