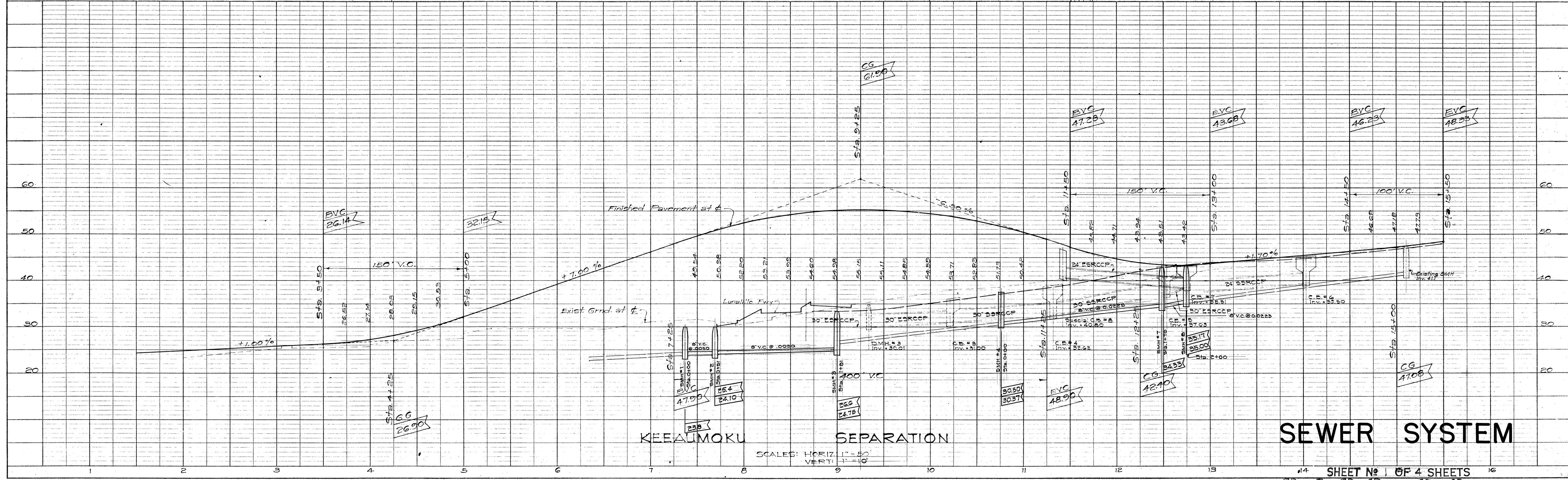
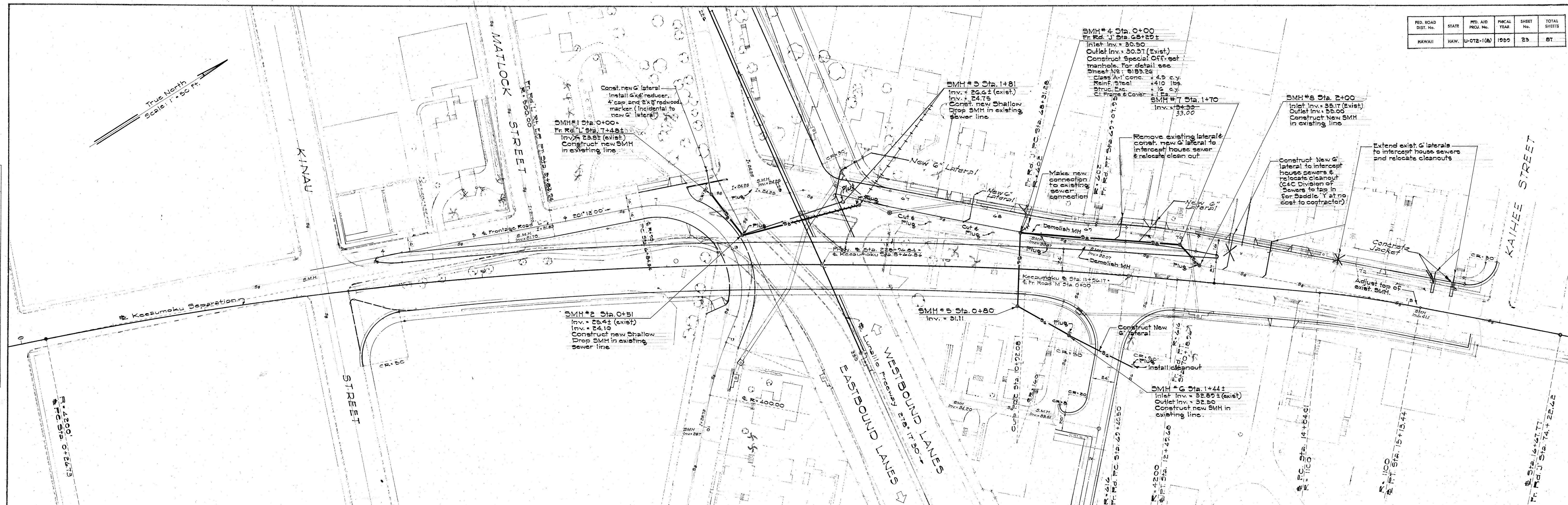


PLAN	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
NO. _____	ALIGNMENT CHECKED _____		
	RT. OF WAY CHECKED _____		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	GRADES CHECKED		
	B M'S NOTED		
	STRUCTURE NOTATIONS CH'KD.		



