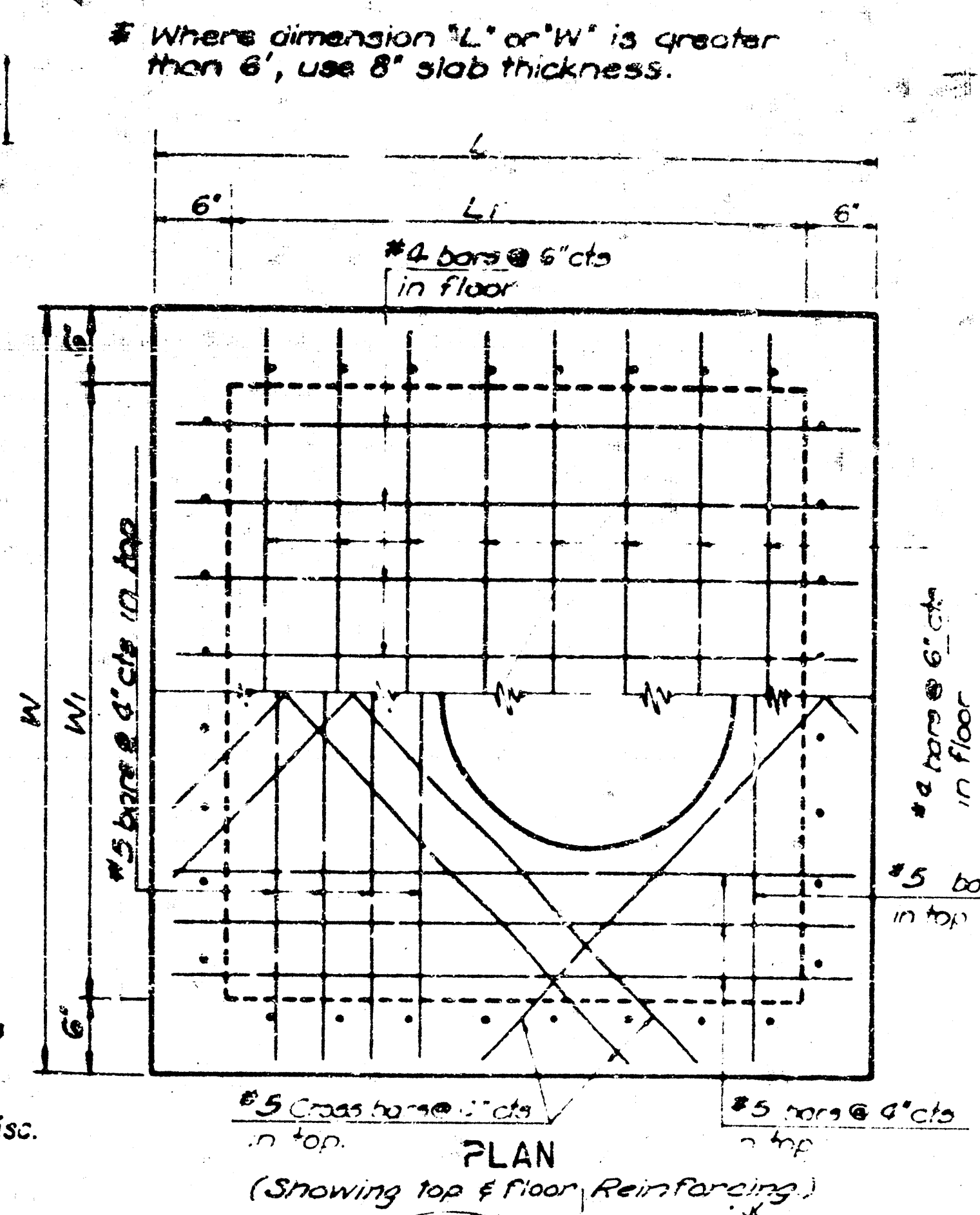
