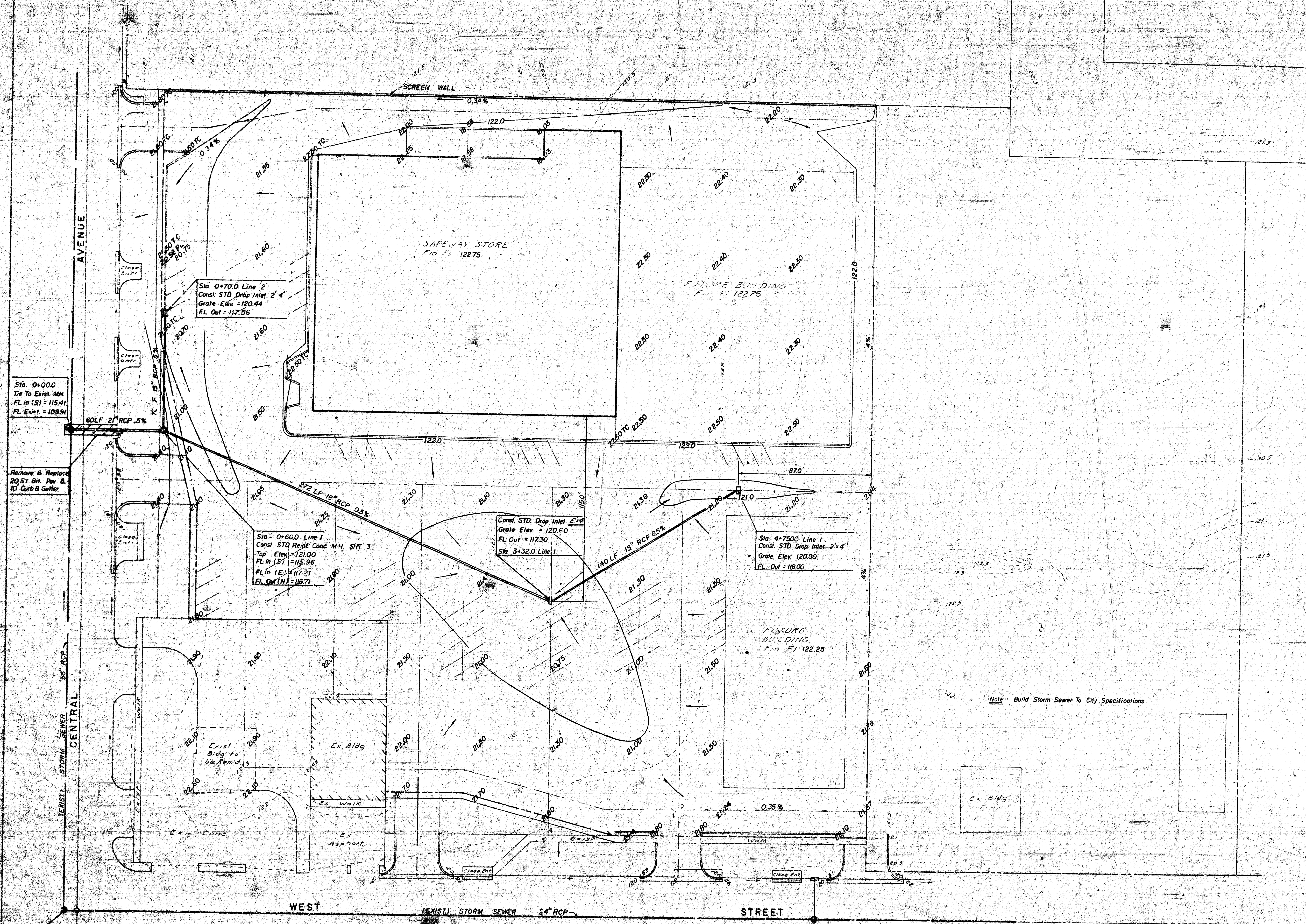


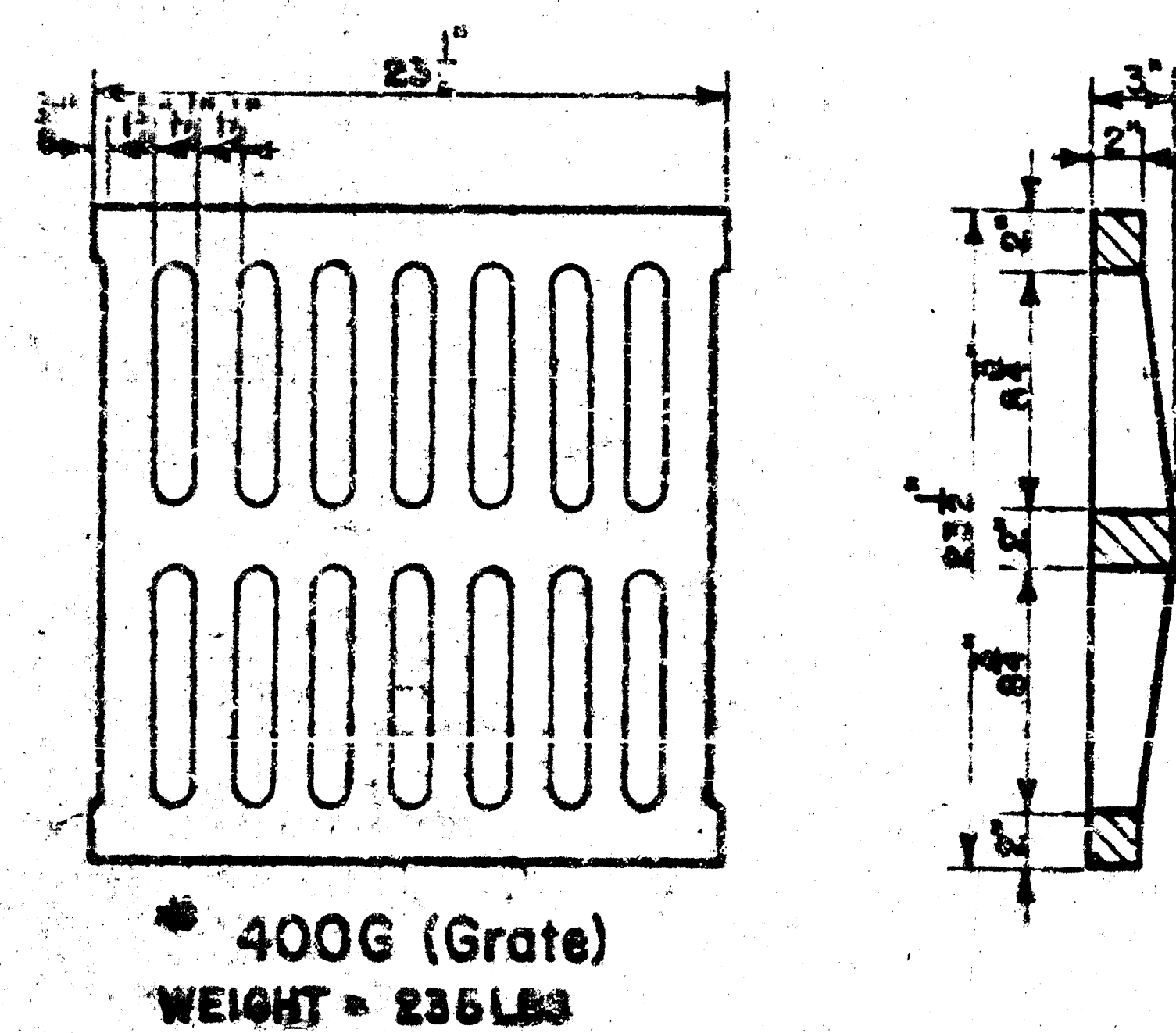
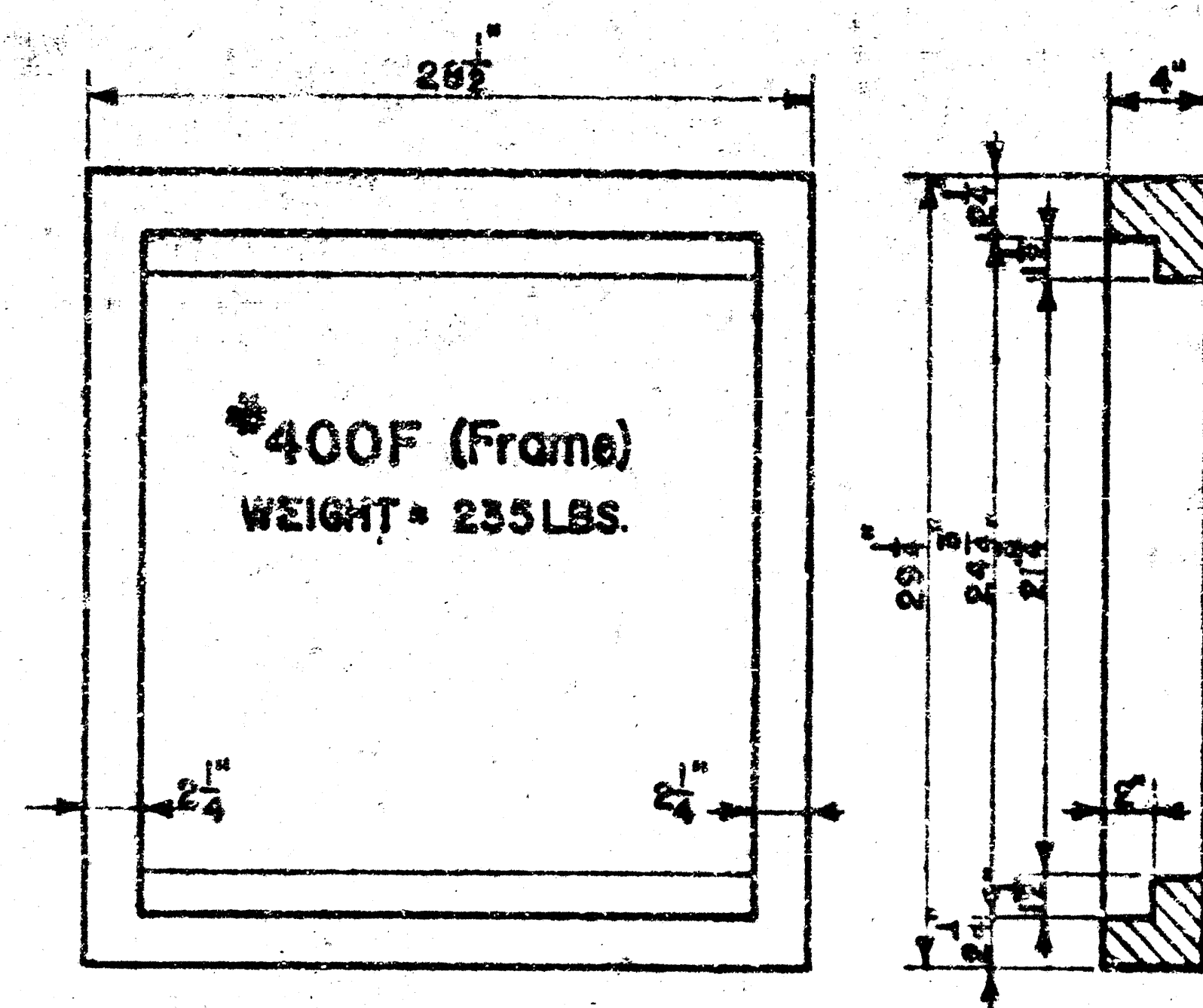
Scale 1"=30'