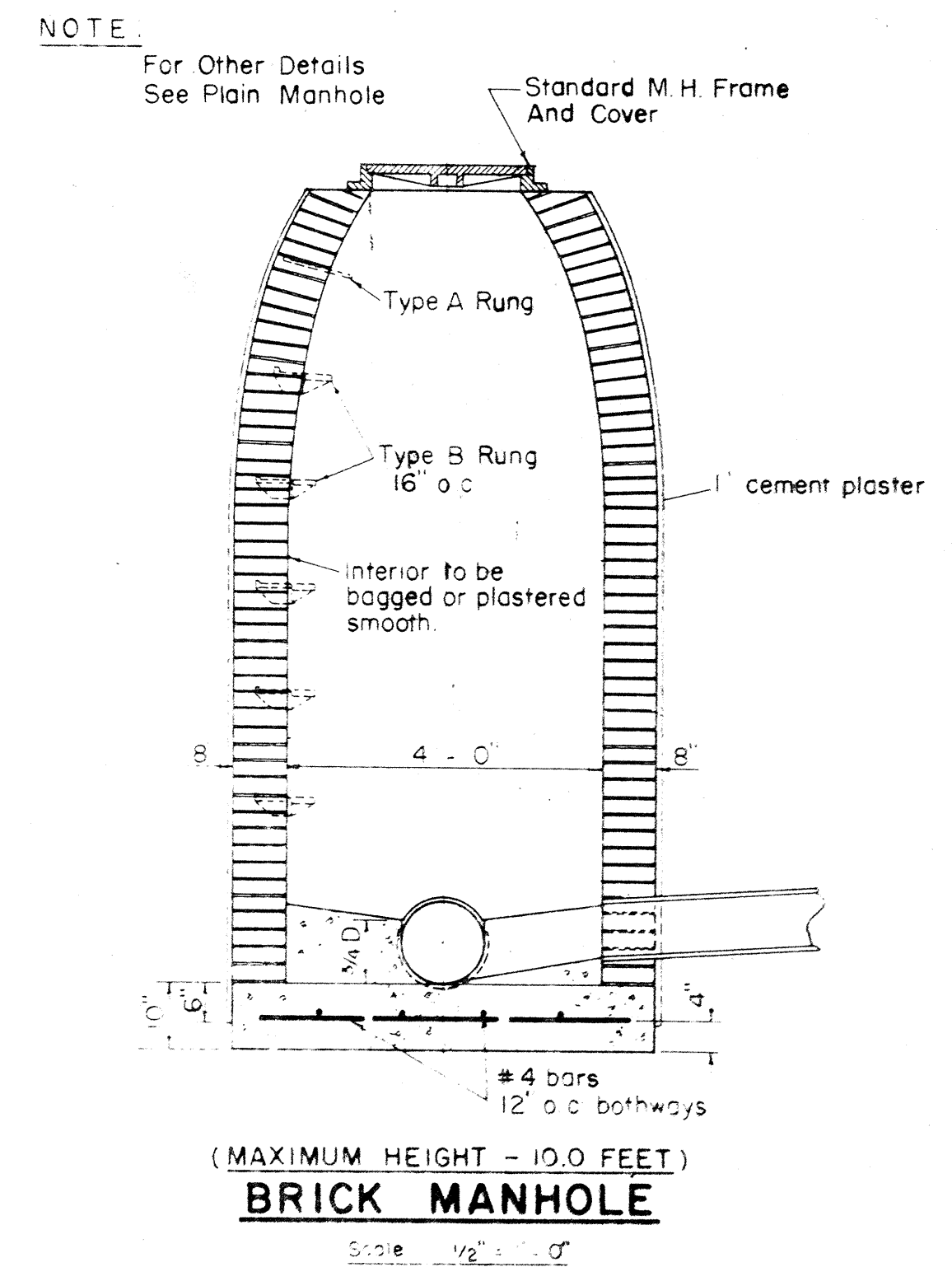
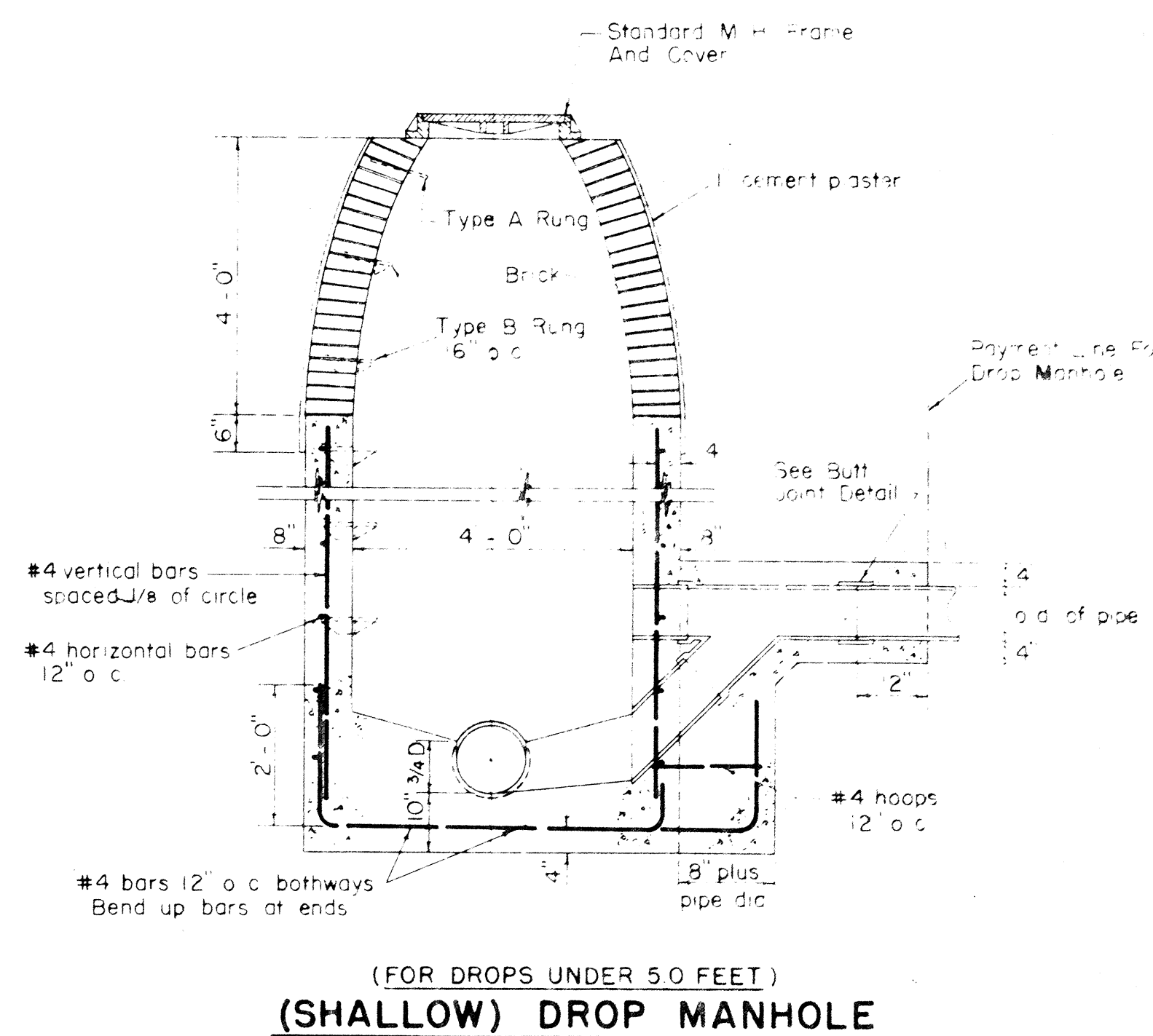
