STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TRIPLE 10'-0" X 5'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	450A @ 6"	449A @ 6"	531A @ 6"	538A @ 6"	603A @ 6"			
BAR B	496 @ 6"	597 @ 6"	657 @ 6"	655 @ 6"	739 @ 6"			
BAR C	712 @ 12"	553 @ 6"	611 @ 6"	612 @ 6"	613 @ 6"			
BAR D	455 @ 6"	455 @ 6"	455 @ 6"	711 @ 12"	711 @ 12"			
BAR E	421 @ 12"	423 @ 12"	426 @ 12"	428 @ 12"	430 @ 12"			
BAR F	512 @ 12"	423 @ 12"	426 @ 12"	428 @ 12"	430 @ 12"			
BAR G IN 2 SLABS	96 - 401	102 - 401	102 - 401	120 - 401	120 - 401			
BAR H IN 4 WALLS	26 - 402	26 - 402	26 - 402	32 - 402	32 - 402			
BAR J IN EXT. CORNER	0	0	0	0	0			
BAR J IN INT. CORNER	0	0	3-427B @ 11¾"	3-429B @ 13½"	4-432B @ 14¾"			
T_1	14"	16"	18"	20"	22"			
T_2	15"	17"	19"	21"	23"			
T_3	14"	16"	18"	20"	22"			
X	34'-4"	34'-8"	35'-0"	35'-4"	35'-8"			
Y	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"			
YD^3 CLASS AA CONCRETE/FT	3.903	4.423	4.951	5.487	6.031			
LB BAR REINF STEEL/FT	360.6	395.9	555.8	596.5	708.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	14.1	14.5	14.9	15.3	15.7			
LB BAR REINF STEEL	1830	1879	1872	2077	2071			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	14.7	15.1	15.5	15.9	16.3			
LB BAR REINF STEEL	2308	2361	2359	2570	2568			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	16.4	16.8	17.3	17.7	18.2			
LB BAR REINF STEEL	2453	2508	2507	2720	2719			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	20.1	20.7	21.2	21.8	22.4			
LB BAR REINF STEEL	2790	2847	2849	3067	3069			

TRIPLE 10'-0" X 7'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	546A @ 12"	469A @ 6"	707A @ 12"	565A @ 6"	571A @ 6"			
BAR B	741 @ 12"	595 @ 6"	653 @ 6"	739 @ 6"	737 @ 6"			
BAR C	712 @ 12"	553 @ 6"	611 @ 6"	612 @ 6"	714 @ 6"			
BAR D	455 @ 6"	455 @ 6"	455 @ 6"	711 @ 12"	711 @ 12"			
BAR E	437 @ 12"	440 @ 12"	442 @ 12"	444 @ 12"	447 @ 12"			
BAR F	437 @ 12"	440 @ 12"	442 @ 12"	444 @ 12"	447 @ 12"			
BAR G IN 2 SLABS	96 - 401	102 - 401	102 - 401	120 - 401	120 - 401			
BAR H IN 4 WALLS	40 - 402	40 - 402	40 - 402	46 - 402	46 - 402			
BAR J IN EXT. CORNER	0	0	0	0	0			
BAR J IN INT. CORNER	0	0	3-427B @ 11¾"	3-430B @ 13"	3-432B @ 14¾"			
T_1	14"	16"	18"	20"	22"			
T_2	15"	17"	19"	21"	23"			
T_3	14"	16"	18"	20"	22"			
X	34'-4"	34'-8"	35'-0"	35'-4"	35'-8"			
Y	9'-5"	9'-9"	10'-1"	10'-5"	10'-9"			
YD^3 CLASS AA CONCRETE/FT	4.224	4.769	5.321	5.882	6.451			
LB BAR REINF STEEL/FT	399.1	423.5	585.8	683.1	744.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	14.9	15.3	15.8	16.2	16.7			
LB BAR REINF STEEL	1912	1961	1955	2160	2153			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	15.4	15.9	16.4	16.8	17.3			
LB BAR REINF STEEL	2394	2447	2445	2656	2654			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	17.2	17.7	18.3	18.8	19.3			
LB BAR REINF STEEL	2541	2596	2595	2809	2808			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	21.2	21.8	22.4	23.1	23.7			
LB BAR REINF STEEL	2882	2940	2942	3161	3163			

