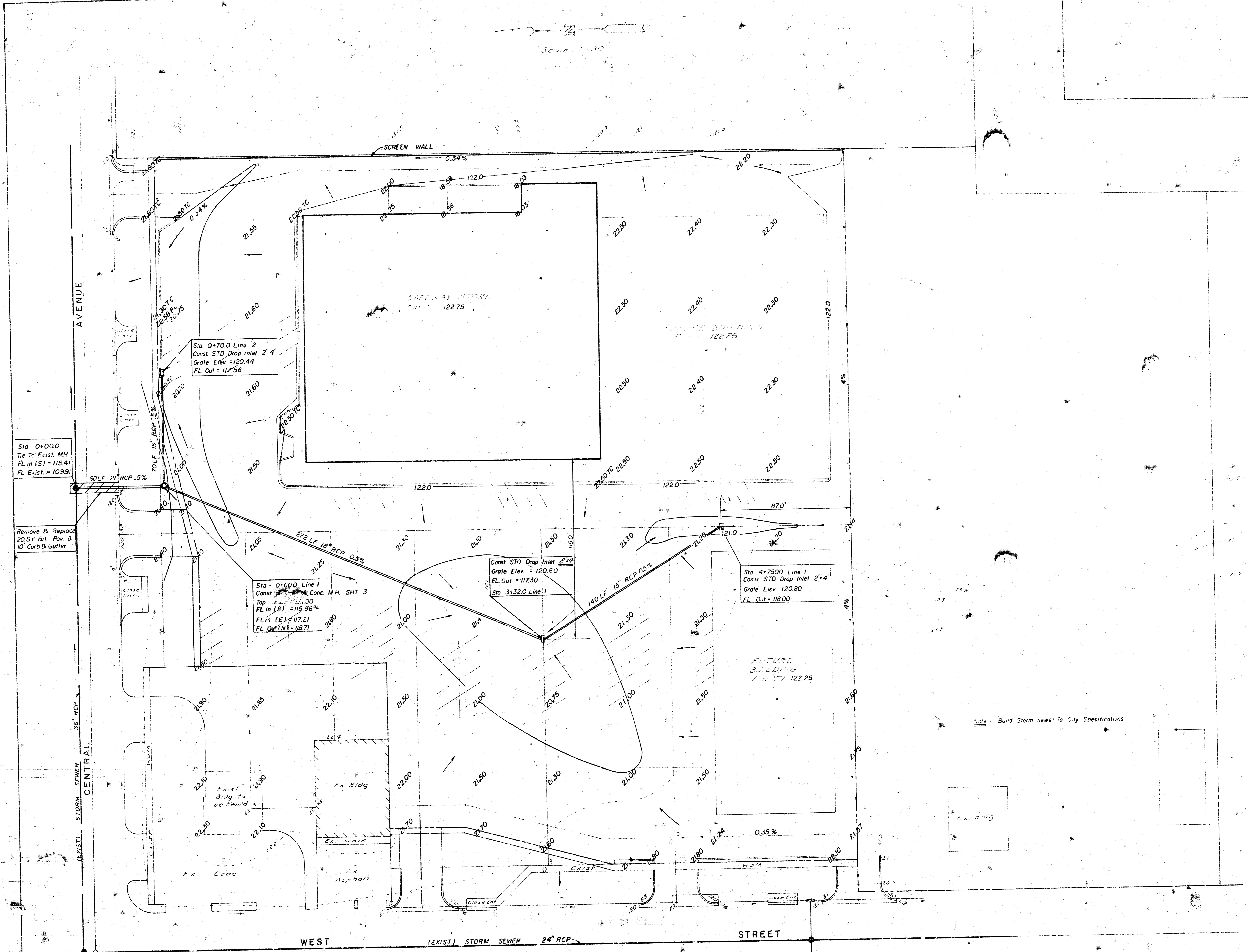


Scale 1"=30'



Sta 0+00.0  
Tie To Exist. MH.  
FL in (S) = 115.41  
FL Exist = 109.91

Remove & Replace  
20 SY Bit Pav. &  
10' Curb & Gutter

Sta 0+70.0 Line 2  
Const. STD Drop Inlet 2'x4'  
Grate Elev. = 120.44  
FL Out = 117.56

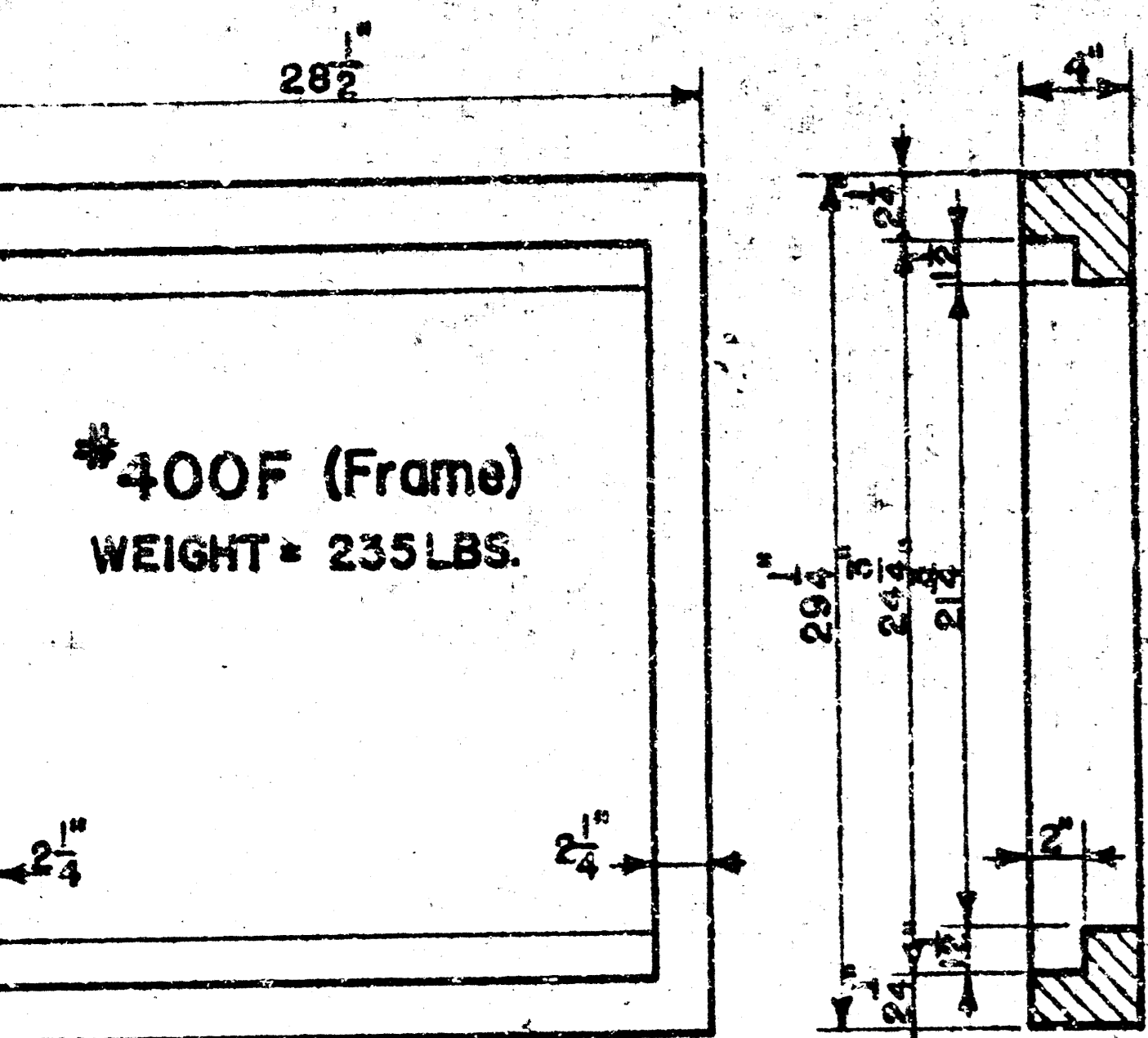
Sta 0+60.0 Line 1  
Const. STD Drop Inlet 2'x4'  
Top Elev. = 121.30  
FL in (S) = 115.96  
FL in (E) = 117.21  
FL Out (N) = 115.71

Const. STD Drop Inlet 2'x4'  
Grate Elev. = 120.60  
FL Out = 117.30  
Sta 3+32.0 Line 1