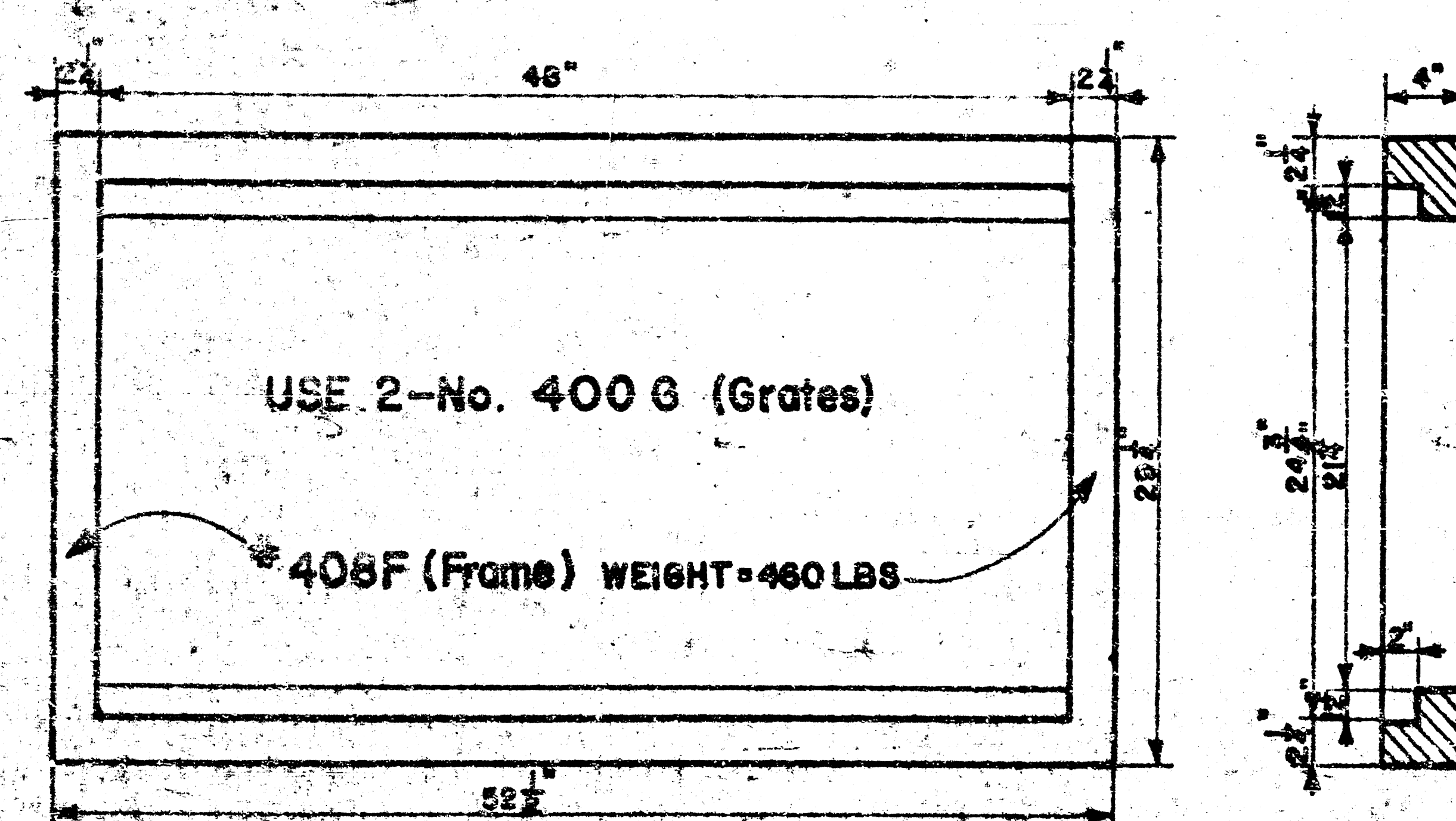
Note: Build Storm Sewer To City Specifications

