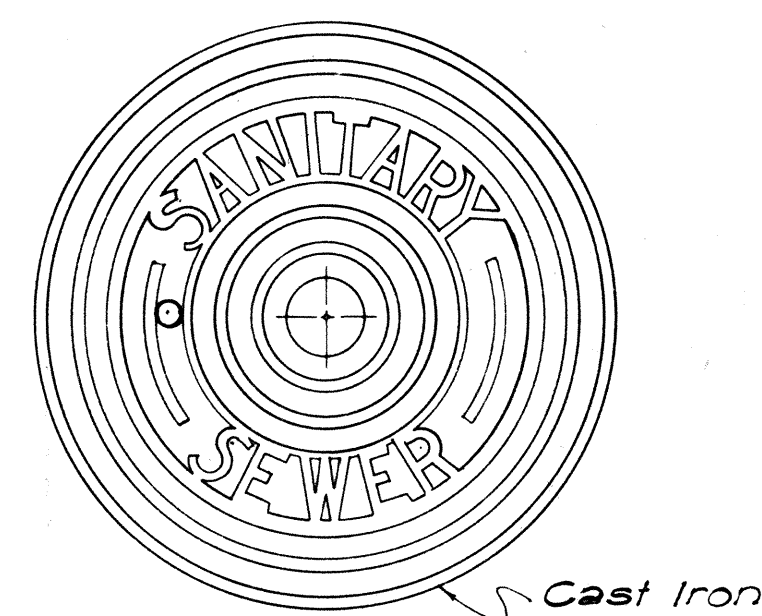


2/17/57
8/14/59

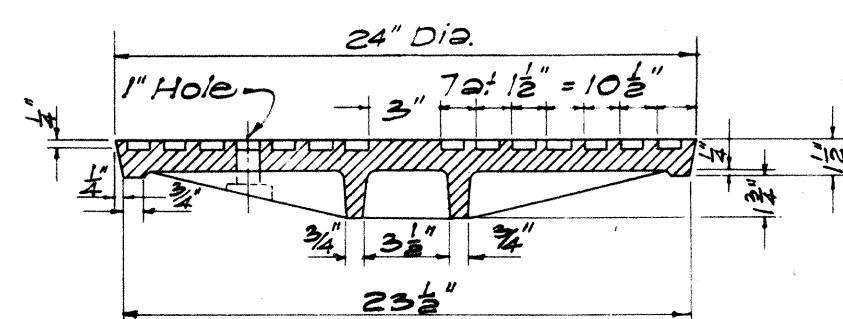
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	141-1498	1967	14	28

August 1957

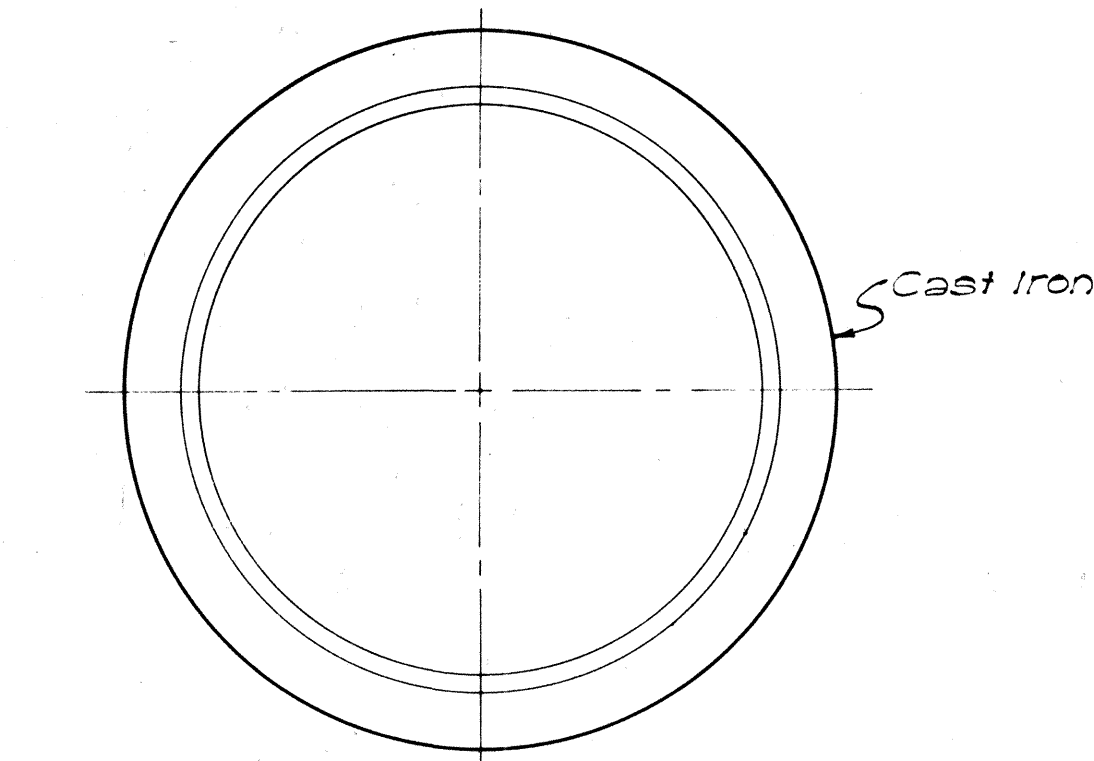
NOTE: Stock Pattern From Novelty Foundry ~ Honolulu



