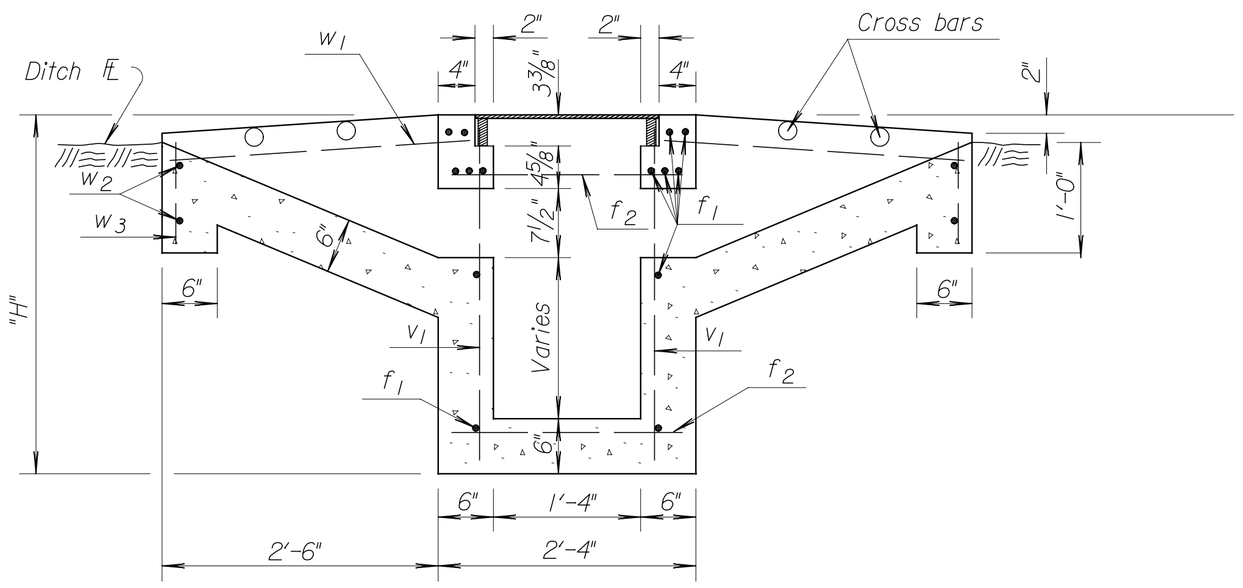
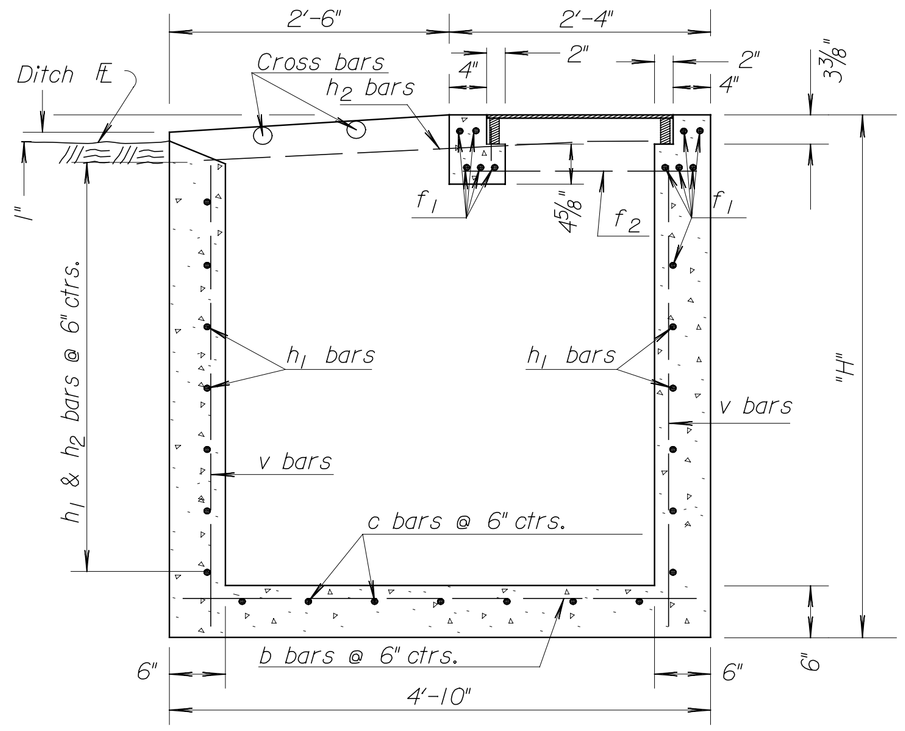
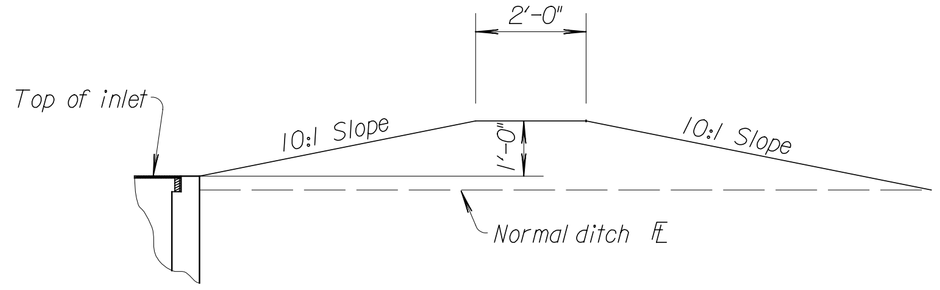
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-84071	2005	R5.15	



