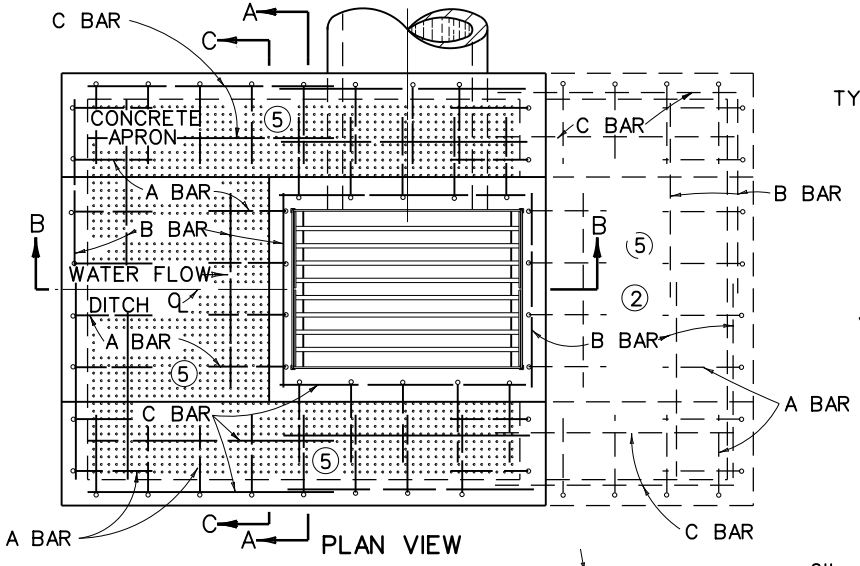
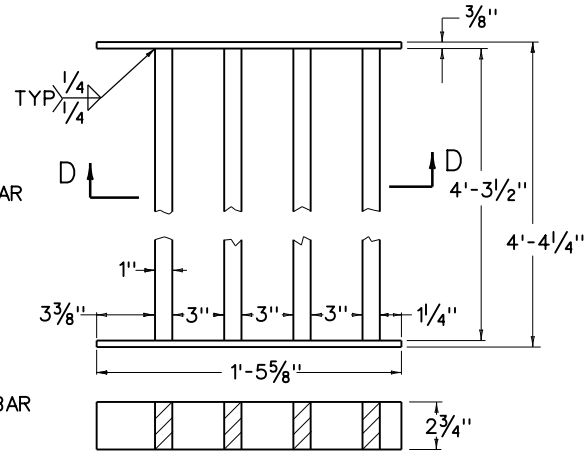
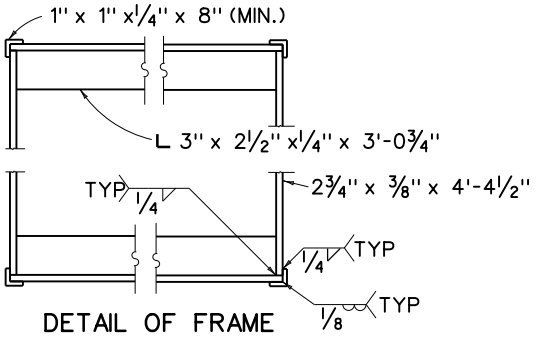
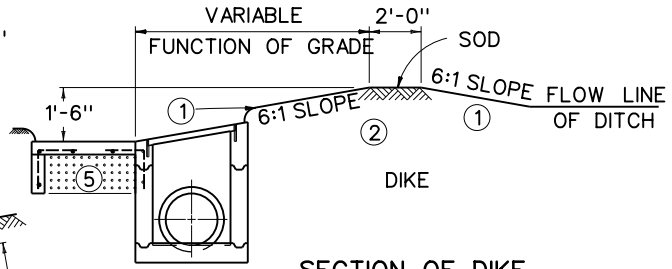


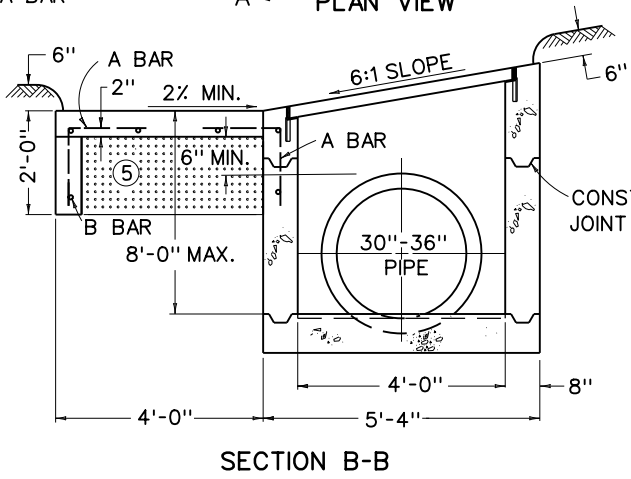

SECTION D-D
DETAIL OF GRATE
(TWO REQUIRED)



