

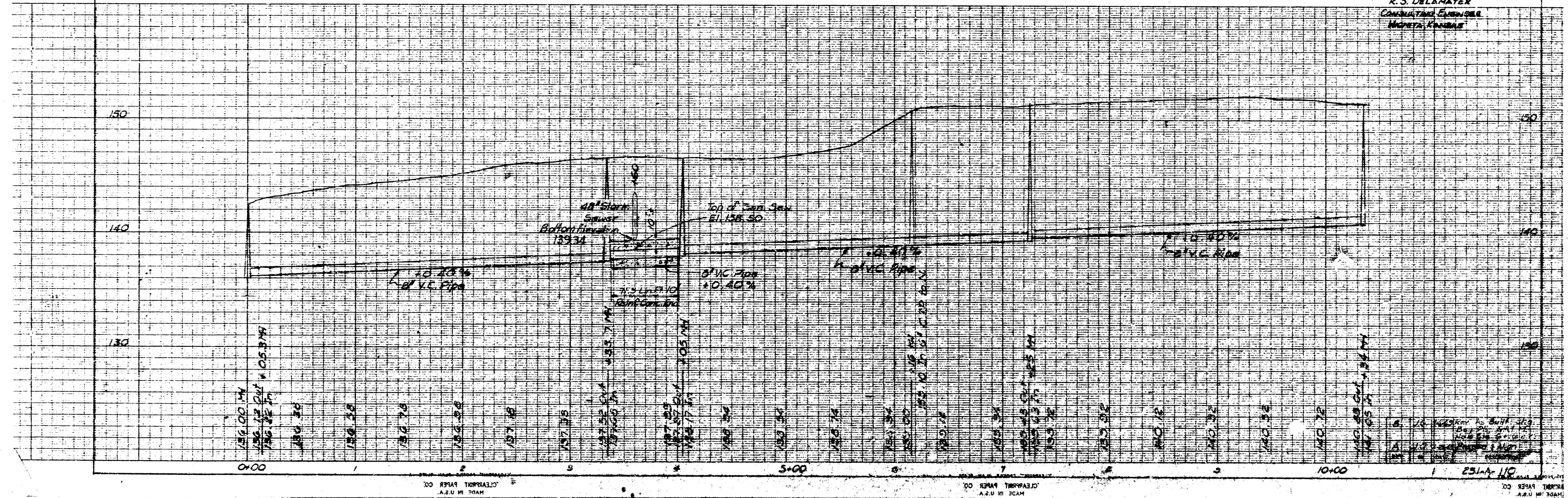
AS BUILT PLANS

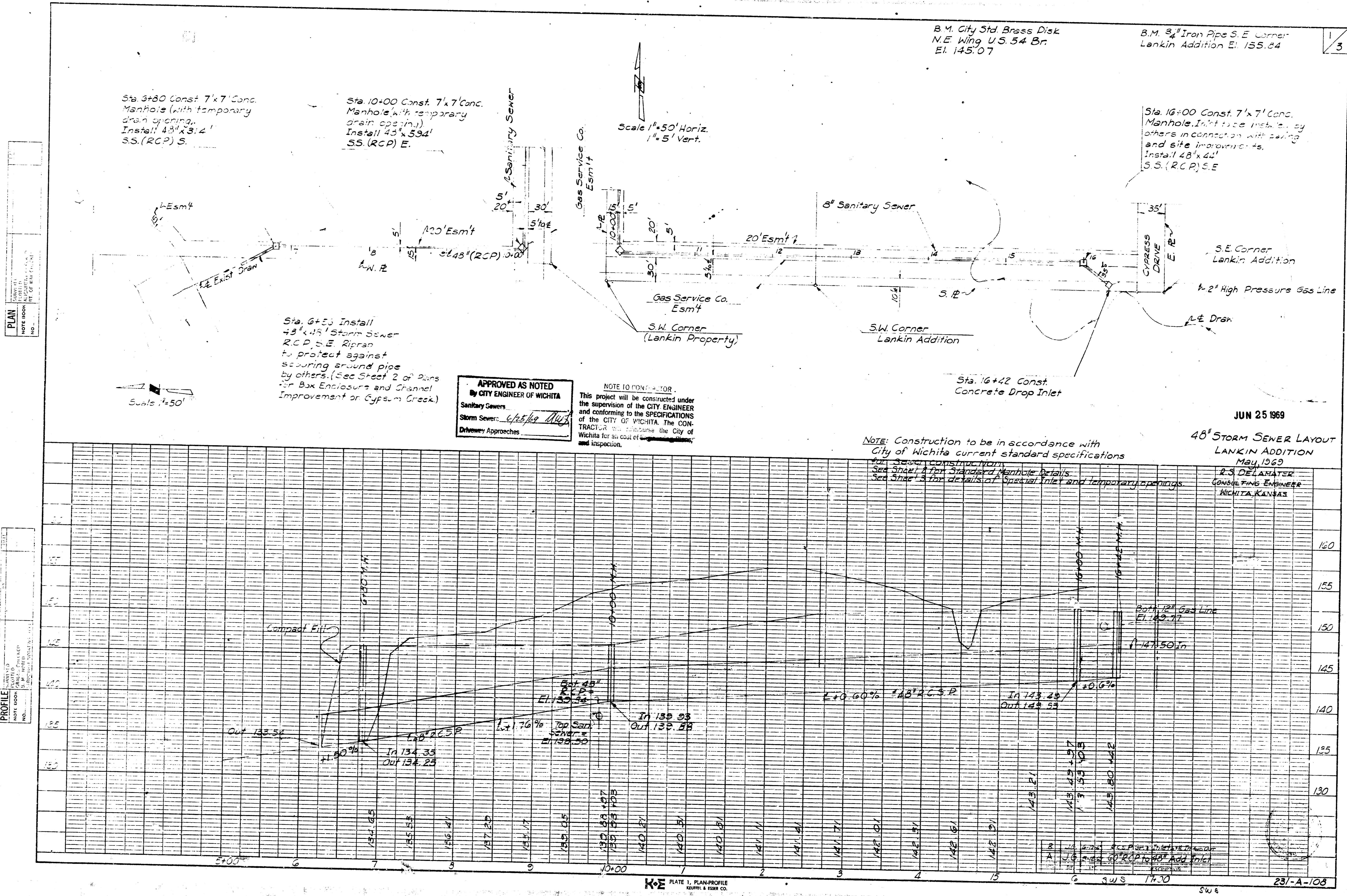
NOTE TO QUALIFICATION  
 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF WICHITA AND THE STATE OF KANSAS.

APPROVED AS NOTED  
 BY CITY ENGINEER OF WICHITA  
 [Signature]

NOTE: Construction to be in accordance with City of Wichita current standard specifications for sewer construction.

SANITARY SEWER LAYOUT  
 LANKEIN ADDITION  
 May, 1963  
 R. S. DELAMATER  
 CONSULTING ENGINEER  
 MOORE, KANSAS





Sta. 6+80 Const. 7'x7' Conc. Manhole (with temporary drain opening). Install 48"x3.4" SS. (RCP) S.

