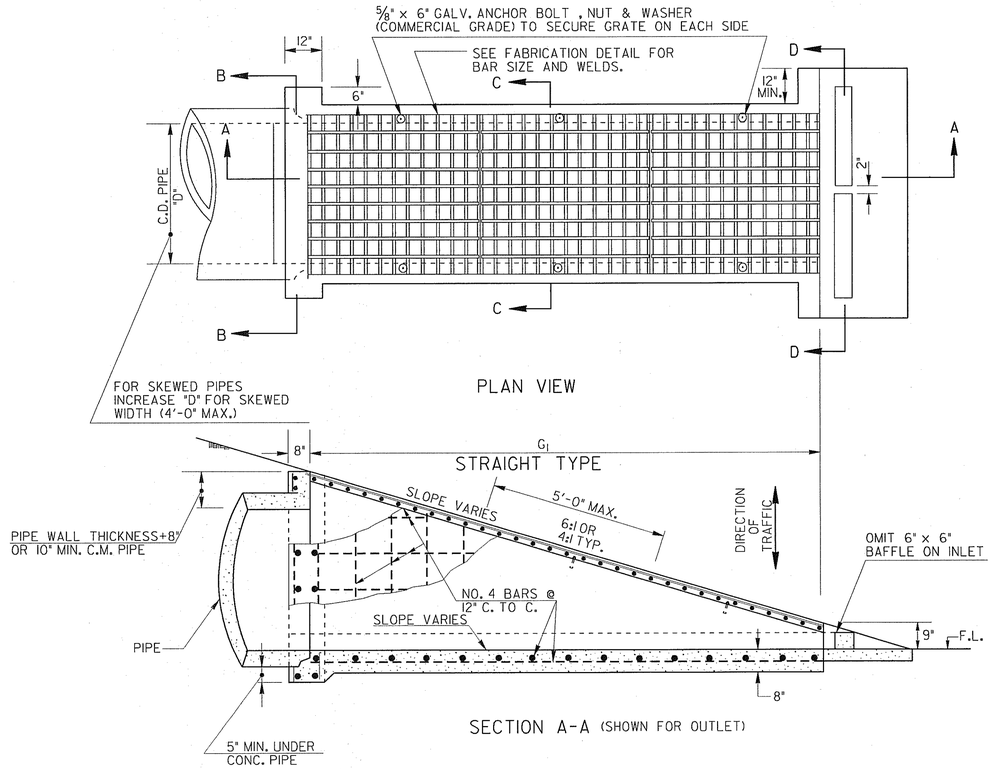
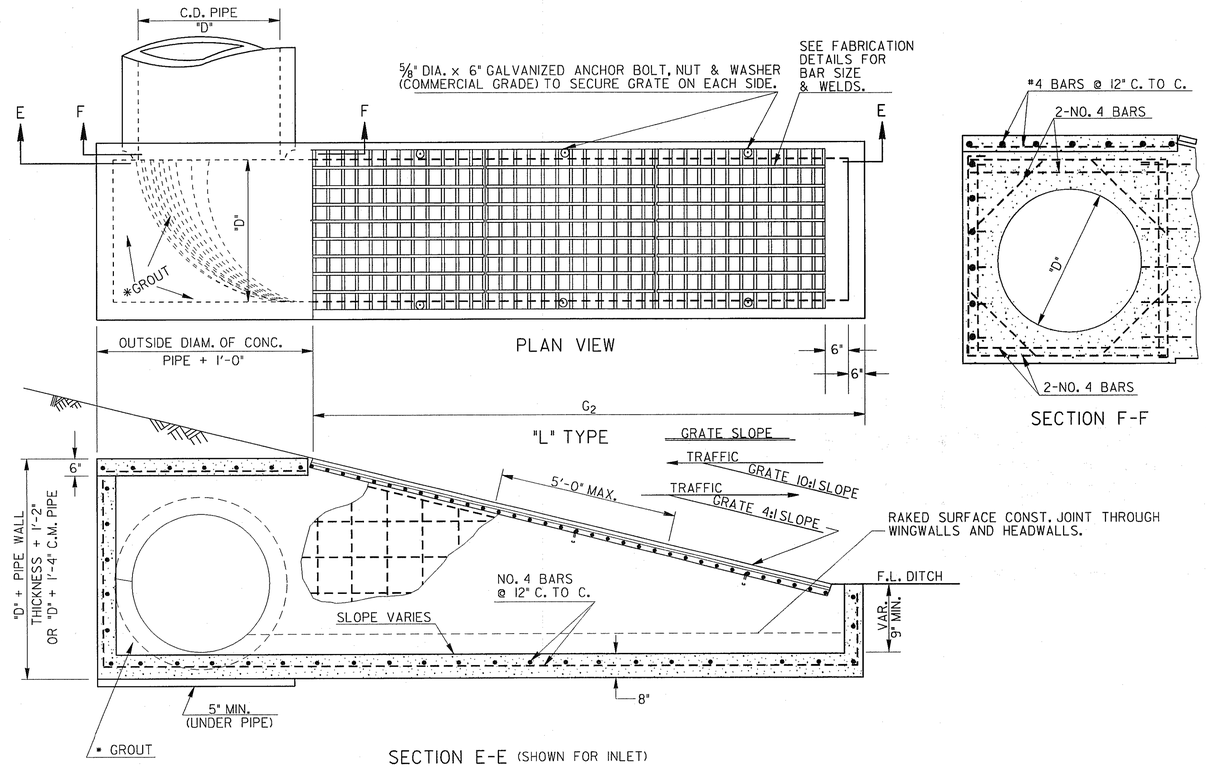
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| GA. | M004205-CST | 172 | 302 |