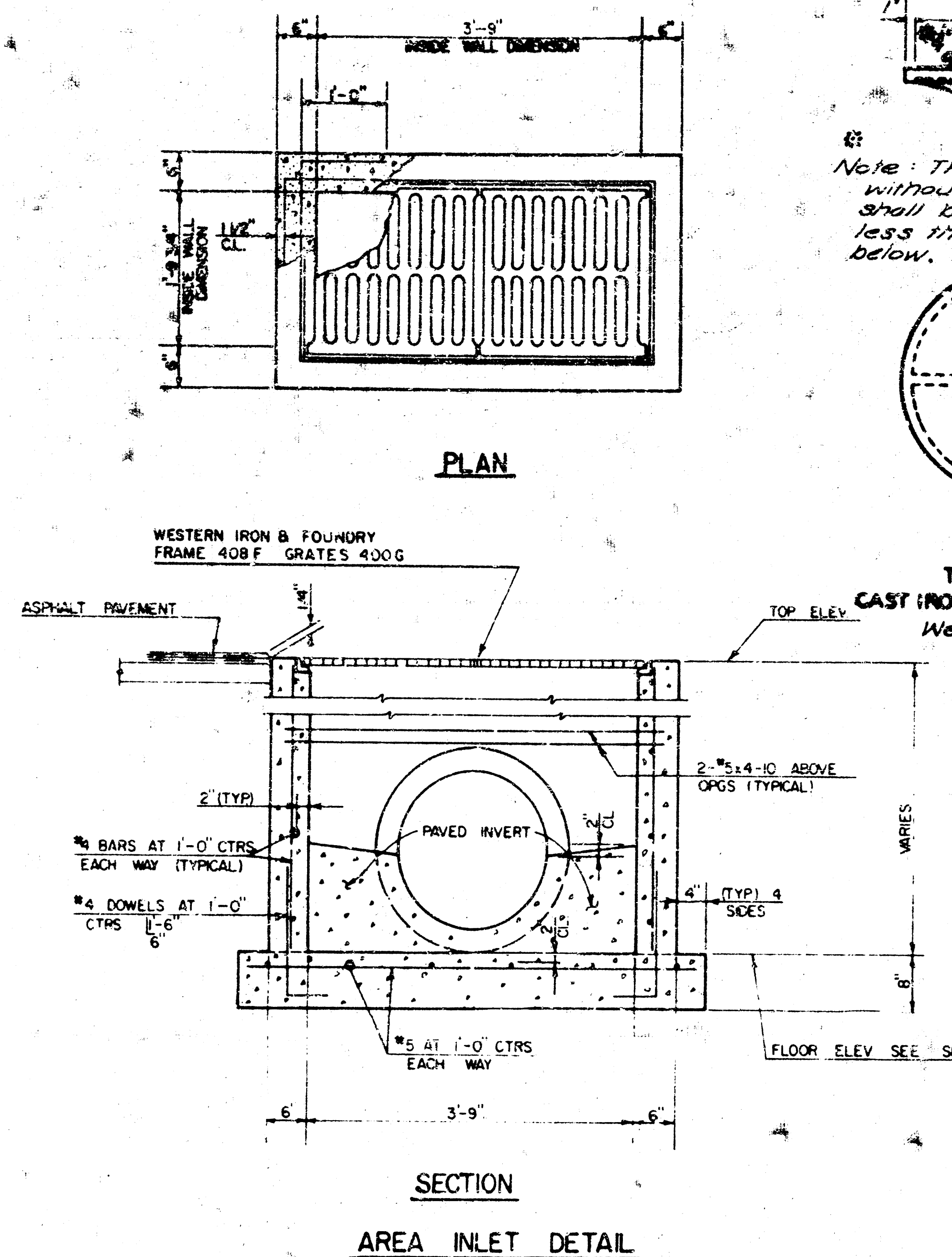