Sta. 10+00 Const. 7'x7' Conc. Manhole (with temporary drain opening). Install 48"x3.4" SS. (RCP) E.

Sta. 16+00 Const. 7'x7' Conc. Manhole. Inlet pipe installation by others in connection with zoning and site improvements. Install 48"x4" SS. (RCP) S.E.

Sta. 6+85 Install 48"x48" Storm Sewer RCP S.E. Riprap to protect against scouring around pipe by others. (See Street 2 of Plans for Box Enclosure and Channel Improvement on Cypress Creek).

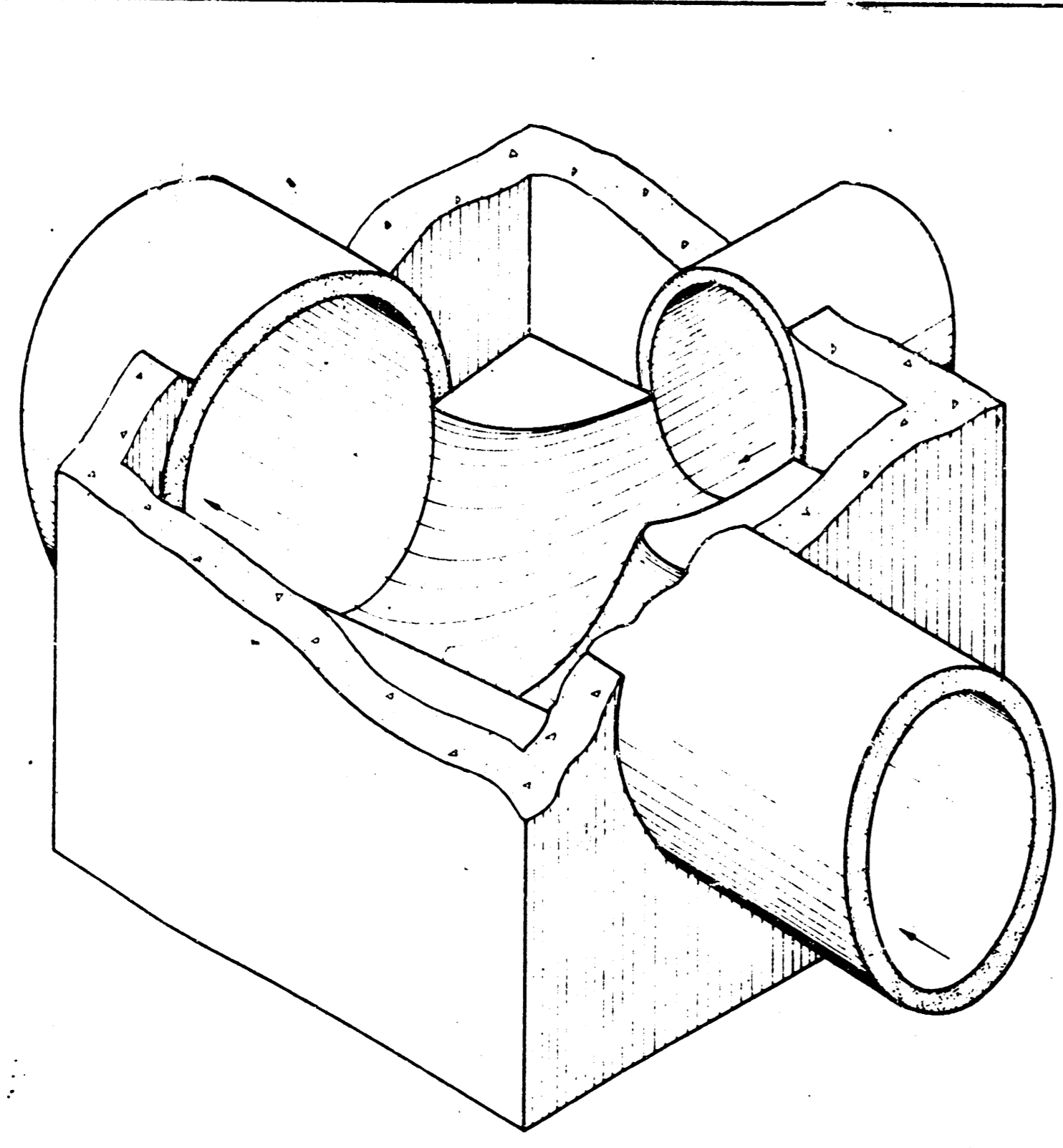
**APPROVED AS NOTED**  
By CITY ENGINEER OF WICHITA  
Sanitary Sewers  
Storm Sewers: *Charles Miller*  
Driveway Approaches

**NOTE TO CONTRACTOR**  
This project will be constructed under the supervision of the CITY ENGINEER and conforming to the SPECIFICATIONS of the CITY OF WICHITA. The CONTRACTOR shall reimburse the City of Wichita for all cost of engineering, inspection, and inspection.

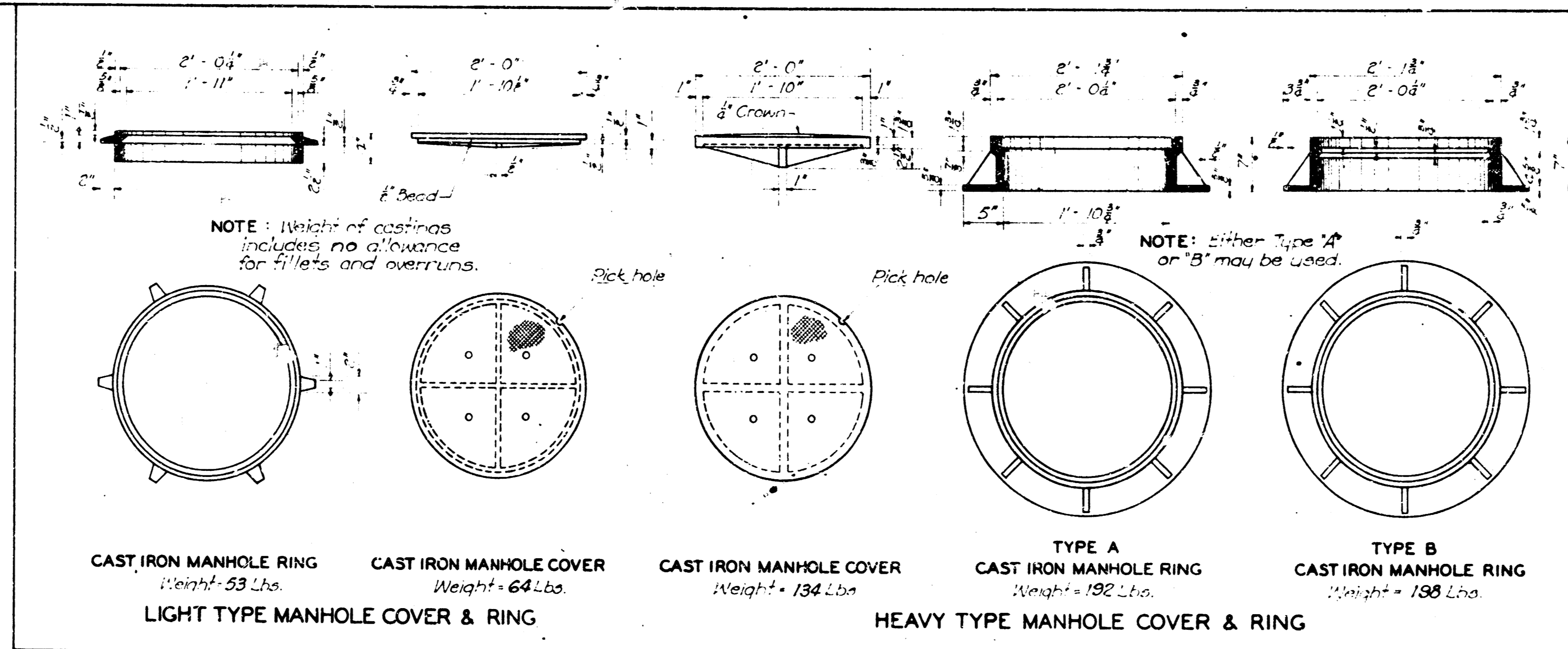
**NOTE:** Construction to be in accordance with City of Wichita current standard specifications for sewer construction. See Sheet A for Standard Manhole Details. See Sheet B for details of Special Inlet and temporary openings.