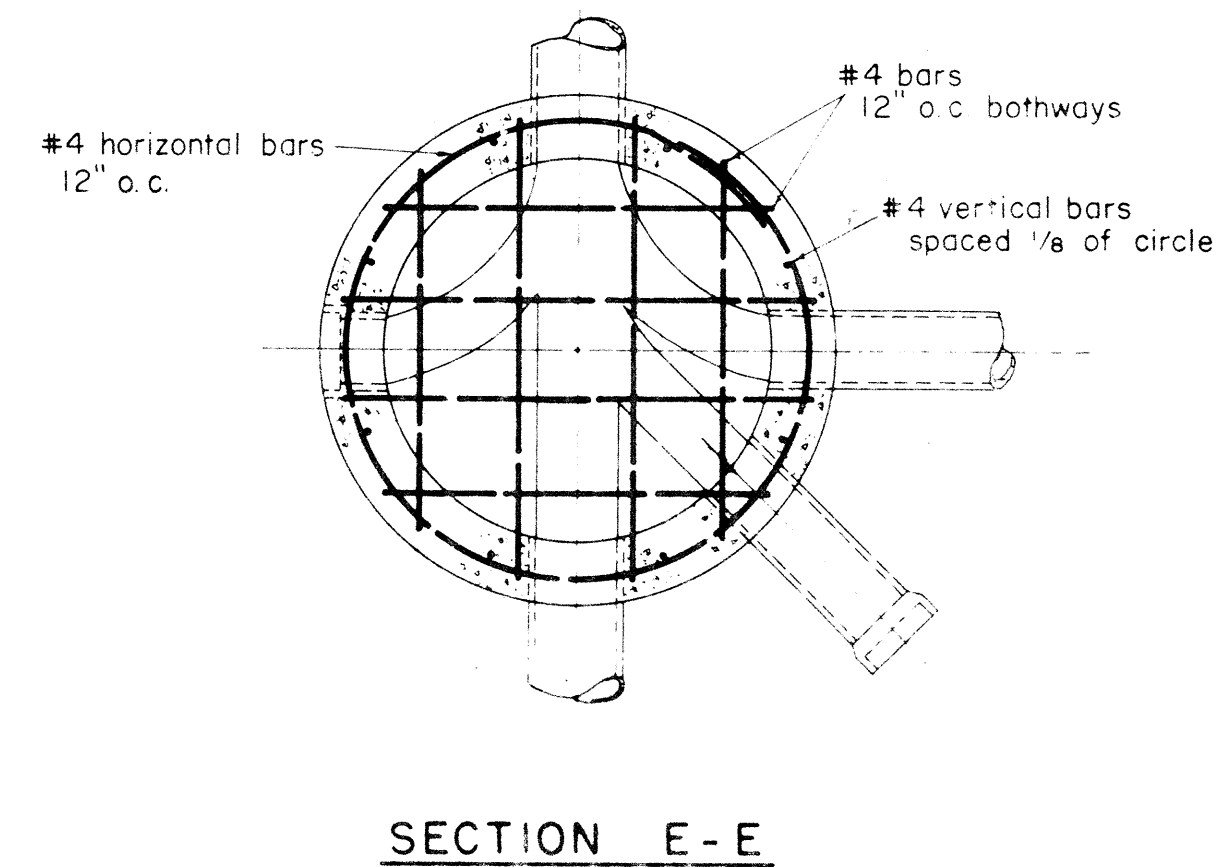
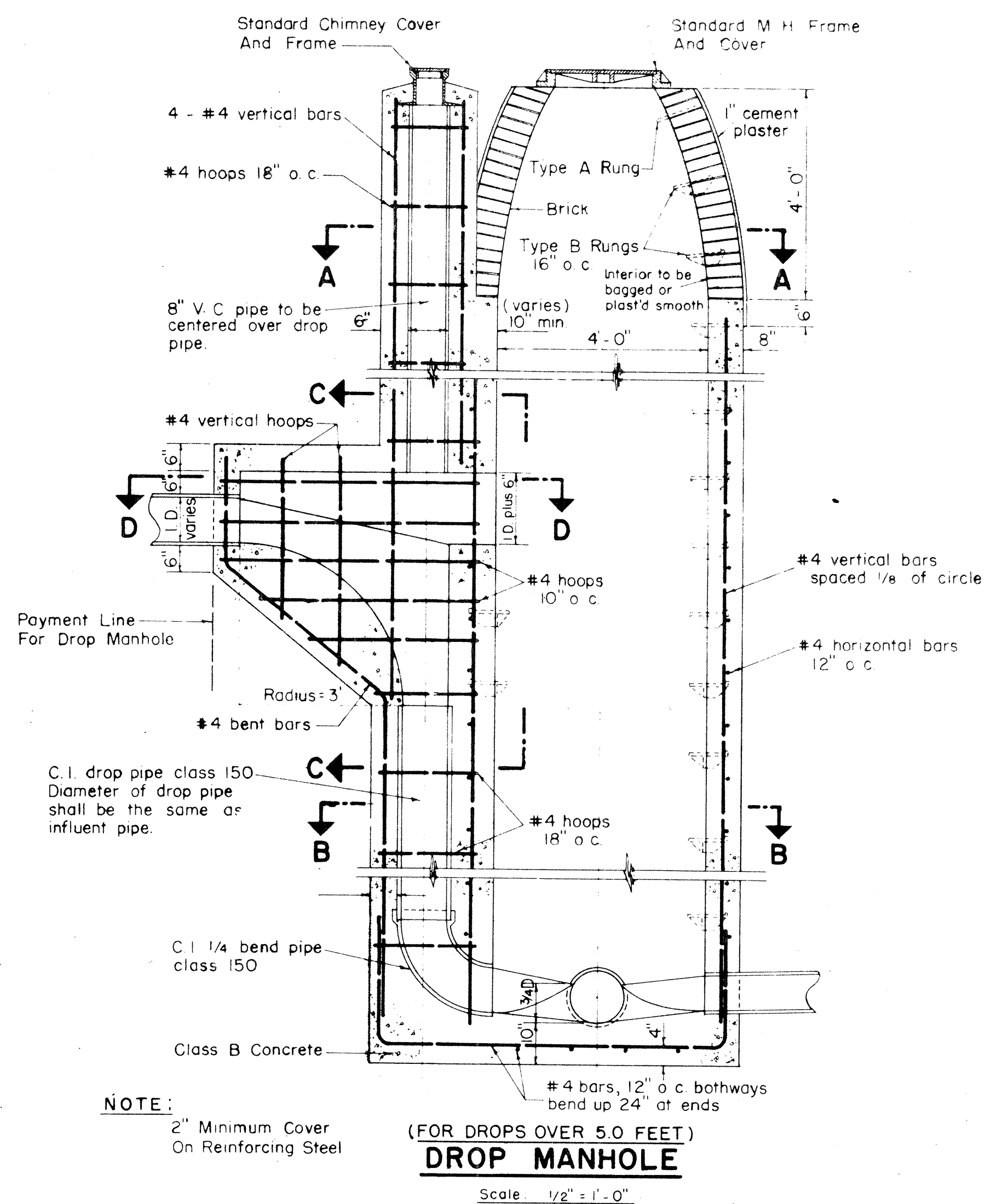
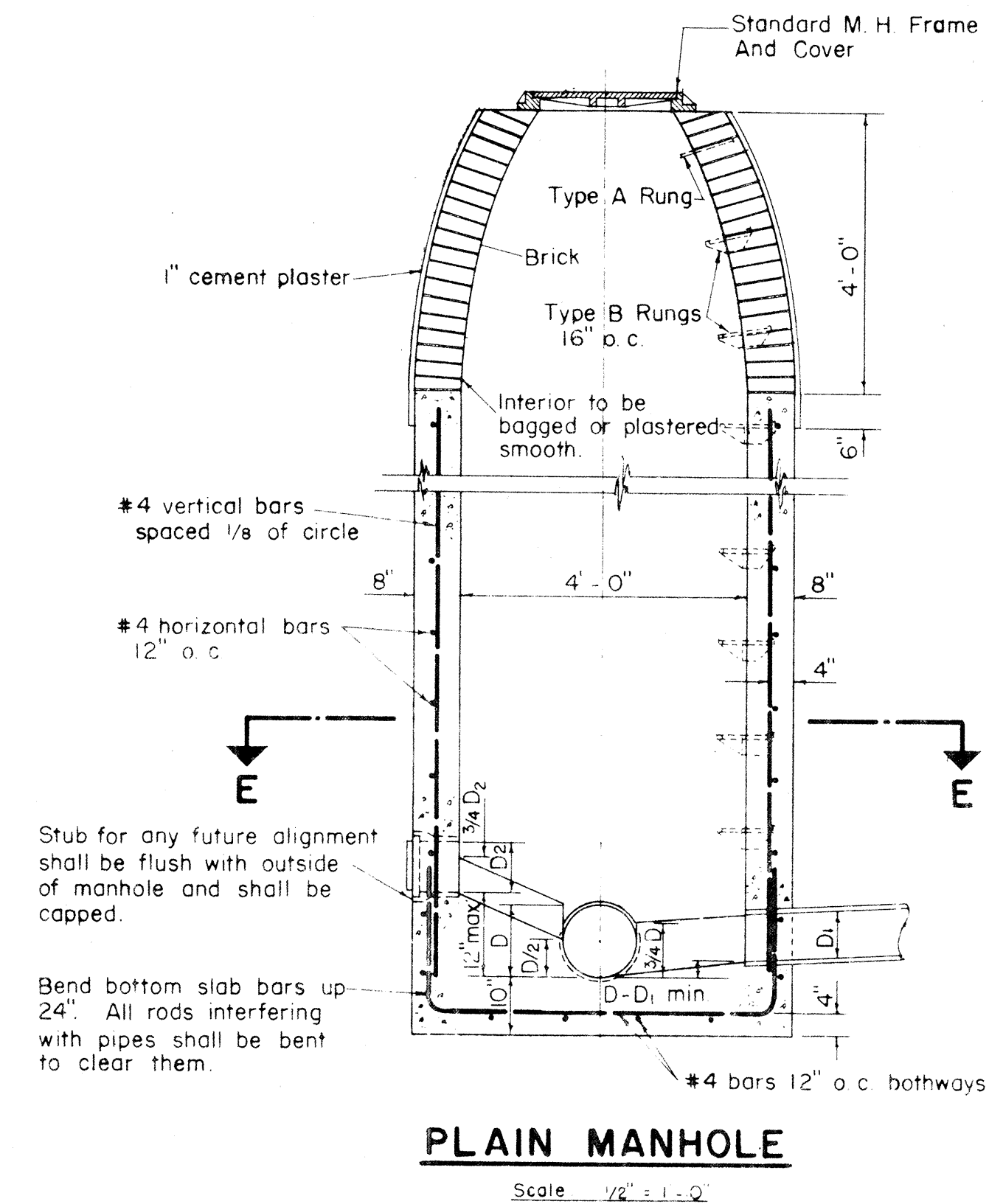