SECTION A-A
TYPE II

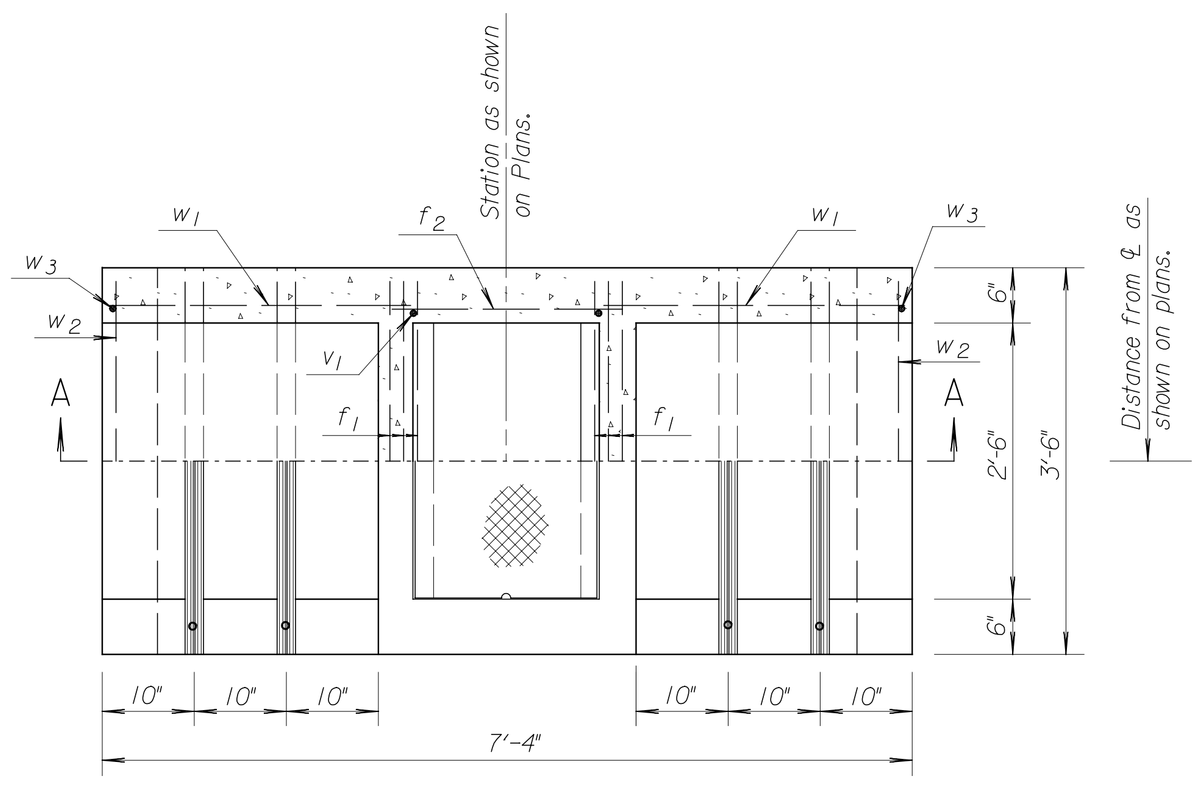


SECTION B-B
TYPE I (SPECIAL)

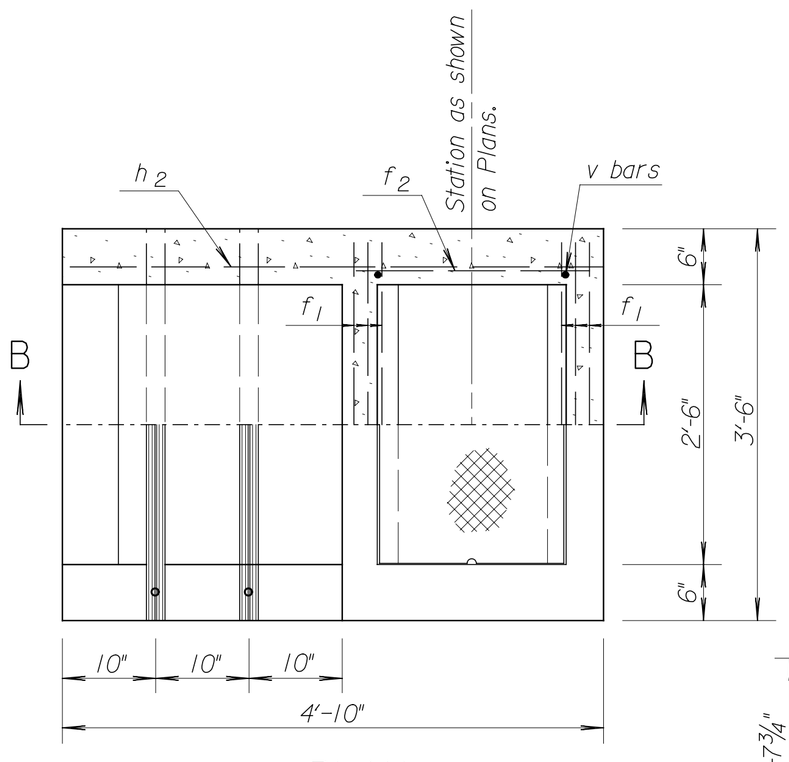


SKETCH OF DITCH BLOCK

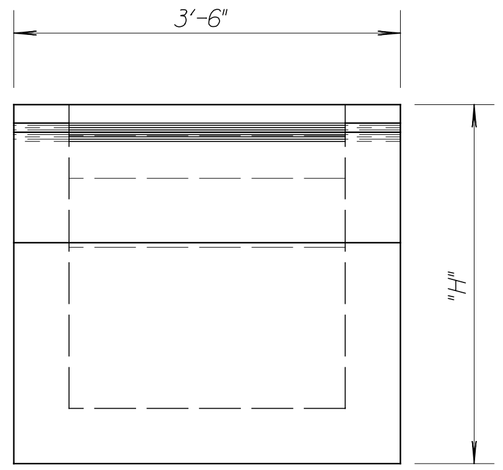
An earth dike, as shown above, shall be constructed across the ditch downstream from each Type I inlet where no other plug is used.



