STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP-209-1(1)	420	513

Metric

SINGLE 1200 X 900 BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 1315	1 - 1607	1 - 1321	1 - 1366	1 - 1368			
BAR C	1316 @ 355	1319 @ 355	1322 @ 300	1631 @ 330	1632 @ 300			
BAR D *	1 - 1317	1 - 1601	1 - 1610	1 - 1610	1 - 1633			
BAR F	1318 @ 355	1320 @ 355	1323 @ 300	1367 @ 330	1325 @ 300			
BAR J IN 2 SLABS	18 - 1303	18 - 1303	18 - 1303	18 - 1303	18 - 1303			
BAR K IN 2 WALLS	6 - 1304	6 - 1304	6 - 1304	6 - 1304	6 - 1304			
BAR L IN EXT. CORNER	0	0	0	0	0			
T_1	150	180	230	280	330			
T_2	200	200	230	230	255			
X	1600	1600	1660	1660	1710			
Y	1200	1260	1360	1460	1560			
m^3 CLASS A CONCRETE/m	0.863	0.959	1.200	1.366	1.610			
kg BAR REINF STEEL/m	67.0	81.8	85.5	91.4	104.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.3	1.4	1.5	1.5	1.6			
kg BAR REINF STEEL	164	163	164	164	164			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.4	1.4	1.5	1.6	1.7			
kg BAR REINF STEEL	203	203	205	204	206			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.6	1.6	1.7	1.8	1.9			
kg BAR REINF STEEL	216	215	218	217	219			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
m^3 CLASS A CONCRETE	2.0	2.0	2.1	2.2	2.3			
kg BAR REINF STEEL	252	251	255	254	257			

SINGLE 1200 X 1200 BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 1301	1 - 1324	1 - 1326	1 - 1369	1 - 1635			
BAR C	1302 @ 300	1608 @ 300	1609 @ 300	1634 @ 300	1636 @ 300			
BAR D *	1 - 1601	1 - 1601	1 - 1610	1 - 1610	1 - 1633			
BAR F	1305 @ 300	1325 @ 300	1327 @ 300	1370 @ 300	1350 @ 300			
BAR J IN 2 SLABS	18 - 1303	18 - 1303	18 - 1303	18 - 1303	18 - 1303			
BAR K IN 2 WALLS	8 - 1304	8 - 1304	8 - 1304	8 - 1304	8 - 1304			
BAR L IN EXT. CORNER	0	0	0	0	0			
T_1	150	180	230	280	330			
T_2	200	200	230	230	255			
X	1600	1600	1660	1660	1710			
Y	1500	1560	1660	1760	1860			
m^3 CLASS A CONCRETE/m	0.983	1.079	1.338	1.504	1.763			
kg BAR REINF STEEL/m	88.6	101.2	105.6	107.1	126.0			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.5	1.6	1.7	1.7	1.8			
kg BAR REINF STEEL	177	176	177	177	177			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.6	1.6	1.7	1.8	1.9			
kg BAR REINF STEEL	217	216	218	218	219			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.8	1.8	2.0	2.0	2.1			
kg BAR REINF STEEL	229	229	231	230	232			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
m^3 CLASS A CONCRETE	2.2	2.3	2.4	2.5	2.6			
kg BAR REINF STEEL	265	265	268	268	270			

SINGLE 1200 X 1500 BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 1344A	1 - 1682	1 - 1683	1 - 1683	1 - 1964			
BAR C	1345A @ 300	1346A @ 300	1684 @ 300	1963 @ 300	1963 @ 300			
BAR D *	1 - 1317	1 - 1347	1 - 1610	1 - 1610	1 - 1965			
BAR F	1396 @ 300	1350 @ 300	1313 @ 300	1313 @ 300	1313 @ 300			
BAR J IN 2 SLABS	18 - 1303	18 - 1303	18 - 1303	18 - 1303	18 - 1303			
BAR K IN 2 WALLS	10 - 1304	10 - 1304	10 - 1304	10 - 1304	10 - 1304			
BAR L IN EXT. CORNER	0	0	0	1 - 1347A	2-1347A @ 125			
T_1	150	180	230	230	230			
T_2	200	230	230	230	230			
X	1600	1660	1660	1660	1660			
Y	1800	1860	1960	1960	1960			
m^3 CLASS A CONCRETE/m	1.103	1.310	1.476	1.476	1.476			
kg BAR REINF STEEL/m	92.3	109.1	128.8	153.6	186.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.6	1.7	1.8	1.8	1.8			
kg BAR REINF STEEL	188	189	188	188	188			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.7	1.8	1.8	1.8	1.8			
kg BAR REINF STEEL	228	230	230	230	230			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.9	2.0	2.1	2.1	2.1			
kg BAR REINF STEEL	240	243	242	242	242			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
m^3 CLASS A CONCRETE	2.3	2.5	2.5	2.5	2.5			
kg BAR REINF STEEL	277	281	280	280	280			

SINGLE 1200 X 1800 BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 1601A	1 - 1602A	1 - 1604A	1 - 1606A	1 - 1976			
BAR C	1372A @ 355	1603A @ 300	1605A @ 300	1607A @ 280	1977 @ 300			
BAR D *	1 - 1327	1 - 1327	1 - 1327	1 - 1337	1 - 1337			
BAR F	1314 @ 355	1328A @ 300	1306 @ 300	1307 @ 280	1978 @ 300			
BAR J IN 2 SLABS	18 - 1303	18 - 1303	18 - 1303	18 - 1303	18 - 1303			
BAR K IN 2 WALLS	12 - 1304	12 - 1304	12 - 1304	12 - 1304	12 - 1304			
BAR L IN EXT. CORNER	0	0	0	0	0			
T_1	150	180	215	280	330			
T_2	230	230	230	255	255			
X	1660	1660	1660	1710	1710			
Y	2100	2160	2230	2360	2460			
m^3 CLASS A CONCRETE/m	1.349	1.448	1.564	1.898	2.069			
kg BAR REINF STEEL/m	105.2	132.1	134.6	147.9	200.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.8	1.8	1.8	2.0	2.0			
kg BAR REINF STEEL	201	200	200	200	200			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
m^3 CLASS A CONCRETE	1.9	1.9	1.9	2.1	2.1			
kg BAR REINF STEEL	242	241	241	242	242			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
m^3 CLASS A CONCRETE	2.1	2.1	2.2	2.3	2.3			
kg BAR REINF STEEL	255	255	254	256	255			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
m^3 CLASS A CONCRETE	2.6	2.6	2.7	2.8	2.9			
kg BAR REINF STEEL	293	292	292	294	293			

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

REVISIONS	BY	DATE

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
SINGLE BOX CULVERT

NO SCALE — JULY 1996

BRIDGE SHEET 2B OF 3

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

ORIG