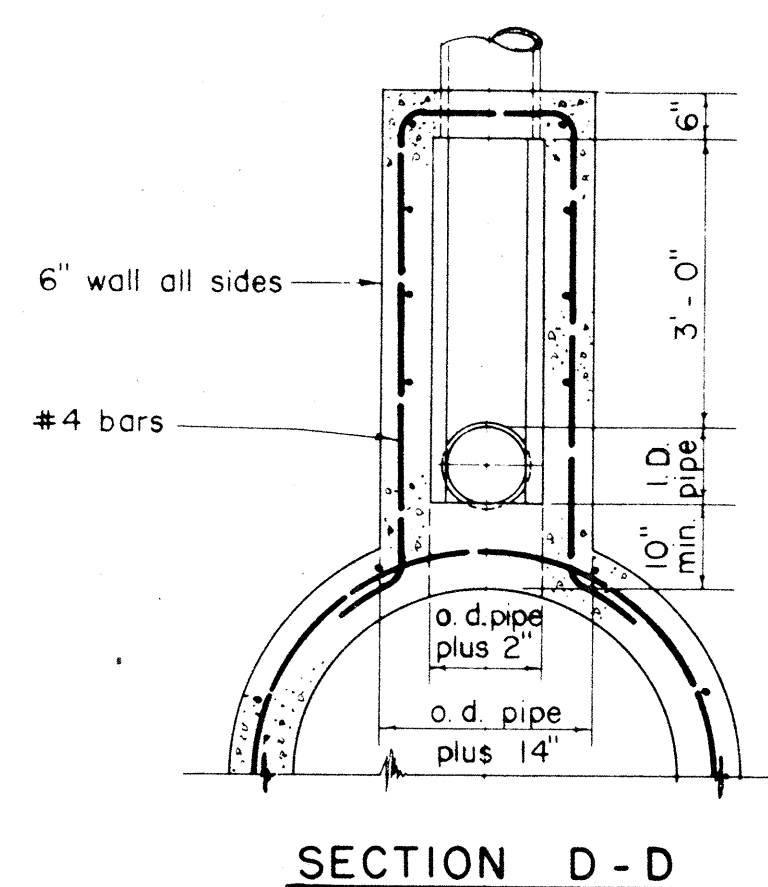
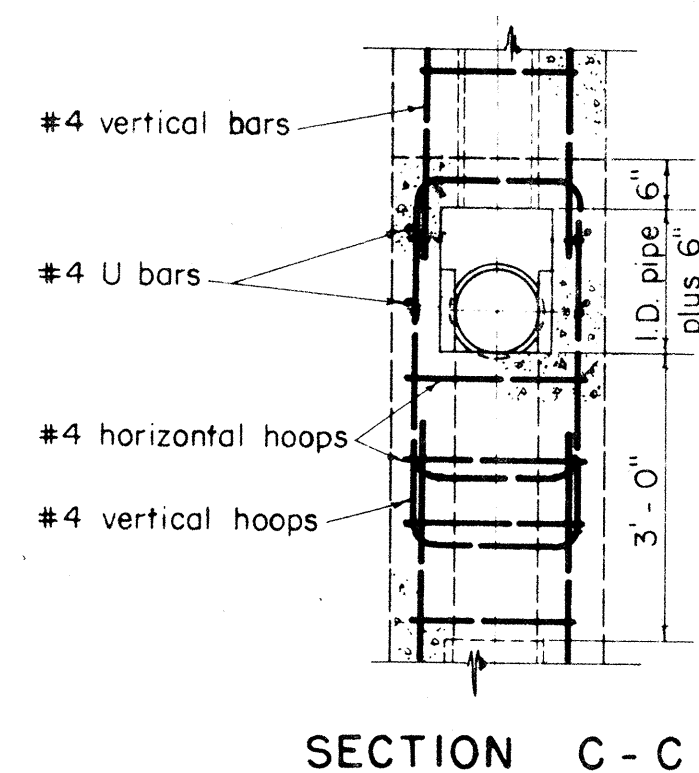
