

STATE

GA.

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS

TRIPLE 4'-0" X 3'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	404A @ 12"	501A @ 12"	401A @ 6"	401A @ 6"	405A @ 6"			
BAR B	540 @ 12"	526 @ 12"	438 @ 6"	438 @ 6"	439 @ 6"			
BAR C	504 @ 12"	410 @ 6"	410 @ 6"	504 @ 6"	505 @ 6"			
BAR D	506 @ 12"	506 @ 12"	412 @ 6"	412 @ 6"	412 @ 6"			
BAR E	403 @ 12"	403 @ 12"	403 @ 12"	403 @ 12"	404 @ 12"			
BAR F	403 @ 12"	403 @ 12"	403 @ 12"	403 @ 12"	404 @ 12"			
BAR G IN 2 SLABS	48 - 401	48 - 401	48 - 401	48 - 401	48 - 401			
BAR H IN 4 WALLS	18 - 402	18 - 402	18 - 402	18 - 402	18 - 402			
BAR J IN EXT. CORNER	0	0	0	3-401B @ 4½"	3-403B @ 5"			
BAR J IN INT. CORNER	0	0	3-401B @ 4½"	4-401B @ 4½"	4-403B @ 5"			
T ₁	8"	8"	8"	8"	9"			
T ₂	9"	9"	9"	9"	10"			
T ₃	8"	8"	8"	8"	9"			
X	15'-4"	15'-4"	15'-4"	15'-4"	15'-6"			
Y	4'-5"	4'-5"	4'-5"	4'-5"	4'-7"			
YD³ CLASS AA CONCRETE/FT	1,203	1,203	1,203	1,203	1,326			
LB BAR REINF STEEL/FT	128.2	137.1	175.4	212.2	217.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.6	5.6	5.6	5.6	5.7			
LB BAR REINF STEEL	918	918	918	918	919			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.9	5.9	5.9	5.9	6.0			
LB BAR REINF STEEL	1144	1144	1144	1144	1146			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.5	6.5	6.5	6.5	6.7			
LB BAR REINF STEEL	1213	1213	1213	1213	1216			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.1	8.1	8.1	8.1	8.2			
LB BAR REINF STEEL	1384	1384	1384	1384	1388			

TRIPLE 4'-0" X 4'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	416A @ 12"	504A @ 12"	411A @ 6"	411A @ 6"	412A @ 6"			
BAR B	544 @ 12"	526 @ 12"	434 @ 6"	436 @ 6"	439 @ 6"			
BAR C	504 @ 12"	410 @ 6"	410 @ 6"	504 @ 6"	505 @ 6"			
BAR D	506 @ 12"	506 @ 12"	412 @ 6"	412 @ 6"	412 @ 6"			
BAR E	408 @ 12"	408 @ 12"	408 @ 12"	408 @ 12"	409 @ 12"			
BAR F	408 @ 12"	408 @ 12"	408 @ 12"	408 @ 12"	409 @ 12"			
BAR G IN 2 SLABS	48 - 401	48 - 401	48 - 401	48 - 401	48 - 401			
BAR H IN 4 WALLS	24 - 402	24 - 402	24 - 402	24 - 402	24 - 402			
BAR J IN EXT. CORNER	0	0	0	3-401B @ 4½"	3-403B @ 5"			
BAR J IN INT. CORNER	0	0	3-401B @ 4½"	4-401B @ 4½"	4-403B @ 5"			
T ₁	8"	8"	8"	8"	9"			
T ₂	9"	9"	9"	9"	10"			
T ₃	8"	8"	8"	8"	9"			
X	15'-4"	15'-4"	15'-4"	15'-4"	15'-6"			
Y	5'-5"	5'-5"	5'-5"	5'-5"	5'-7"			
YD³ CLASS AA CONCRETE/FT	1,326	1,326	1,326	1,326	1,455			
LB BAR REINF STEEL/FT	140.5	150.0	188.7	226.0	231.0			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.4	6.4	6.4	6.4	6.5			
LB BAR REINF STEEL	961	961	961	961	961			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.7	6.7	6.7	6.7	6.8			
LB BAR REINF STEEL	1188	1188	1188	1188	1190			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.4	7.4	7.4	7.4	7.6			
LB BAR REINF STEEL	1258	1258	1258	1258	1261			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	9.2	9.2	9.2	9.2	9.4			
LB BAR REINF STEEL	1431	1431	1431	1431	1435			

