STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	510A @ 12"	421A @ 6"	424A @ 6"	424A @ 6"	430A @ 6"			
BAR B	462 @ 6"	453 @ 6"	453 @ 6"	547 @ 6"	546 @ 6"			
BAR C	416 @ 6"	416 @ 6"	417 @ 6"	509 @ 6"	510 @ 6"			
BAR D	511@ 12"	419 @ 6"	419 @ 6"	419 @ 6"	419 @ 6"			
BAR E	414 @ 12"	414 @ 12"	415 @ 12"	415 @ 12"	416 @ 12"			
BAR F	414 @ 12"	414 @ 12"	415 @ 12"	415 @ 12"	416 @ 12"			
BAR G IN 2 SLABS	54 - 401	54 - 401	60 - 401	60 - 401	60 - 401			
BAR H IN 4 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402			
BAR J IN EXT. CORNER	0	0	2-403B @ 5"	3-403B @ 5"	3-406B @ 5¾"			
BAR J IN INT. CORNER	0	2-401B @ 4½"	3-403B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
T_1	8"	8"	9"	9"	10"			
T_2	9"	9"	10"	10"	11"			
T_3	8"	8"	9"	9"	10"			
X	18'-4"	18'-4"	18'-6"	18'-6"	18'-8"			
Y	6'-5"	6'-5"	6'-7"	6'-7"	6'-9"			
YD^3 CLASS AA CONCRETE/FT	1.607	1.607	1.761	1.761	1.917			
LB BAR REINF STEEL/FT	188.4	210.9	235.4	284.9	289.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	7.7	7.7	7.9	7.9	8.0			
LB BAR REINF STEEL	1109	1109	1168	1168	1167			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.0	8.0	8.2	8.2	8.3			
LB BAR REINF STEEL	1376	1376	1437	1437	1439			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.9	8.9	9.1	9.1	9.3			
LB BAR REINF STEEL	1458	1458	1520	1520	1522			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	11.0	11.0	11.2	11.2	11.4			
LB BAR REINF STEEL	1657	1657	1720	1720	1724			

TRIPLE 5'-0" X 7'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	550A @ 12"	454A @ 6"	457A @ 6"	537A @ 6"	540A @ 6"			
BAR B	465 @ 6"	445 @ 6"	446 @ 6"	537 @ 6"	538 @ 6"			
BAR C	416 @ 6"	416 @ 6"	509 @ 6"	509 @ 6"	510 @ 6"			
BAR D	419 @ 6"	419 @ 6"	419 @ 6"	419 @ 6"	511@ 6"			
BAR E	518 @ 12"	518 @ 12"	519 @ 12"	429 @ 6"	602 @ 12"			
BAR F	428 @ 12"	428 @ 12"	429 @ 12"	429 @ 12"	430 @ 12"			
BAR G IN 2 SLABS	54 - 401	54 - 401	60 - 401	60 - 401	60 - 401			
BAR H IN 4 WALLS	40 - 402	40 - 402	40 - 402	40 - 402	40 - 402			
BAR J IN EXT. CORNER	0	0	3-403B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
BAR J IN INT. CORNER	0	2-401B @ 4½"	3-403B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
T_1	8"	8"	9"	9"	10"			
T_2	9"	9"	10"	10"	11"			
T_3	8"	8"	9"	9"	10"			
X	18'-4"	18'-4"	18'-6"	18'-6"	18'-8"			
Y	8'-5"	8'-5"	8'-7"	8'-7"	8'-9"			
YD^3 CLASS AA CONCRETE/FT	1.854	1.854	2.020	2.020	2.188			
LB BAR REINF STEEL/FT	231.4	244.9	293.9	356.4	375.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.3	8.3	8.4	8.4	8.6			
LB BAR REINF STEEL	1190	1190	1249	1249	1248			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.6	8.6	8.8	8.8	9.0			
LB BAR REINF STEEL	1461	1461	1522	1522	1524			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.6	9.6	9.8	9.8	10.0			
LB BAR REINF STEEL	1545	1545	1607	1607	1609			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	11.8	11.8	12.0	12.0	12.3			
LB BAR REINF STEEL	1749	1749	1812	1812	1816			