NOTE: Class 'A' concrete to be used throughout, have all exposed edges with a 3" triangular moulding.

At the contractor's option Class 'A' concrete (A2) may be used throughout, but payment shall be made as Cubic Yds of Class 'A' concrete misc.

In general, pipes will enter and leave the manhole at various positions. Where possible bend bars around pipe.

Floor of manhole to be shaped as shown in various "EXAMPLES" with unreinforced Class 'A' concrete.

Manhole opening and steps, where used, shall be placed to afford easy access to top of shaped invert. Top reinforcing bars to be adjusted accordingly.

All castings shall be gray iron and shall comply with ASTM A-48, Class 25.5.

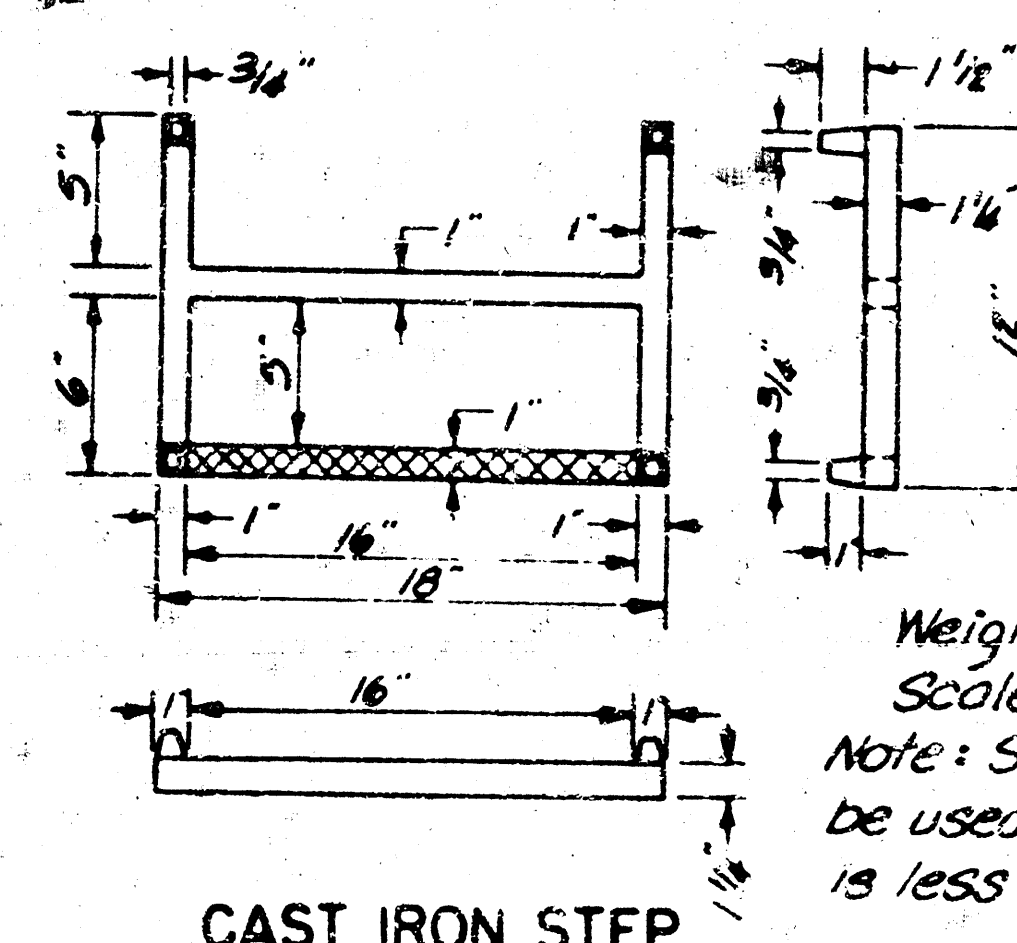
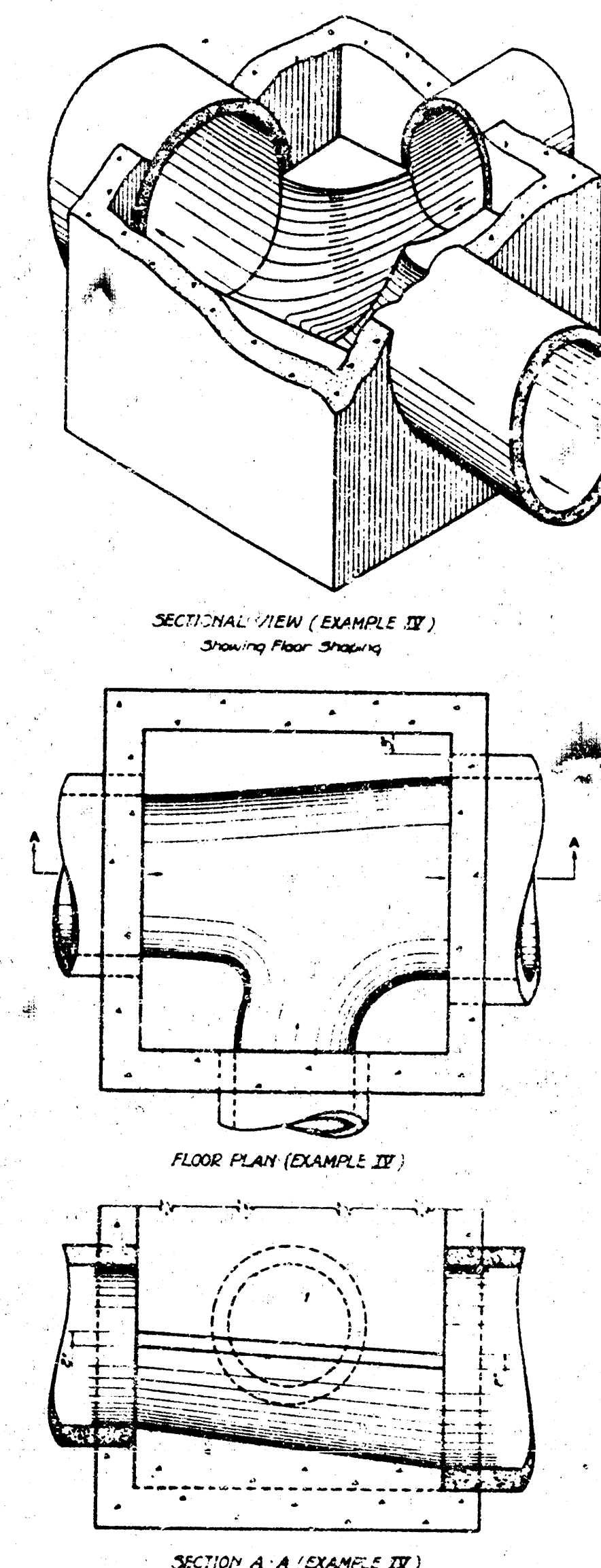
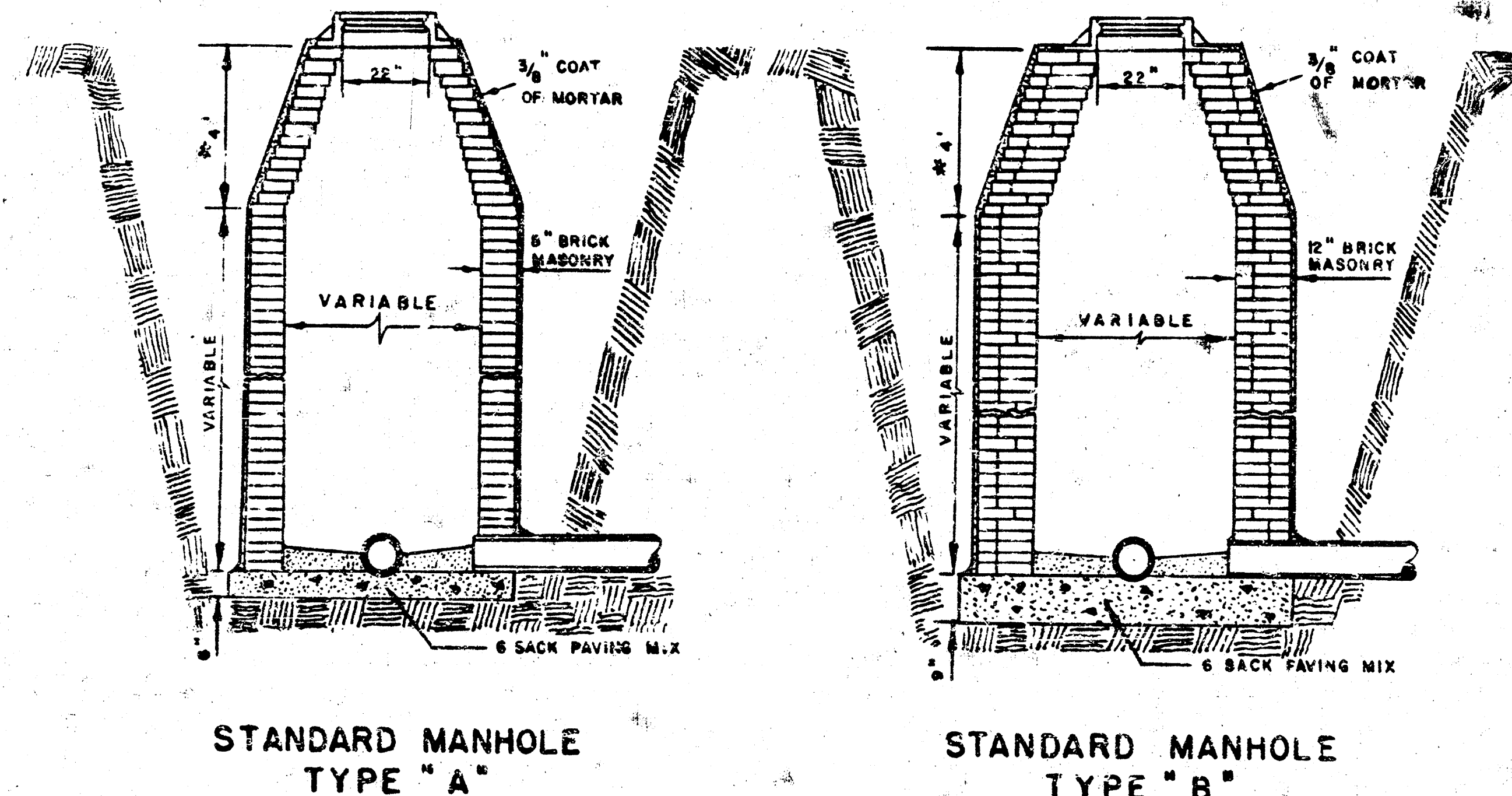
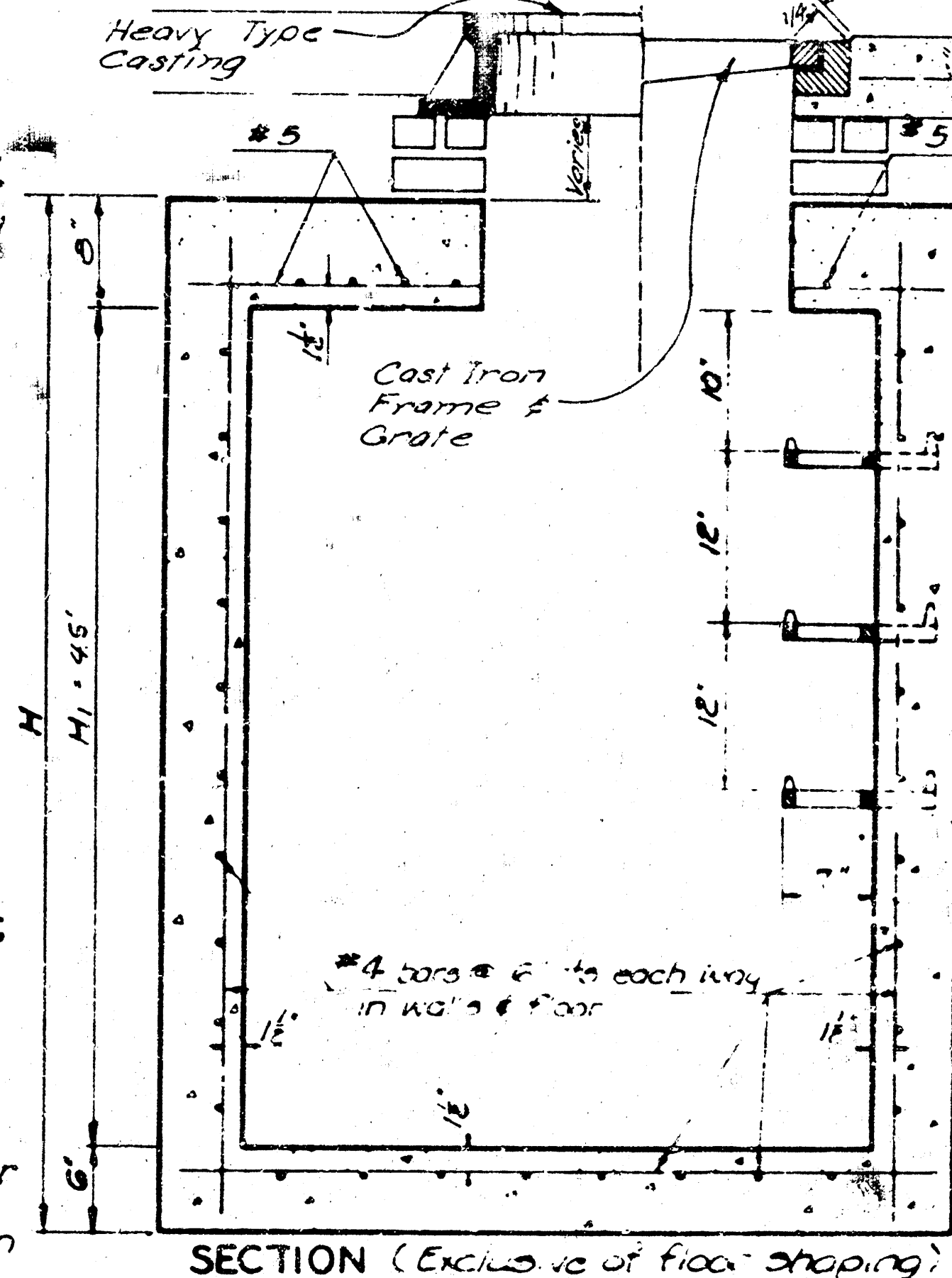
All exposed cast iron surfaces (rings & covers) not subjected to traffic, shall be painted either in the shop or in the field with one coat of a zinc dust paint, followed by two field coats of aluminum paint.

