| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| GA. | | | |

## TRIPLE 7'-0" X 5'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

| DESIGN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| BAR A | 431A @ 6" | 428A @ 6" | 433A @ 6" | 512A @ 6" | 515A @ 6" | | | |
| BAR B | 479 @ 6" | 578 @ 6" | 626 @ 6" | 626 @ 6" | 625 @ 6" | | | |
| BAR C | 703 @ 12" | 522 @ 6" | 523 @ 6" | 603 @ 6" | 604 @ 6" | | | |
| BAR D | 433 @ 6" | 433 @ 6" | 433 @ 6" | 524 @ 6" | 524 @ 6" | | | |
| BAR E | 415 @ 12" | 416 @ 12" | 418 @ 12" | 419 @ 12" | 420 @ 12" | | | |
| BAR F | 508 @ 12" | 416 @ 12" | 418 @ 12" | 419 @ 12" | 420 @ 12" | | | |
| BAR G IN 2 SLABS | 72 - 401 | 72 - 401 | 72 - 401 | 72 - 401 | 72 - 401 | | | |
| BAR H IN 4 WALLS | 26 - 402 | 26 - 402 | 26 - 402 | 26 - 402 | 26 - 402 | | | |
| BAR J IN EXT. CORNER | 0 | 0 | 3-409B @ 6¼" | 3-413B @ 7" | 3-415B @ 7¾" | | | |
| BAR J IN INT. CORNER | 0 | 3-407B @ 5¾" | 4-411B @ 6¼" | 4-414B @ 7" | 5-416B @ 7¾" | | | |
| $T_1$ | 9" | 10" | 11" | 12" | 13" | | | |
| $T_2$ | 10" | 11" | 12" | 13" | 14" | | | |
| $T_3$ | 9" | 10" | 11" | 12" | 13" | | | |
| X | 24'-6" | 24'-8" | 24'-10" | 25'-0" | 25'-2" | | | |
| Y | 6'-7" | 6'-9" | 6'-11" | 7'-1" | 7'-3" | | | |
| | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE/FT | 2.113 | 2.306 | 2.501 | 2.698 | 2.897 | | | |
| LB BAR REINF STEEL/FT | 273.3 | 321.6 | 380.8 | 452.1 | 468.1 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 10.0 | 10.2 | 10.3 | 10.5 | 10.7 | | | |
| LB BAR REINF STEEL | 1414 | 1412 | 1411 | 1410 | 1409 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 10.4 | 10.6 | 10.7 | 10.9 | 11.1 | | | |
| LB BAR REINF STEEL | 1762 | 1763 | 1764 | 1765 | 1766 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 11.6 | 11.8 | 12.0 | 12.2 | 12.4 | | | |
| LB BAR REINF STEEL | 1868 | 1870 | 1872 | 1874 | 1875 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 14.2 | 14.5 | 14.7 | 15.0 | 15.2 | | | |
| LB BAR REINF STEEL | 2121 | 2124 | 2127 | 2130 | 2133 | | | |