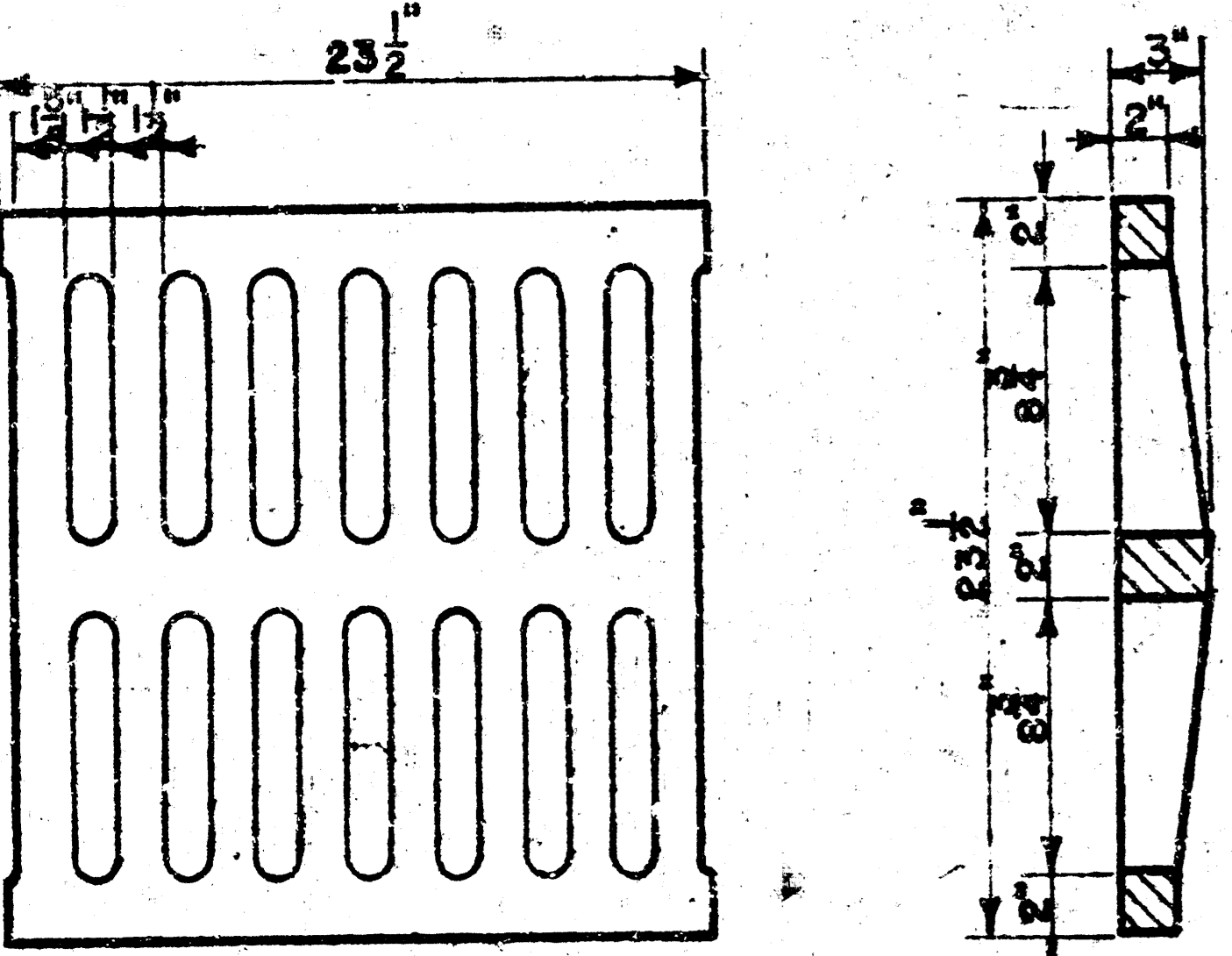
Sta 4+75.00 Line 1  
Const. STD Drop Inlet 2'x4'  
Grate Elev. 120.80  
FL Out = 119.00

Note: Build Storm Sewer To City Specifications

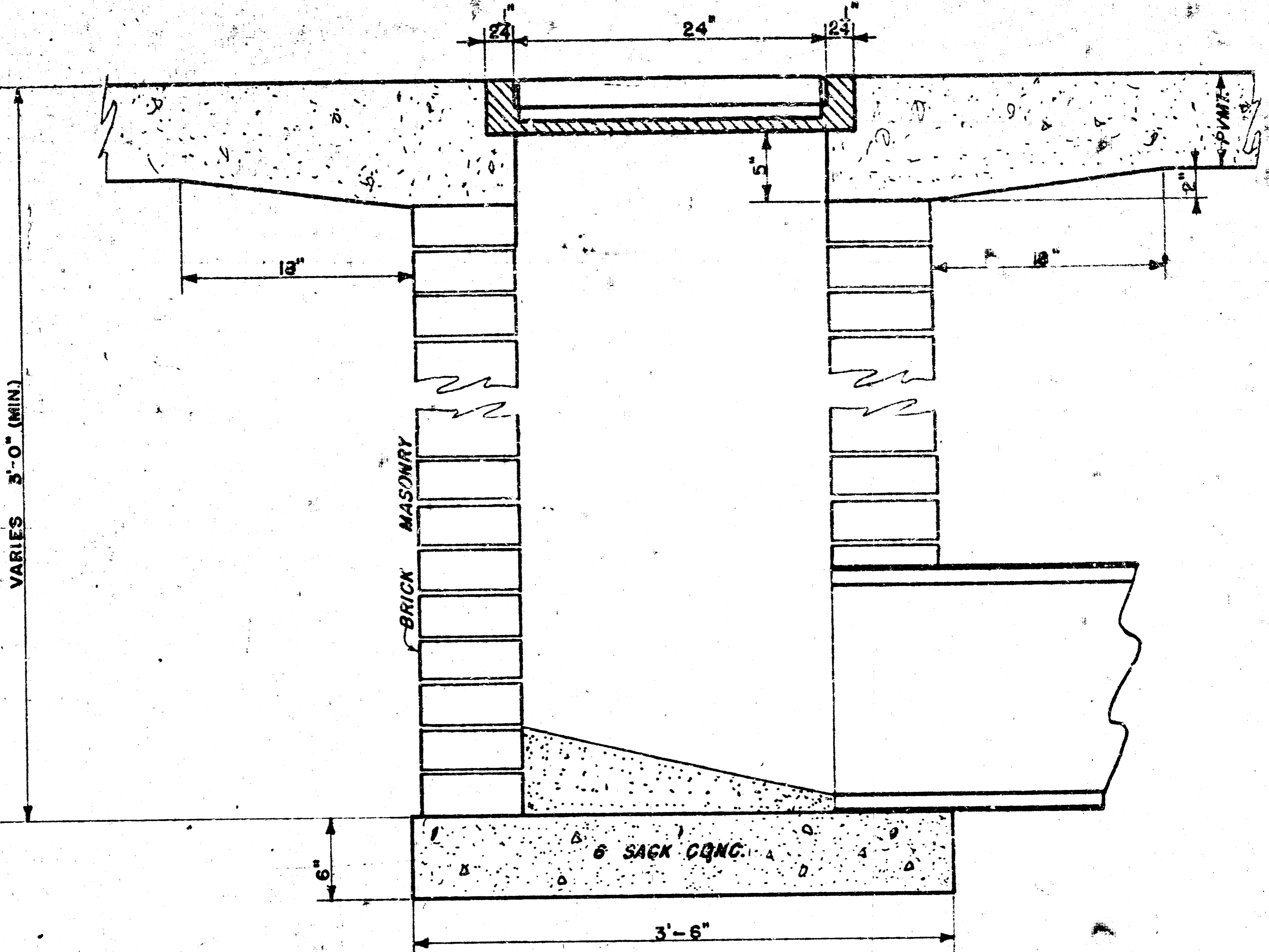
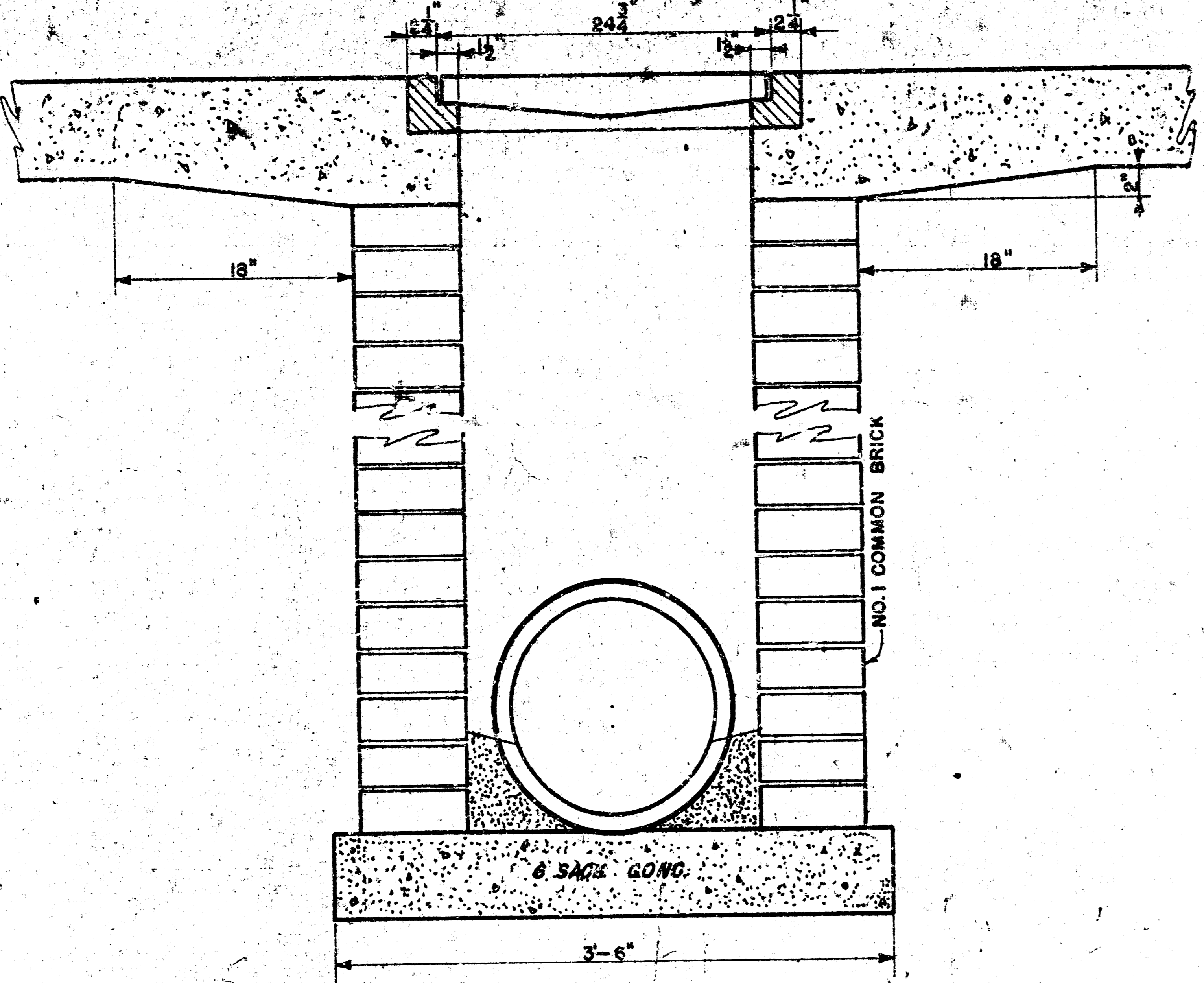
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be used only if approved by the engineer.