SITE GRADING & DRAINAGE PLAN

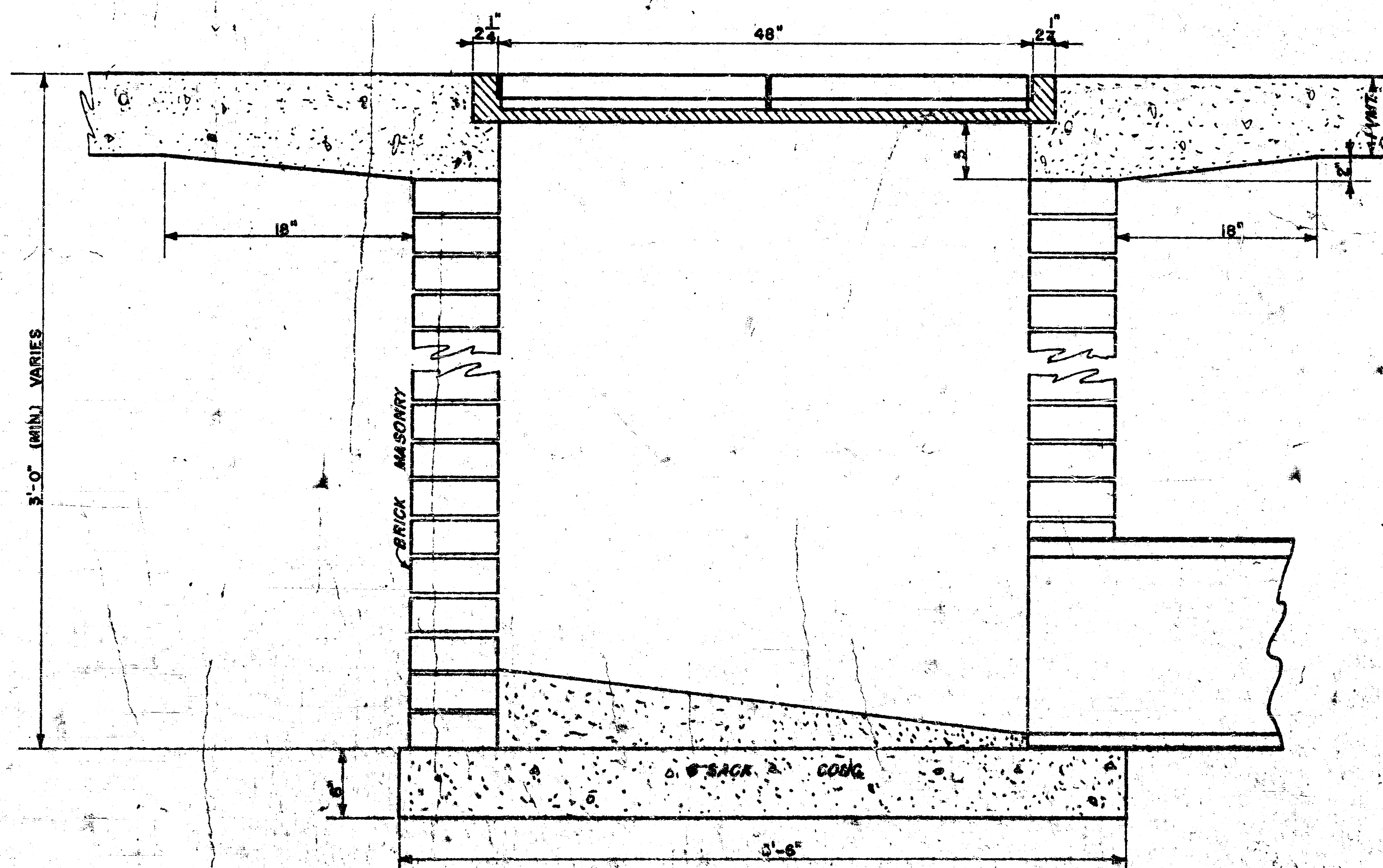
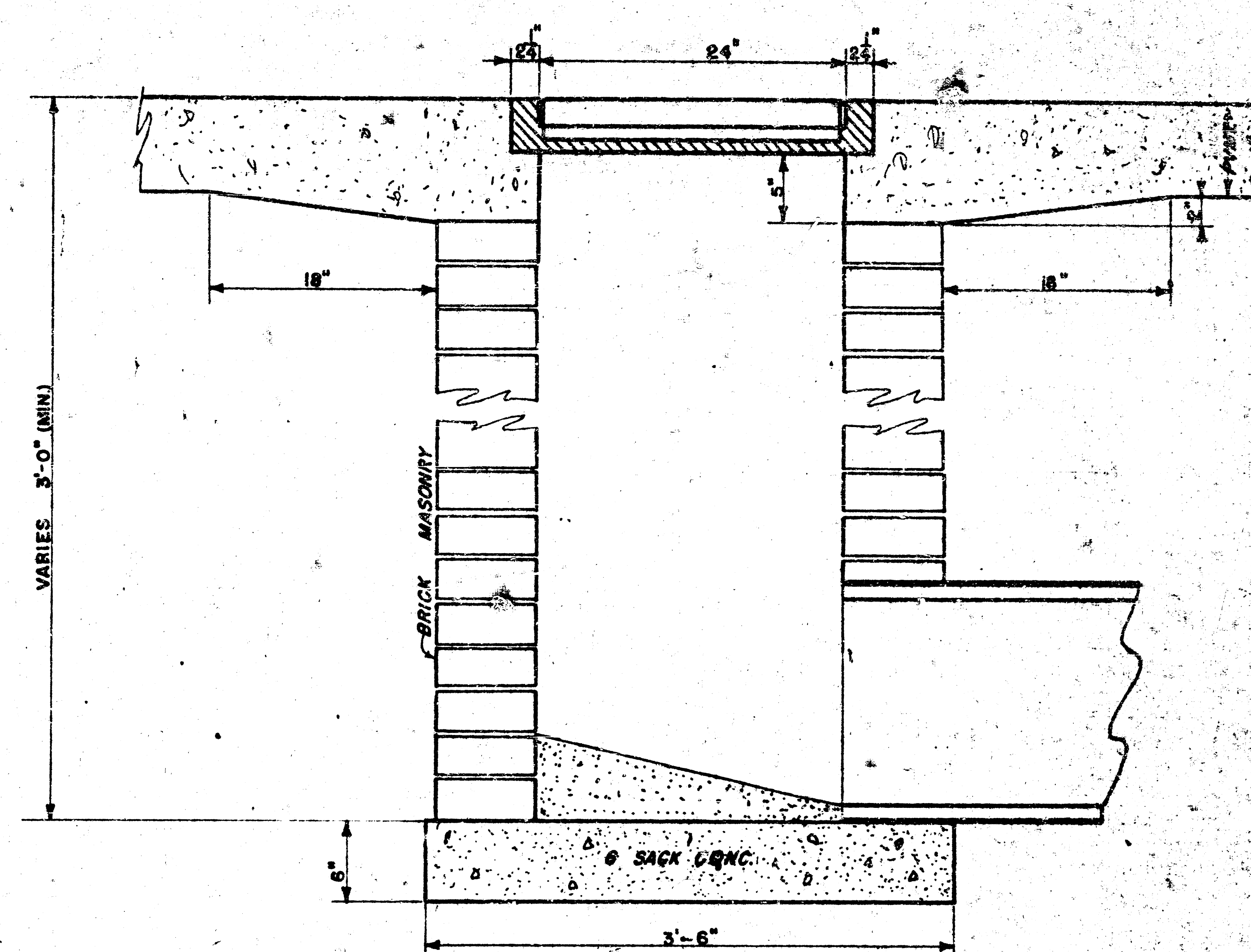
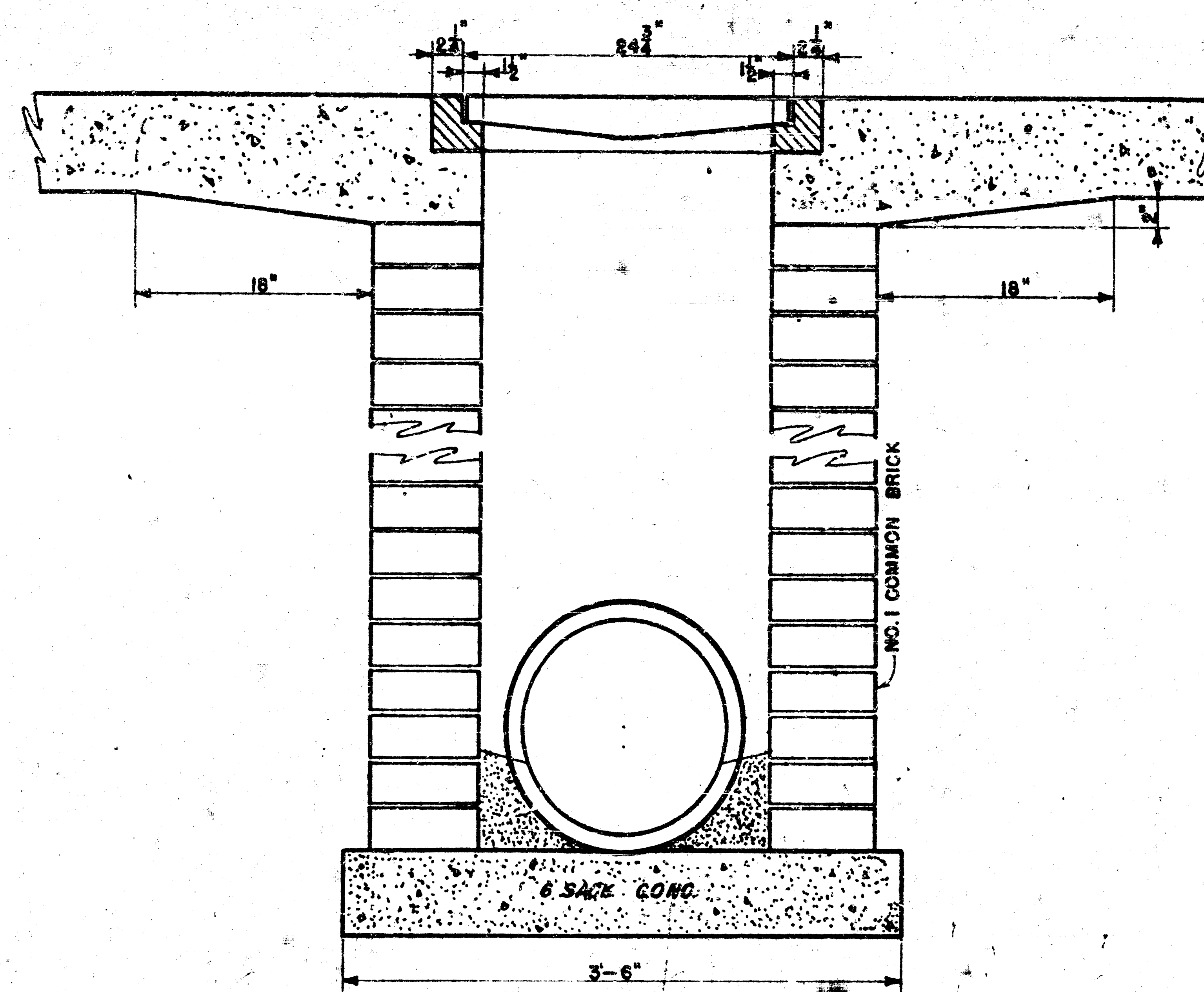
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be used only if approved by the engineer.