**JUN 25 1969**  
**48" STORM SEWER LAYOUT LANKIN ADDITION**  
May 1969  
R. S. DELAMATER  
CONSULTING ENGINEER  
WICHITA, KANSAS

Div. No.	Sheet No.	Total Sheets
5	1869	3



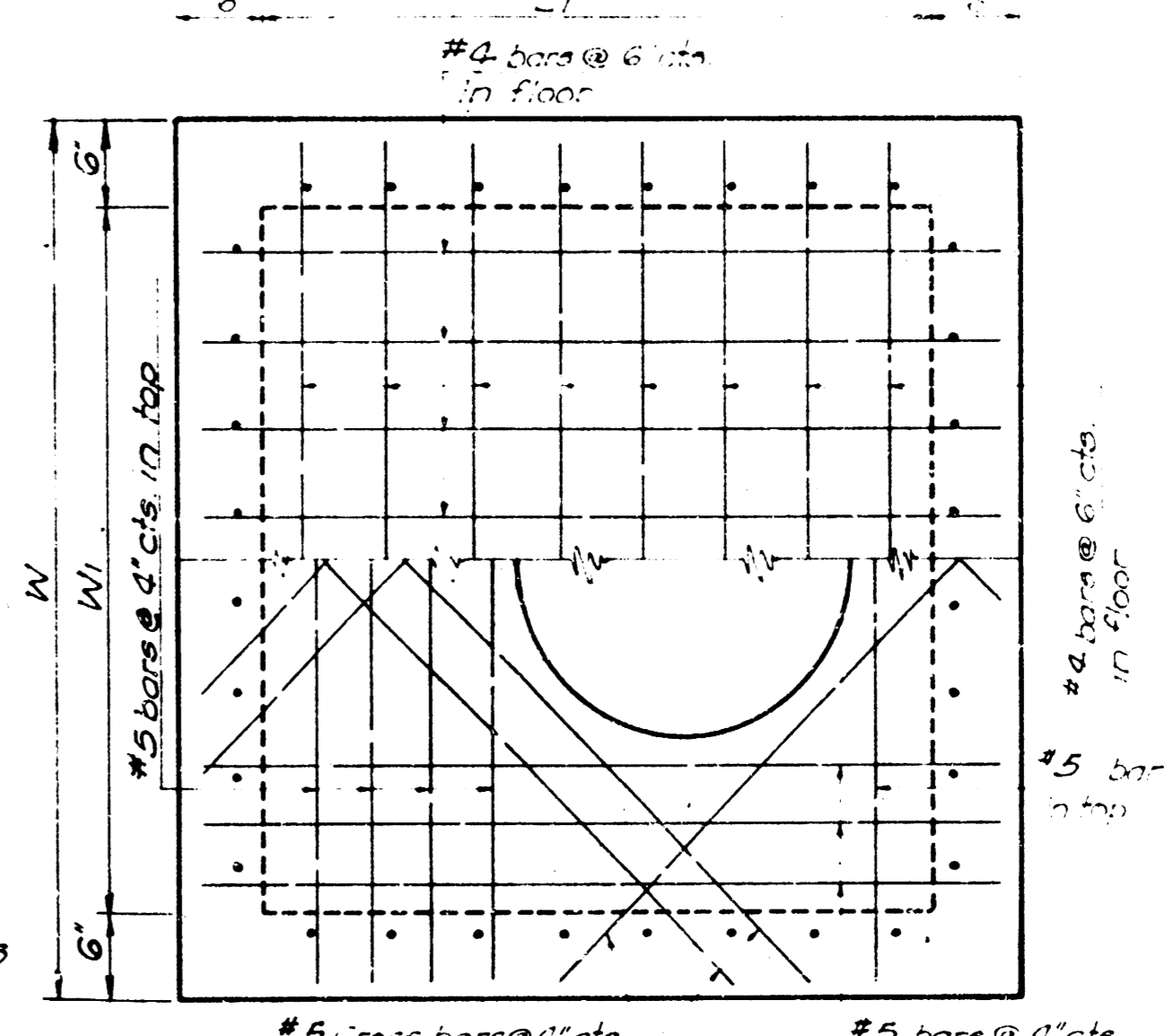
SECTIONAL VIEW (EXAMPLE IV)  
Showing Floor Shaping