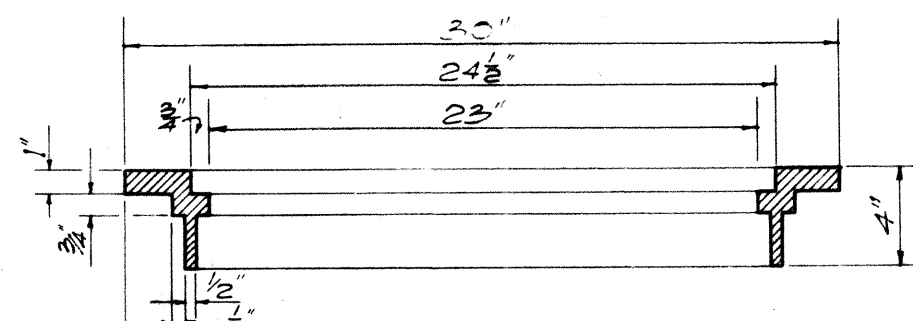
TOP VIEW OF COVER



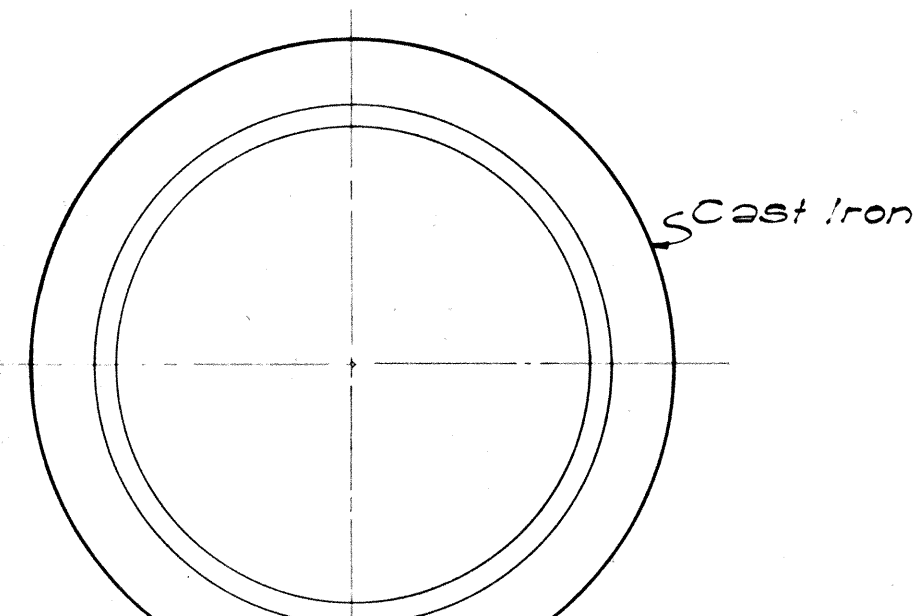
SECTION



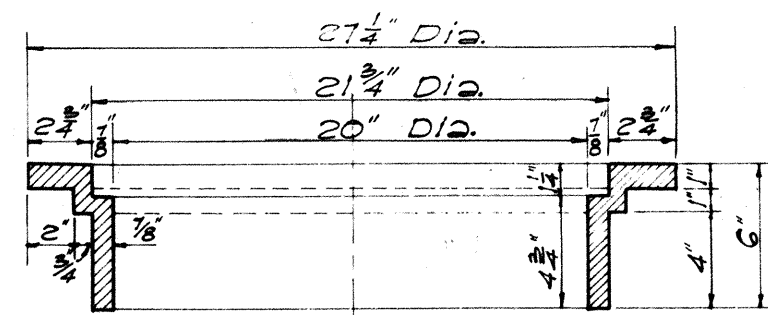
PLAN OF RIM



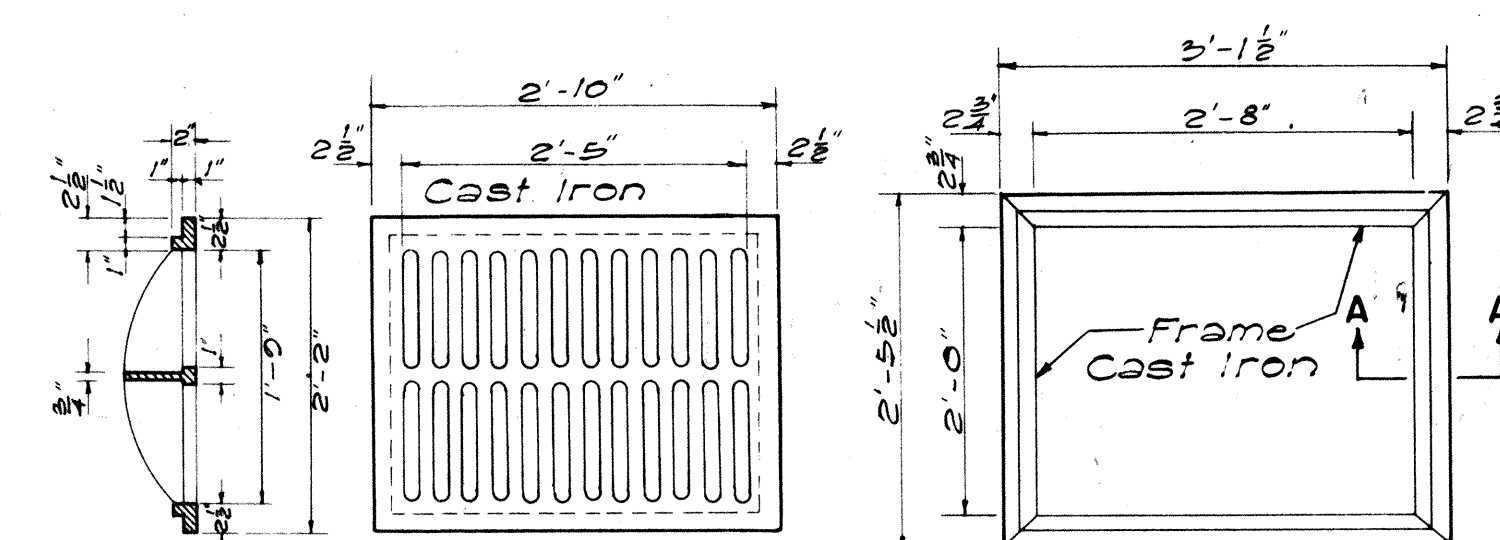