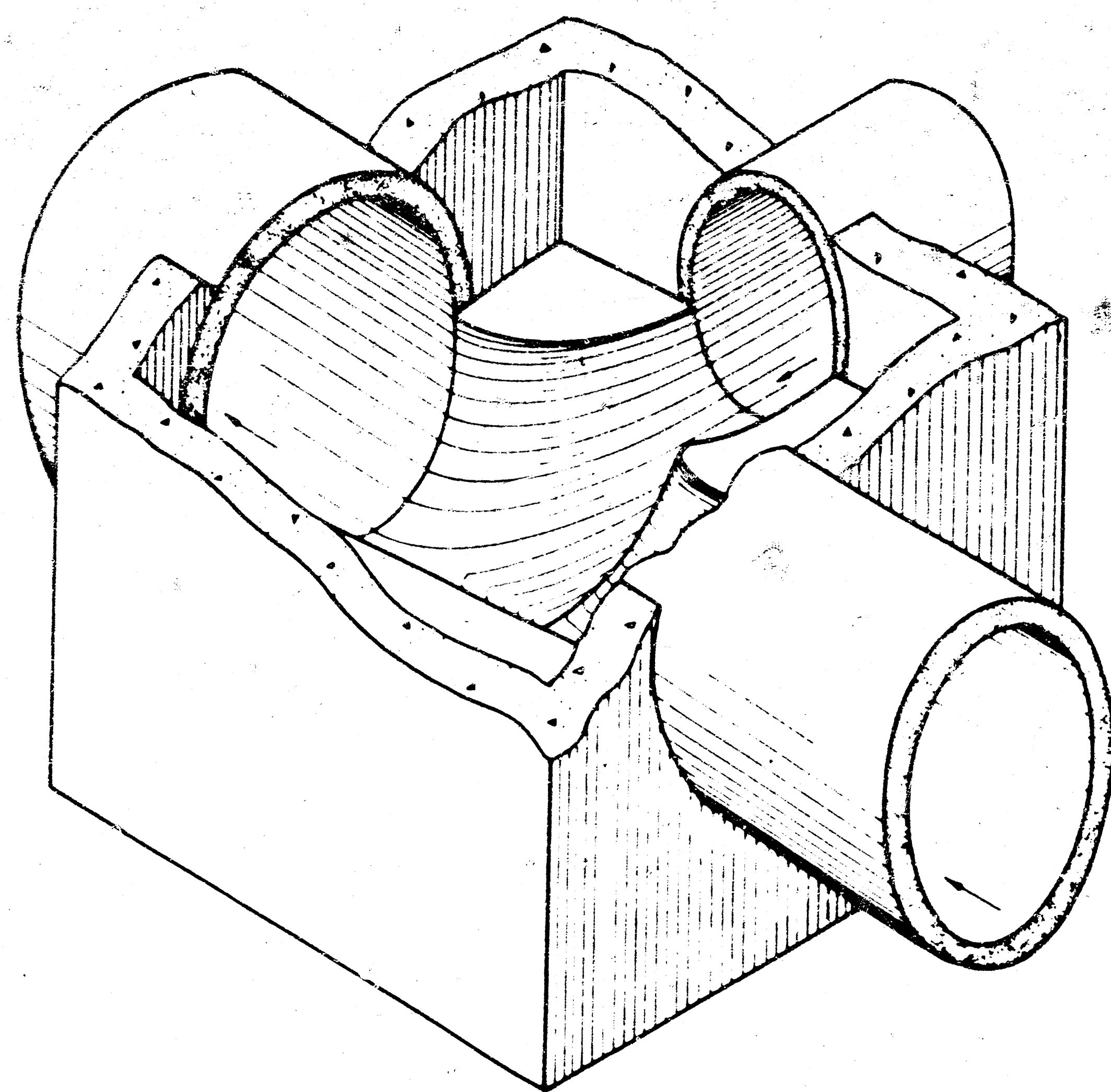
24"x24" Frame & Grate Detail



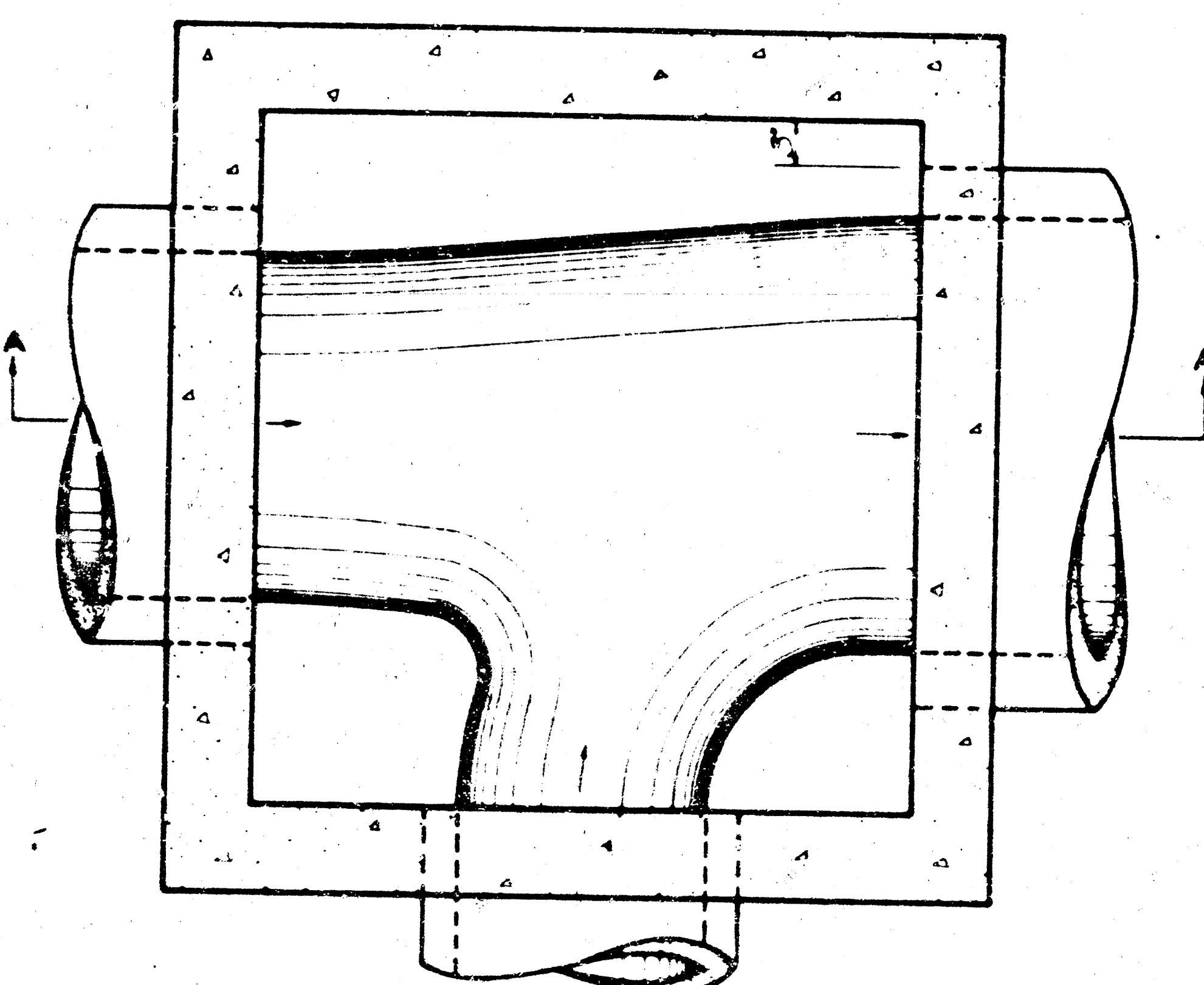
Double 24"x24" Frame Detail



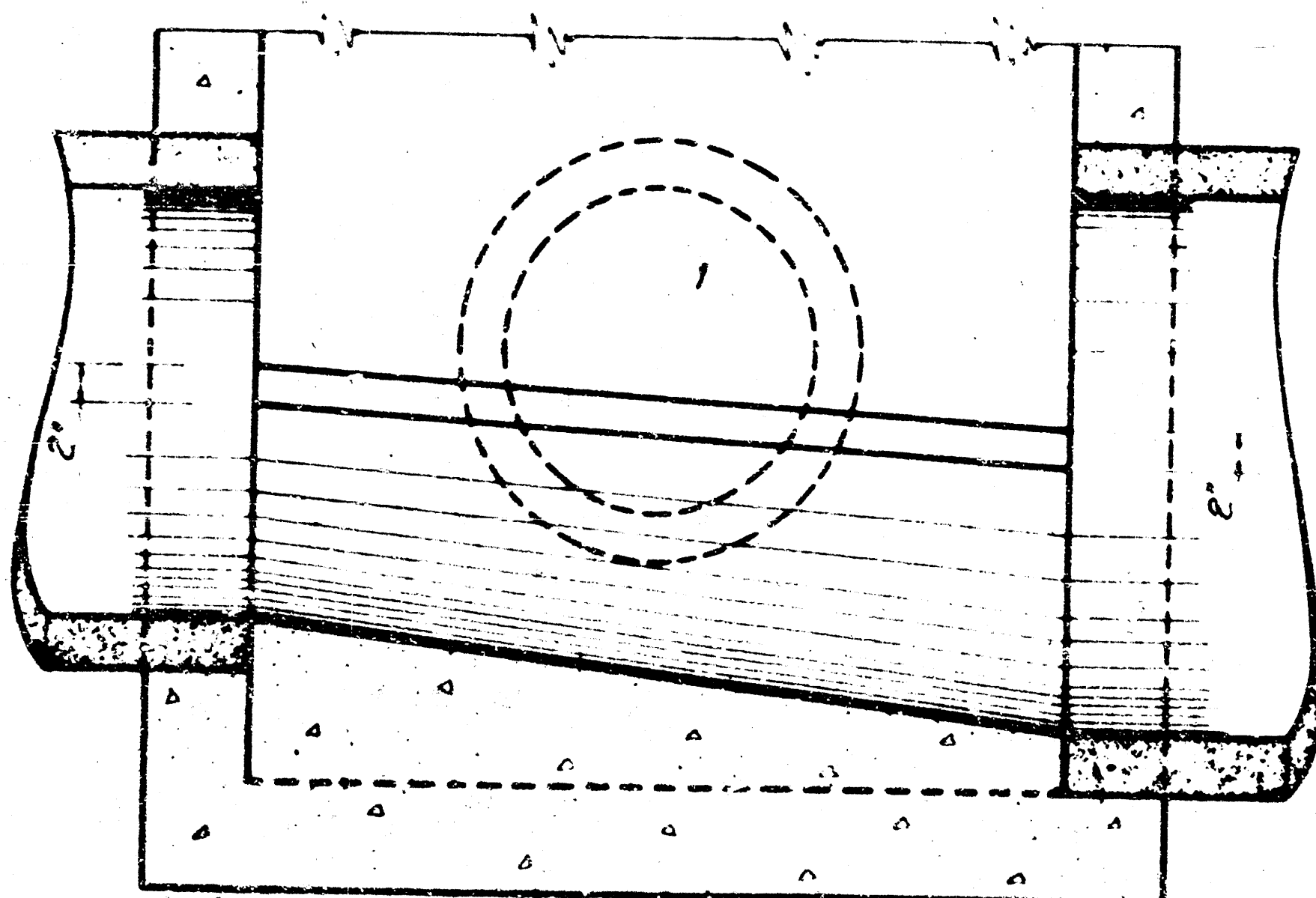
DROP INLET DETAIL
 R. W. Linn City Engineer
 City of Wichita, Kansas
 Project
 Project No.