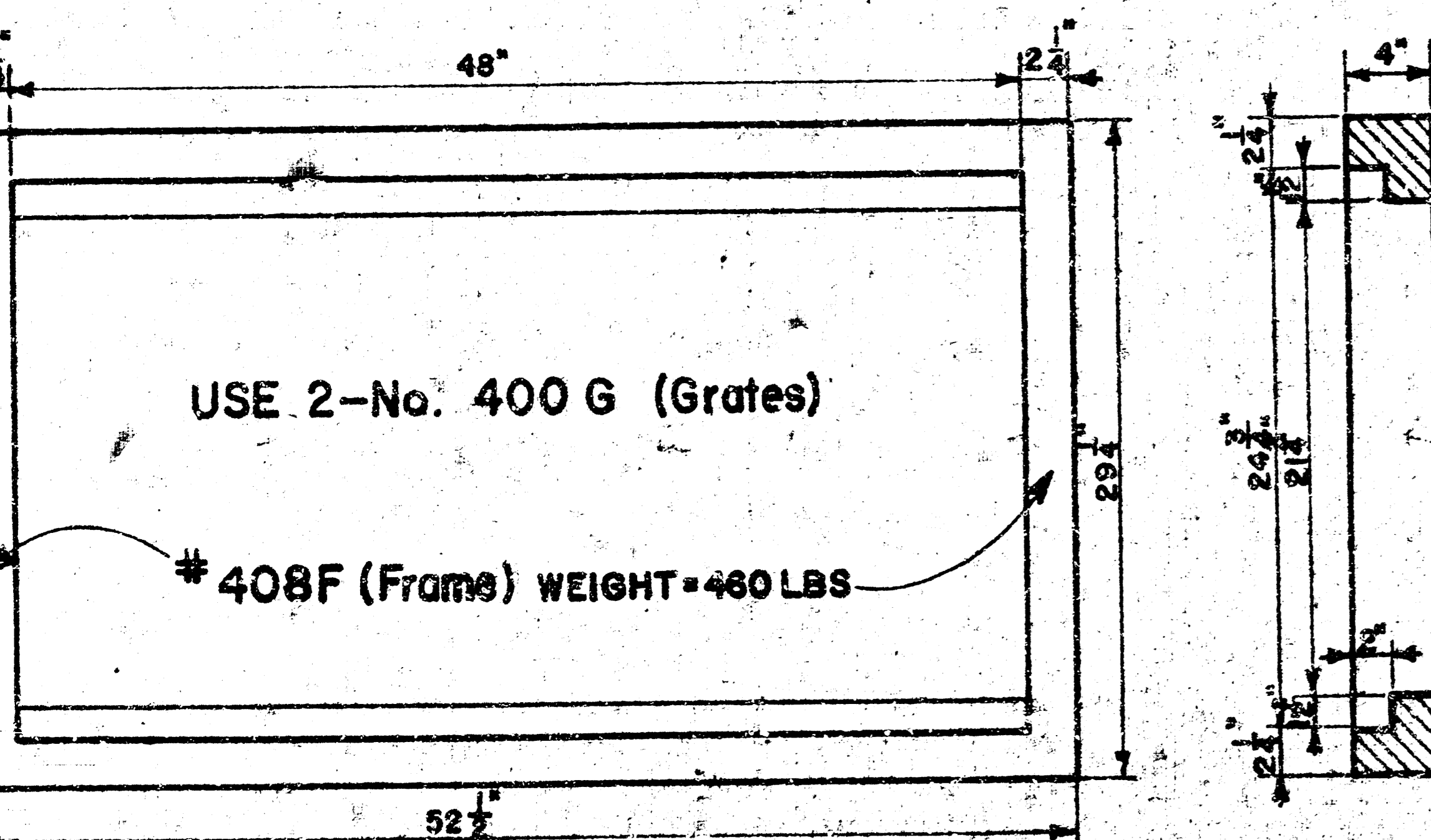
#400F (Frame)  
WEIGHT = 235 LBS.