TRIPLE 4'-0" X 5'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	432A @ 12"	508A @ 12"	421A @ 6"	422A @ 6"	426A @ 6"			
BAR B	552 @ 12"	526 @ 12"	432 @ 6"	436 @ 6"	439 @ 6"			
BAR C	504 @ 12"	410 @ 6"	410 @ 6"	504 @ 6"	505 @ 6"			
BAR D	506 @ 12"	506 @ 12"	412 @ 6"	412 @ 6"	412 @ 6"			
BAR E	414 @ 12"	414 @ 12"	507 @ 12"	507 @ 12"	508 @ 12"			
BAR F	414 @ 12"	414 @ 12"	414 @ 12"	414 @ 12"	415 @ 12"			
BAR G IN 2 SLABS	48 - 401	48 - 401	48 - 401	48 - 401	48 - 401			
BAR H IN 4 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402			
BAR J IN EXT. CORNER	0	0	0	3-401B @ 4½"	3-403B @ 5"			
BAR J IN INT. CORNER	0	0	3-401B @ 4½"	4-401B @ 4½"	4-403B @ 5"			
T ₁	8"	8"	8"	8"	9"			
T ₂	9"	9"	9"	9"	10"			
T ₃	8"	8"	8"	8"	9"			
X	15'-4"	15'-4"	15'-4"	15'-4"	15'-6"			
Y	6'-5"	6'-5"	6'-5"	6'-5"	6'-7"			
YD³ CLASS AA CONCRETE/FT	1,450	1,450	1,450	1,450	1,585			
LB BAR REINF STEEL/FT	151.1	160.6	204.3	242.6	248.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.6	6.6	6.6	6.6	6.8			
LB BAR REINF STEEL	985	985	985	985	985			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.9	6.9	6.9	6.9	7.1			
LB BAR REINF STEEL	1212	1212	1212	1212	1215			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.7	7.7	7.7	7.7	7.9			
LB BAR REINF STEEL	1283	1283	1283	1283	1286			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	9.5	9.5	9.5	9.5	9.7			
LB BAR REINF STEEL	1456	1456	1456	1456	1461			

TRIPLE 4'-0" X 6'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	444A @ 12"	440A @ 6"	440A @ 6"	520A @ 6"	521A @ 6"			
BAR B	549 @ 12"	526 @ 12"	431 @ 6"	436 @ 6"	439 @ 6"			
BAR C	504 @ 12"	410 @ 6"	410 @ 6"	504 @ 6"	505 @ 6"			
BAR D	506 @ 12"	506 @ 12"	412 @ 6"	412 @ 6"	412 @ 6"			
BAR E	421 @ 12"	512 @ 12"	512 @ 12"	421 @ 6"	422 @ 6"			
BAR F	421 @ 12"	421 @ 12"	421 @ 12"	421 @ 12"	422 @ 12"			
BAR G IN 2 SLABS	48 - 401	48 - 401	48 - 401	48 - 401	48 - 401			
BAR H IN 4 WALLS	34 - 402	34 - 402	34 - 402	34 - 402	34 - 402			
BAR J IN EXT. CORNER	0	0	2-401B @ 4½"	3-402B @ 4½"	3-404B @ 5"			
BAR J IN INT. CORNER	0	0	3-401B @ 4½"	4-401B @ 4½"	4-403B @ 5"			
T ₁	8"	8"	8"	8"	9"			
T ₂	9"	9"	9"	9"	10"			
T ₃	8"	8"	8"	8"	9"			
X	15'-4"	15'-4"	15'-4"	15'-4"	15'-6"			
Y	7'-5"	7'-5"	7'-5"	7'-5"	7'-7"			
YD³ CLASS AA CONCRETE/FT	1,573	1,573	1,573	1,573	1,715			
LB BAR REINF STEEL/FT	162.7	188.9	229.7	288.4	293.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.9	6.9	6.9	6.9	7.0			
LB BAR REINF STEEL	1036	1036	1036	1036	1037			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.2	7.2	7.2	7.2	7.3			
LB BAR REINF STEEL	1266	1266	1266	1266	1269			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.0	8.0	8.0	8.0	8.2			
LB BAR REINF STEEL	1338	1338	1338	1338	1341			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	9.9	9.9	9.9	9.9	10.1			
LB BAR REINF STEEL	1514	1514	1514	1514	1518			

DATE

REVISION

BY

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

(SUBMITTED)

(APPROVED) *Margaret B. Pivelo*
CHIEF ENGINEER

NUMBER
2403
SHEET 2-A OF 3

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

STANDARD
REINFORCED CONCRETE
TRIPLE BOX CULVERT
4'X3', 4'X4', 4'X5' AND 4'X6'

NO SCALE

SEPTEMBER 2017