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

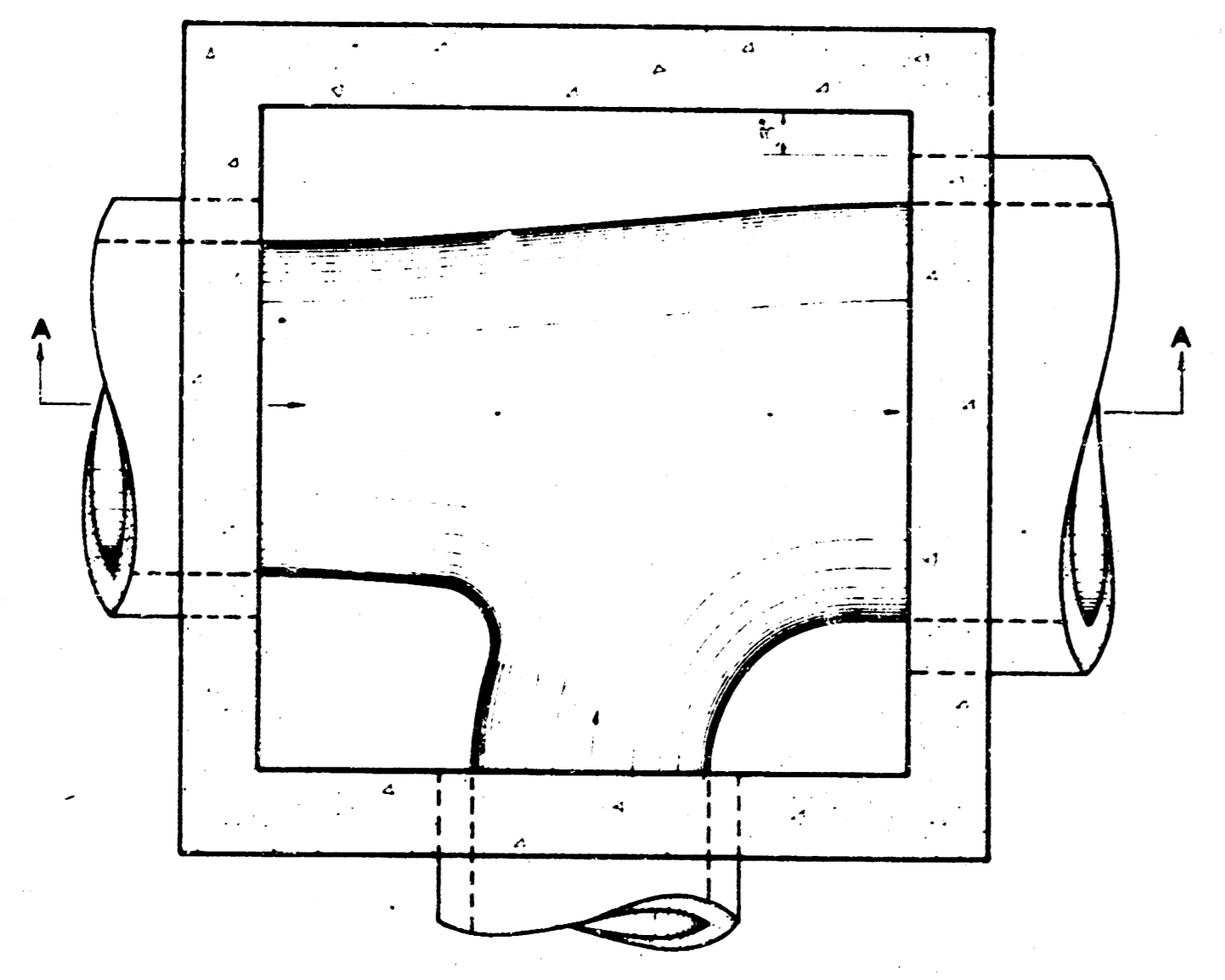
NOTE: Either Type 'A' or 'B' may be used.  
TYPE A CAST IRON MANHOLE RING Weight = 192 Lbs.  
TYPE B CAST IRON MANHOLE RING Weight = 198 Lbs.  
HEAVY TYPE MANHOLE COVER & RING

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

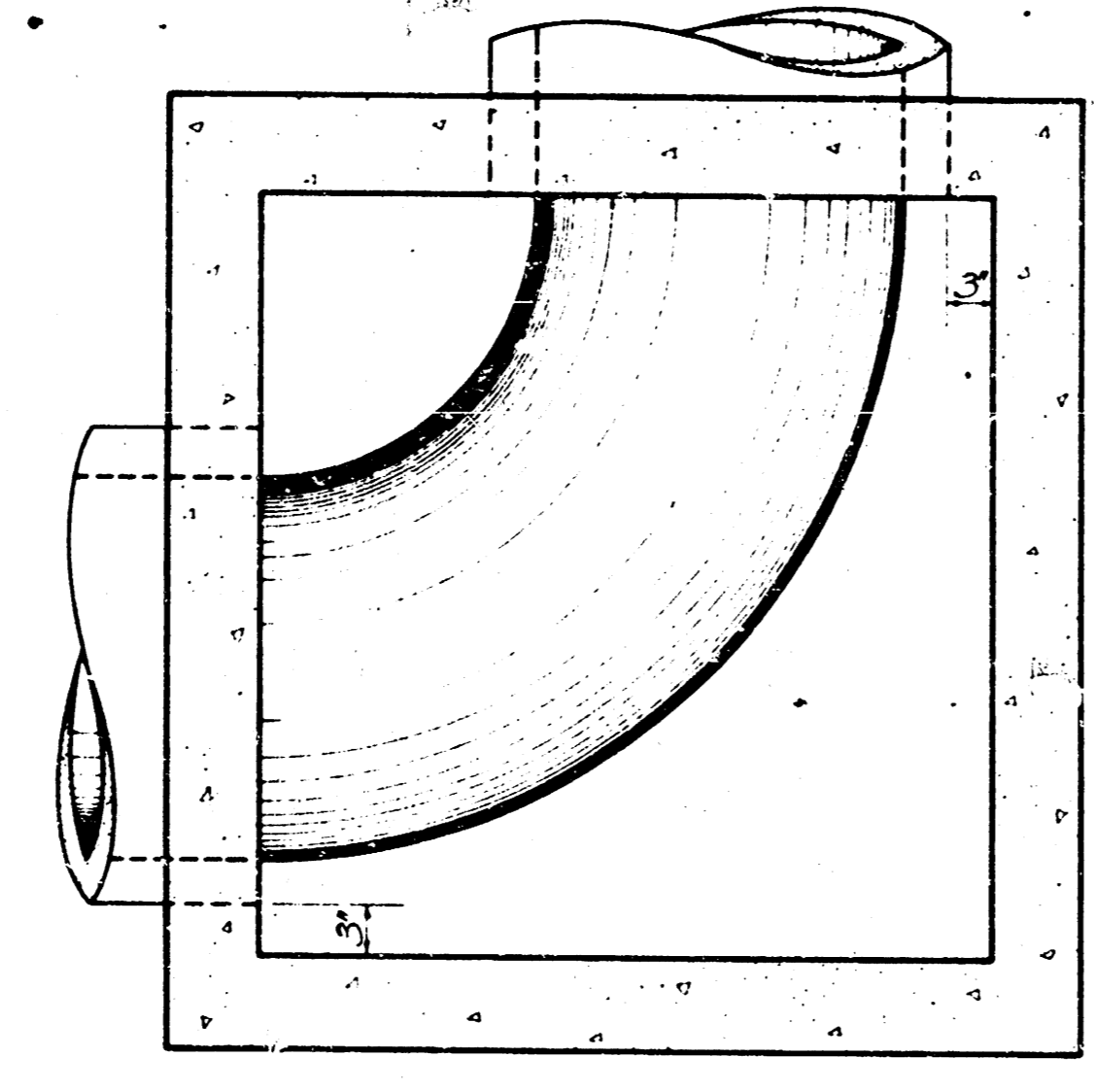


PLAN (Showing top & floor Reinforcing)