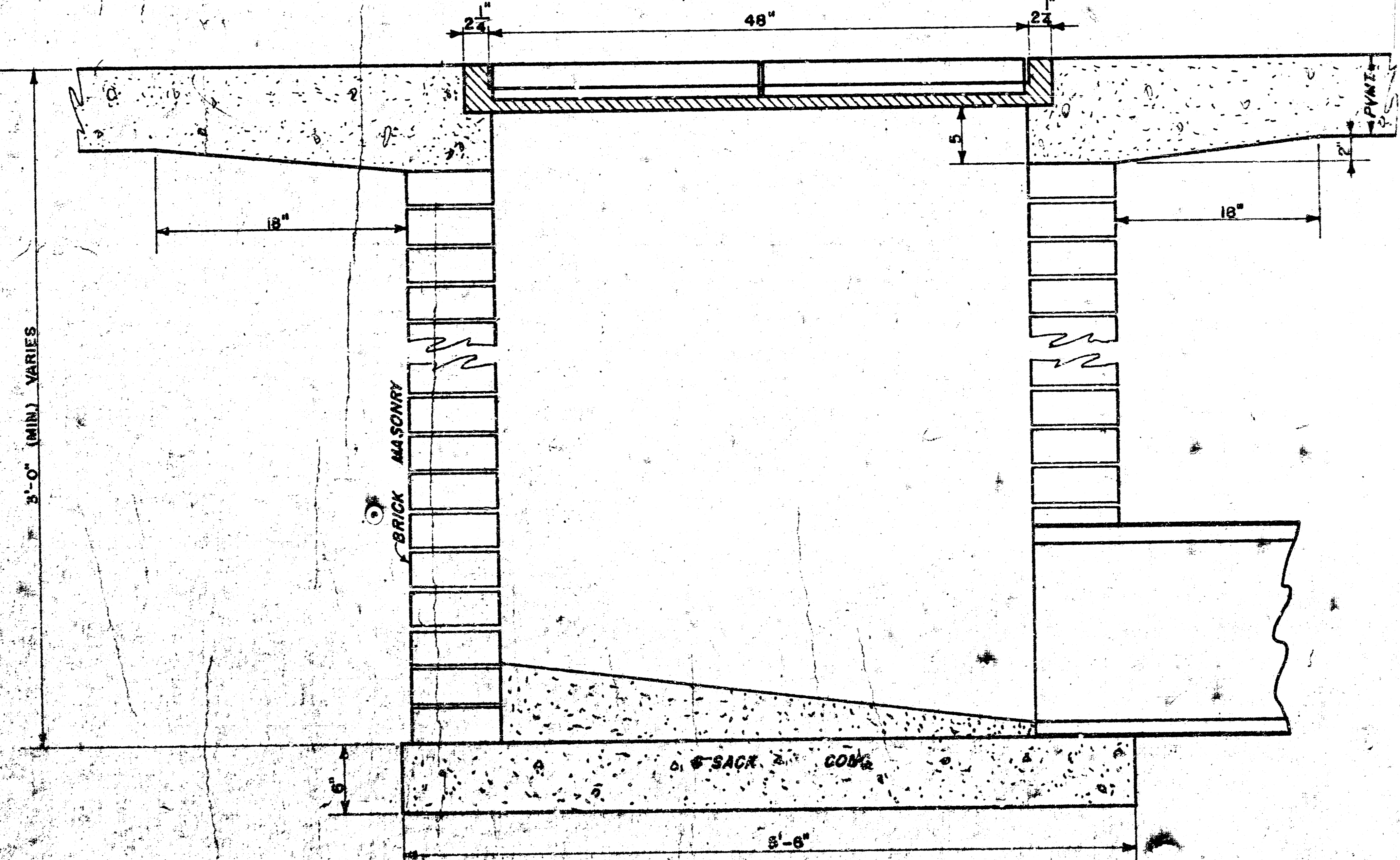
#400G (Grate)  
WEIGHT = 235 LBS.



24"x24" Frame & Grate Detail



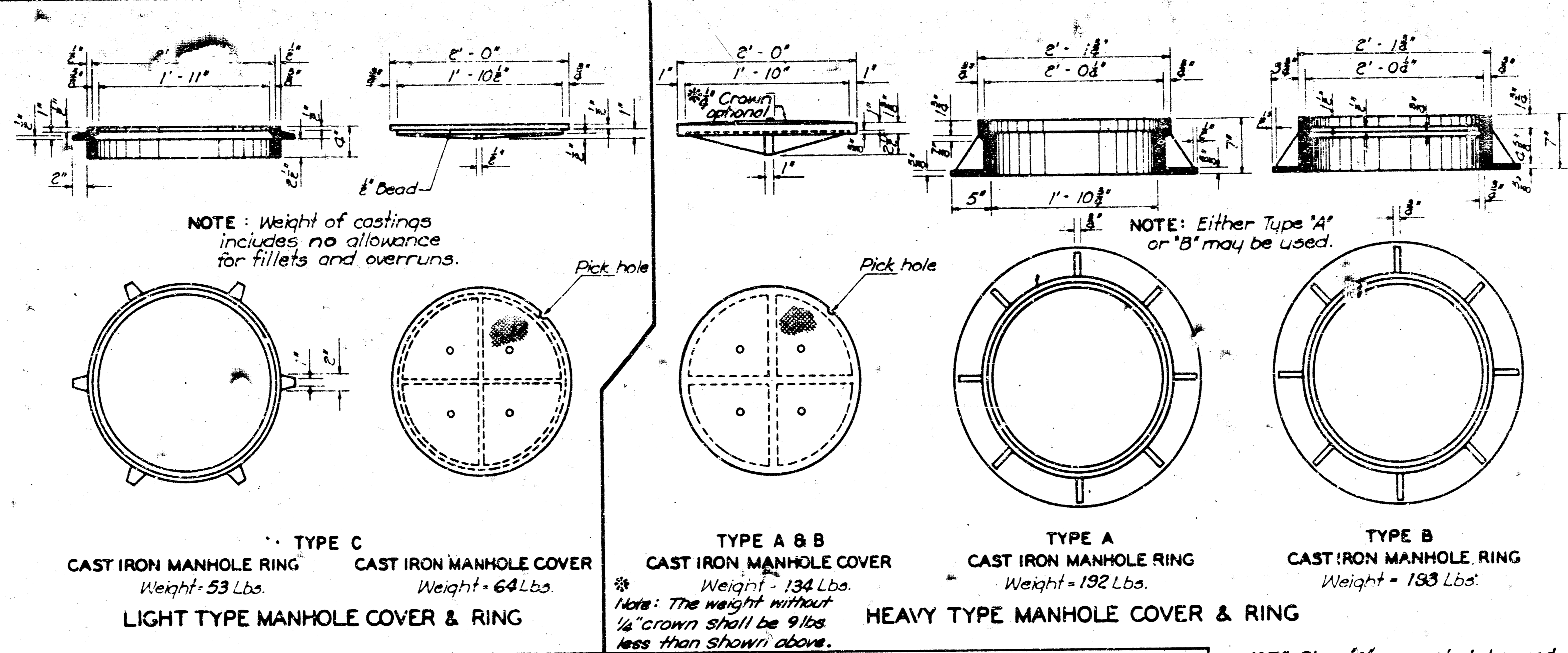
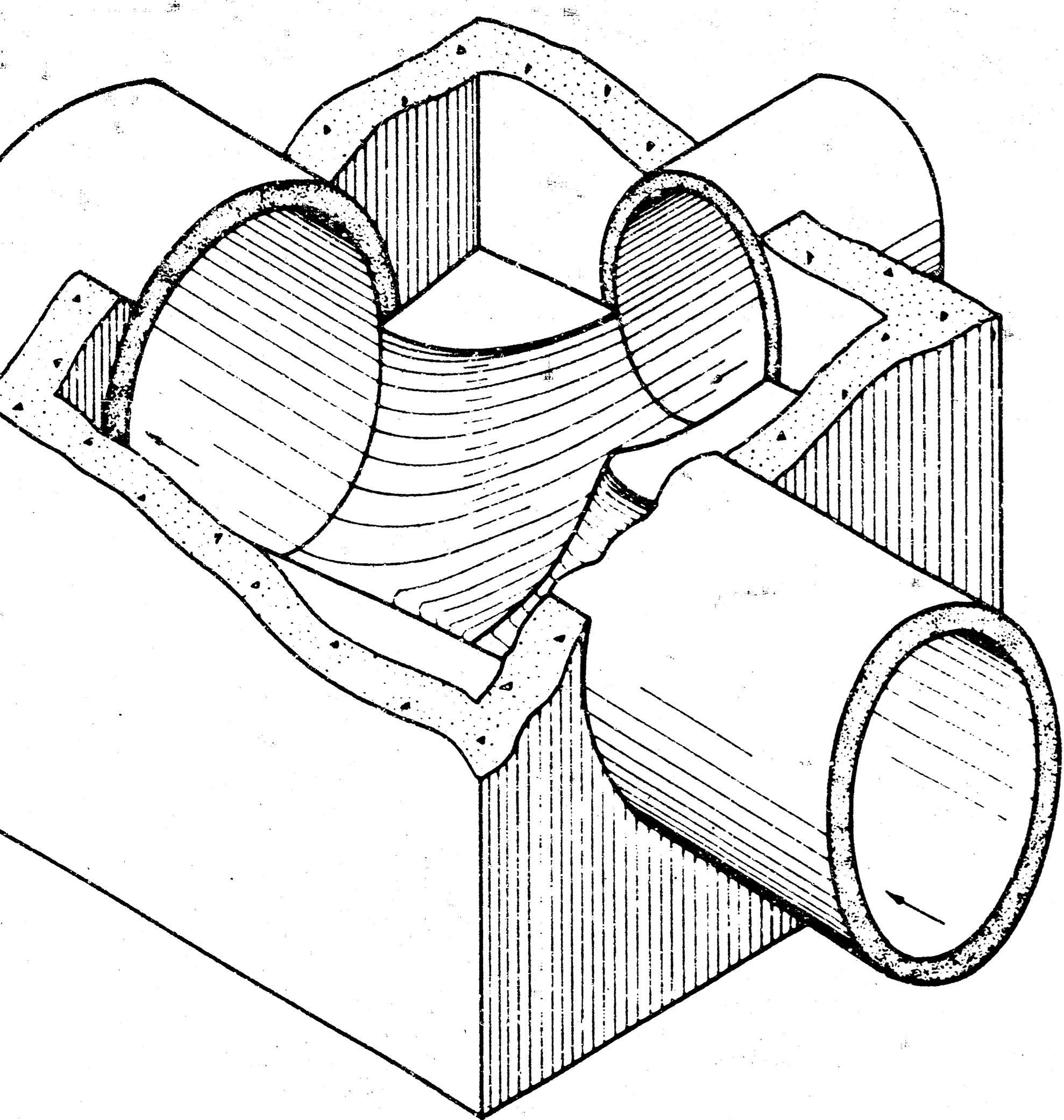
Double 24"x24" Frame Detail



