

TRIPLE 9'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	513A @ 12"	434A @ 6"	701A @ 12"	516A @ 6"	601A @ 6"			
BAR B	494 @ 6"	591 @ 6"	644 @ 6"	648 @ 6"	728 @ 6"			
BAR C	450 @ 6"	709 @ 12"	543 @ 6"	609 @ 6"	610 @ 6"			
BAR D	539 @ 12"	449 @ 6"	449 @ 6"	707 @ 12"	539 @ 6"			
BAR E	414 @ 12"	415 @ 12"	416 @ 12"	418 @ 12"	419 @ 12"			
BAR F	414 @ 12"	415 @ 12"	416 @ 12"	418 @ 12"	419 @ 12"			
BAR G IN 2 SLABS	96 - 401	96 - 401	96 - 401	96 - 401	96 - 401			
BAR H IN 4 WALLS	24 - 402	24 - 402	24 - 402	24 - 402	24 - 402			
BAR J IN EXT. CORNER	0	0	0	0	3-427B @ 11½"			
BAR J IN INT. CORNER	0	0	3-422B @ 10¼"	4-425B @ 11"	4-428B @ 11¼"			
T ₁	14"	15"	16"	17"	18"			
T ₂	15"	16"	17"	18"	19"			
T ₃	14"	15"	16"	17"	18"			
X	31'-4"	31'-6"	31'-8"	31'-10"	32'-0"			
Y	6'-5"	6'-7"	6'-9"	6'-11"	7'-1"			
YD³CLASS AA CONCRETE/FT	3,474	3,708	3,944	4,183	4,423			
LB BAR REINF STEEL/FT	275.1	354.1	454.0	529.1	629.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	12.7	12.9	13.1	13.2	13.4			
LB BAR REINF STEEL	1743	1740	1738	1735	1733			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	13.2	13.4	13.6	13.8	13.9			
LB BAR REINF STEEL	2181	2180	2180	2180	2179			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	14.7	14.9	15.1	15.3	15.6			
LB BAR REINF STEEL	2314	2314	2314	2315	2315			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	18.1	18.3	18.6	18.9	19.1			
LB BAR REINF STEEL	2624	2626	2627	2629	2631			

TRIPLE 9'-0" X 5'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	524A @ 12"	445A @ 6"	703A @ 12"	529A @ 6"	532A @ 6"			
BAR B	493 @ 6"	591 @ 6"	645 @ 6"	648 @ 6"	728 @ 6"			
BAR C	450 @ 6"	709 @ 12"	543 @ 6"	609 @ 6"	610 @ 6"			
BAR D	539 @ 12"	449 @ 6"	449 @ 6"	707 @ 12"	539 @ 6"			
BAR E	421 @ 12"	422 @ 12"	423 @ 12"	425 @ 12"	426 @ 12"			
BAR F	421 @ 12"	422 @ 12"	423 @ 12"	425 @ 12"	426 @ 12"			
BAR G IN 2 SLABS	96 - 401	96 - 401	96 - 401	96 - 401	96 - 401			
BAR H IN 4 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402			
BAR J IN EXT. CORNER	0	0	0	0	3-426B @ 11½"			
BAR J IN INT. CORNER	0	0	3-422B @ 10¼"	4-425B @ 11"	4-428B @ 11"			
T ₁	14"	15"	16"	17"	18"			
T ₂	15"	16"	17"	18"	19"			
T ₃	14"	15"	16"	17"	18"			
X	31'-4"	31'-6"	31'-8"	31'-10"	32'-0"			
Y	7'-5"	7'-7"	7'-9"	7'-11"	8'-1"			
YD³CLASS AA CONCRETE/FT	3,635	3,875	4,117	4,362	4,608			
LB BAR REINF STEEL/FT	284.1	364.8	467.8	542.8	613.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	13.0	13.2	13.4	13.6	13.8			
LB BAR REINF STEEL	1767	1764	1762	1759	1757			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	13.5	13.7	13.9	14.1	14.3			
LB BAR REINF STEEL	2205	2205	2205	2204	2204			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	15.1	15.3	15.5	15.8	16.0			
LB BAR REINF STEEL	2339	2339	2339	2340	2340			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	18.6	18.8	19.1	19.4	19.6			
LB BAR REINF STEEL	2649	2651	2653	2655	2656			

TRIPLE 9'-0" X 6'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	534A @ 12"	456A @ 6"	458A @ 6"	543A @ 6"	545A @ 6"			
BAR B	492 @ 6"	590 @ 6"	648 @ 6"	647 @ 6"	728 @ 6"			
BAR C	450 @ 6"	542 @ 6"	543 @ 6"	609 @ 6"	710 @ 6"			
BAR D	539 @ 12"	449 @ 6"	449 @ 6"	707 @ 12"	539 @ 6"			
BAR E	428 @ 12"	429 @ 12"	430 @ 12"	431 @ 12"	433 @ 12"			
BAR F	428 @ 12"	429 @ 12"	430 @ 12"	431 @ 12"	433 @ 12"			
BAR G IN 2 SLABS	96 - 401	96 - 401	96 - 401	96 - 401	96 - 401			
BAR H IN 4 WALLS	34 - 402	34 - 402	34 - 402	34 - 402	34 - 402			
BAR J IN EXT. CORNER	0	0	0	0	3-426B @ 11½"			
BAR J IN INT. CORNER	0	0	3-422B @ 10¼"	4-425B @ 11"	4-428B @ 11½"			
T ₁	14"	15"	16"	17"	18"			
T ₂	15"	16"	17"	18"	19"			
T ₃	14"	15"	16"	17"	18"			
X	31'-4"	31'-6"	31'-8"	31'-10"	32'-0"			
Y	8'-5"	8'-7"	8'-9"	8'-11"	9'-1"			
YD³CLASS AA CONCRETE/FT	3,795	4,042	4,290	4,541	4,793			
LB BAR REINF STEEL/FT	296.9	381.1	459.9	560.2	680.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	13.4	13.6	13.8	14.0	14.2			
LB BAR REINF STEEL	1818	1816	1813	1811	1808			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	13.9	14.1	14.3	14.5	14.7			
LB BAR REINF STEEL	2259	2259	2259	2258	2258			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	15.5	15.7	15.9	16.2	16.4			
LB BAR REINF STEEL	2394	2394	2394	2395	2395			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	19.0	19.3	19.6	19.9	20.2			
LB BAR REINF STEEL	2707	2709	2711	2713	2714			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	STANDARD REINFORCED CONCRETE TRIPLE BOX CULVERT 9'X4', 9'X5' AND 9'X6' NO SCALE SEPTEMBER 2017	
	BY	DES. YSK DRW. EGS TRA. _____ CHK. JWB	(SUBMITTED) <i>B. A. Ste...</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. Pivelo</i> CHIEF ENGINEER	NUMBER 2403 SHEET 2-J OF 3