## TRIPLE 7'-0" X 7'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

| DESIGN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| BAR A | 461A @ 6" | 455A @ 6" | 539A @ 6" | 542A @ 6" | 547A @ 6" | | | |
| BAR B | 479 @ 6" | 575 @ 6" | 622 @ 6" | 623 @ 6" | 619 @ 6" | | | |
| BAR C | 521 @ 6" | 522 @ 6" | 523 @ 6" | 603 @ 6" | 604 @ 6" | | | |
| BAR D | 433 @ 6" | 433 @ 6" | 433 @ 6" | 524 @ 6" | 524 @ 6" | | | |
| BAR E | 429 @ 12" | 430 @ 12" | 522 @ 12" | 524 @ 12" | 525 @ 12" | | | |
| BAR F | 519 @ 12" | 430 @ 12" | 431 @ 12" | 433 @ 12" | 435 @ 12" | | | |
| BAR G IN 2 SLABS | 72 - 401 | 72 - 401 | 72 - 401 | 72 - 401 | 72 - 401 | | | |
| BAR H IN 4 WALLS | 40 - 402 | 40 - 402 | 40 - 402 | 40 - 402 | 40 - 402 | | | |
| BAR J IN EXT. CORNER | 0 | 0 | 3-410B @ 6¼" | 3-413B @ 7" | 4-415B @ 7¾" | | | |
| BAR J IN INT. CORNER | 0 | 3-407B @ 5¾" | 4-411B @ 6¼" | 4-414B @ 7" | 5-416B @ 7¾" | | | |
| $T_1$ | 9" | 10" | 11" | 12" | 13" | | | |
| $T_2$ | 10" | 11" | 12" | 13" | 14" | | | |
| $T_3$ | 9" | 10" | 11" | 12" | 13" | | | |
| X | 24'-6" | 24'-8" | 24'-10" | 25'-0" | 25'-2" | | | |
| Y | 8'-7" | 8'-9" | 8'-11" | 9'-1" | 9'-3" | | | |
| | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE/FT | 2.372 | 2.577 | 2.784 | 2.994 | 3.205 | | | |
| LB BAR REINF STEEL/FT | 309.8 | 348.4 | 441.0 | 491.4 | 511.2 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 10.6 | 10.8 | 11.0 | 11.2 | 11.4 | | | |
| LB BAR REINF STEEL | 1495 | 1494 | 1493 | 1491 | 1490 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 11.0 | 11.2 | 11.4 | 11.6 | 11.8 | | | |
| LB BAR REINF STEEL | 1847 | 1848 | 1849 | 1850 | 1851 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 12.3 | 12.5 | 12.7 | 12.9 | 13.2 | | | |
| LB BAR REINF STEEL | 1956 | 1957 | 1959 | 1961 | 1962 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 15.1 | 15.4 | 15.6 | 15.9 | 16.2 | | | |
| LB BAR REINF STEEL | 2213 | 2216 | 2219 | 2222 | 2225 | | | |

## TRIPLE 7'-0" X 6'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

| DESIGN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| BAR A | 448A @ 6" | 442A @ 6" | 446A @ 6" | 526A @ 6" | 535A @ 6" | | | |
| BAR B | 478 @ 6" | 576 @ 6" | 624 @ 6" | 624 @ 6" | 619 @ 6" | | | |
| BAR C | 703 @ 12" | 522 @ 6" | 523 @ 6" | 603 @ 6" | 604 @ 6" | | | |
| BAR D | 433 @ 6" | 433 @ 6" | 433 @ 6" | 524 @ 6" | 524 @ 6" | | | |
| BAR E | 422 @ 12" | 423 @ 12" | 425 @ 12" | 426 @ 12" | 427 @ 12" | | | |
| BAR F | 513 @ 12" | 423 @ 12" | 425 @ 12" | 426 @ 12" | 427 @ 12" | | | |
| BAR G IN 2 SLABS | 72 - 401 | 72 - 401 | 72 - 401 | 72 - 401 | 72 - 401 | | | |
| BAR H IN 4 WALLS | 34 - 402 | 34 - 402 | 34 - 402 | 34 - 402 | 34 - 402 | | | |
| BAR J IN EXT. CORNER | 0 | 0 | 3-409B @ 6¼" | 3-413B @ 7" | 4-415B @ 7¾" | | | |
| BAR J IN INT. CORNER | 0 | 3-407B @ 5¾" | 4-411B @ 6¼" | 4-414B @ 7" | 5-416B @ 7¾" | | | |
| $T_1$ | 9" | 10" | 11" | 12" | 13" | | | |
| $T_2$ | 10" | 11" | 12" | 13" | 14" | | | |
| $T_3$ | 9" | 10" | 11" | 12" | 13" | | | |
| X | 24'-6" | 24'-8" | 24'-10" | 25'-0" | 25'-2" | | | |
| Y | 7'-7" | 7'-9" | 7'-11" | 8'-1" | 8'-3" | | | |
| | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE/FT | 2.242 | 2.441 | 2.642 | 2.846 | 3.051 | | | |
| LB BAR REINF STEEL/FT | 290.0 | 335.8 | 394.4 | 469.2 | 488.2 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 10.3 | 10.4 | 10.6 | 10.8 | 11.0 | | | |
| LB BAR REINF STEEL | 1465 | 1464 | 1463 | 1462 | 1461 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 10.7 | 10.8 | 11.0 | 11.2 | 11.4 | | | |
| LB BAR REINF STEEL | 1816 | 1817 | 1818 | 1819 | 1820 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 11.9 | 12.1 | 12.3 | 12.5 | 12.7 | | | |
| LB BAR REINF STEEL | 1924 | 1925 | 1927 | 1929 | 1930 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 14.6 | 14.9 | 15.1 | 15.4 | 15.6 | | | |
| LB BAR REINF STEEL | 2178 | 2182 | 2185 | 2188 | 2191 | | | |