**DROP INLET DETAILS**

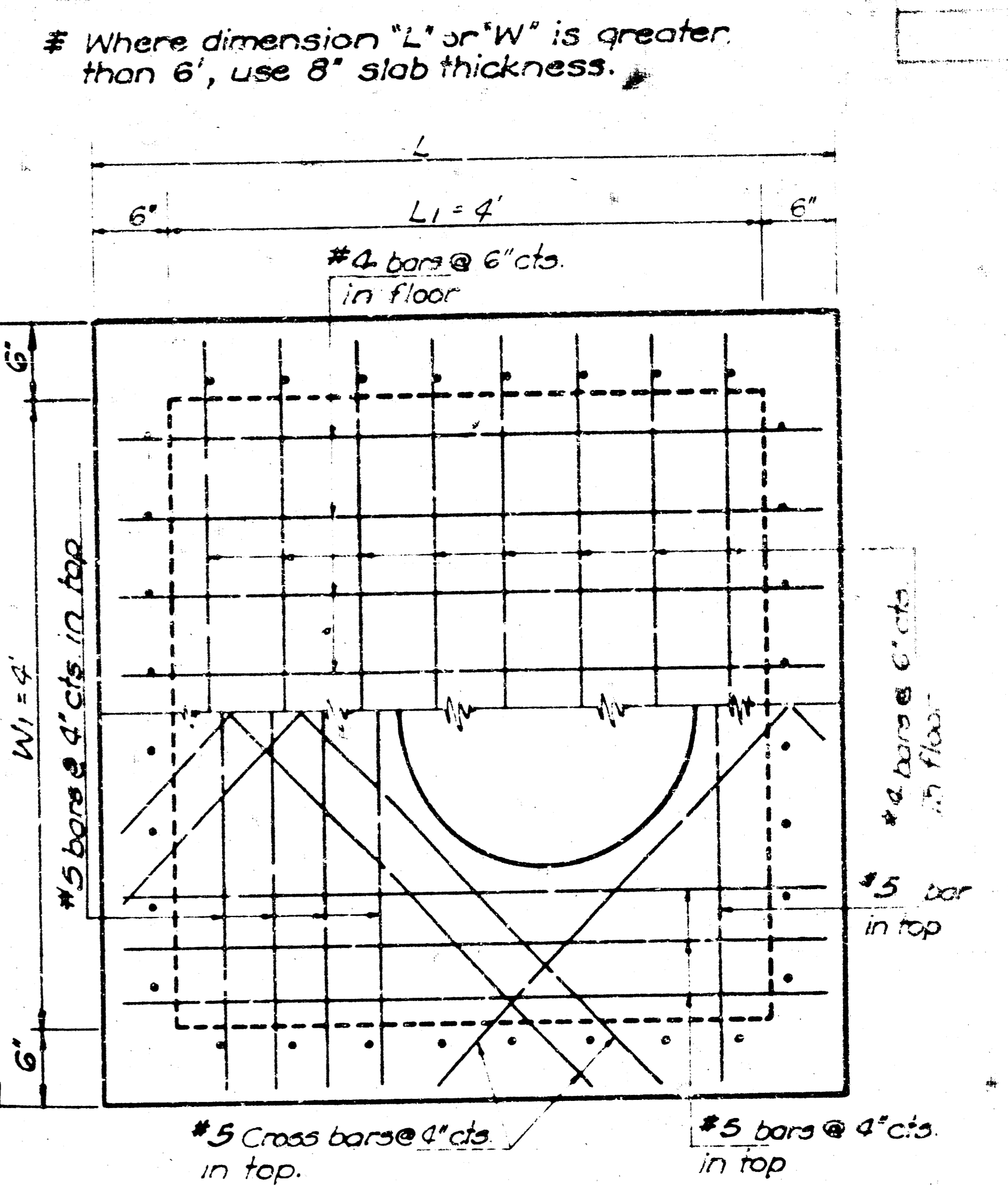
R. W. Linn City Engineer  
City of Wichita, Kansas  
Project  
Project No.

FHWA REG. NO.	State	Proj. No.	Fiscal Year	Sheet No.
7	Kansas			



**TYPE C**  
CAST IRON MANHOLE RING  
Weight - 53 Lbs.  
CAST IRON MANHOLE COVER  
Weight - 64 Lbs.  
LIGHT TYPE MANHOLE COVER & RING

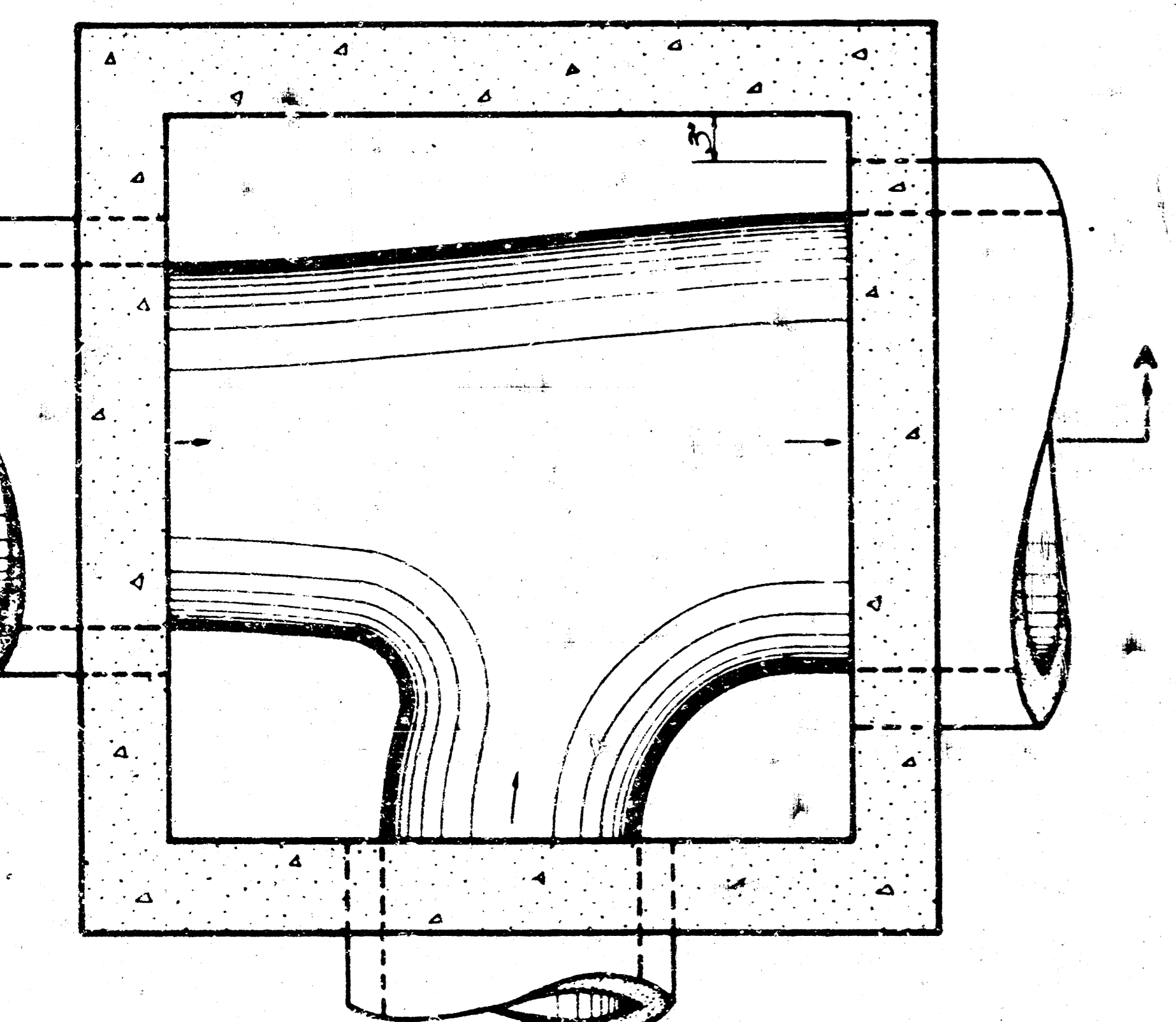
**TYPE A & B**  
CAST IRON MANHOLE COVER  
Weight - 134 Lbs.  
NOTE: The weight without 1/4" crown shall be 9 lbs less than shown above.  
**TYPE A**  
CAST IRON MANHOLE RING  
Weight - 192 Lbs.  
**TYPE B**  
CAST IRON MANHOLE RING  
Weight - 193 Lbs.  
HEAVY TYPE MANHOLE COVER & RING