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

No additions in concrete quantities shall be made for shaping floor of Manholes.

When so ordered by the Engineer, the top of the manhole shall be sloped slightly to approximately fit the ground or other conditions.

Dimensions and weights of cast iron as shown on this sheet are minimum. Larger dimensions and/or heavier weights of cast iron may be used, but payment for cast iron shall be made on the weight as shown on this sheet.



Note: Contractor's is the option of using life cost mortgages, as approved by the Engineer (See Special Provision).

Payment of quantities shall be on a cost in place basis.

16	2 14-74	Light Type M.H. Cover & 9"y. M.H. K.G.L.	WLM	K.G.L.
		Modelled (Type C)		
15	6-13-75	Changed M.H. Shop & added open crown of heavy M.H. Cover.	WLM	K.G.L.
14	2-8-73	variation in Cost Iron	WLM	K.G.L.
NO	DATE	REVISION	BY	APP. U

STATE HIGHWAY COMMISSION OF KANSAS

REINFORCED
CONCRETE MANHOLE

STD. NO. 633 SCALE { 1 inch = 1 foot (for 12" x 36" sheets)
Except as noted
DESIGNED BY E.A.R. DATE 5-18 DETAIL BY W.A.B. TRACED BY W.A.B.
CHECKED BY A.L.B. APPROVED BY [Signature] DATE 4-5-6

GENERAL NOTES

MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.

STANDARD MANHOLES TYPE "C"
AND STANDARD DROP MANHOLES TYPE
"C" SHALL BE BID AS STANDARD MAN-
HOLES FOR THE TYPE AND DIAMETER
INDICATED

OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4 FT UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5 FT. DIAMETER.

THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.