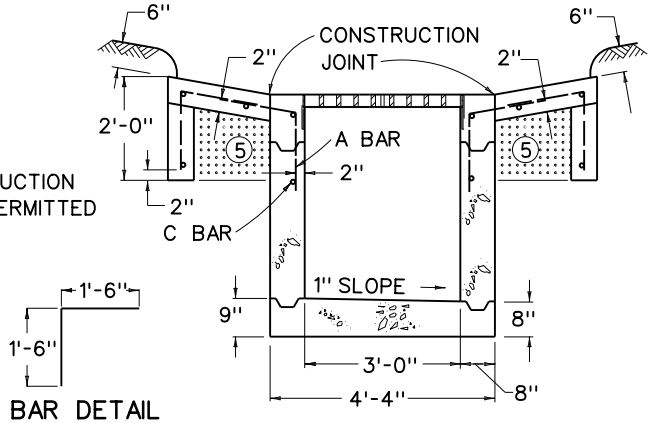

DETAIL OF FRAME




SECTION OF DIKE



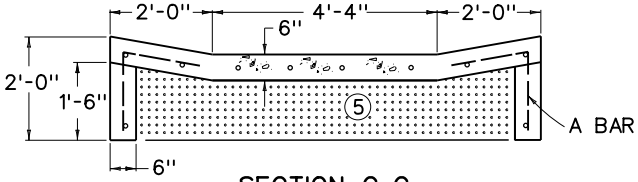

SECTION B-B




SECTION A-A




A BAR DETAIL




SECTION C-C

## BILL OF REINFORCEMENT

| BAR | NO. OF BARS | SIZE | LENGTH | APPROX. SPACING |
|---|---|---|---|---|
| A | 44 OR 60 | #5 | 3'-0" | 1'-0" C TO C |
| B | 9 OR 18 | #4 | 3'-9" | AS SHOWN |
| C | 16 OR 22 | #4 | 4'-9" | AS SHOWN |

NOTE: PRIMARY USE (ROADSIDE DITCH LOCATION)

## NOTES

**BASIS OF PAYMENT**

DOWNSTREAM DIKE COMPLETE AND IN PLACE IS INCLUDED IN THE CONTRACT UNIT PRICE OF THE INLET. SODDING IS NOT INCLUDED.

**CONSTRUCTION REQUIREMENTS**

① 6:1 SLOPES ARE WITH REFERENCE TO DITCH GRADE.

② WHEN A BOX INLET IS PLACED IN A SAG, OMIT THE EARTH DIKE AND LONGITUDINAL SLOPE OF THE GRATE, AND PROVIDE A CONCRETE APRON ON EACH SIDE OF THE INLET.

③ RATE OF INCREASE OR DECREASE 0.41 CU. YD. PER FOOT IN HEIGHT.

④ DEDUCT APPROX. 0.2 CU. YD. OF CONCRETE FOR A 30" PIPE AND 0.3 CU. YD. OF CONCRETE FOR A 36" PIPE.

⑤ ⁙ COMPACT THIS VOLUME WITH D.G.A. BASE OR GRAVEL BASE AND INCLUDE IN THE UNIT PRICE OF THE BOX.

| STR. STEEL WTS. | | |
|---|---|---|
| 1 GRATE | TOTAL | FRAME |
| 170 LBS | 340 LBS | 58 LBS |

## APPROX. QUANTITIES

| TYPE | CONCRETE 3'-9" ③ BOX | REINF. STEEL |
|---|---|---|
| SAG | 4.8 CU. YD. ④ | 303 LBS |
| GRADE | 3.9 CU. YD. ④ | 212 LBS |

KENTUCKY
DEPARTMENT OF HIGHWAYS

# DROP BOX INLET TYPE 2

STANDARD DRAWING NO. RDB-002-11

SUBMITTED John B Scalf 12-1-99
DIRECTOR DIVISION OF DESIGN — DATE

APPROVED [signature] 12-1-99
STATE HIGHWAY ENGINEER — DATE