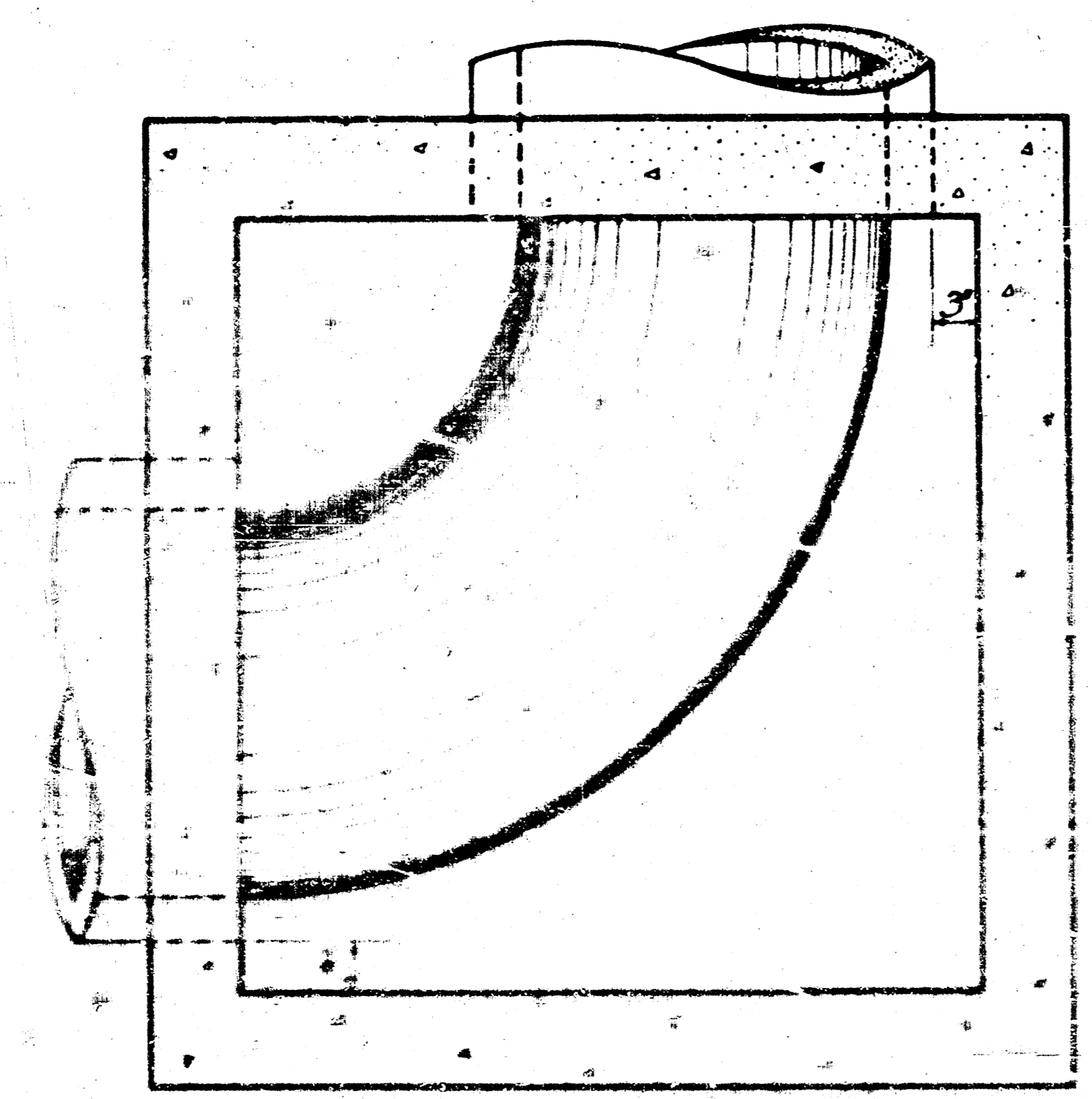
**TYPICAL EXAMPLES OF VARIOUS PIPE COMBINATIONS**

Showing method of shaping floor of manholes to provide increased hydraulic efficiency. For reinforcing & other features see "PLAN" and "SECTION".

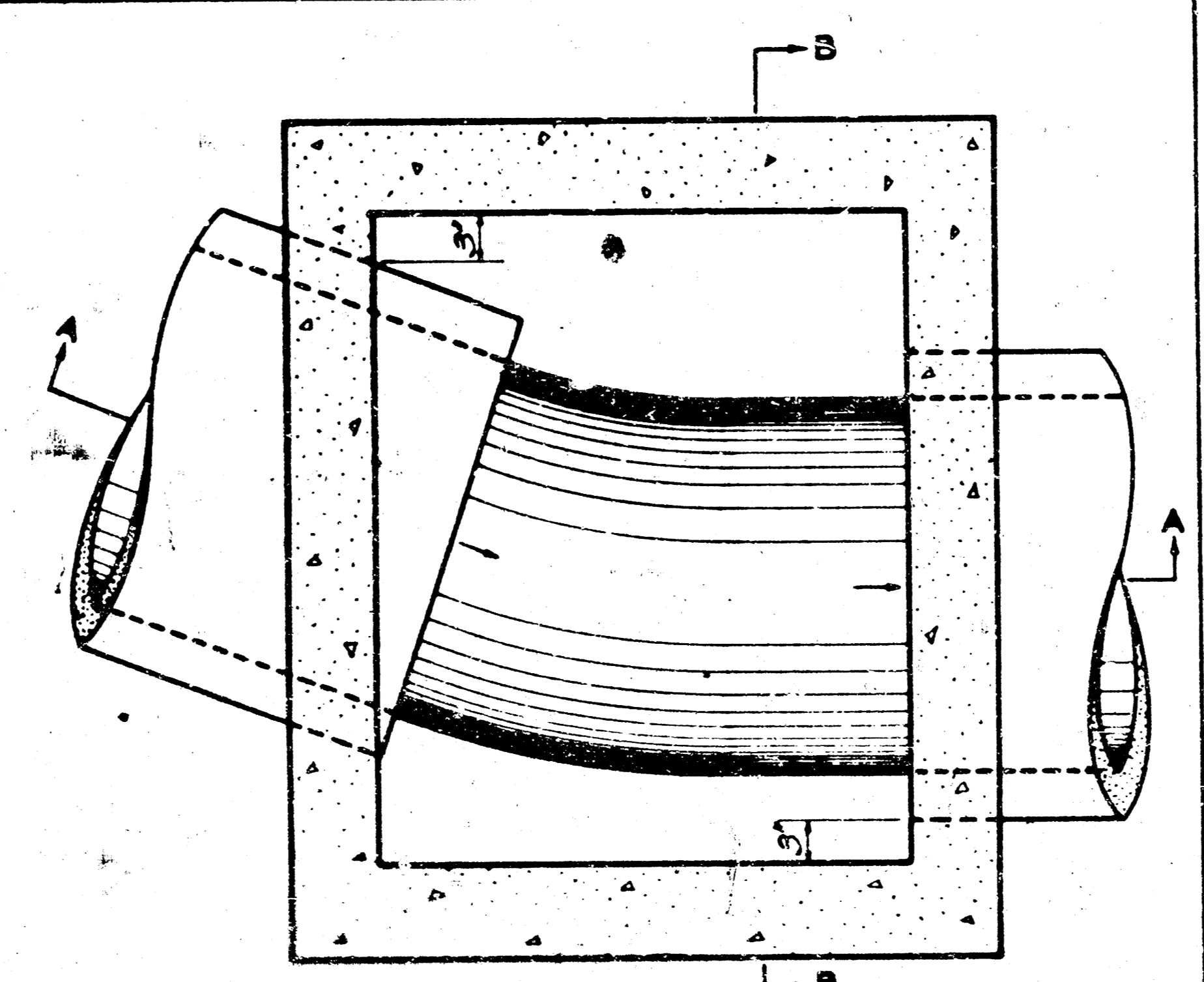
SECTIONAL VIEW (EXAMPLE IV)  
Showing Floor Shaping