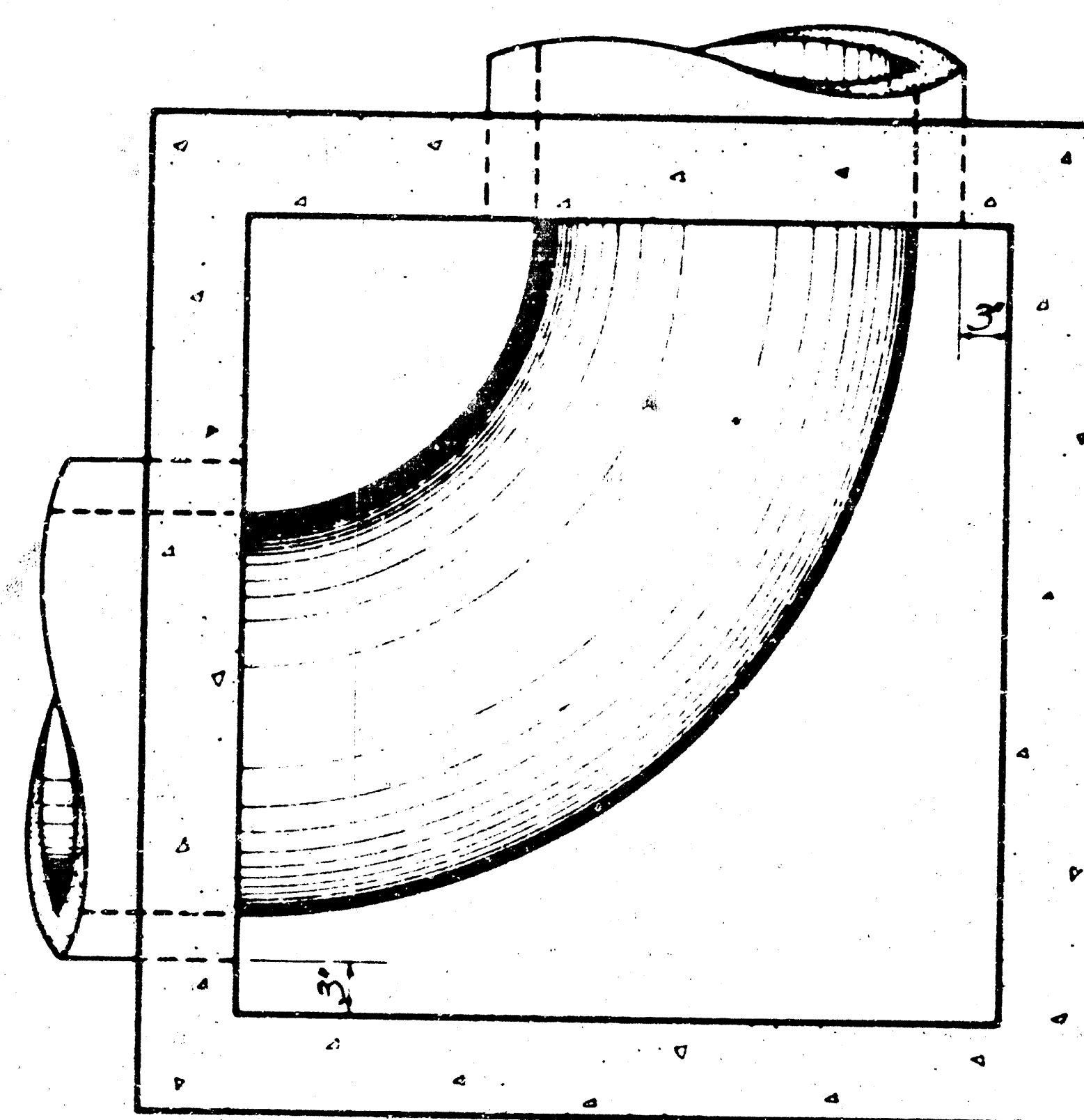
SECTIONAL VIEW (EXAMPLE IV)
Showing Floor Shaping



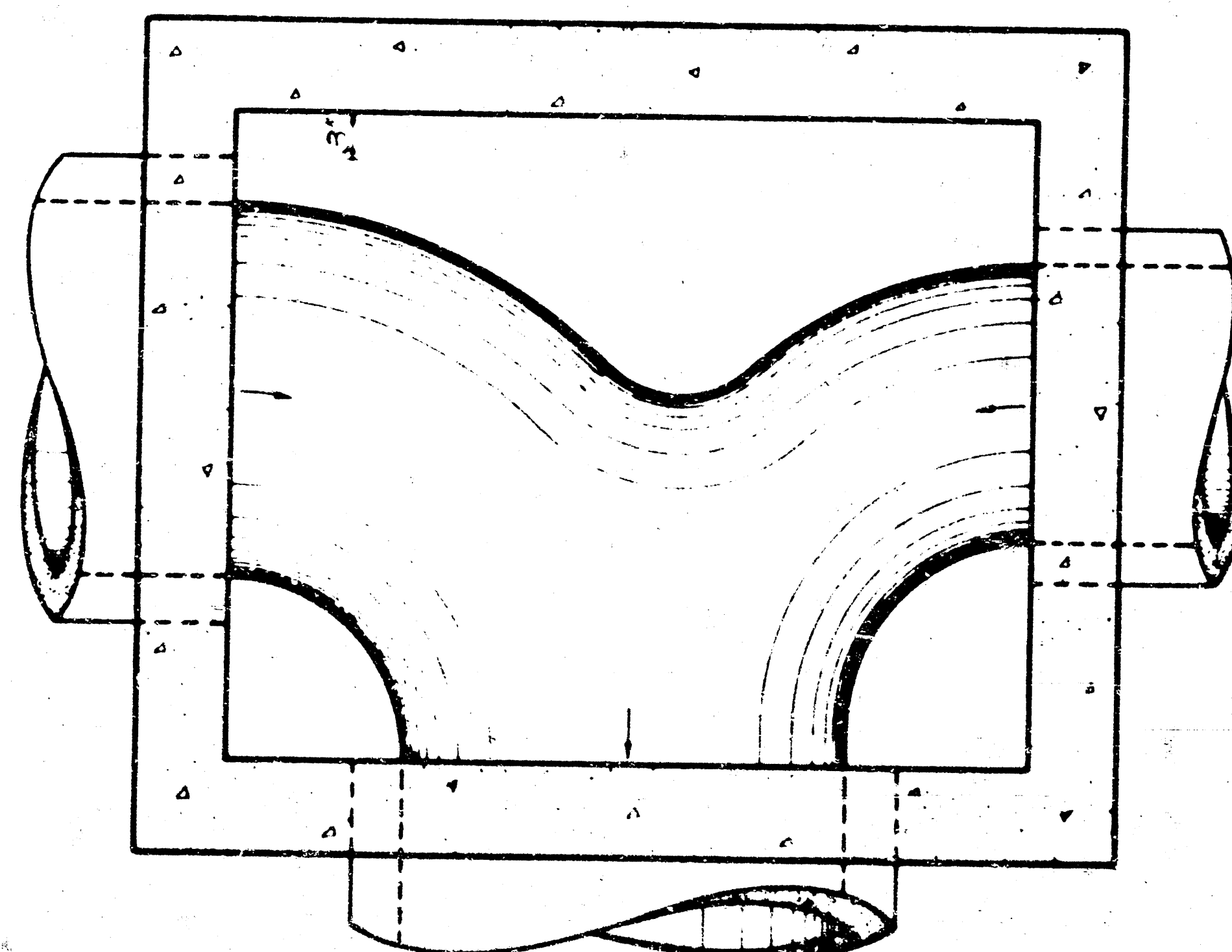
FLOOR PLAN (EXAMPLE IV)