SECTION A-A (SHOWN FOR OUTLET)




SECTION E-E (SHOWN FOR INLET)




SECTION F-F

NOTE: A MAXIMUM TRANSVERSE SPACE OF 3" IS PERMITTED BETWEEN ABUTTING GRATE SECTIONS.

| MINIMUM LENGTH OF GRATE ** | | |
|---|---|---|
| SIZE | $G_1$ | $G_2$ |
| 15" | 6'-0" | 8'-0" |
| 18" | 7'-0" | 9'-0" |
| 24" | 9'-6" | 11'-6" |
| 30" | 11'-6" | 13'-6" |
| 36" | 14'-0" | 15'-6" |
| 42" | 16'-0" | 18'-0" |
| 48" | 18'-0" | 20'-0" |

** TYPICAL FOR 4:1 SLOPES

NOTE:

* GROUT IS TO MEET THE REQUIREMENTS OF SECTION 834.

SPECIAL NOTE:

TYPICAL USE OF THESE STRUCTURES IS WHERE THE ENDS OF STORM DRAIN PIPES UNDER THE MAINLINE FALL INSIDE THE CLEAR ZONE.

FOR DETAILS OF SAFETY END SECTIONS (FOR SIDE DRAIN PIPE OR STORM DRAIN PIPE PARALLEL TO MAINLINE), SEE SEPARATE DETAILS.

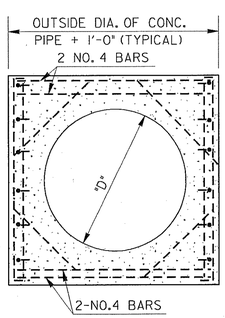
| SUMMARY OF QUANTITITES | | | | |
|---|---|---|---|---|
| CULV'T DIAM. INCHES | STRAIGHT TYPE | | "L" TYPE | |
| | CONC. CU.YDS. | REINF. STEEL LBS. | CONC. CU.YDS. | REINF. STEEL LBS. |
| 15" | 0.96 | 71 | 1.49 | 136 |
| 18" | 1.07 | 75 | 1.87 | 142 |
| 24" | 1.93 | 111 | 2.69 | 197 |
| 30" | 2.52 | 179 | 3.63 | 248 |
| 36" | 3.30 | 220 | 5.07 | 315 |
| 42" | 3.90 | 298 | 6.10 | 427 |
| 48" | 4.90 | 353 | 7.28 | 510 |

BASIS OF PAYMENT:

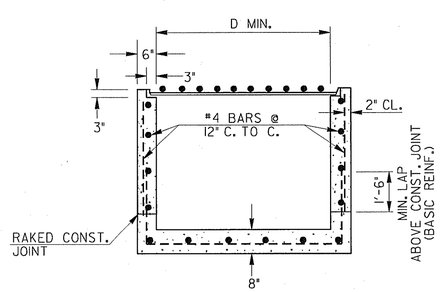
HEADWALL - CU. YDS. OF CONC. INCLUDING REINF. STEEL

GRATE-SAFETY GRATE TYPE _____ SQUARE FEET

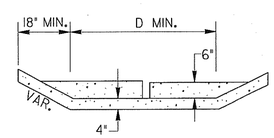
NOTE: QUANTITIES ARE TYPICAL FOR 4:1 SLOPE.




SECTION B-B




SECTION C-C




SECTION D-D

| | | | | | |
|---|---|---|---|---|---|
| | | 6-21-95 | GEN. REVISION | R.M.U. | |
| | | 10-4-72 | GRATE SLOPE | J.L.P. | |
| | | 4-20-72 | ANCHOR BOLTS | J.L.P. | |
| | | 3-1-71 | GRATE REVISED | J.L.P. | |
| | | DATE | REVISION | BY | |

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
- HEADWALLS -
SAFETY INLETS WITH GRATES

SCALE: 1/2"=1'-0" JULY, 1970

DESIGNED J.L.P.
DRAWN J.M.W.
TRACED A.V.S.
CHECKED H.R.

D-5

40-03