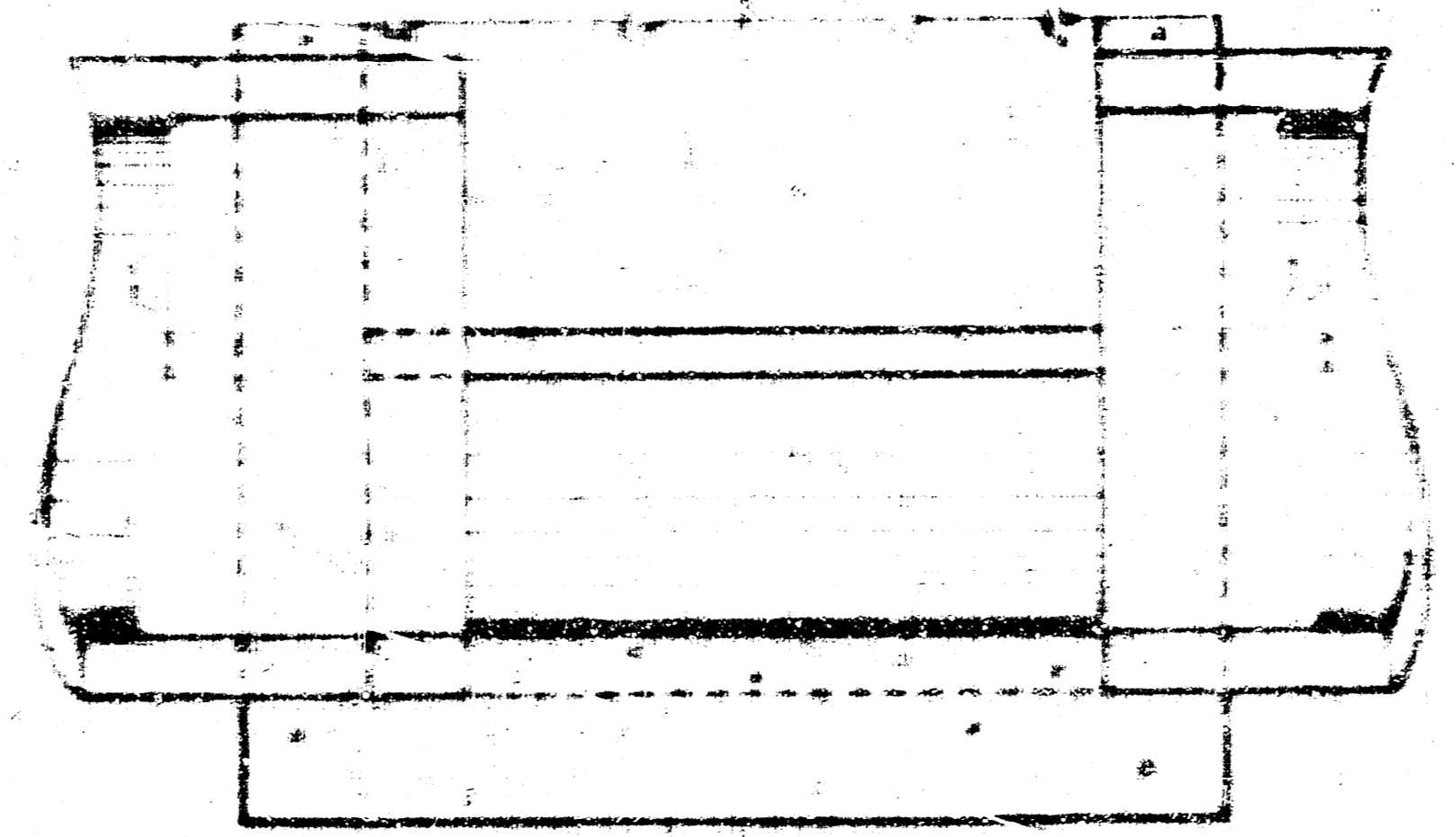
FLOOR PLAN (EXAMPLE IV)



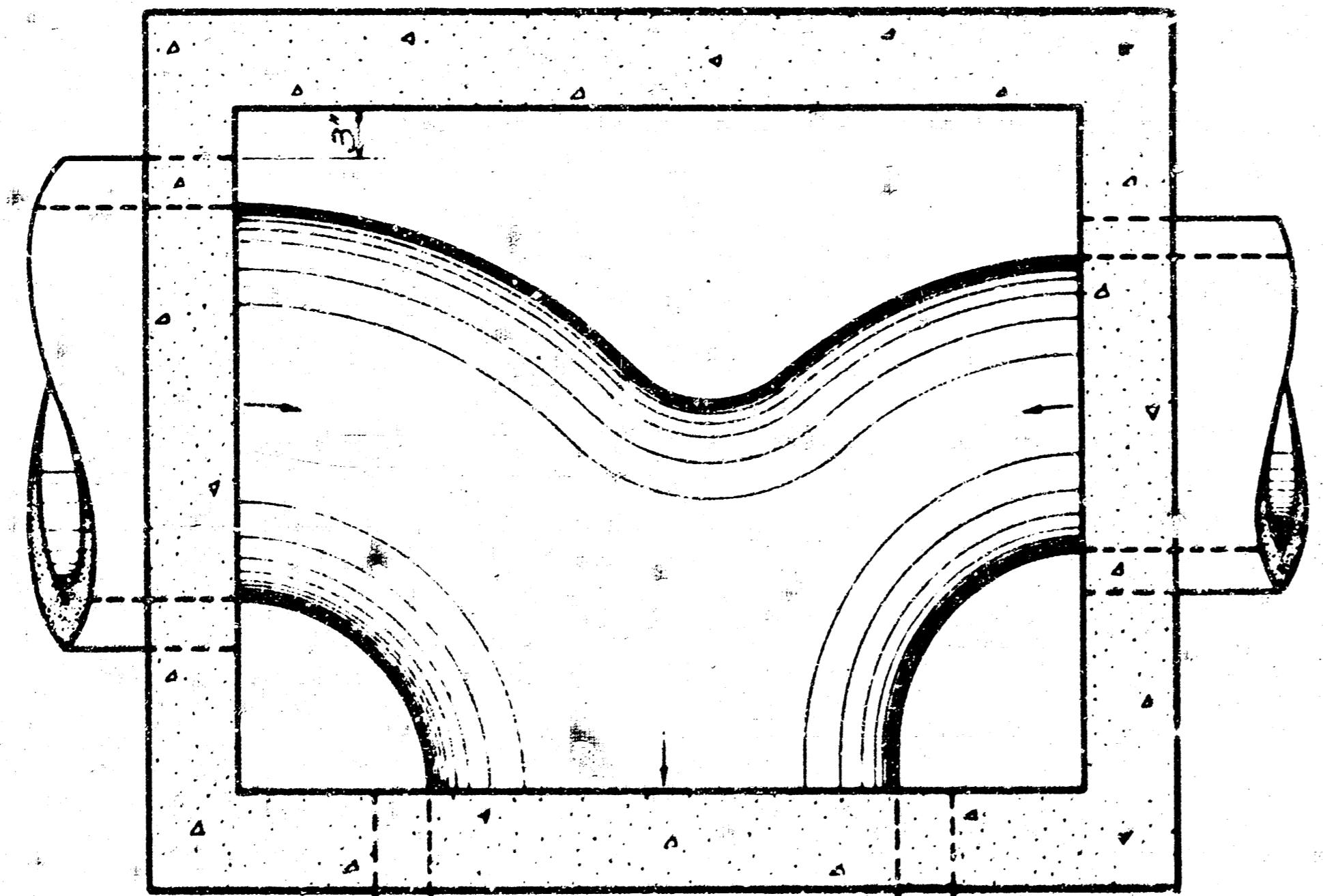
FLOOR PLAN (EXAMPLE II)