PLAN
TYPE II

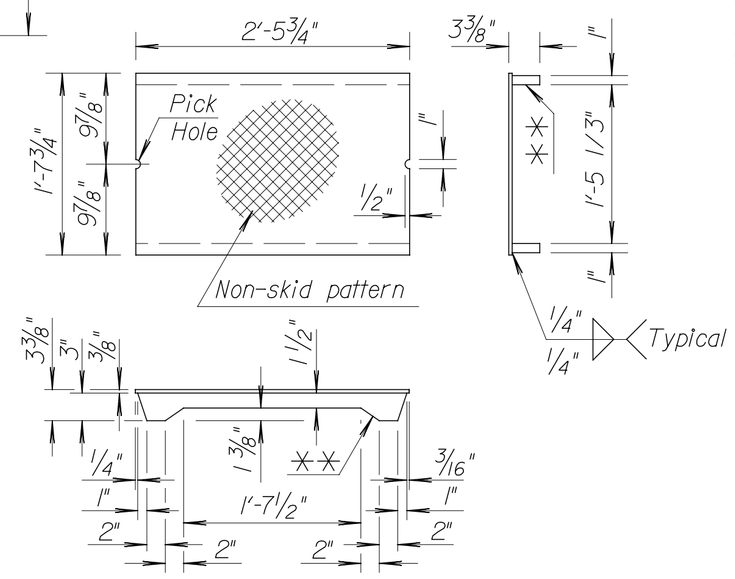


PLAN
TYPE I (SPECIAL)



FRONT ELEVATION
TYPE I& TYPE II

NOTE: ALL REINFORCING BARS ARE SIZE #4.



✳ STRUCTURAL STEEL COVER PLATE

Weight = 98 lbs. Each

✳ *Non skid steel floor plate (commercial grade)*

✳✳ *At the contractors option, the supports on the cover plate may be made with the "feet" portions welded to the 1 ½" steel bars. The weld shall be* $\frac{5}{16}$" *full length, each side and ground smooth on the outside.*

GENERAL NOTES

Grade 3.6 Concrete, Grade 3.6 Concrete (AE), or the mix used in Concrete Pavement, at the Contractor's option, shall be used throughout.

All exposed edges shall be finished with an edging tool.

Reinforcing bars shall be bent around pipe.

No reduction in concrete quantities shall be made for pipe openings.

All structural steel shall comply with ASTM A-36M, A-242M, or A-441M.

Cross bars shall be standard mass 2" galv. pipe and shall be furnished in place as a subsidiary item. All cross bars shall be cut flush with outside of wing walls.

Cross bars shall be fastened securely to the concrete wings by bolts or other suitable means.

Minor variations in the shape of legs on the cover plate will be permitted but payment will be made on calculated mass.

Cast iron cover plate, constructed to the dimensions shown for structural steel cover plate, minimum mass 98 lbs. (approx.), will be allowed as an approved alternate.

All castings shall be gray iron and shall comply with the Standard Specifications.

The mass of castings includes no allowance for fillets and overruns.

All exposed structural steel shall be painted with a coat of inorganic zinc primer and then with a topcoat or a field coat of organic zinc. Each coat shall be 3 to 4 mils thick. As an alternate, all structural steel parts may be hot dip galvanized after fabrication in accordance with the Standard Specifications.

Minimum clearance on all reinforcing steel shall be 1- ½" except where noted.

NO.	DATE	REVISIONS	BY	APP'D
24	3- 3-99	Added hot dip galvanized option.	R.J.S.	J.O.B.
23	12-27-93	Delete paint on cast iron	R.J.S.	J.O.B.
22	4-15-92	Entered on CADD	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

CONCRETE
DITCH INLETS, TYPES I& II

~~RD63I~~

FHWA APPROVAL	3-17-99	APP'D	James O. Brewer
DESIGNED	DETAILED	QUANTITIES	TRACED Bowser
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK. Seltz

Drawn By: JGraham Plotted: 04-JAN-2005 08:13
File: M:\Jobs\29049\TechProd\Railroad\Drawings\Plan_B\Details\rd631_modified.dgn