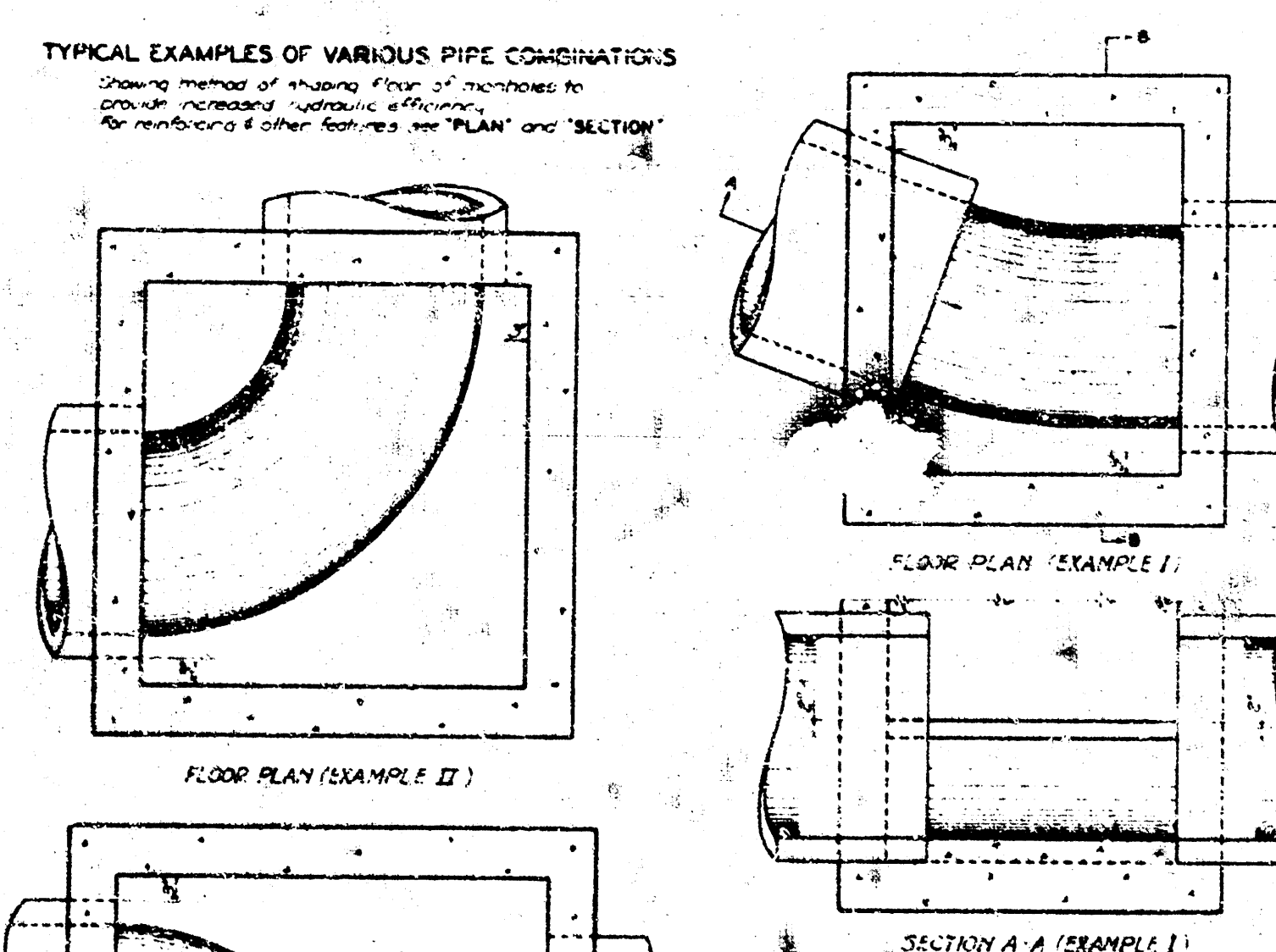
NOTE: OPENING FOR INLET PIPE
CUT IN MANHOLE WALL AND PIPE
GROUTED IN PLACE WITH NON-
SHRINKING GROUT. EXTERIOR
OF COMPLETED CONNECTION TO
BE SEALED WITH APPROVED
COATING.

PIPE TRIMMED TO 1/4" BELOW PIPE CENTER LINE
ADDITIONAL INLET PIPE
SEALED WITH GROUT TO FORM FLOW CHANNEL

STANDARD MANHOLE, TYPE "C"

* DRAW = 6' ON 5' DIA. M.H.

TYPICAL EXAMPLES OF VARIOUS PIPE COMBINATIONS
 Showing method of attaching floor of manholes to
 provide increased hydraulic efficiency
 for reinforcing & other features, see "PLAN" and "SECTION".



CAST IRON STEP

REINFORCED CONCRETE ENCASEMENT