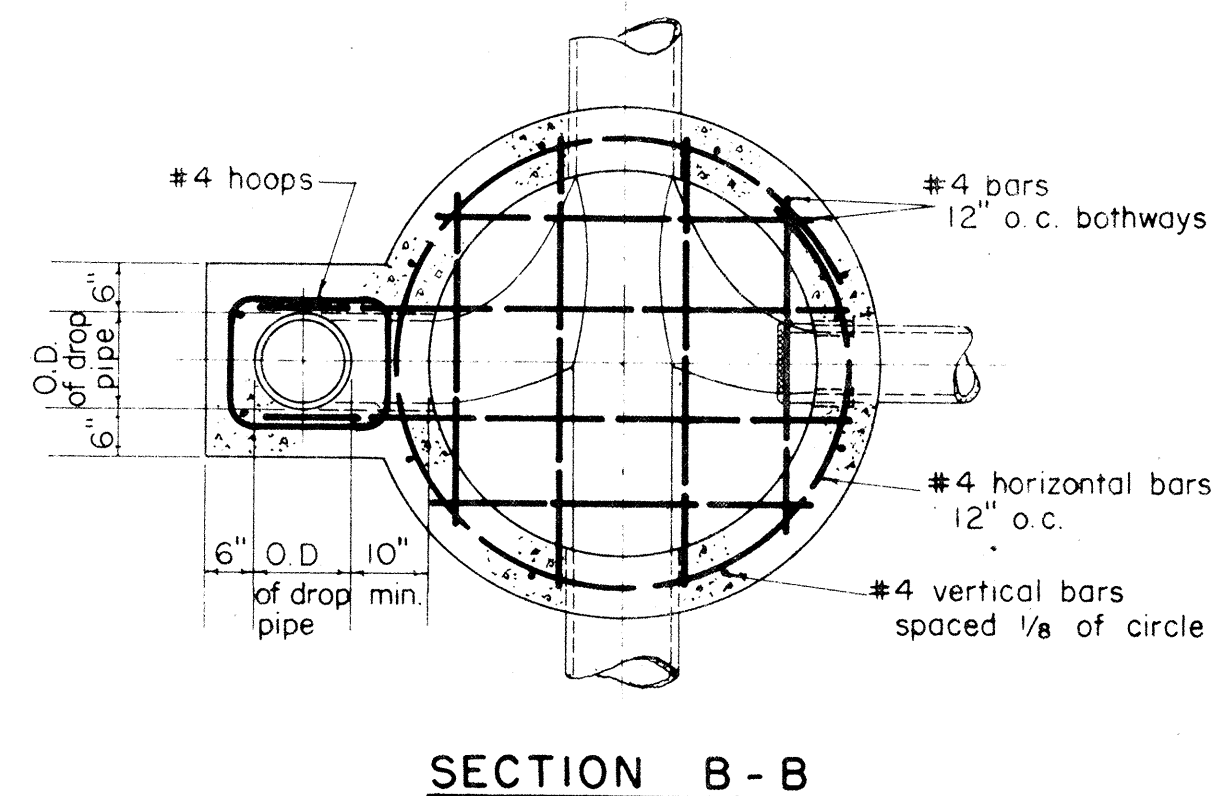
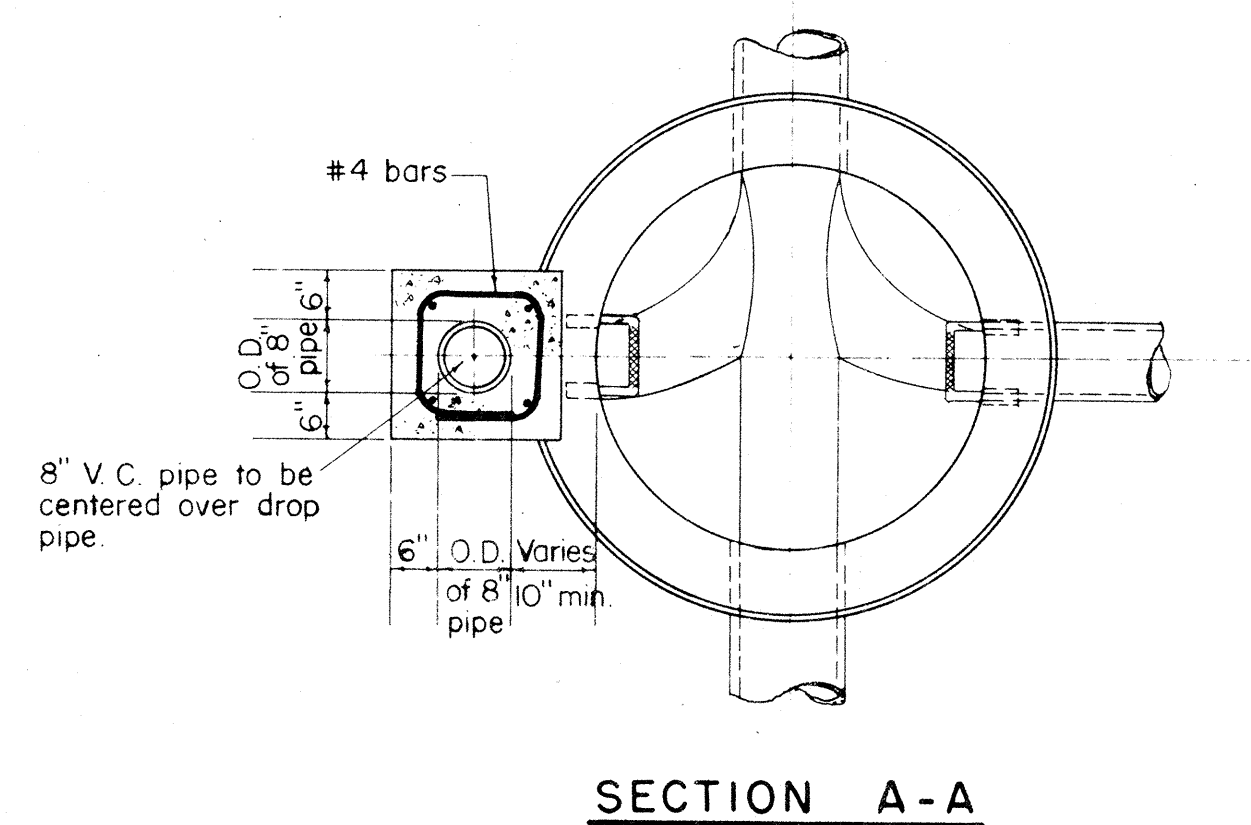
SEWER SYSTEM