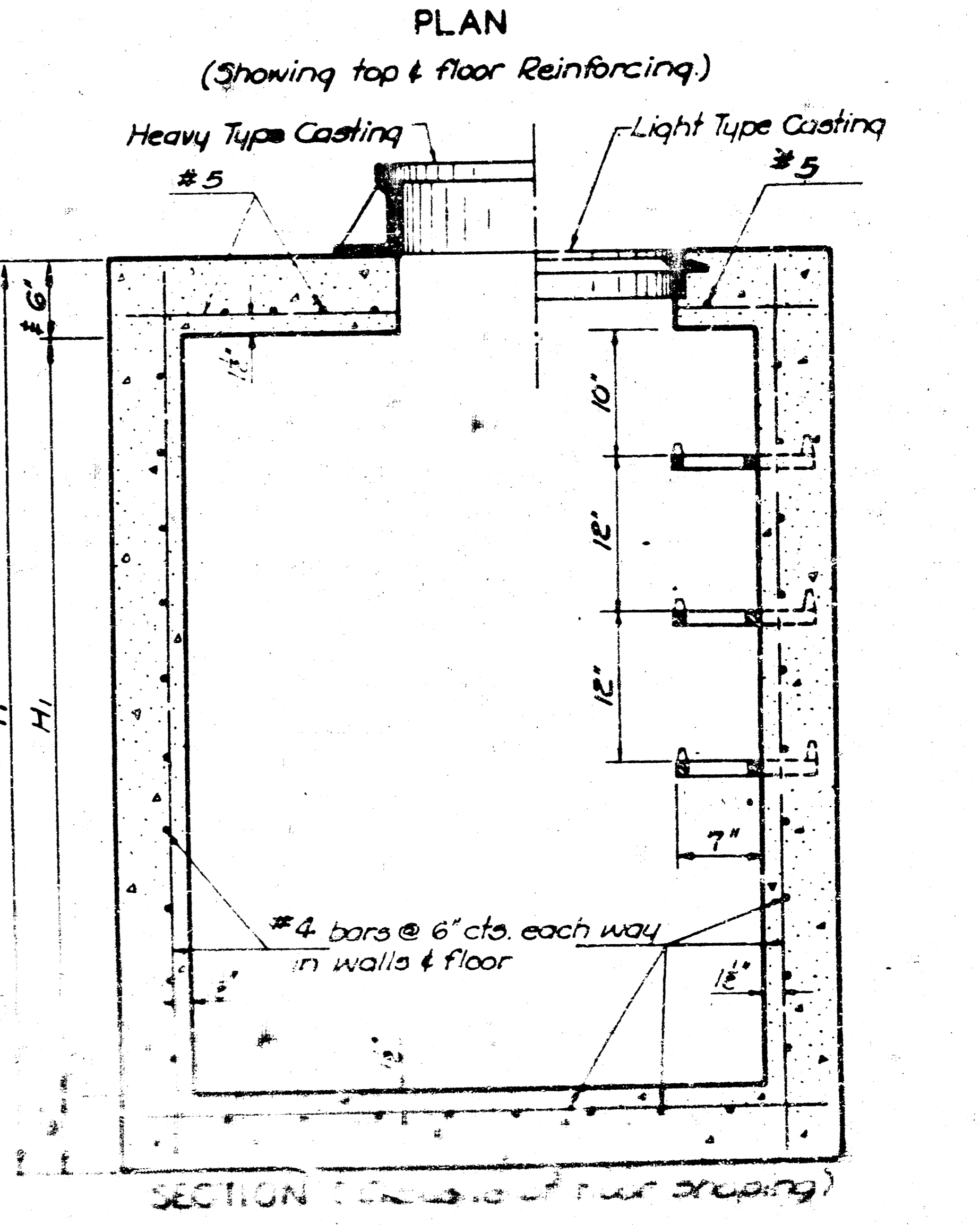
FLOOR PLAN (EXAMPLE I)



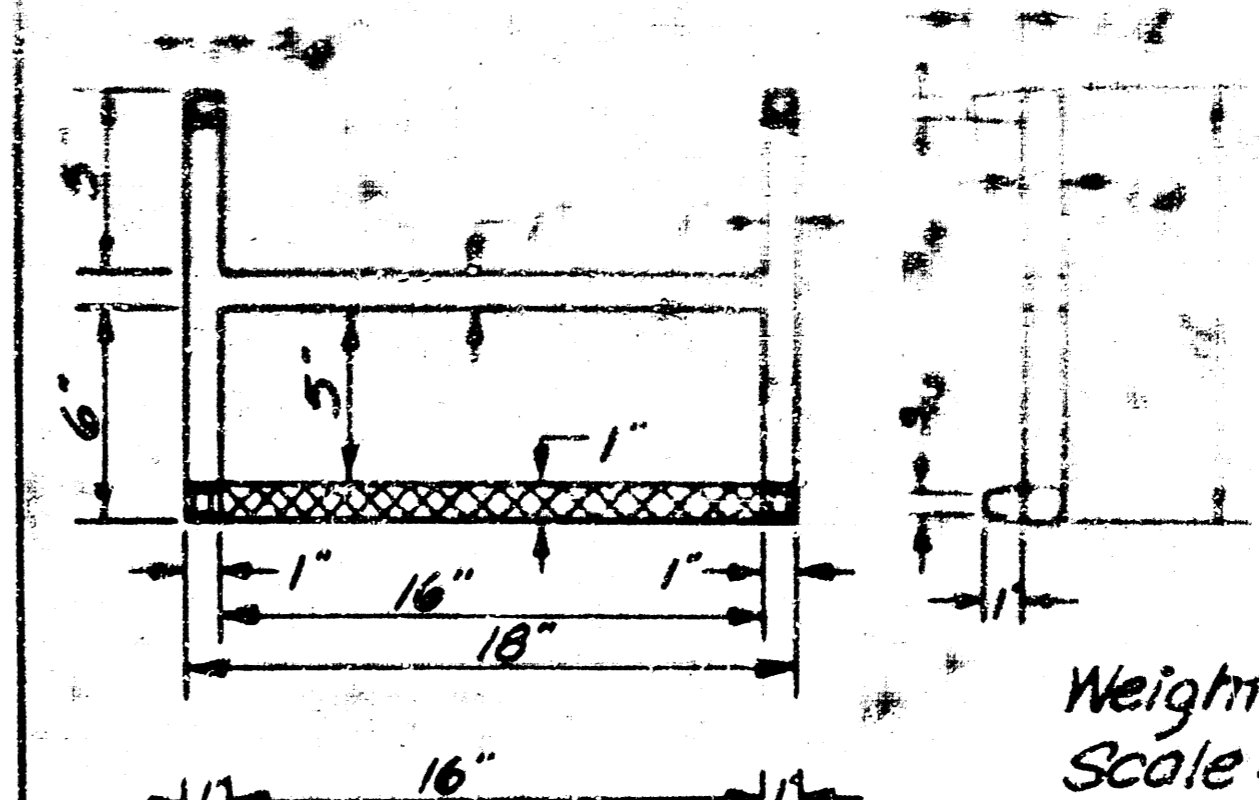
SECTION A-A (EXAMPLE I)



NOTE: Class 'A' concrete to be used thru-out. Bevel all exposed edges with a 3/4" triangular moulding. At the contractor's option Class 'A' concrete (A2) may be used thru-out, 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 B. 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. Manholes under ad of the Engineer, the use of the manholes shall be subject to the same standards as for the ground line of other manholes. Dimensions and weights shall be as shown on this sheet.



NOTE: Contractor has the option of using #5 bars with the floor as approved by the engineer. See Section A-A for details. Payment of quantities shall be for the concrete and reinforcing steel only. The weight of the cover & ring shall be added to the weight of the concrete. The weight of the concrete shall be based on the weight of the concrete and reinforcing steel only. The weight of the cover & ring shall be added to the weight of the concrete.



**REINFORCED CONCRETE MANHOLE**

STATE HIGHWAY COMMISSION OF KANSAS