



⑤ SECTION D-D
DETAIL OF GRATE
(TWO REQUIRED)

SECTION OF DIKE

SECTION C-C

SECTION B-B

SECTION A-A

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
		*4		AS SHOWN

NOTE: PRIMARY USE (ROADSIDE DITCH LOCATION)

~ NOTES ~

- BID ITEM AND UNIT TO BID
DROP BOX INLET TYPE 4 EACH
- 6:1 SLOPES ARE WITH REFERENCE TO DITCH GRADE.
 - 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.
 - RATE OF INCREASE OR DECREASE 0.41 CU. YD. PER F.T IN HEIGHT.
 - DEDUCT APPROX. 0.2 CU. YD OF CONCRETE OR A 30" PIPE AND 0.3 CU. YD. OF CONCRETE FOR A 36" PIPE.
 - RELIANCE STEEL (CAT. NO. H2-12D) AND GARY STEEL (CAT. NO. HW3-D-300) ARE ACCEPTABLE ALTERNATES PROVIDED MATCHED GRATES ARE SUPPLIED.
 - THE 2 3/4" BAR SHALL BE NOTCHED TO RECEIVE THE 1" BAR.
 - COMPACT THIS VOLUME WITH D.G.A. BASE OR GRAVEL BASE AND INCLUDE IN THE UNIT PRICE OF THE BOX.
 - DOWNSTREAM DIKE COMPLETE AND IN PLACE IS INCLUDED IN THE CONTRACT UNIT PRICE OF THE INLET. SODDING IS NOT INCLUDED.

STR. STEEL WTS.		
1 GRATE	TOTAL	FRAME
176 LBS	352 LBS	58 LBS

APPROX. QUANTITIES		
TYPE	CONCRETE	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 4

STANDARD DRAWING NO. RDB-004-10

SUBMITTED *William P. Gullett* 12-01-15
DIRECTOR, DIVISION OF DESIGN DATE

APPROVED *[Signature]* 12-01-15
STATE HIGHWAY ENGINEER DATE