SHEET No. 1 OF 4 SHEETS

SHEET No. 1 OF 4 SHEETS

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FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	U-072-1(8)	1959	24	87



NOTE:

For Other Details
See Plain Manhole

Payment for excavation for manholes shall be made under unit price for trench excavation and shall be measured to one foot outside of walls from original ground elevation to authorized bottom elevation.

Payment for manhole walls shall be precast concrete or cast-in-place concrete; shall include brick, precast concrete pipe sections, mortar, concrete, reinforcing steel, cast-in steel, galvanized wrought iron rings, and plastering.

Payment for manhole bases shall include concrete, reinforcing steel, and the construction of vents.

NOTE:

1. Manhole rungs shall not be aligned above any flow line.
2. No rungs shall be installed in manholes less than 3' high.
3. When not otherwise noted, manhole stubs shall be sloped as follows

<u>Pipe Size</u>	<u>Rise Per Foot</u>
6"	1/8"
8"	3/32"
10"	1/16"
12"	1/16"

- 4 All reinforcing rods interfering with pipes shall be bent to clear them.
- 5 Bar laps to be 40 diameters in length.
- 6 Data for special manholes not shown shall be similar to that for plain manholes.
- 7 Size of drop pipe in all Drop Manholes shall be same as influent line.
- 8 Manhole wall to be of reinforced concrete to height 1' above normal ground water table.

