STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		630	839

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 460A	1 - 462A	1 - 463A	1 - 464A	1 - 465A			
BAR B ✱	1 - 523	1 - 608	1 - 802	1 - 802	1 - 901			
BAR C	461A @ 12"	550 @ 12"	551 @ 12"	552 @ 12"	553 @ 12"			
BAR D ✱	1 - 452A	1 - 555	1 - 609	1 - 703	1 - 704			
BAR F	438 @ 12"	471 @ 12"	426A @ 12"	441 @ 12"	466A @ 12"			
BAR G	438 @ 12"	471 @ 12"	426A @ 12"	441 @ 12"	466A @ 12"			
BAR H	0	0	0	0	0			
BAR J IN 2 SLABS	40 - 406	40 - 406	40 - 406	40 - 406	40 - 406			
BAR K IN 3 WALLS	15 - 407	15 - 407	15 - 407	15 - 407	15 - 407			
BAR L IN EXT. CORNER	0	2-456 @ 10"	3-412A @ 8½"	4-414A @ 6"	5-459A @ 5"			
BAR L IN INT. CORNER	2-455 @ 9"	4-456 @ 7¾"	6-412A @ 4¾"	9-414A @ 3½"	11-459A @ 3"			
T_1	9"	10"	11"	12"	13"			
T_2	9"	10"	11"	12"	13"			
X	16'-6"	16'-8"	16'-10"	17'-0"	17'-2"			
Y	6'-6"	6'-8"	6'-10"	7'-0"	7'-2"			
CY CLASS A CONCRETE/FT	1.398	1.541	1.686	1.833	1.983			
LB BAR REINF STEEL/FT	141.2	194.8	250.6	292.7	332.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	6.1	6.2	6.4	6.6	6.8			
LB BAR REINF STEEL	878	880	883	885	887			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	6.3	6.5	6.6	6.8	7.0			
LB BAR REINF STEEL	1118	1123	1127	1131	1136			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	7.7	7.9	8.1	8.3	8.5			
LB BAR REINF STEEL	1191	1196	1201	1206	1211			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	9.5	9.7	9.9	10.2	10.4			
LB BAR REINF STEEL	1371	1378	1384	1390	1397			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 467A	1 - 469A	1 - 470A	1 - 471A	1 - 472A			
BAR B ✱	1 - 523	1 - 608	1 - 802	1 - 802	1 - 901			
BAR C	468A @ 12"	554 @ 12"	556 @ 12"	557 @ 12"	558 @ 12"			
BAR D ✱	1 - 452A	1 - 555	1 - 609	1 - 703	1 - 704			
BAR F	446 @ 12"	480 @ 12"	433A @ 12"	483 @ 12"	473A @ 12"			
BAR G	446 @ 12"	480 @ 12"	433A @ 12"	483 @ 12"	473A @ 12"			
BAR H	0	0	0	0	0			
BAR J IN 2 SLABS	40 - 406	40 - 406	40 - 406	40 - 406	40 - 406			
BAR K IN 3 WALLS	18 - 407	18 - 407	18 - 407	18 - 407	18 - 407			
BAR L IN EXT. CORNER	0	2-456 @ 10"	3-412A @ 8"	4-414A @ 5¾"	5-459A @ 4½"			
BAR L IN INT. CORNER	2-455 @ 9"	4-456 @ 7½"	9-412A @ 4½"	9-414A @ 3½"	11-459A @ 3"			
T_1	9"	10"	11"	12"	13"			
T_2	9"	10"	11"	12"	13"			
X	16'-6"	16'-8"	16'-10"	17'-0"	17'-2"			
Y	7'-6"	7'-8"	7'-10"	8'-0"	8'-2"			
CY CLASS A CONCRETE/FT	1.491	1.640	1.791	1.944	2.100			
LB BAR REINF STEEL/FT	148.6	202.3	271.6	299.9	339.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	6.3	6.4	6.6	6.8	7.0			
LB BAR REINF STEEL	903	905	908	910	912			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	6.5	6.7	6.9	7.1	7.3			
LB BAR REINF STEEL	1144	1148	1153	1157	1162			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	8.0	8.1	8.3	8.5	8.7			
LB BAR REINF STEEL	1218	1223	1228	1233	1238			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	9.8	10.0	10.2	10.5	10.7			
LB BAR REINF STEEL	1398	1405	1411	1418	1424			