SECTION OF RIM



PLAN OF RIM



SECTION OF RIM



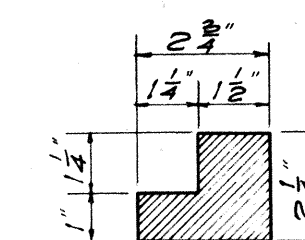
SECTION

TOP VIEW

TOP VIEW

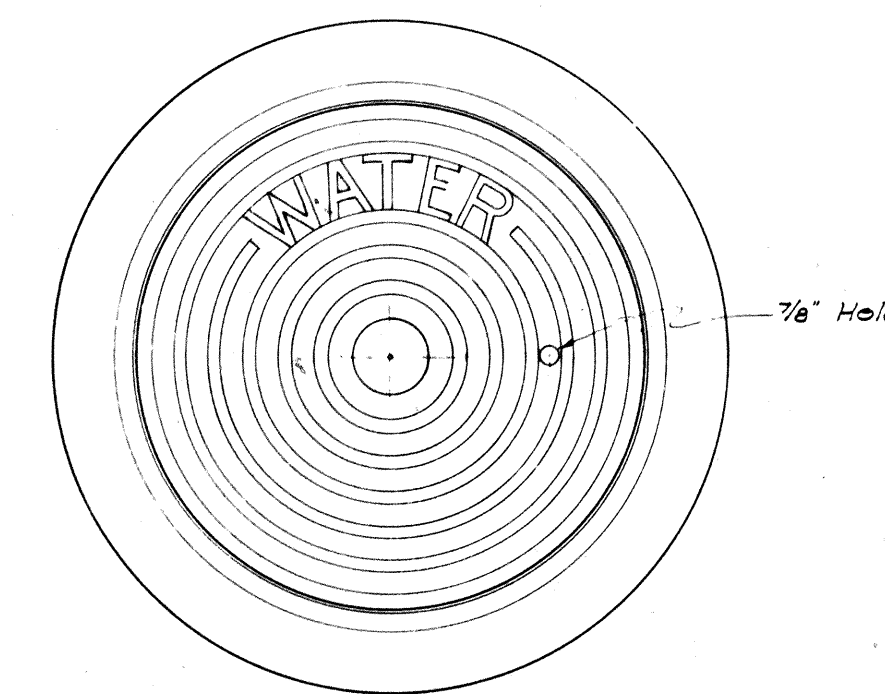
TYPE C C.I. FRAME AND GRATING

SCALE: 3/4" = 1'-0"

