STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		617	639

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 401	1 - 401	1 - 409	1 - 413	1 - 415			
BAR C	402 @ 12"	407 @ 12"	410 @ 12"	502 @ 12"	503 @ 12"			
BAR D *	1 - 403	1 - 501	1 - 501	1 - 601	1 - 602			
BAR F	404 @ 12"	404 @ 12"	411 @ 12"	411 @ 12"	416 @ 12"			
BAR J IN 2 SLABS	20 - 405	20 - 405	20 - 405	20 - 405	20 - 405			
BAR K IN 2 WALLS	6 - 406	6 - 406	6 - 406	6 - 406	6 - 406			
BAR L IN EXT. CORNER	0	3-408 @ 6"	2-412 @ 8"	4-414 @ 4¾"	4-417 @ 4½"			
T_1	6"	6"	8"	8"	9"			
T_2	8"	8"	8"	8"	9"			
X	5'-4"	5'-4"	5'-4"	5'-4"	5'-6"			
Y	4'-0"	4'-0"	4'-4"	4'-4"	4'-6"			
CY CLASS A CONCRETE/FT	0.355	0.355	0.421	0.421	0.481			
LB BAR REINF STEEL/FT	52.0	66.3	64.7	84.6	87.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	1.8	1.8	1.9	1.9	2.0			
LB BAR REINF STEEL	385	385	383	383	386			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	1.9	1.9	2.0	2.0	2.1			
LB BAR REINF STEEL	476	476	474	474	479			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	2.1	2.1	2.2	2.2	2.3			
LB BAR REINF STEEL	503	503	501	501	507			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	2.6	2.6	2.6	2.6	2.8			
LB BAR REINF STEEL	584	584	582	582	589			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 418	1 - 418	1 - 420	1 - 418	1 - 421			
BAR C	402 @ 12"	407 @ 12"	410 @ 12"	502 @ 12"	504 @ 12"			
BAR D *	1 - 403	1 - 501	1 - 501	1 - 601	1 - 602			
BAR F	419 @ 12"	419 @ 12"	403 @ 12"	403 @ 12"	422 @ 12"			
BAR J IN 2 SLABS	20 - 405	20 - 405	20 - 405	20 - 405	20 - 405			
BAR K IN 2 WALLS	8 - 406	8 - 406	8 - 406	8 - 406	8 - 406			
BAR L IN EXT. CORNER	0	3-408 @ 6"	2-412 @ 7¾"	4-414 @ 4½"	4-417 @ 4¼"			
T_1	6"	6"	8"	8"	9"			
T_2	8"	8"	8"	8"	9"			
X	5'-4"	5'-4"	5'-4"	5'-4"	5'-6"			
Y	5'-0"	5'-0"	5'-4"	5'-4"	5'-6"			
CY CLASS A CONCRETE/FT	0.404	0.404	0.470	0.470	0.537			
LB BAR REINF STEEL/FT	57.4	71.6	70.2	89.7	92.5			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	2.1	2.1	2.2	2.2	2.3			
LB BAR REINF STEEL	415	415	414	414	416			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	2.2	2.3	2.3	2.3	2.4			
LB BAR REINF STEEL	506	506	505	505	509			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	2.5	2.5	2.5	2.5	2.7			
LB BAR REINF STEEL	534	534	532	532	538			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	3.1	3.1	3.2	3.2	3.3			
LB BAR REINF STEEL	616	616	614	614	621			

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

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 423	1 - 424	1 - 427	1 - 427	1 - 430			
BAR C	424 @ 12"	426 @ 12"	428 @ 12"	505 @ 12"	506 @ 12"			
BAR D *	1 - 403	1 - 501	1 - 501	1 - 601	1 - 602			
BAR F	425 @ 12"	425 @ 12"	429 @ 12"	429 @ 12"	431 @ 12"			
BAR J IN 2 SLABS	20 - 405	20 - 405	20 - 405	20 - 405	20 - 405			
BAR K IN 2 WALLS	10 - 406	10 - 406	10 - 406	10 - 406	10 - 406			
BAR L IN EXT. CORNER	1- 408	3-408 @ 6"	2-412 @ 7½"	4-414 @ 4½"	4-417 @ 4¼"			
T_1	6"	6"	8"	8"	9"			
T_2	8"	8"	8"	8"	9"			
X	5'-4"	5'-4"	5'-4"	5'-4"	5'-6"			
Y	6'-0"	6'-0"	6'-4"	6'-4"	6'-6"			
CY CLASS A CONCRETE/FT	0.454	0.454	0.520	0.520	0.593			
LB BAR REINF STEEL/FT	66.4	77.1	75.8	95.1	97.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	2.2	2.2	2.3	2.3	2.4			
LB BAR REINF STEEL	439	439	438	438	440			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	2.3	2.3	2.4	2.4	2.5			
LB BAR REINF STEEL	531	531	529	529	534			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	2.6	2.6	2.6	2.6	2.7			
LB BAR REINF STEEL	559	559	557	557	563			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	3.1	3.1	3.2	3.2	3.4			
LB BAR REINF STEEL	641	641	640	640	646			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 432	1 - 432	1 - 436	1 - 436	1 - 439			
BAR C	433 @ 12"	435 @ 12"	437 @ 12"	437 @ 12"	507 @ 12"			
BAR D *	1 - 403	1 - 501	1 - 501	1 - 601	1 - 508			
BAR F	434 @ 12"	434 @ 12"	438 @ 12"	438 @ 12"	440 @ 12"			
BAR J IN 2 SLABS	18 - 405	18 - 405	18 - 405	18 - 405	18 - 405			
BAR K IN 2 WALLS	12 - 406	12 - 406	12 - 406	12 - 406	12 - 406			
BAR L IN EXT. CORNER	1- 408	3-408 @ 5¾"	3-412 @ 7"	4-412 @ 4¼"	4-417 @ 4"			
T_1	6"	6"	8"	8"	9"			
T_2	8"	8"	8"	8"	9"			
X	5'-4"	5'-4"	5'-4"	5'-4"	5'-6"			
Y	7'-0"	7'-0"	7'-4"	7'-4"	7'-6"			
CY CLASS A CONCRETE/FT	0.503	0.503	0.569	0.569	0.648			
LB BAR REINF STEEL/FT	70.8	81.4	84.3	92.8	97.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	2.3	2.3	2.4	2.4	2.5			
LB BAR REINF STEEL	443	443	441	441	444			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	2.4	2.4	2.5	2.5	2.6			
LB BAR REINF STEEL	535	535	533	533	538			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	2.7	2.7	2.7	2.7	2.9			
LB BAR REINF STEEL	564	564	562	562	567			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	3.3	3.3	3.3	3.3	3.5			
LB BAR REINF STEEL	647	647	645	645	652			

AS-BUILT

BY	REVISIONS	DATE

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
SINGLE BOX CULVERT

NO SCALE — MARCH 2003

BRIDGE SHEET 2B OF 3

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