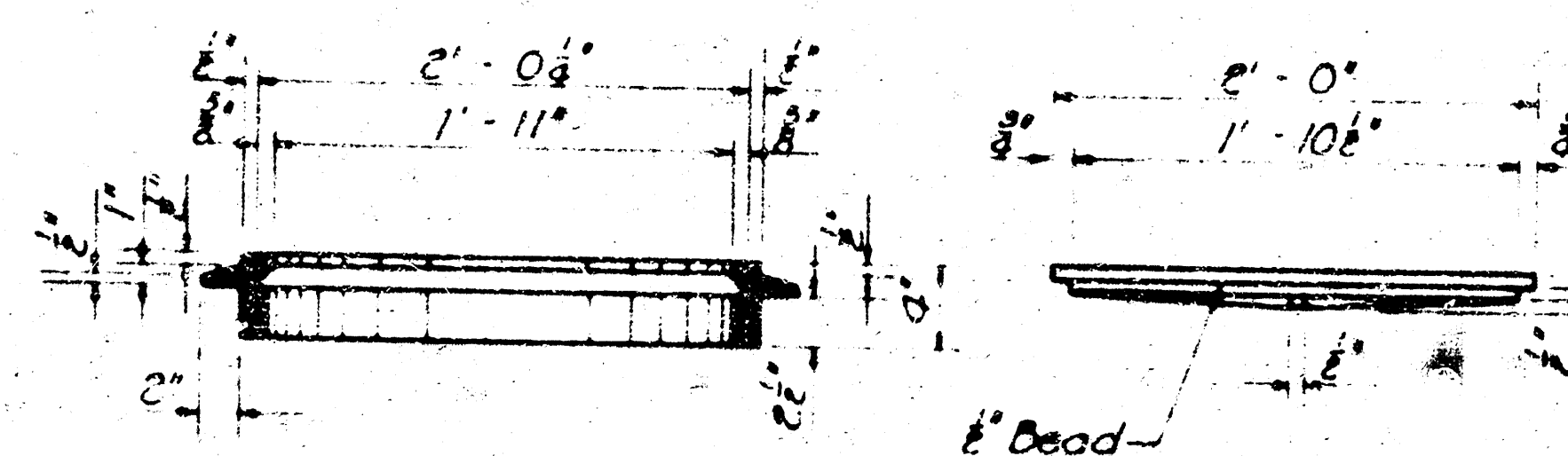
SECTION A-A (EXAMPLE IV)



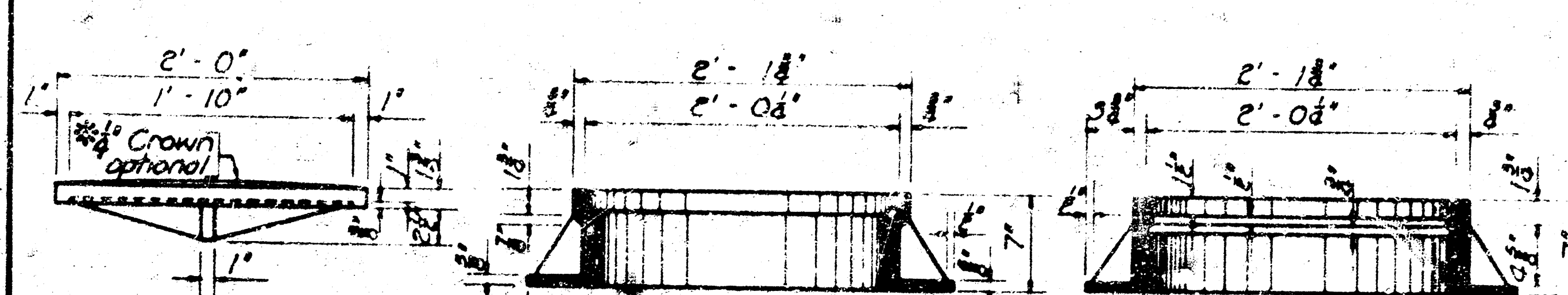
FLOOR PLAN (EXAMPLE II)



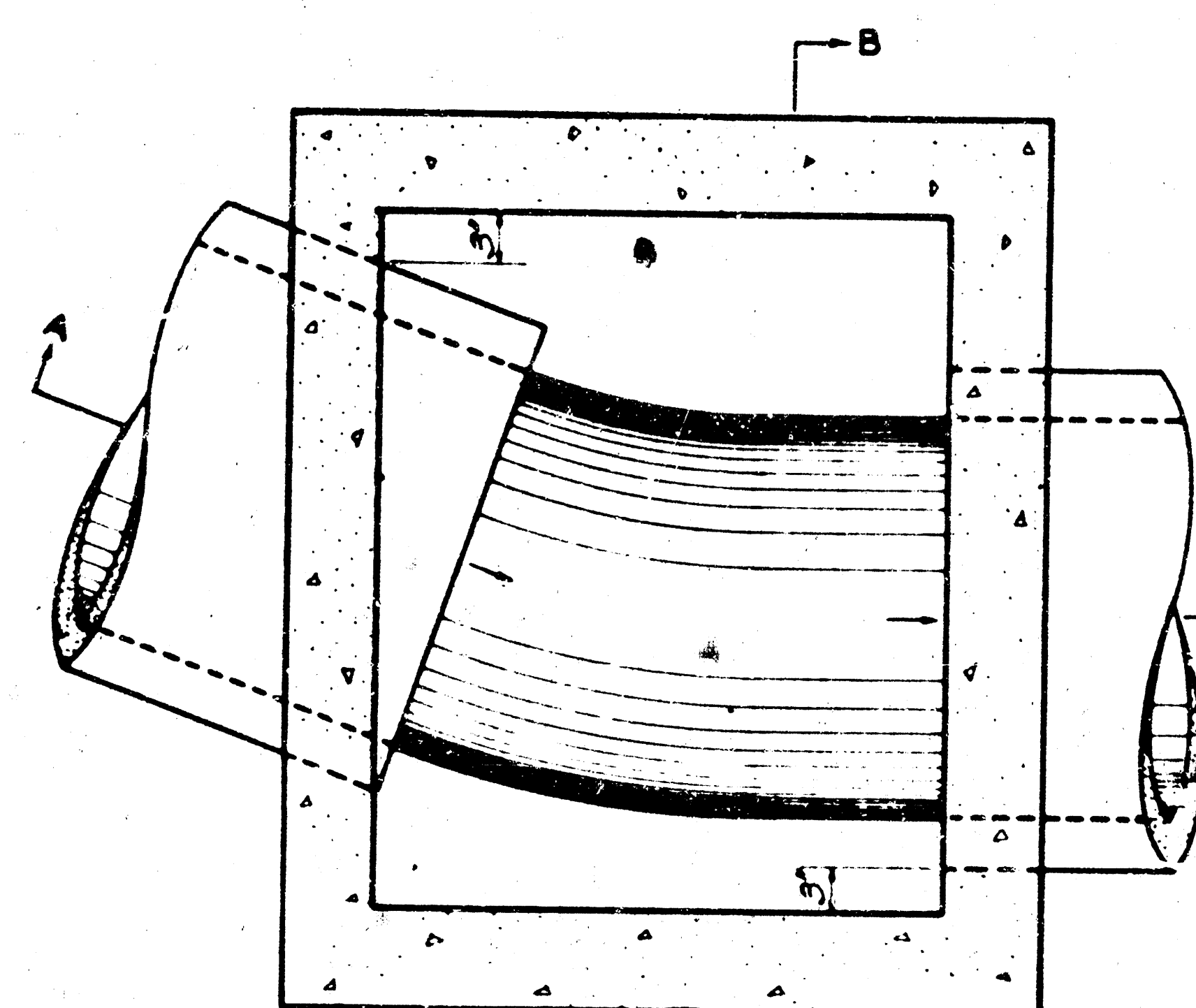
FLOOR PLAN (EXAMPLE III)



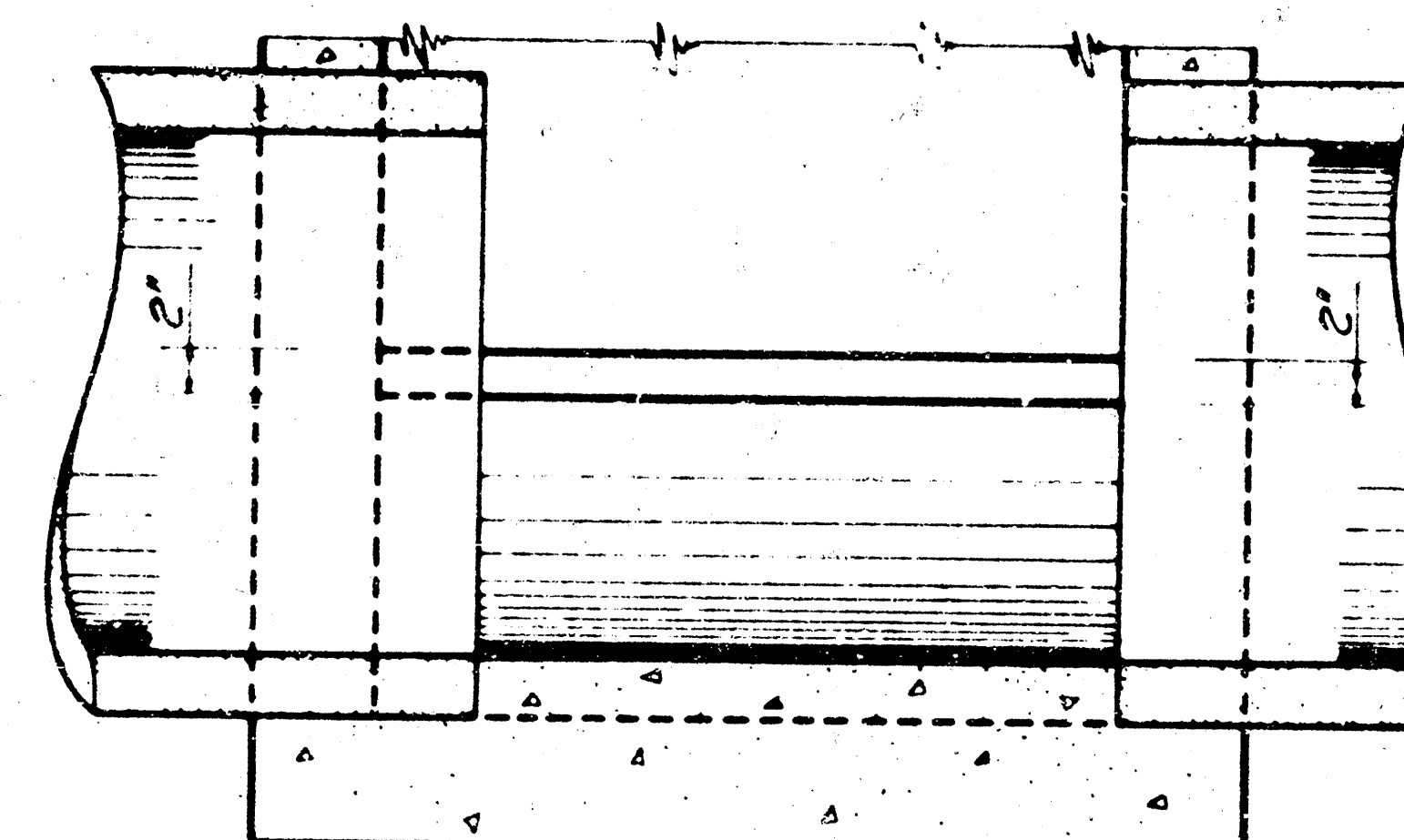
NOTE: Weight of castings includes no allowance for fillets and overruns.
TYPE C
CAST IRON MANHOLE RING
Weight - 53 Lbs.
CAST IRON MANHOLE COVER
Weight - 64 Lbs.
LIGHT TYPE MANHOLE COVER & RING