TRIPLE 10'-0" X 6'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	459A @ 6"	460A @ 6"	704A @ 12"	550A @ 6"	560A @ 6"			
BAR B	495 @ 6"	596 @ 6"	654 @ 6"	740 @ 6"	738 @ 6"			
BAR C	712 @ 12"	553 @ 6"	611 @ 6"	612 @ 6"	714 @ 6"			
BAR D	455 @ 6"	455 @ 6"	455 @ 6"	711 @ 12"	711 @ 12"			
BAR E	428 @ 12"	430 @ 12"	433 @ 12"	437 @ 12"	440 @ 12"			
BAR F	518 @ 12"	430 @ 12"	433 @ 12"	437 @ 12"	440 @ 12"			
BAR G IN 2 SLABS	96 - 401	102 - 401	102 - 401	120 - 401	120 - 401			
BAR H IN 4 WALLS	34 - 402	34 - 402	34 - 402	46 - 402	46 - 402			
BAR J IN EXT. CORNER	0	0	0	0	0			
BAR J IN INT. CORNER	0	0	3-427B @ 11¾"	3-430B @ 13"	3-432B @ 14¾"			
T_1	14"	16"	18"	20"	22"			
T_2	15"	17"	19"	21"	23"			
T_3	14"	16"	18"	20"	22"			
X	34'-4"	34'-8"	35'-0"	35'-4"	35'-8"			
Y	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"			
YD^3 CLASS AA CONCRETE/FT	4.064	4.596	5.136	5.684	6.241			
LB BAR REINF STEEL/FT	375.9	410.4	569.9	671.4	733.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	14.5	14.9	15.3	15.7	16.2			
LB BAR REINF STEEL	1882	1930	1924	2156	2150			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	15.0	15.4	15.9	16.3	16.8			
LB BAR REINF STEEL	2362	2415	2413	2653	2651			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	16.7	17.2	17.7	18.2	18.7			
LB BAR REINF STEEL	2508	2563	2562	2805	2805			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	20.6	21.1	21.7	22.4	23.0			
LB BAR REINF STEEL	2847	2905	2907	3157	3159			

TRIPLE 10'-0" X 8'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	564A @ 12"	473A @ 6"	709A @ 12"	574A @ 6"	576A @ 6"			
BAR B	739 @ 12"	594 @ 6"	651 @ 6"	737 @ 6"	735 @ 6"			
BAR C	712 @ 12"	553 @ 6"	611 @ 6"	612 @ 6"	714 @ 6"			
BAR D	455 @ 6"	455 @ 6"	455 @ 6"	711 @ 12"	711 @ 12"			
BAR E	444 @ 12"	447 @ 12"	449 @ 12"	451 @ 12"	453 @ 12"			
BAR F	444 @ 12"	447 @ 12"	449 @ 12"	451 @ 12"	453 @ 12"			
BAR G IN 2 SLABS	96 - 401	102 - 401	102 - 401	120 - 401	120 - 401			
BAR H IN 4 WALLS	42 - 402	42 - 402	42 - 402	60 - 402	60 - 402			
BAR J IN EXT. CORNER	0	0	0	0	0			
BAR J IN INT. CORNER	0	0	3-427B @ 11¾"	3-430B @ 13"	4-432B @ 14¾"			
T_1	14"	16"	18"	20"	22"			
T_2	15"	17"	19"	21"	23"			
T_3	14"	16"	18"	20"	22"			
X	34'-4"	34'-8"	35'-0"	35'-4"	35'-8"			
Y	10'-5"	10'-9"	11'-1"	11'-5"	11'-9"			
YD^3 CLASS AA CONCRETE/FT	4.385	4.941	5.506	6.079	6.660			
LB BAR REINF STEEL/FT	407.6	433.7	598.6	703.5	779.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	15.4	15.9	16.4	16.8	17.3			
LB BAR REINF STEEL	1941	1991	1984	2246	2239			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	16.0	16.5	17.0	17.5	18.0			
LB BAR REINF STEEL	2424	2477	2475	2746	2744			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	17.8	18.4	18.9	19.5	20.1			
LB BAR REINF STEEL	2571	2626	2626	2901	2900			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	21.9	22.6	23.2	23.9	24.6			
LB BAR REINF STEEL	2913	2971	2974	3257	3260			

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REINFORCED CONCRETE
TRIPLE BOX CULVERT
10'X5', 10'X6', 10'X7' AND 10'X8'

NO SCALE — SEPTEMBER 2017

DES. YSK
DRW. FGS
TRA. ____
CHK. JWB

(SUBMITTED) STATE DESIGN POLICY ENGINEER
(APPROVED) Margaret B Pickelo CHIEF ENGINEER

NUMBER 2403

SHEET 2-M OF 3