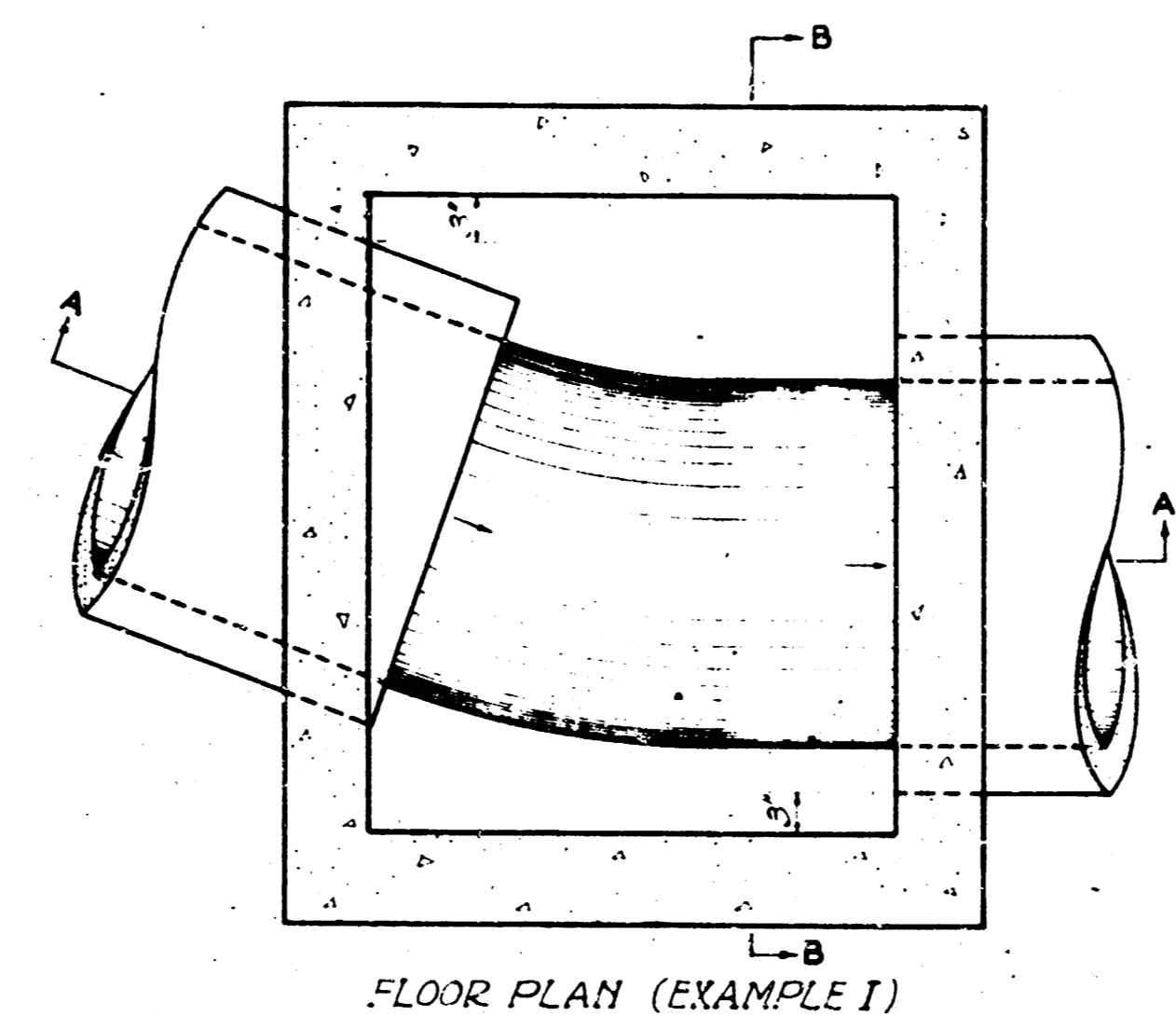
TYPICAL EXAMPLES OF VARIOUS PIPE COMBINATIONS  
Showing method of shaping floor of manholes to provide increased hydraulic efficiency.  
For reinforcing & other features see "PLAN" and "SECTION".



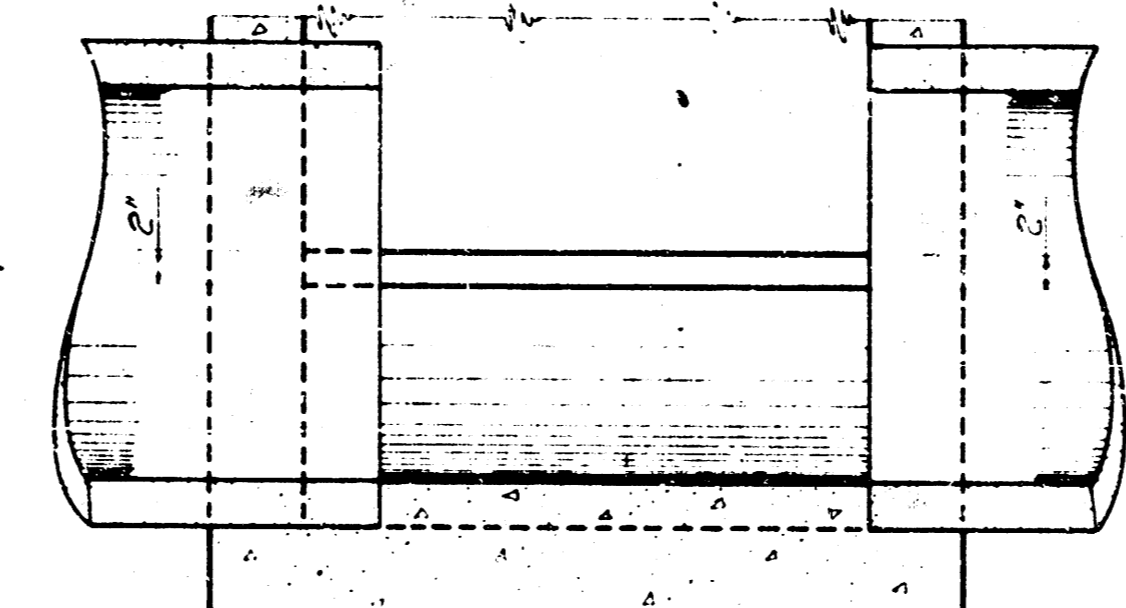
FLOOR PLAN (EXAMPLE IV)