HAWAII STATE HIGHWAY DEPARTMENT

STATE OF HAWAII

KEEAUMOKU SEPARATION
PROJECT NO. U-072-1(8)

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
DIVISION OF SEWERS
REVISED
STANDARD DETAILS
(SUPERSEDES STANDARD DATED 11-1-54)

ENGINEER <i>A. H. King</i>		DATE <i>October 9, 1957</i>	
DRAFTSMAN <i>A. H. King</i>		CHECKED BY <i>A. H. King</i>	
SCALE <i>1/2" = 1'-0"</i>		TRACER <i>A. H. King</i>	
APPROVED <i>A. H. King</i>		APPROVED <i>V. Howe</i>	
CHIEF ENGINEER		DIVISION ENGINEER	

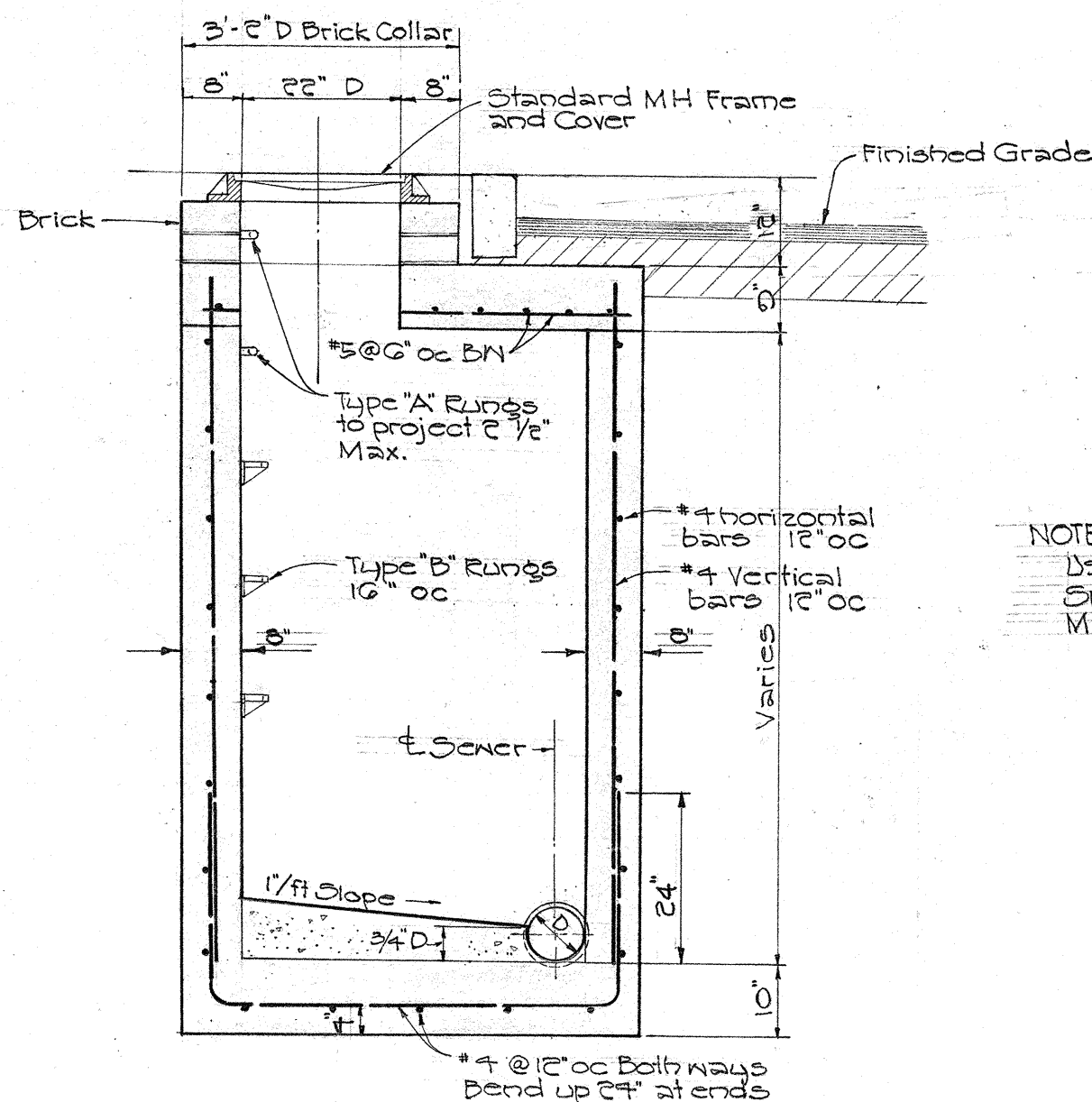
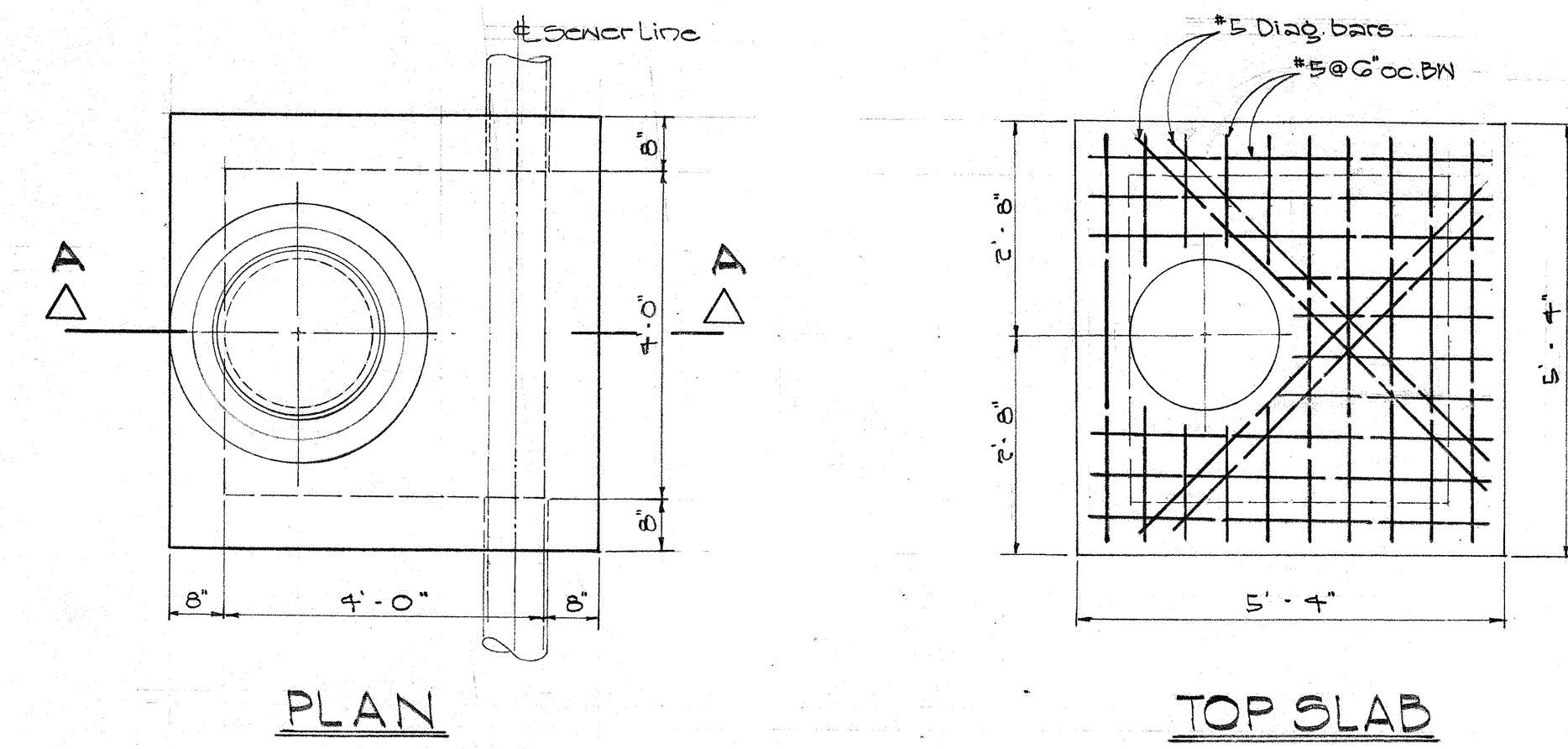
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C. REC.	F. B.	S. B.
W. M. RV.	F. M. RV.	S. M. RV.