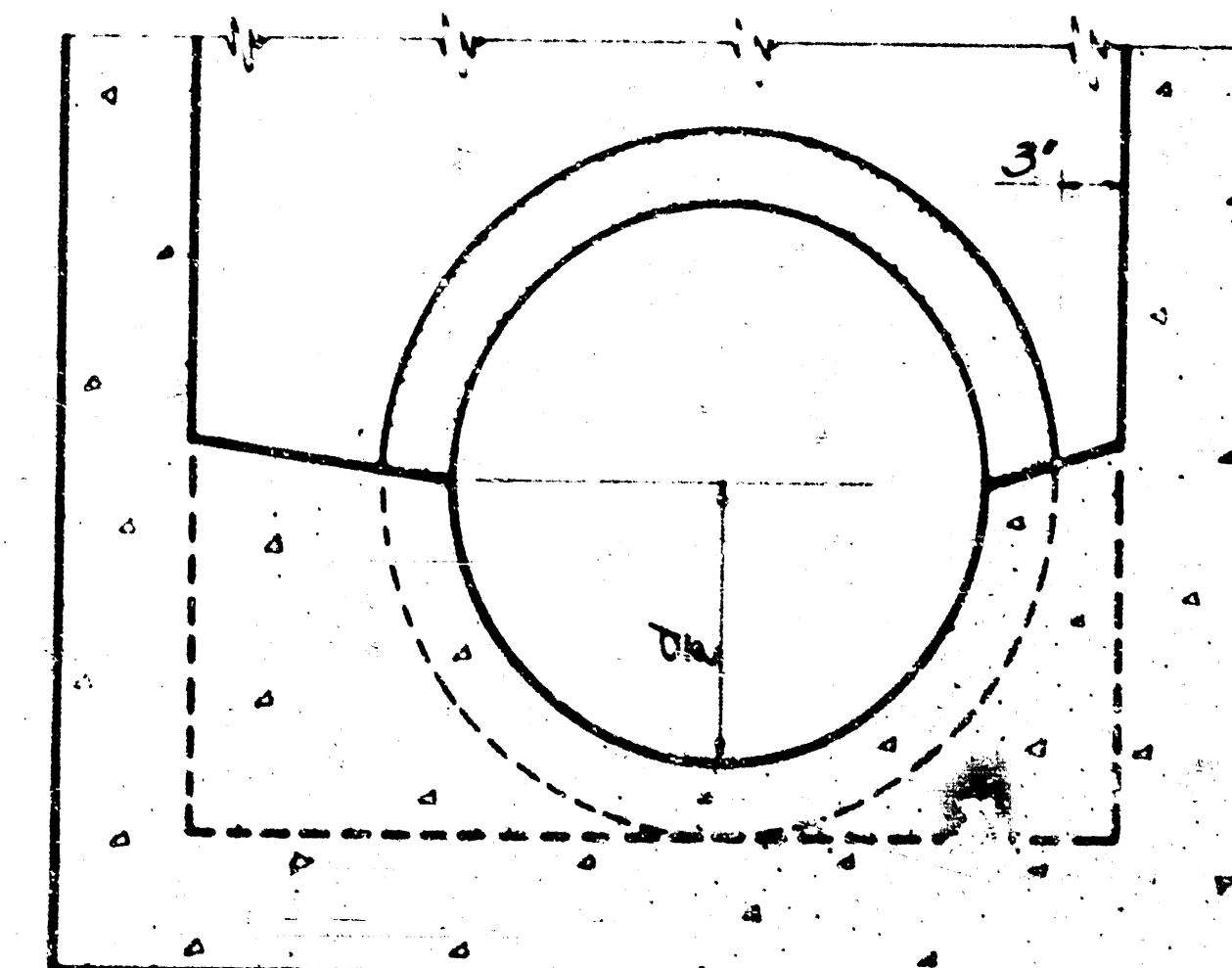
NOTE: Either Type 'A' or 'B' may be used.
TYPE A & B
CAST IRON MANHOLE COVER
Weight - 134 Lbs.
NOTE: The weight without 1/4" crown shall be 9 lbs. less than shown above.
TYPE A
CAST IRON MANHOLE RING
Weight - 192 Lbs.
TYPE B
CAST IRON MANHOLE RING
Weight - 198 Lbs.
HEAVY TYPE MANHOLE COVER & RING



FLOOR PLAN (EXAMPLE I)

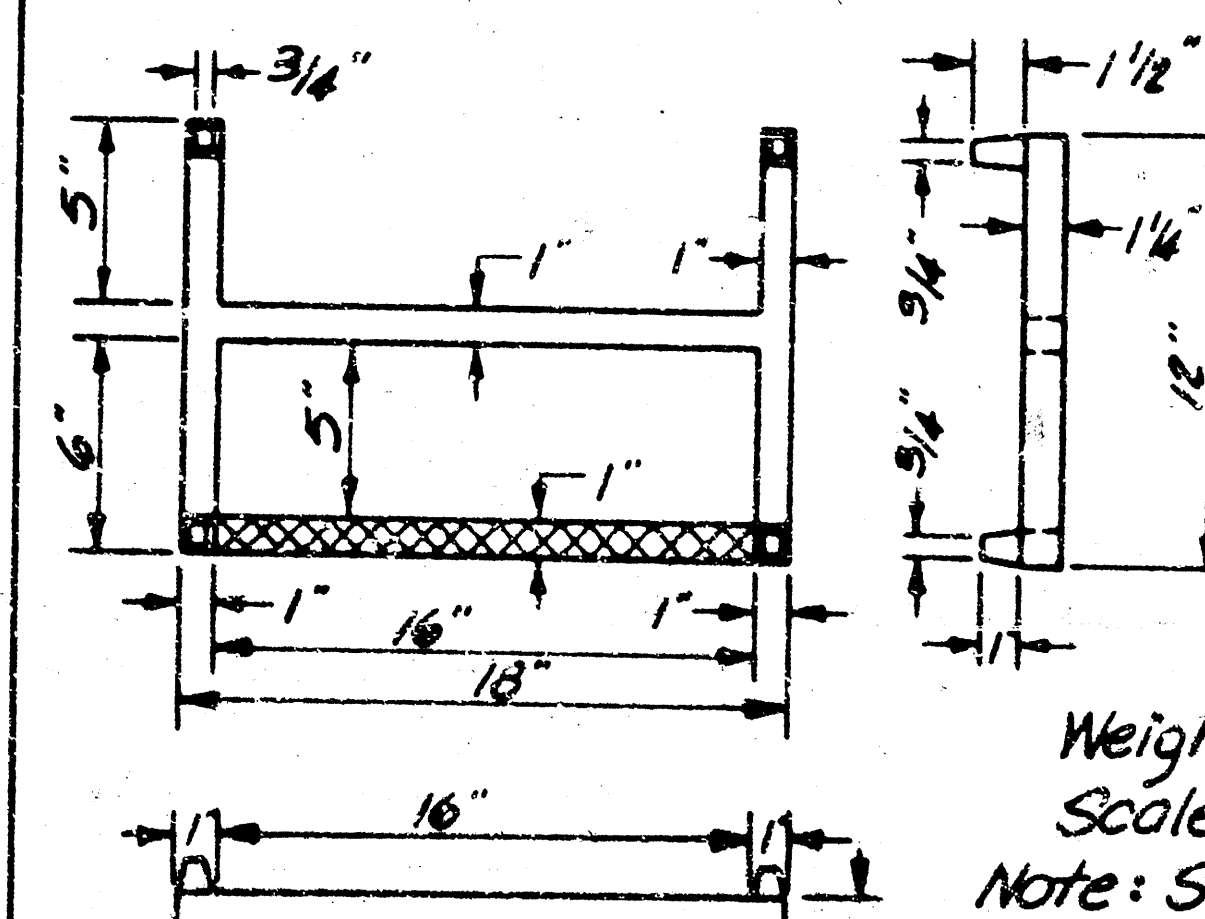


SECTION A-A (EXAMPLE I)