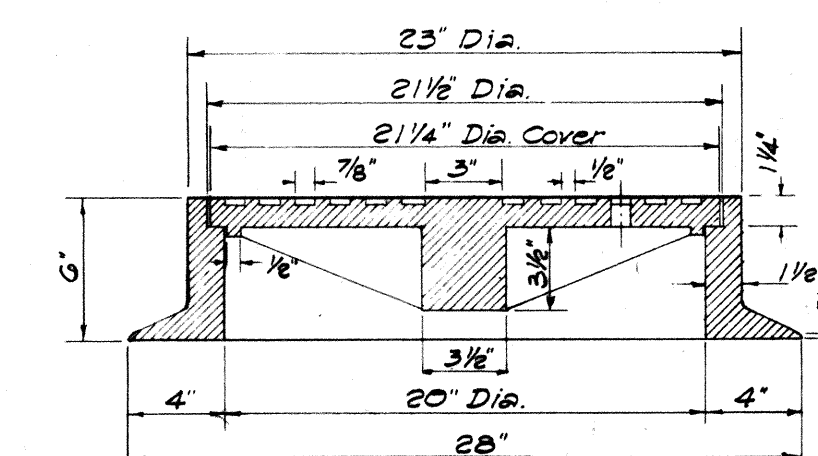


SECTION "A-A"

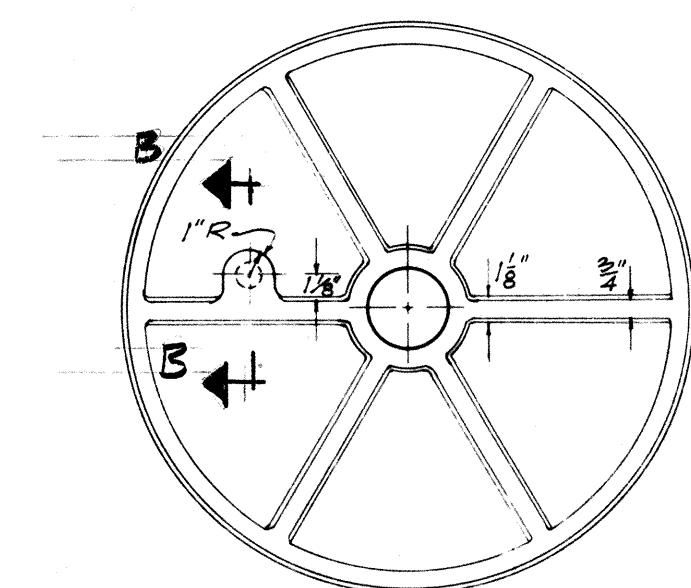
SCALE 3" = 1'-0"



