STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	430A @ 6"	427A @ 6"	432A @ 6"	512A @ 6"	515A @ 6"			
BAR B	448 @ 6"	539 @ 6"	615 @ 6"	708 @ 6"	707 @ 6"			
BAR C	738 @ 12"	567 @ 6"	568 @ 6"	638 @ 6"	639 @ 6"			
BAR E	421 @ 12"	422 @ 12"	424 @ 12"	425 @ 12"	426 @ 12"			
BAR F	514 @ 12"	422 @ 12"	424 @ 12"	425 @ 12"	426 @ 12"			
BAR G IN 2 SLABS	48 - 401	48 - 401	48 - 401	48 - 401	48 - 401			
BAR H IN 3 WALLS	20 - 402	20 - 402	20 - 402	20 - 402	20 - 402			
BAR J IN EXT. CORNER	0	0	2-409B @ 6¼"	3-414B @ 6¾"	3-417B @ 7½"			
BAR J IN INT. CORNER	0	3-407B @ 5¾"	4-411B @ 6¼"	5-416B @ 6¾"	5-419B @ 7"			
T_1	9"	10"	11"	12"	13"			
T_2	10"	11"	12"	13"	14"			
T_3	9"	10"	11"	12"	13"			
X	16'-6"	16'-8"	16'-10"	17'-0"	17'-2"			
Y	6'-7"	6'-9"	6'-11"	7'-1"	7'-3"			
YD^3 CLASS AA CONCRETE/FT	1.449	1.593	1.738	1.886	2.035			
LB BAR REINF STEEL/FT	195.0	219.8	253.7	339.6	343.5			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	6.8	6.9	7.1	7.2	7.4			
LB BAR REINF STEEL	1001	1002	1002	1003	1003			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	7.0	7.2	7.3	7.5	7.7			
LB BAR REINF STEEL	1243	1245	1248	1251	1253			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	7.8	8.0	8.2	8.4	8.5			
LB BAR REINF STEEL	1317	1320	1323	1326	1330			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.7	9.9	10.1	10.3	10.5			
LB BAR REINF STEEL	1498	1503	1507	1512	1517			

DOUBLE 7'-0" X 7'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	463A @ 6"	456A @ 6"	535A @ 6"	537A @ 6"	542A @ 6"			
BAR B	440 @ 6"	535 @ 6"	613 @ 6"	704 @ 6"	701 @ 6"			
BAR C	566 @ 6"	567 @ 6"	568 @ 6"	638 @ 6"	639 @ 6"			
BAR E	438 @ 12"	440 @ 12"	534 @ 12"	535 @ 12"	536 @ 12"			
BAR F	532 @ 12"	440 @ 12"	441 @ 12"	442 @ 12"	443 @ 12"			
BAR G IN 2 SLABS	48 - 401	48 - 401	48 - 401	48 - 401	48 - 401			
BAR H IN 3 WALLS	30 - 402	30 - 402	30 - 402	30 - 402	30 - 402			
BAR J IN EXT. CORNER	0	0	3-410B @ 6¼"	3-414B @ 6¾"	4-417B @ 7½"			
BAR J IN INT. CORNER	0	3-407B @ 5¾"	4-411B @ 6¼"	5-416B @ 6¾"	5-419B @ 6¾"			
T_1	9"	10"	11"	12"	13"			
T_2	10"	11"	12"	13"	14"			
T_3	9"	10"	11"	12"	13"			
X	16'-6"	16'-8"	16'-10"	17'-0"	17'-2"			
Y	8'-7"	8'-9"	8'-11"	9'-1"	9'-3"			
YD^3 CLASS AA CONCRETE/FT	1.634	1.790	1.948	2.108	2.270			
LB BAR REINF STEEL/FT	222.8	241.6	313.4	372.1	378.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	7.2	7.3	7.5	7.7	7.9			
LB BAR REINF STEEL	1078	1079	1079	1080	1080			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	7.5	7.6	7.8	8.0	8.2			
LB BAR REINF STEEL	1323	1325	1328	1330	1333			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.3	8.5	8.7	8.9	9.2			
LB BAR REINF STEEL	1398	1401	1404	1408	1411			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	10.3	10.5	10.8	11.0	11.3			
LB BAR REINF STEEL	1583	1588	1592	1597	1602			

