STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		6218	889

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 427C	1 - 428C	1 - 430C	1 - 432C	1 - 433C			
BAR C	570 @ 12"	429C @ 12"	574 @ 12"	423C @ 12"	573 @ 12"			
BAR D ✱	1 - 455B	1 - 712	1 - 809	1 - 903	1 - 904			
BAR F	438 @ 12"	476 @ 12"	479 @ 12"	482 @ 12"	487 @ 12"			
BAR J IN 2 SLABS	28 - 405	28 - 405	28 - 405	28 - 405	28 - 405			
BAR K IN 2 WALLS	10 - 406	10 - 406	10 - 406	10 - 406	10 - 406			
BAR L IN EXT. CORNER	0	2-406B @ 16"	3-431C @ 11"	4-424C @ 8"	5-426C @ 6½"			
T_1	14"	16"	18"	20"	22"			
T_2	14"	16"	18"	20"	22"			
X	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
Y	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"			
CY CLASS A CONCRETE/FT	1.507	1.754	2.009	2.273	2.544			
LB BAR REINF STEEL/FT	108.5	143.5	185.2	202.5	232.0			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	5.2	5.5	5.8	6.2	6.5			
LB BAR REINF STEEL	661	666	671	677	682			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	5.4	5.7	6.0	6.4	6.7			
LB BAR REINF STEEL	845	854	864	874	883			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	6.0	6.4	6.7	7.1	7.5			
LB BAR REINF STEEL	901	911	922	933	944			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	7.4	7.8	8.2	8.7	9.1			
LB BAR REINF STEEL	1043	1057	1070	1084	1098			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 434C	1 - 436C	1 - 437C	1 - 438C	1 - 440C			
BAR C	435C @ 12"	575 @ 12"	576 @ 12"	439C @ 12"	441C @ 12"			
BAR D ✱	1 - 614	1 - 712	1 - 809	1 - 903	2 - 713			
BAR F	482 @ 12"	487 @ 12"	490 @ 12"	493 @ 12"	498 @ 12"			
BAR J IN 2 SLABS	28 - 405	28 - 405	28 - 405	28 - 405	28 - 405			
BAR K IN 2 WALLS	12 - 406	12 - 406	12 - 406	12 - 406	12 - 406			
BAR L IN EXT. CORNER	0	2-464B @ 16"	3-431B @ 10¾"	4-424C @ 7¾"	5-442C @ 6½"			
T_1	14"	16"	18"	20"	22"			
T_2	14"	16"	18"	20"	22"			
X	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
Y	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"			
CY CLASS A CONCRETE/FT	1.574	1.853	2.120	2.396	2.680			
LB BAR REINF STEEL/FT	120.7	162.4	190.5	207.7	240.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	5.4	5.7	6.1	6.4	6.8			
LB BAR REINF STEEL	685	690	695	701	706			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	5.6	5.9	6.3	6.6	7.0			
LB BAR REINF STEEL	869	879	889	898	908			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	6.2	6.6	7.0	7.4	7.8			
LB BAR REINF STEEL	925	936	947	958	969			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	7.6	8.1	8.6	9.0	9.5			
LB BAR REINF STEEL	1068	1082	1096	1110	1124			

✱ NUMBER OF BARS A OR D SHOWN SHALL BE PLACED AT EQUAL SPACES BETWEEN EACH PAIR OF BARS C AT EACH LOCATION.

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 443C	1 - 444C	1 - 445C	1 - 446C	1 - 448C			
BAR C	435C @ 12"	577 @ 12"	576 @ 12"	577 @ 12"	441C @ 12"			
BAR D ✱	1 - 614	1 - 712	1 - 809	1 - 903	2 - 713			
BAR F	493 @ 12"	498 @ 12"	456A @ 12"	431B @ 12"	436B @ 12"			
BAR J IN 2 SLABS	28 - 405	28 - 405	28 - 405	28 - 405	28 - 405			
BAR K IN 2 WALLS	14 - 406	14 - 406	14 - 406	14 - 406	14 - 406			
BAR L IN EXT. CORNER	0	2-464B @ 16"	3-431C @ 10¼"	4-447C @ 7½"	5-442C @ 6¼"			
T_1	14"	16"	18"	20"	22"			
T_2	14"	16"	18"	20"	22"			
X	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
Y	9'-4"	9'-8"	10'-0"	10'-4"	10'-8"			
CY CLASS A CONCRETE/FT	1.680	1.952	2.231	2.520	2.816			
LB BAR REINF STEEL/FT	126.0	167.7	195.6	227.8	245.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	5.6	6.0	6.3	6.7	7.1			
LB BAR REINF STEEL	710	715	720	726	731			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	5.8	6.2	6.6	6.9	7.3			
LB BAR REINF STEEL	895	904	914	924	933			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	6.5	6.9	7.3	7.7	8.2			
LB BAR REINF STEEL	951	962	973	984	995			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	7.9	8.4	8.9	9.4	10.0			
LB BAR REINF STEEL	1095	1109	1122	1136	1150			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 449C	1 - 451C	1 - 452C	1 - 453C	1 - 454C			
BAR C	450C @ 12"	571 @ 12"	574 @ 12"	578 @ 12"	455C @ 12"			
BAR D ✱	1 - 614	1 - 712	1 - 809	1 - 903	2 - 713			
BAR F	431B @ 12"	436B @ 12"	438B @ 12"	443B @ 12"	448B @ 12"			
BAR J IN 2 SLABS	28 - 405	28 - 405	28 - 405	28 - 405	28 - 405			
BAR K IN 2 WALLS	16 - 406	16 - 406	16 - 406	16 - 406	16 - 406			
BAR L IN EXT. CORNER	0	2-464B @ 16"	3-431C @ 10"	5-447C @ 7¼"	6-442C @ 6"			
T_1	14"	16"	18"	20"	22"			
T_2	14"	16"	18"	20"	22"			
X	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
Y	10'-4"	10'-8"	11'-0"	11'-4"	11'-8"			
CY CLASS A CONCRETE/FT	1.766	2.050	2.343	2.643	2.952			
LB BAR REINF STEEL/FT	131.5	173.2	200.8	241.2	258.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	5.9	6.2	6.6	7.0	7.4			
LB BAR REINF STEEL	735	741	746	751	756			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	6.1	6.5	6.9	7.3	7.7			
LB BAR REINF STEEL	921	930	940	950	959			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	6.8	7.2	7.6	8.1	8.6			
LB BAR REINF STEEL	978	989	999	1010	1021			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	8.3	8.8	9.4	9.9	10.5			
LB BAR REINF STEEL	1122	1136	1150	1163	1177			

AS-BUILT

BRIDGE SHEET 2P OF 3

DATE	REVISIONS	BY

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
SINGLE BOX CULVERT

NO SCALE — MARCH 2003

DESIGNED WEI	CHECKED X	REVIEWED JPT/MCD
DRAWN KWK	DESIGN GROUP WEI	APPROVED PVL