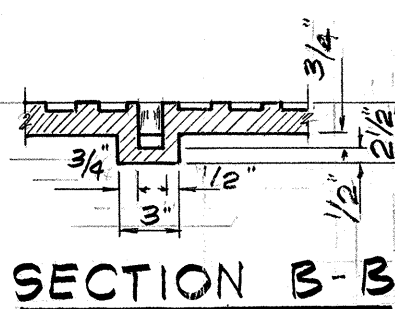
PLAN OF FRAME AND COVER



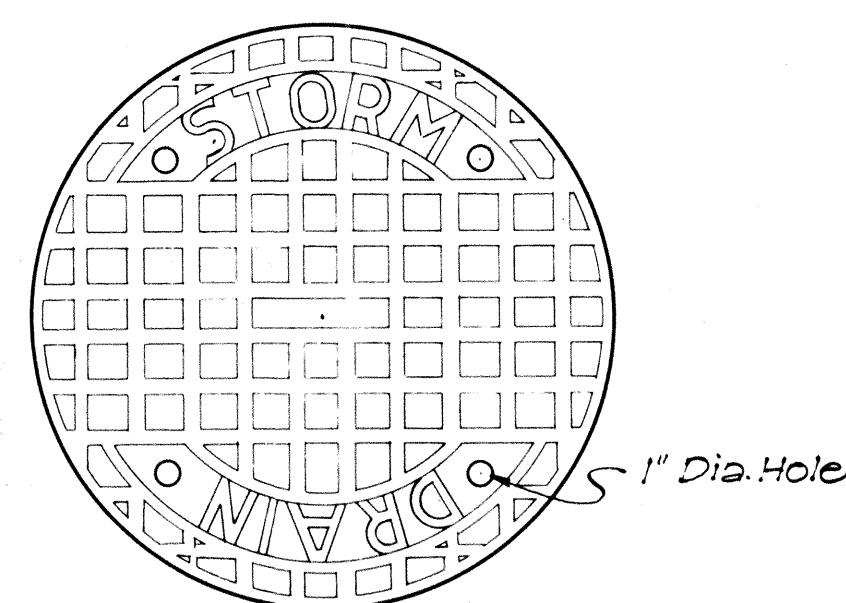
SECTION OF FRAME AND COVER



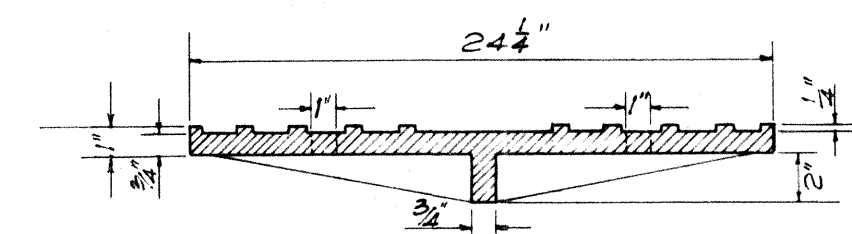
BOTTOM VIEW OF COVER



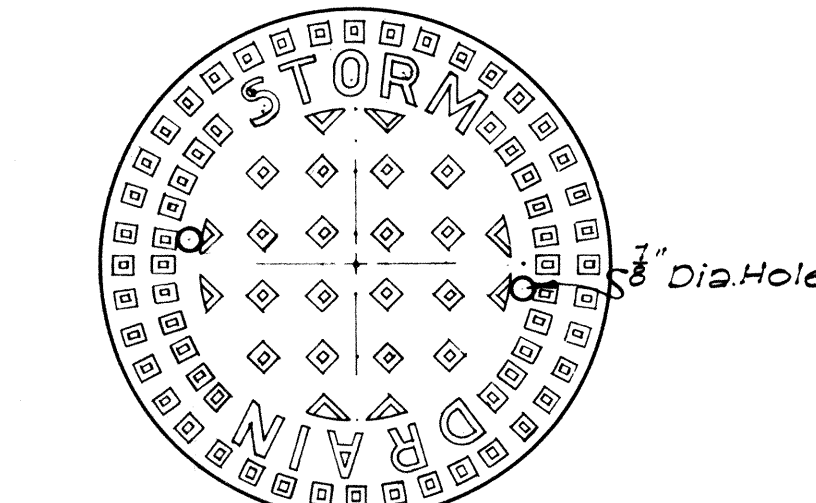
SECTION B-B



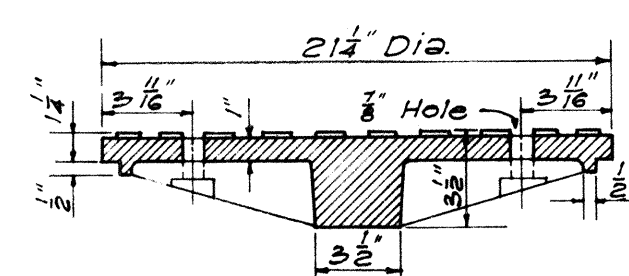
TOP VIEW OF COVER