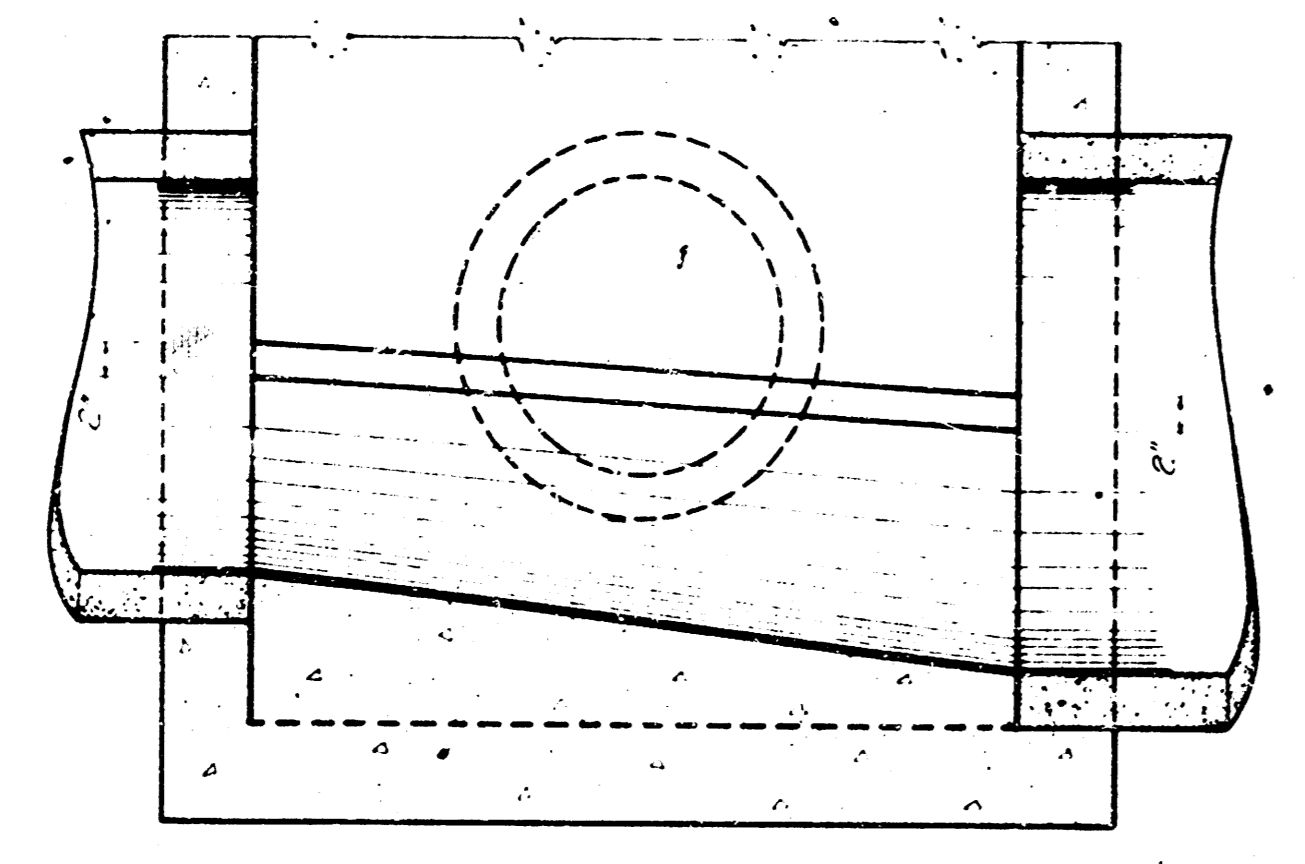
FLOOR PLAN (EXAMPLE II)



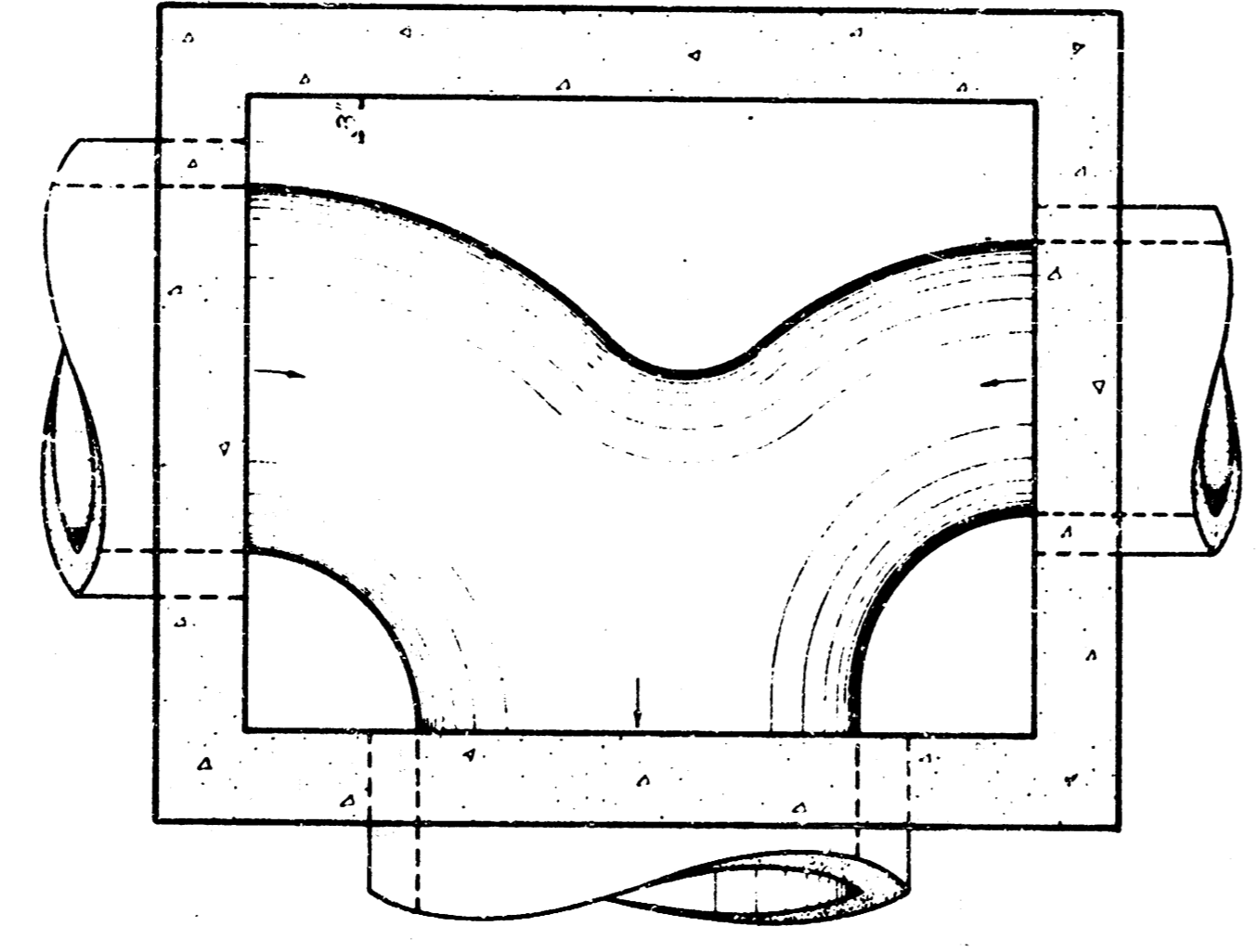
SECTION A-A (EXAMPLE I)



SECTION B-B (EXAMPLE I)