## TRIPLE 7'-0" X 8'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

| DESIGN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| BAR A | 471A @ 6" | 467A @ 6" | 554A @ 6" | 559A @ 6" | 606A @ 6" | | | |
| BAR B | 481 @ 6" | 574 @ 6" | 621 @ 6" | 620 @ 6" | 619 @ 6" | | | |
| BAR C | 521 @ 6" | 522 @ 6" | 523 @ 6" | 603 @ 6" | 604 @ 6" | | | |
| BAR D | 433 @ 6" | 433 @ 6" | 433 @ 6" | 524 @ 6" | 524 @ 6" | | | |
| BAR E | 528 @ 12" | 529 @ 12" | 530 @ 12" | 442 @ 6" | 443 @ 6" | | | |
| BAR F | 528 @ 12" | 440 @ 12" | 441 @ 12" | 442 @ 12" | 443 @ 12" | | | |
| BAR G IN 2 SLABS | 72 - 401 | 72 - 401 | 72 - 401 | 72 - 401 | 72 - 401 | | | |
| BAR H IN 4 WALLS | 42 - 402 | 42 - 402 | 42 - 402 | 42 - 402 | 42 - 402 | | | |
| BAR J IN EXT. CORNER | 0 | 0 | 3-410B @ 6¼" | 4-413B @ 7" | 4-416B @ 7¾" | | | |
| BAR J IN INT. CORNER | 0 | 3-407B @ 5¾" | 4-411B @ 6¼" | 4-414B @ 7" | 5-416B @ 7¾" | | | |
| $T_1$ | 9" | 10" | 11" | 12" | 13" | | | |
| $T_2$ | 10" | 11" | 12" | 13" | 14" | | | |
| $T_3$ | 9" | 10" | 11" | 12" | 13" | | | |
| X | 24'-6" | 24'-8" | 24'-10" | 25'-0" | 25'-2" | | | |
| Y | 9'-7" | 9'-9" | 9'-11" | 10'-1" | 10'-3" | | | |
| | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE/FT | 2.502 | 2.713 | 2.926 | 3.142 | 3.360 | | | |
| LB BAR REINF STEEL/FT | 335.1 | 365.1 | 454.8 | 515.4 | 572.7 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 11.0 | 11.2 | 11.4 | 11.6 | 11.8 | | | |
| LB BAR REINF STEEL | 1523 | 1522 | 1521 | 1519 | 1518 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 11.4 | 11.6 | 11.8 | 12.1 | 12.3 | | | |
| LB BAR REINF STEEL | 1876 | 1877 | 1878 | 1879 | 1880 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 12.7 | 13.0 | 13.2 | 13.5 | 13.7 | | | |
| LB BAR REINF STEEL | 1985 | 1986 | 1988 | 1990 | 1991 | | | |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL | | | | | | | | |
| $YD^3$ CLASS AA CONCRETE | 15.7 | 16.0 | 16.2 | 16.5 | 16.8 | | | |
| LB BAR REINF STEEL | 2242 | 2245 | 2249 | 2252 | 2255 | | | |

| DATE | REVISION | BY |
|---|---|---|
| | | |

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REINFORCED CONCRETE
TRIPLE BOX CULVERT
7'X5', 7'X6', 7'X7' AND 7'X8'

NO SCALE — SEPTEMBER 2017

DES. YSK
DRW. FGS
TRA. ___
CHK. JWB

(SUBMITTED) STATE DESIGN POLICY ENGINEER
(APPROVED) Margaret B Pinkle CHIEF ENGINEER

NUMBER 2403
SHEET 2-G OF 3