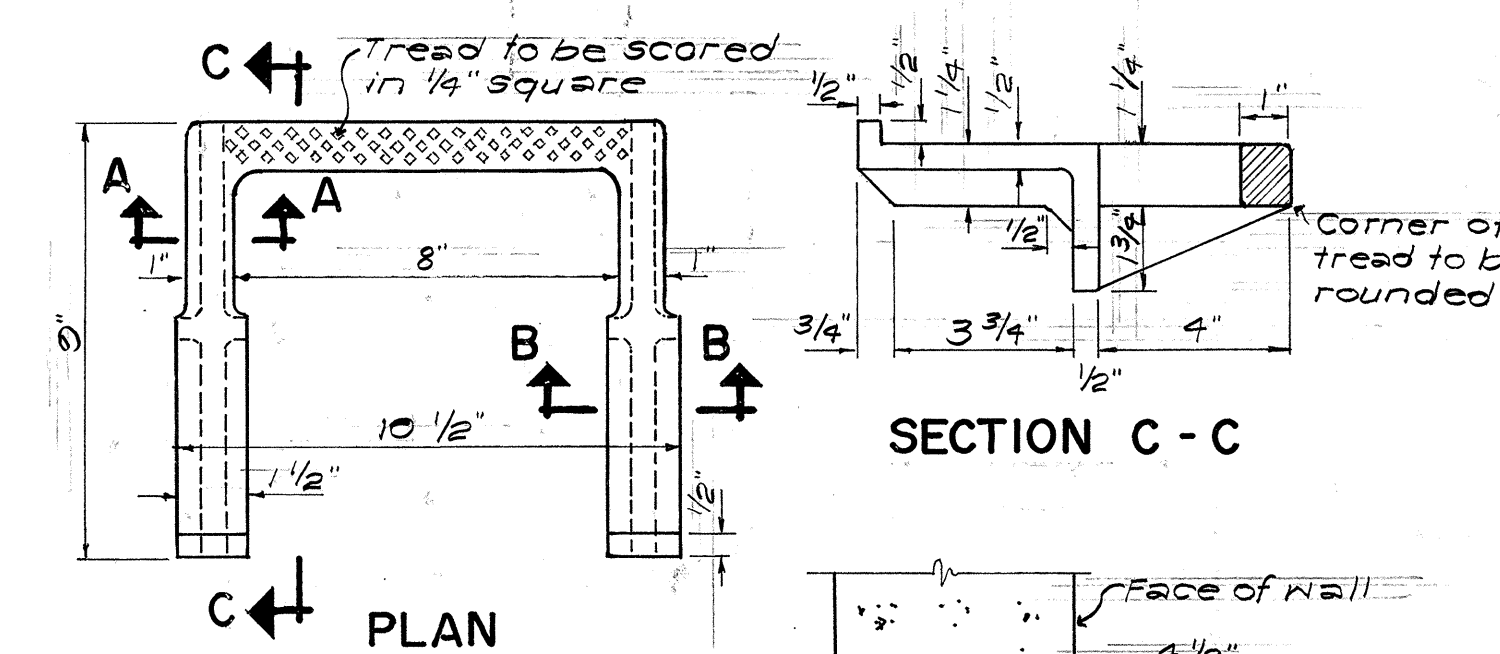
SECTION



TOP VIEW OF COVER



SECTION



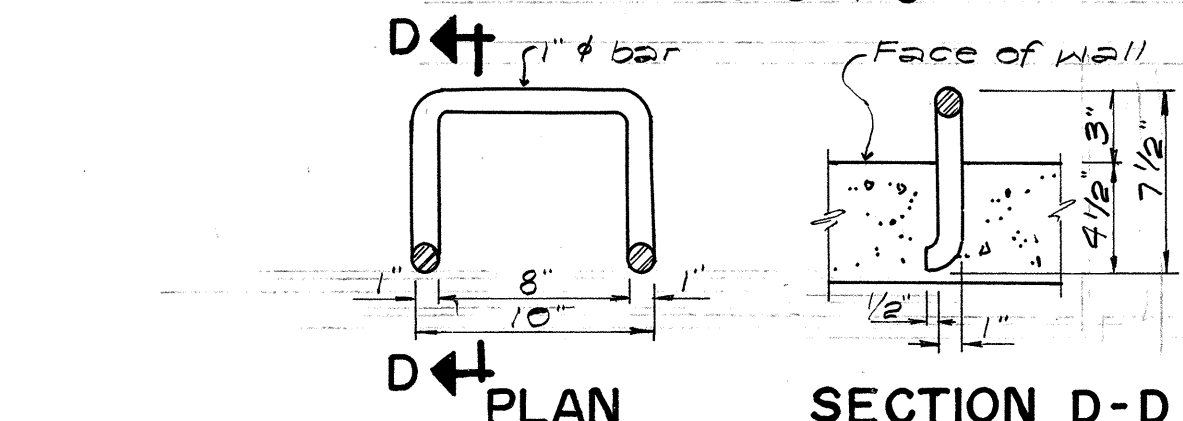
SECTION A-A

SECTION B-B

METHOD OF INSTALLATION

TYPE SB MANHOLE RUNGS (CAST IRON)

Scale: 3" = 1'-0"

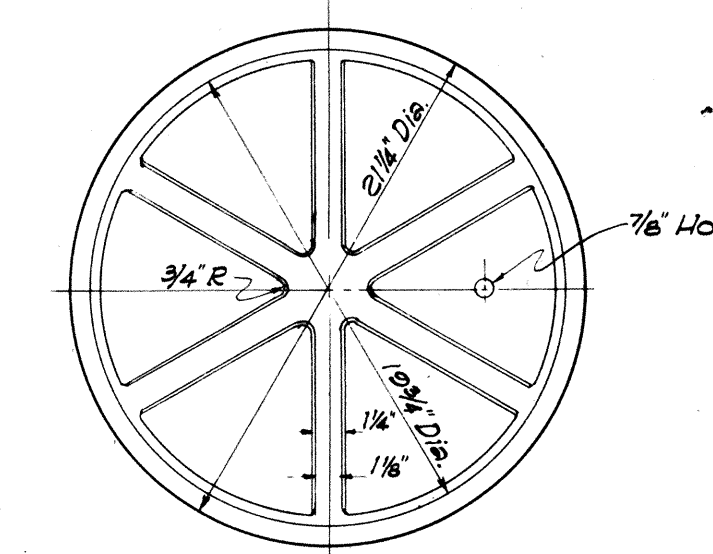


PLAN

SECTION D-D

TYPE SA MANHOLE RUNGS (WROUGHT IRON)