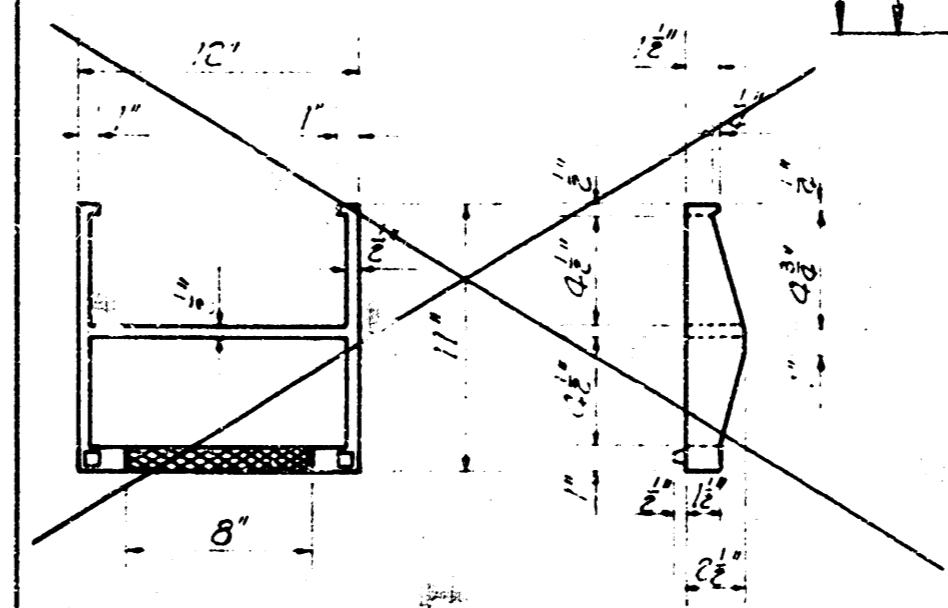


SECTION A-A (EXAMPLE IV)



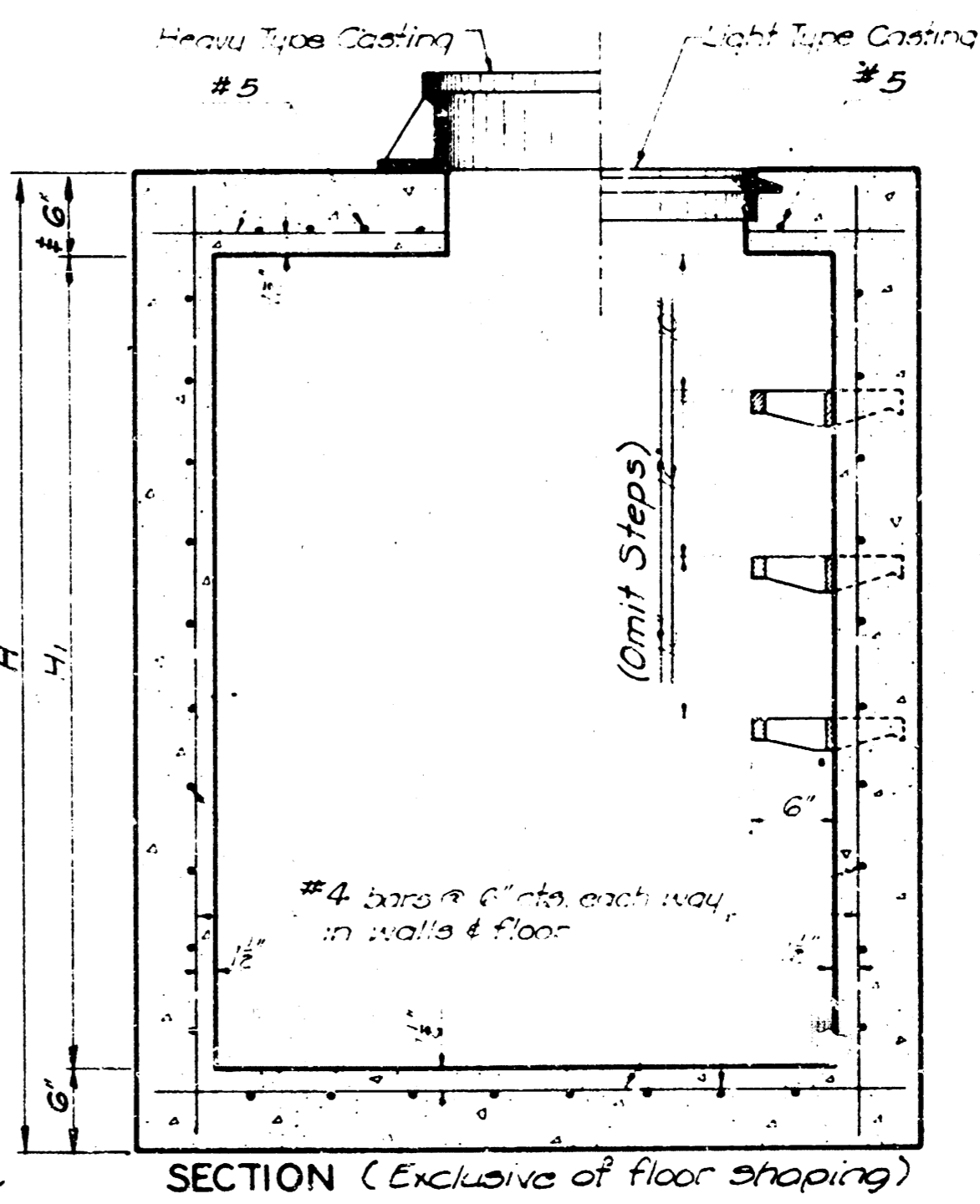
FLOOR PLAN (EXAMPLE III)

NOTE: Class 'A' concrete to be used throughout. Level all exposed edges with a 3" triangular mauling.  
At the contractor's option Class 'A' concrete (R2) may be used throughout. But pavement shall be made as Class 'A' concrete.  
In general, pipes will enter and leave the manhole at various positions. Where possible band 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.  
When so ordered by the Engineer, the top of the manhole shall be sloped slightly to approximately 1/4" the ground line or other conditions.



CAST IRON STEP (Omit steps)  
Weight = 20 Lbs.  
Scale 1/4" = 1'

NOTE: Steps not to be used where "H" is less than 6 feet.



SECTION (Exclusive of floor shaping)