TRIPLE 5'-0" X 6'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	528A @ 12"	438A @ 6"	439A @ 6"	519A @ 6"	523A@ 6"			
BAR B	465 @ 6"	450 @ 6"	451@ 6"	539 @ 6"	538 @ 6"			
BAR C	416 @ 6"	416 @ 6"	509 @ 6"	509 @ 6"	510 @ 6"			
BAR D	419 @ 6"	419 @ 6"	419 @ 6"	419 @ 6"	511@ 6"			
BAR E	421@ 12"	512 @ 12"	513 @ 12"	513 @ 12"	514 @ 12"			
BAR F	421@ 12"	421@ 12"	422 @ 12"	422 @ 12"	423 @ 12"			
BAR G IN 2 SLABS	54-401	54-401	60-401	60-401	60-401			
BAR H IN 4 WALLS	34-402	34-402	34-402	34-402	34-402			
BAR J IN EXT. CORNER	0	0	2-403B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
BAR J IN INT. CORNER	0	2-401B @ 4½"	3-403B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
T_1	8"	8"	9"	9"	10"			
T_2	9"	9"	10"	10"	11"			
T_3	8"	8"	9"	9"	10"			
X	18'-4"	18'-4"	18'-6"	18'-6"	18'-8"			
Y	7'-5"	7'-5"	7'-7"	7'-7"	7'-9"			
YD^3 CLASS AA CONCRETE/FT	1.730	1.730	1.890	1.890	2.052			
LB BAR REINF STEEL/FT	209.7	230.8	274.7	332.4	348.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.0	8.0	8.1	8.1	8.3			
LB BAR REINF STEEL	1161	1161	1219	1219	1219			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.3	8.3	8.4	8.4	8.6			
LB BAR REINF STEEL	1430	1430	1491	1491	1493			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.2	9.2	9.4	9.4	9.6			
LB BAR REINF STEEL	1513	1513	1575	1575	1577			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	11.4	11.4	11.6	11.6	11.8			
LB BAR REINF STEEL	1715	1715	1778	1778	1782			

TRIPLE 5'-0" X 8'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	563A @ 12"	551A @ 6"	556A @ 6"	604A @ 6"	605A @ 6"			
BAR B	465 @ 6"	447 @ 6"	536 @ 6"	539 @ 6"	607 @ 6"			
BAR C	416 @ 6"	416 @ 6"	417 @ 6"	509 @ 6"	510 @ 6"			
BAR D	419 @ 6"	419 @ 6"	419 @ 6"	511@ 6"	511@ 6"			
BAR E	527 @ 12"	437 @ 6"	704 @ 12"	528 @ 6"	529 @ 6"			
BAR F	437 @ 12"	437 @ 12"	439 @ 12"	439 @ 12"	440 @ 12"			
BAR G IN 2 SLABS	54 - 401	54 - 401	60 - 401	54 - 401	60 - 401			
BAR H IN 4 WALLS	42 - 402	42 - 402	42 - 402	42 - 402	42 - 402			
BAR J IN EXT. CORNER	0	2-402B @ 4½"	3-404B @ 5"	4-405B @ 5"	4-408B @ 5¾"			
BAR J IN INT. CORNER	0	2-401B @ 4½"	3-404B @ 5"	4-404B @ 5"	4-408B @ 5¾"			
T_1	8"	8"	9"	9"	10"			
T_2	9"	9"	10"	10"	11"			
T_3	8"	8"	9"	9"	10"			
X	18'-4"	18'-4"	18'-6"	18'-6"	18'-8"			
Y	9'-5"	9'-5"	9'-7"	9'-7"	9'-9"			
YD^3 CLASS AA CONCRETE/FT	1.977	1.977	2.150	2.150	2.324			
LB BAR REINF STEEL/FT	240.9	304.9	353.7	435.9	464.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.6	8.6	8.8	8.8	9.0			
LB BAR REINF STEEL	1217	1217	1276	1217	1276			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.0	9.0	9.2	9.2	9.4			
LB BAR REINF STEEL	1488	1488	1550	1491	1551			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	10.0	10.0	10.2	10.2	10.4			
LB BAR REINF STEEL	1573	1573	1635	1576	1637			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	12.3	12.3	12.6	12.6	12.8			
LB BAR REINF STEEL	1778	1778	1841	1782	1845			

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REINFORCED CONCRETE
TRIPLE BOX CULVERT
5'X5', 5'X6', 5'X7' AND 5'X8'

NO SCALE — SEPTEMBER 2017

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

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

NUMBER 2403
SHEET 2-C OF 3