SHEET NO 2 OF 4 SHEETS

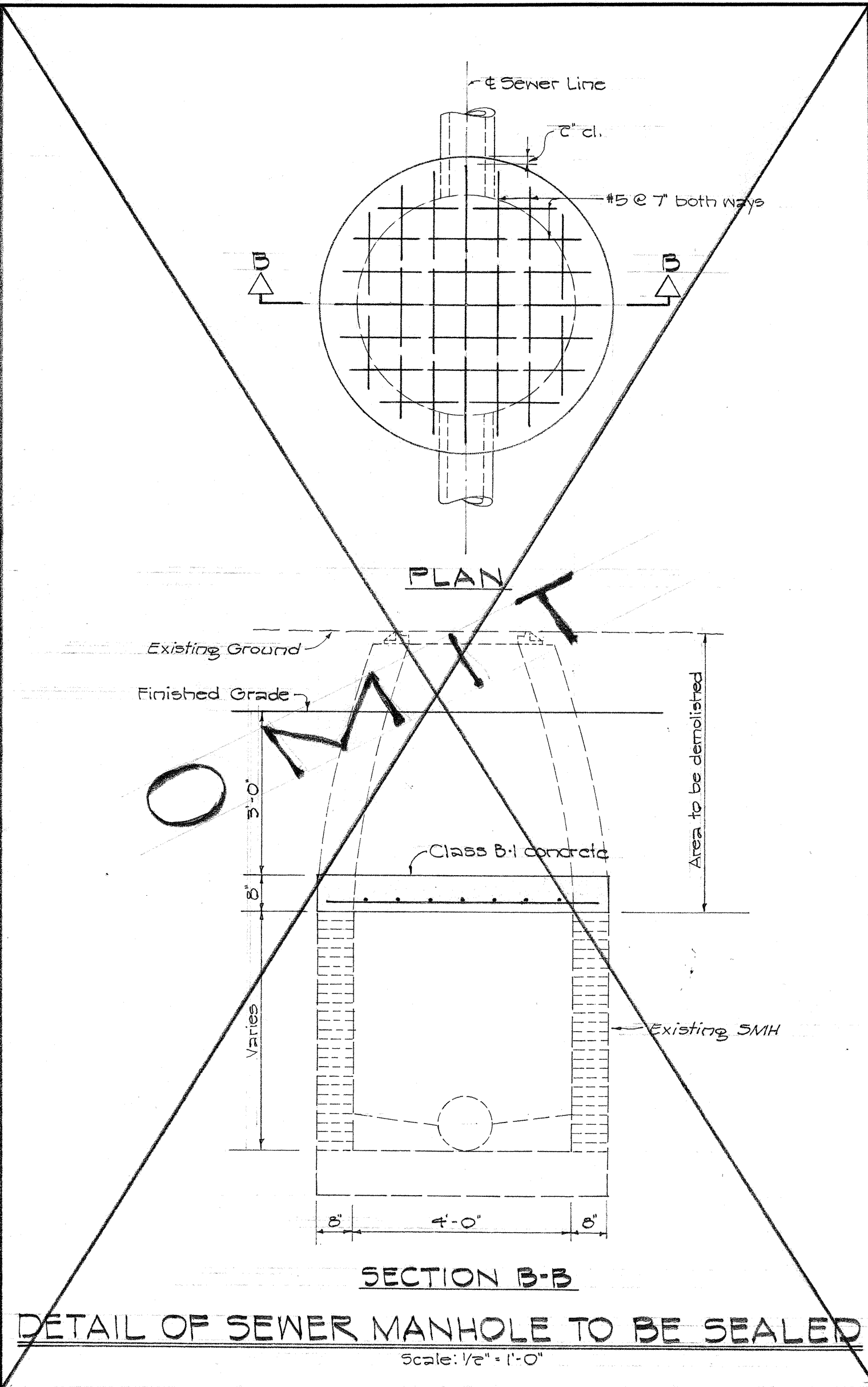
SHEET OF

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	U-072-1(B)	1959	26	27



DETAIL OF SPECIAL OFF-SET SEWER MH
Scale: 1/4" = 1'-0"



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
DRAWN BY	
NOTED BY	
QUANTITIES CHECKED BY	
CHECKED BY	

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
SEWER SYSTEM DETAILS
KEEAUMOKU SEPARATION
Project No. U-072-1(B)

Scale: As Noted
Date: May 1959