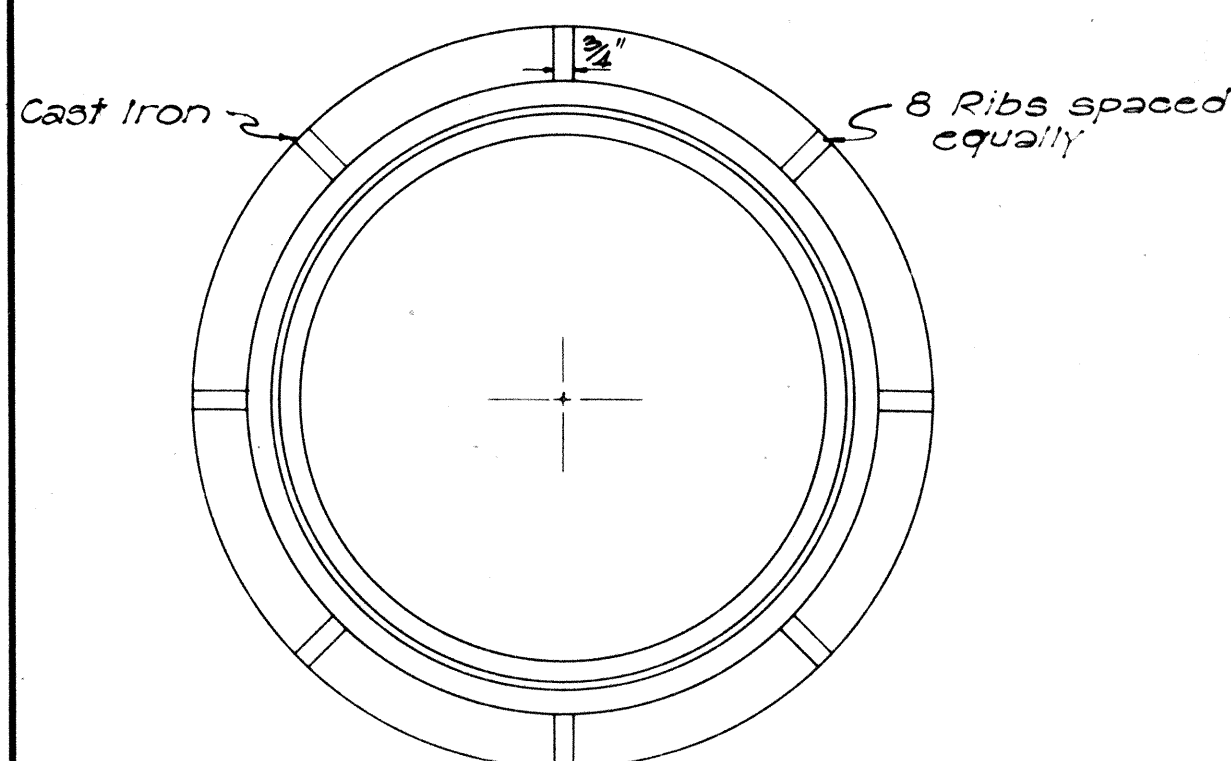
Scale: 1/2" = 1'-0"



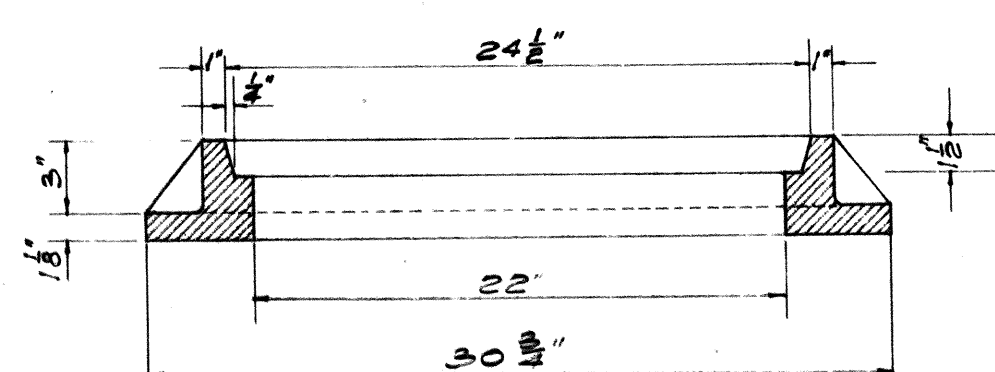
BOTTOM VIEW OF COVER

DETAILS OF TYPE "W"
CAST IRON FRAME AND COVER

SCALE: 1-1/2" = 1'-0"