JUN 25 1969

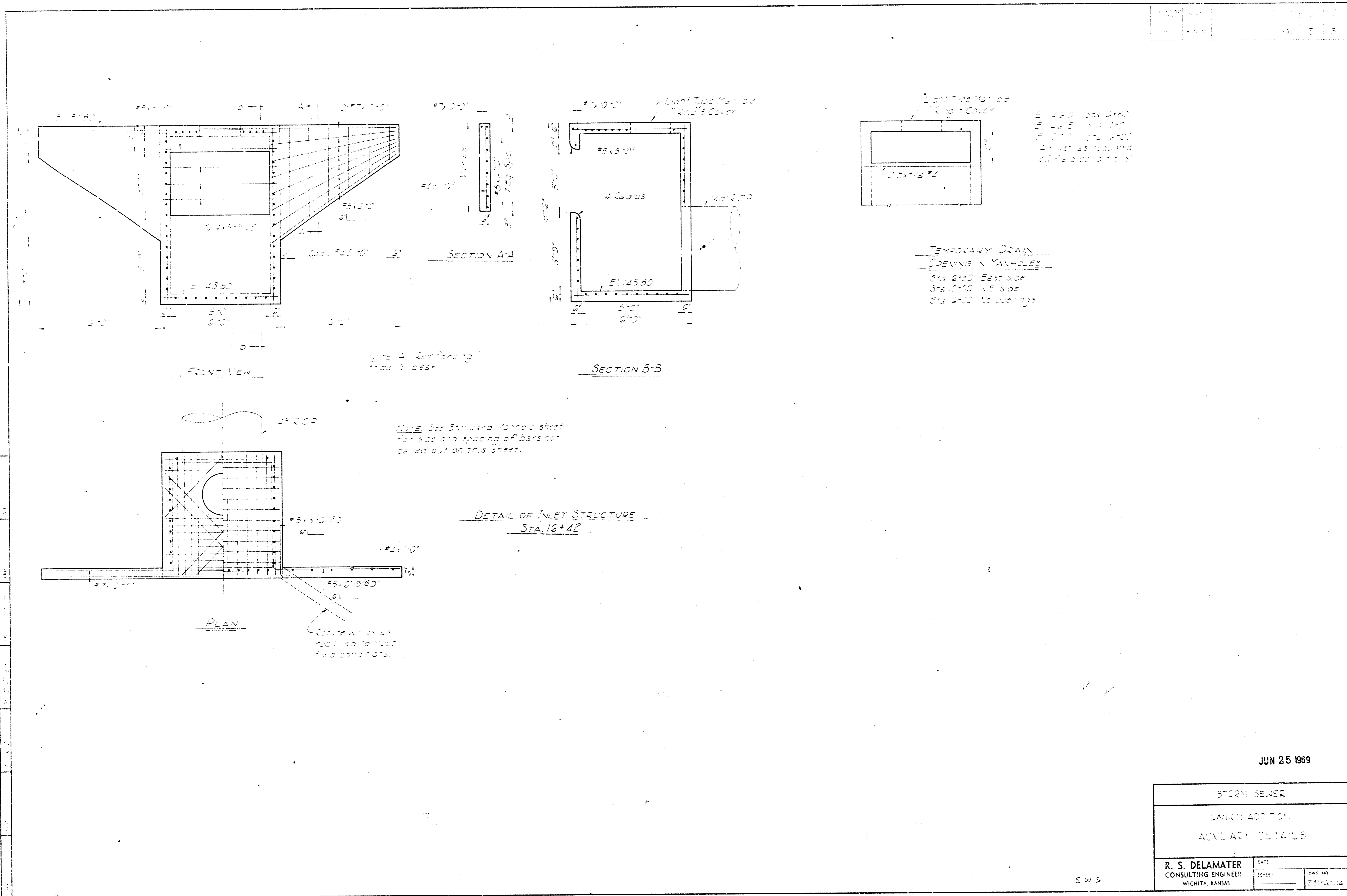
11	5-67	Slope top of manhole note	R.E.	KGL
10	10-66	Removed Conc. Block & Brick option	ALR	KGL
9	8-66	To conform to 1966 Specs.	ALR	EAR
NO.	DATE	REVISIONS	BY	APP'D.

STATE HIGHWAY COMMISSION OF KANSAS

REINFORCED CONCRETE MANHOLE

STD. NO. 633 SCALE 1/4" = 1' (F - 20" x 26" sheet)  
DESIGNED BY: DATE 2-59, DETAIL BY: DATE 11-68, CHECKED BY: DATE 11-68  
CHECKED BY: DATE 11-68, APPROVED BY: DATE 6-5-69

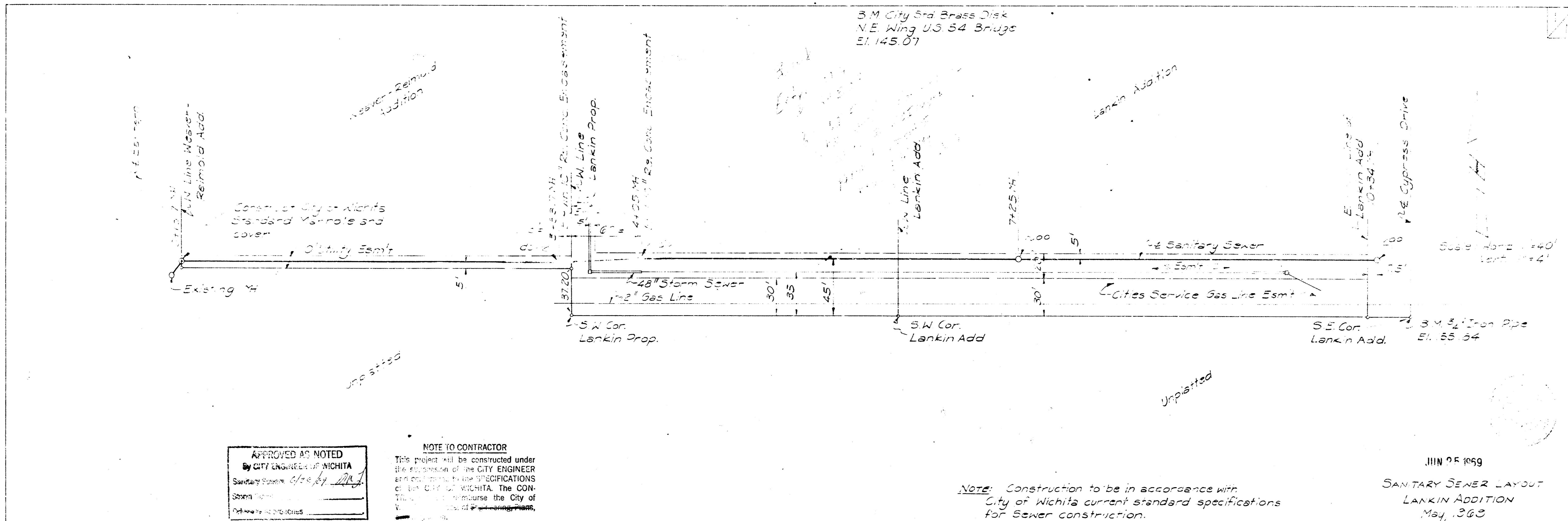
DATE	1969	NO.	3
SCALE		BY	RS



JUN 25 1969

STORM SEWER	
LAWRENCE ADDITION	
AUXILIARY DETAILS	
R. S. DELAMATER CONSULTING ENGINEER WICHITA, KANSAS	DATE SCALE DWG. NO. 231-1714

SWS



APPROVED AS NOTED  
 By CITY ENGINEER OF WICHITA  
 Sanitary Engineer: *[Signature]*  
 Storm Engineer: *[Signature]*  
 Date: *[Date]*

NOTE TO CONTRACTOR  
 This project will be constructed under the supervision of the CITY ENGINEER and shall conform to the SPECIFICATIONS of the CITY OF WICHITA. The CONTRACTOR shall reimburse the City of Wichita for the cost of engineering and other services.

Note: Construction to be in accordance with City of Wichita current standard specifications for Sewer construction.

JUN 25 1959  
 SANITARY SEWER LAYOUT  
 LANXIN ADDITION  
 May 1960  
 R.S. DELAMATER  
 CONSULTING ENGINEER  
 WICHITA, KANSAS