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

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 474A	1 - 476A	1 - 477A	1 - 478A	1 - 479A			
BAR B ✱	1 - 523	1 - 608	1 - 802	1 - 802	1 - 901			
BAR C	475A @ 12"	559 @ 12"	560 @ 12"	561 @ 12"	562 @ 12"			
BAR D ✱	1 - 452A	1 - 555	1 - 609	1 - 703	1 - 704			
BAR F	488 @ 12"	491 @ 12"	440A @ 12"	495 @ 12"	480A @ 12"			
BAR G	488 @ 12"	491 @ 12"	440A @ 12"	495 @ 12"	480A @ 12"			
BAR H	0	0	0	0	0			
BAR J IN 2 SLABS	40 - 406	40 - 406	40 - 406	40 - 406	40 - 406			
BAR K IN 3 WALLS	21 - 407	21 - 407	21 - 407	21 - 407	21 - 407			
BAR L IN EXT. CORNER	0	2-456 @ 10"	3-412A @ 7"	3-414A @ 5½"	5-459A @ 4½"			
BAR L IN INT. CORNER	2-455 @ 9"	4-456 @ 7"	7-412A @ 4½"	9-414A @ 3½"	11-459A @ 3"			
T_1	9"	10"	11"	12"	13"			
T_2	9"	10"	11"	12"	13"			
X	16'-6"	16'-8"	16'-10"	17'-0"	17'-2"			
Y	8'-6"	8'-8"	8'-10"	9'-0"	9'-2"			
CY CLASS A CONCRETE/FT	1.583	1.739	1.896	2.056	2.217			
LB BAR REINF STEEL/FT	153.6	207.3	267.1	304.4	344.4			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	6.5	6.7	6.9	7.1	7.3			
LB BAR REINF STEEL	888	891	893	895	897			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	6.7	6.9	7.1	7.4	7.6			
LB BAR REINF STEEL	1130	1134	1139	1143	1148			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	8.2	8.4	8.6	8.8	9.1			
LB BAR REINF STEEL	1204	1209	1214	1219	1224			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	10.1	10.4	10.6	10.9	11.1			
LB BAR REINF STEEL	1386	1392	1399	1405	1412			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 481A	1 - 483A	1 - 484A	1 - 485A	1 - 486A	-		
BAR B ✱	1 - 523	1 - 608	1 - 802	1 - 802	1 - 901			
BAR C	482A @ 12"	563 @ 12"	564 @ 12"	565 @ 12"	566 @ 12"			
BAR D ✱	1 - 452A	1 - 555	1 - 609	1 - 703	1 - 704			
BAR F	402A @ 12"	404A @ 12"	447A @ 12"	449A @ 12"	487A @ 12"			
BAR G	402A @ 12"	404A @ 12"	447A @ 12"	449A @ 12"	487A @ 12"			
BAR H	0	0	0	0	0			
BAR J IN 2 SLABS	36 - 406	36 - 406	36 - 406	36 - 406	36 - 406			
BAR K IN 3 WALLS	24 - 407	24 - 407	24 - 407	24 - 407	24 - 407			
BAR L IN EXT. CORNER	0	2-456 @ 10"	4-412A @ 6¾"	4-414A @ 5"	6-459A @ 4"			
BAR L IN INT. CORNER	2-455 @ 9"	4-456 @ 7"	7-412A @ 4½"	9-414A @ 3½"	11-459A @ 3"			
T_1	9"	10"	11"	12"	13"			
T_2	9"	10"	11"	12"	13"			
X	16'-6"	16'-8"	16'-10"	17'-0"	17'-2"			
Y	9'-6"	9'-8"	9'-10"	10'-0"	10'-2"			
CY CLASS A CONCRETE/FT	1.676	1.837	2.001	2.167	2.334			
LB BAR REINF STEEL/FT	161.3	215.0	280.0	317.4	357.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	6.8	7.0	7.2	7.4	7.7			
LB BAR REINF STEEL	915	918	920	922	924			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	7.0	7.2	7.5	7.7	7.9			
LB BAR REINF STEEL	1158	1162	1167	1171	1175			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	8.6	8.8	9.0	9.2	9.5			
LB BAR REINF STEEL	1232	1237	1242	1247	1252			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	10.5	10.8	11.1	11.3	11.6			
LB BAR REINF STEEL	1415	1422	1428	1434	1441			

AS-BUILT

DATE	REVISIONS	BY

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
DOUBLE BOX CULVERT

NO SCALE — MARCH 2003

BRIDGE SHEET 2H OF 3

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