DOUBLE 7'-0" X 6'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	446A @ 6"	442A @ 6"	445A @ 6"	525A @ 6"	528A @ 6"			
BAR B	443 @ 6"	537 @ 6"	614 @ 6"	706 @ 6"	705 @ 6"			
BAR C	738 @ 12"	567 @ 6"	568 @ 6"	638 @ 6"	639 @ 6"			
BAR E	429 @ 12"	431 @ 12"	432 @ 12"	434 @ 12"	436 @ 12"			
BAR F	521 @ 12"	431 @ 12"	432 @ 12"	434 @ 12"	436 @ 12"			
BAR G IN 2 SLABS	48 - 401	48 - 401	48 - 401	48 - 401	48 - 401			
BAR H IN 3 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402			
BAR J IN EXT. CORNER	0	0	3-409B @ 6¼"	3-414B @ 6¾"	3-417B @ 7½"			
BAR J IN INT. CORNER	0	3-407B @ 5¾"	4-411B @ 6¼"	5-416B @ 6¾"	5-419B @ 6¾"			
T_1	9"	10"	11"	12"	13"			
T_2	10"	11"	12"	13"	14"			
T_3	9"	10"	11"	12"	13"			
X	16'-6"	16'-8"	16'-10"	17'-0"	17'-2"			
Y	7'-7"	7'-9"	7'-11"	8'-1"	8'-3"			
YD^3 CLASS AA CONCRETE/FT	1.542	1.691	1.843	1.997	2.153			
LB BAR REINF STEEL/FT	207.7	231.4	269.5	353.3	357.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	6.9	7.1	7.3	7.4	7.6			
LB BAR REINF STEEL	1051	1052	1052	1052	1053			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	7.2	7.4	7.6	7.7	7.9			
LB BAR REINF STEEL	1294	1297	1300	1302	1305			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.1	8.2	8.4	8.6	8.8			
LB BAR REINF STEEL	1369	1372	1376	1379	1382			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.9	10.2	10.4	10.6	10.9			
LB BAR REINF STEEL	1553	1557	1562	1567	1571			

DOUBLE 7'-0" X 8'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	477A @ 6"	469A @ 6"	551A @ 6"	555A @ 6"	604A @ 6"			
BAR B	436 @ 6"	529 @ 6"	612 @ 6"	702 @ 6"	701 @ 6"			
BAR C	566 @ 6"	567 @ 6"	568 @ 6"	638 @ 6"	639 @ 6"			
BAR E	538 @ 12"	539 @ 12"	540 @ 12"	449 @ 6"	450 @ 6"			
BAR F	445 @ 12"	447 @ 12"	448 @ 12"	449 @ 12"	450 @ 12"			
BAR G IN 2 SLABS	48 - 401	48 - 401	48 - 401	48 - 401	48 - 401			
BAR H IN 3 WALLS	32 - 402	32 - 402	32 - 402	32 - 402	32 - 402			
BAR J IN EXT. CORNER	0	0	3-410B @ 6¼"	4-414B @ 6¾"	4-418B @ 7½"			
BAR J IN INT. CORNER	0	3-407B @ 5¾"	4-411B @ 6¼"	5-416B @ 6¾"	5-419B @ 6¾"			
T_1	9"	10"	11"	12"	13"			
T_2	10"	11"	12"	13"	14"			
T_3	9"	10"	11"	12"	13"			
X	16'-6"	16'-8"	16'-10"	17'-0"	17'-2"			
Y	9'-7"	9'-9"	9'-11"	10'-1"	10'-3"			
YD^3 CLASS AA CONCRETE/FT	1.727	1.889	2.053	2.219	2.387			
LB BAR REINF STEEL/FT	239.5	256.7	325.9	393.3	438.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	7.5	7.6	7.8	8.0	8.2			
LB BAR REINF STEEL	1105	1106	1106	1106	1107			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	7.8	8.0	8.2	8.4	8.6			
LB BAR REINF STEEL	1350	1352	1355	1358	1360			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.7	8.9	9.1	9.3	9.5			
LB BAR REINF STEEL	1426	1429	1432	1435	1439			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	10.7	10.9	11.2	11.5	11.7			
LB BAR REINF STEEL	1611	1616	1621	1625	1630			

BY	REVISION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REINFORCED CONCRETE
DOUBLE BOX CULVERT
7'X5', 7'X6', 7'X7' AND 7'X8'

NO SCALE — SEPTEMBER 2017

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

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

NUMBER 2402

SHEET 2-G OF 3