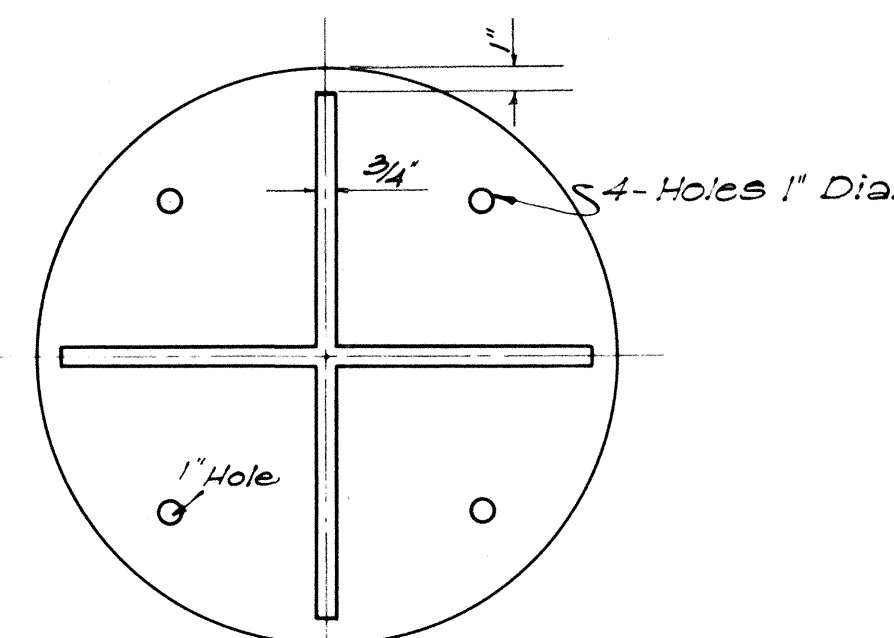
PLAN OF RIM



SECTION OF RIM

DETAILS OF TYPE "SA"
CAST IRON FRAME AND COVER

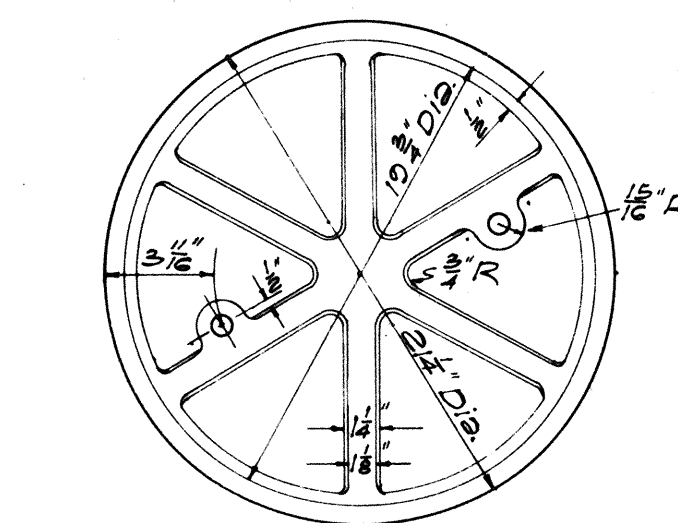
SCALE: 1-1/2" = 1'-0"



BOTTOM VIEW OF COVER

DETAILS OF TYPE "B"
CAST IRON FRAME AND COVER

SCALE: 1-1/2" = 1'-0"



BOTTOM VIEW OF COVER

DETAILS OF TYPE "A"
CAST IRON FRAME AND COVER

SCALE: 1-1/2" = 1'-0"

APPROVED:

W. K. Kamae
CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

1/27/68
DATE

E. L. L.
DIRECTOR, DIVISION OF SEWERS
CITY AND COUNTY OF HONOLULU

2-27-68
DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
CATCH BASIN AND
MANHOLE CASTINGS

SCALES AS NOTED

SHEET NO. 14 OF 28 SHEETS

DATE: 2/17/57
DESIGNED BY: A. Calisto
NOTED BY: A. Calisto
QUANTITIES BY: A. Calisto
CHECKED BY: A. Calisto