STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		6210	839

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 419B	1 - 420B	1 - 421B	1 - 424B	1 - 425B			
BAR C	545 @ 12"	546 @ 12"	422 @ 12"	547 @ 12"	426B @ 12"			
BAR D *	1 - 456A	1 - 609	1 - 807	2 - 610	2 - 708			
BAR F	490 @ 12"	487A @ 12"	493 @ 12"	496 @ 12"	498 @ 12"			
BAR J IN 2 SLABS	26 - 405	26 - 405	26 - 405	26 - 405	26 - 405			
BAR K IN 2 WALLS	14 - 406	14 - 406	14 - 406	14 - 406	14 - 406			
BAR L IN EXT. CORNER	0	2-410B @ 13"	3-423B @ 8 1/2"	5-404B @ 5 3/4"	7-406B @ 4 1/2"			
T_1	12"	13"	14"	15"	16"			
T_2	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	9'-0"	9'-2"	9'-4"	9'-6"	9'-8"			
CY CLASS A CONCRETE/FT	1.269	1.387	1.507	1.630	1.754			
LB BAR REINF STEEL/FT	107.0	135.2	154.8	188.6	214.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	4.5	4.7	4.9	5.0	5.2			
LB BAR REINF STEEL	642	645	647	650	653			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	4.7	4.9	5.1	5.2	5.4			
LB BAR REINF STEEL	796	801	806	811	816			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	5.2	5.4	5.6	5.8	6.0			
LB BAR REINF STEEL	843	849	854	860	865			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	6.4	6.6	6.9	7.1	7.4			
LB BAR REINF STEEL	967	974	981	988	995			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 427B	1 - 428B	1 - 429B	1 - 432B	1 - 434B			
BAR C	548 @ 12"	549 @ 12"	430B @ 12"	550 @ 12"	435B @ 12"			
BAR D *	1 - 456A	1 - 609	1 - 807	1 - 806	2 - 708			
BAR F	456A @ 12"	495A @ 12"	431B @ 12"	433B @ 12"	436B @ 12"			
BAR J IN 2 SLABS	26 - 405	26 - 405	26 - 405	26 - 405	26 - 405			
BAR K IN 2 WALLS	16 - 406	16 - 406	16 - 406	16 - 406	16 - 406			
BAR L IN EXT. CORNER	0	2-410B @ 13"	3-423B @ 8 1/4"	5-404B @ 5 3/4"	7-406B @ 4 1/2"			
T_1	12"	13"	14"	15"	16"			
T_2	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
CY CLASS A CONCRETE/FT	1.343	1.467	1.594	1.722	1.853			
LB BAR REINF STEEL/FT	112.6	140.8	160.2	187.2	220.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	4.8	4.9	5.1	5.3	5.5			
LB BAR REINF STEEL	668	670	673	675	678			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	4.9	5.1	5.3	5.5	5.7			
LB BAR REINF STEEL	822	827	832	837	842			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	5.5	5.7	5.9	6.1	6.3			
LB BAR REINF STEEL	870	875	881	886	892			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	6.7	7.0	7.2	7.5	7.7			
LB BAR REINF STEEL	994	1001	1008	1015	1022			

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

SINGLE 8'-0" X 9'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 437B	1 - 439B	1 - 441B	1 - 444B	1 - 446B			
BAR C	551 @ 12"	552 @ 12"	442B @ 12"	553 @ 12"	447B @ 12"			
BAR D *	1 - 456A	1 - 609	1 - 807	1 - 806	2 - 708			
BAR F	438B @ 12"	440B @ 12"	443B @ 12"	445B @ 12"	448B @ 12"			
BAR J IN 2 SLABS	24 - 405	24 - 405	24 - 405	24 - 405	24 - 405			
BAR K IN 2 WALLS	18 - 406	18 - 406	18 - 406	18 - 406	18 - 406			
BAR L IN EXT. CORNER	0	2-410B @ 13"	4-423B @ 7 3/4"	5-404B @ 5 1/2"	7-406B @ 4 1/2"			
T_1	12"	13"	14"	15"	16"			
T_2	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	11'-0"	11'-2"	11'-4"	11'-6"	11'-8"			
CY CLASS A CONCRETE/FT	1.417	1.547	1.680	1.815	1.952			
LB BAR REINF STEEL/FT	116.9	145.0	170.8	190.9	224.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	4.9	5.1	5.3	5.5	5.7			
LB BAR REINF STEEL	672	674	677	680	682			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	5.1	5.3	5.5	5.7	5.9			
LB BAR REINF STEEL	827	832	837	841	846			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	5.7	5.9	6.1	6.4	6.6			
LB BAR REINF STEEL	875	880	886	891	897			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	7.0	7.2	7.5	7.8	8.1			
LB BAR REINF STEEL	1000	1007	1014	1021	1027			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 449B	1 - 451B	1 - 453B	1 - 456B	1 - 458B			
BAR C	554 @ 12"	555 @ 12"	454B @ 12"	556B @ 12"	459B @ 12"			
BAR D *	1 - 456A	1 - 609	1 - 807	1 - 806	1 - 901			
BAR F	450B @ 12"	452B @ 12"	455B @ 12"	457B @ 12"	460B @ 12"			
BAR J IN 2 SLABS	24 - 405	24 - 405	24 - 405	24 - 405	24 - 405			
BAR K IN 2 WALLS	20 - 406	20 - 406	20 - 406	20 - 406	20 - 406			
BAR L IN EXT. CORNER	0	2-410B @ 13"	4-423B @ 7 1/2"	6-404B @ 5 1/4"	7-406B @ 4 1/4"			
T_1	12"	13"	14"	15"	16"			
T_2	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	12'-0"	12'-2"	12'-4"	12'-6"	12'-8"			
CY CLASS A CONCRETE/FT	1.491	1.628	1.766	1.907	2.050			
LB BAR REINF STEEL/FT	122.6	150.8	176.0	202.8	214.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	5.1	5.3	5.5	5.7	5.9			
LB BAR REINF STEEL	696	698	701	704	706			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	5.3	5.5	5.7	5.9	6.1			
LB BAR REINF STEEL	852	856	861	866	871			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	5.9	6.1	6.3	6.6	6.8			
LB BAR REINF STEEL	900	905	911	916	922			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	7.2	7.5	7.7	8.0	8.3			
LB BAR REINF STEEL	1025	1032	1039	1046	1053			

AS-BUILT

DATE	REVISIONS	BY

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
SINGLE BOX CULVERT

NO SCALE — MARCH 2003

BRIDGE SHEET 2K OF 3

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