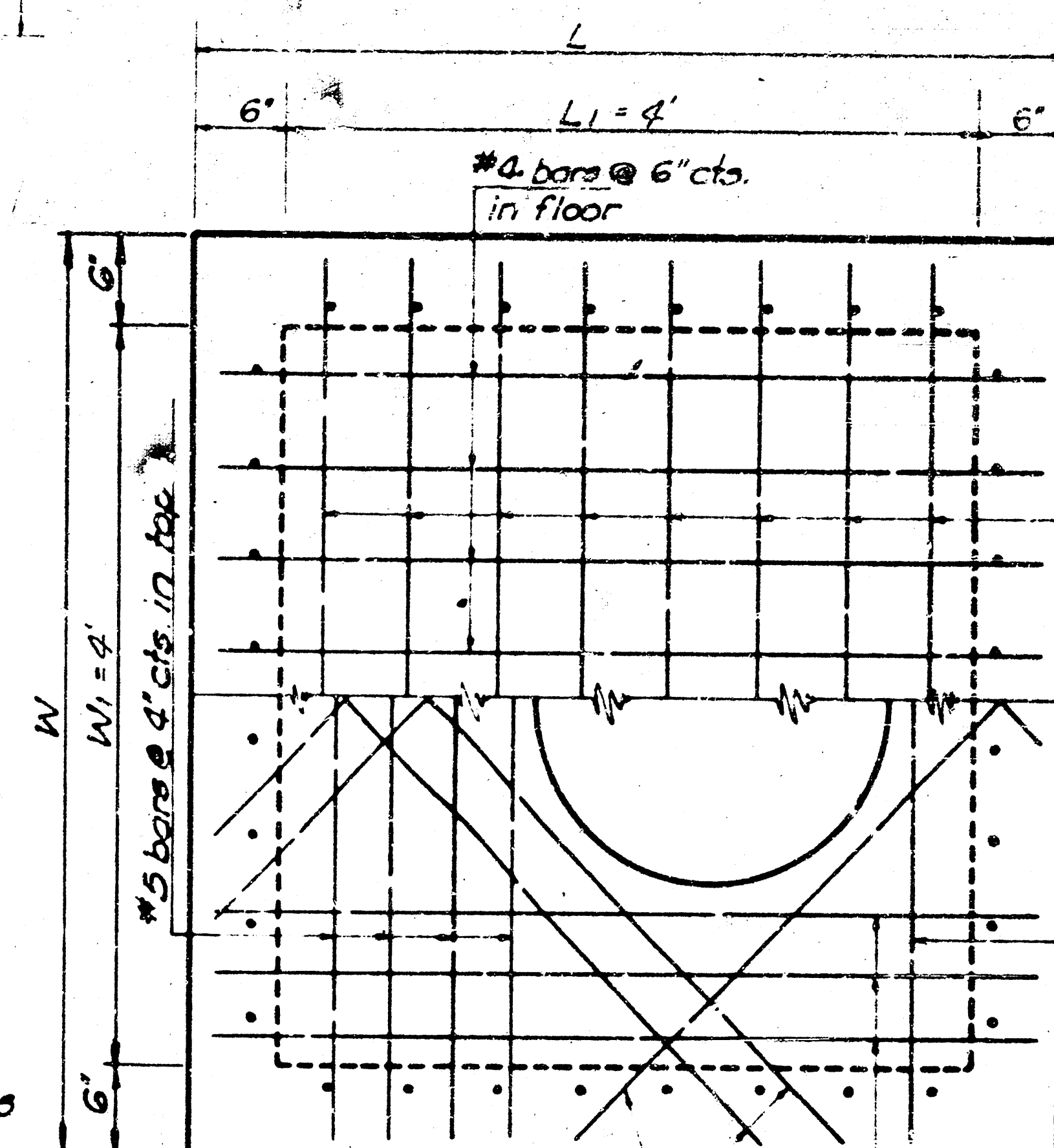
SECTION B-B (EXAMPLE I)

NOTE: Class 'A' concrete to be used thruout. Bevel all exposed edges with a 3" triangular moulding. At the contractor's option Class 'A' concrete (AE) may be used thruout, but payment shall be made as Cu. Yds. of Class 'A' concrete, misc. In general, pipes will enter and leave the manhole at various positions. Where possible bend bars around pipes. 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 line 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.

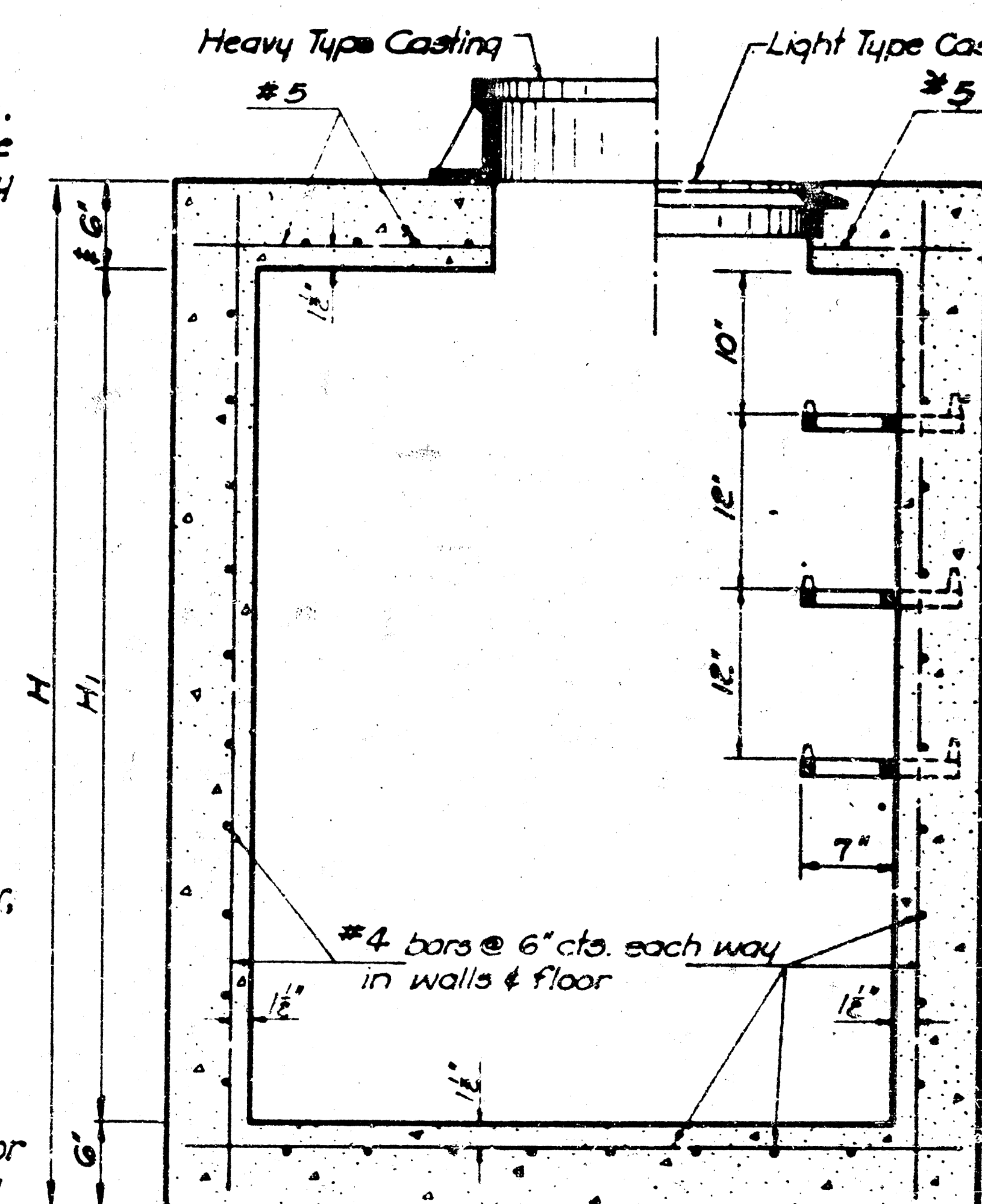


CAST IRON STEP

Where dimension 'L' or 'W' is greater than 6', use 8" slab thickness.



PLAN
(Showing top & floor Reinforcing.)



SECTION (Exclusive of floor shaping)

Note: Contractor has the option of using pre-cast manhole as approved by the engineer (See Special Provision). Payment of quantities shall be on a plan labeled (Type C). Changed M.H. Step & added opt crown of heavy M.H. Cover. Variation in Cast Iron

NO.	DATE	REVISIONS
16	2-14-74	Light Type M.H. Cover & Ring labeled (Type C)
15	6-13-73	Changed M.H. Step & added opt crown of heavy M.H. Cover.
14	2-8-73	Variation in Cast Iron

STATE HIGHWAY COMMISSION OF KANSAS

REINFORCED CONCRETE MANHOLE

STD. NO. 633 SCALE 1/2" = 1' (For 24" x 24" manhole)
DESIGNED BY DATE 2-22-73
CHECKED BY A.L.C. APPROVED BY J.N. Lumsden