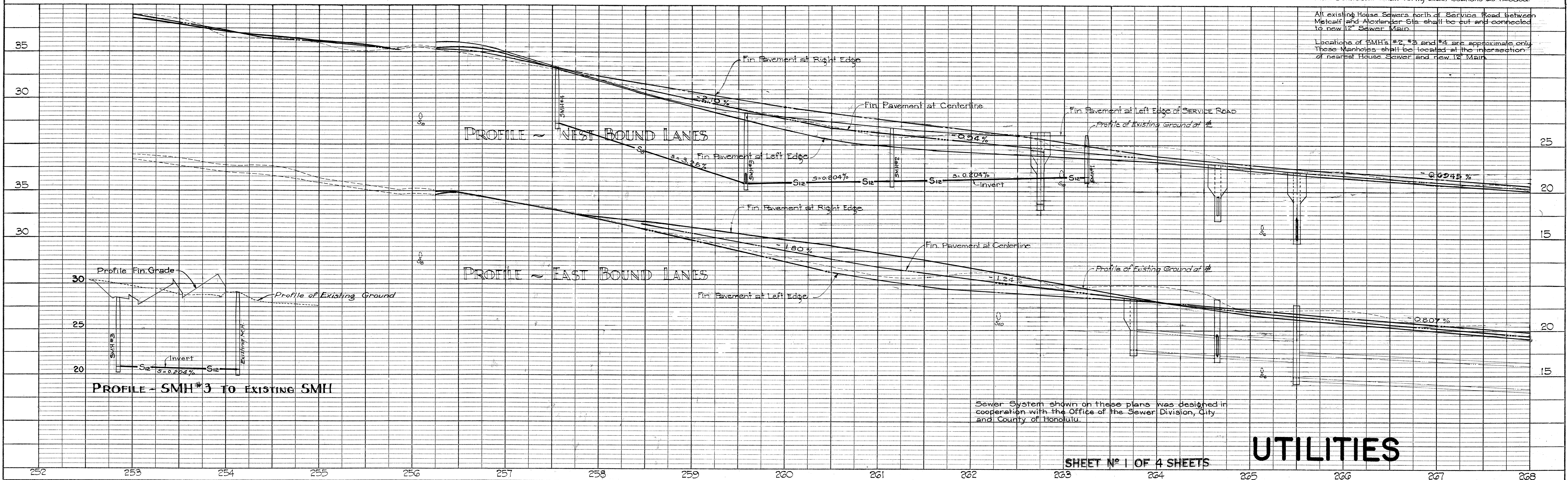
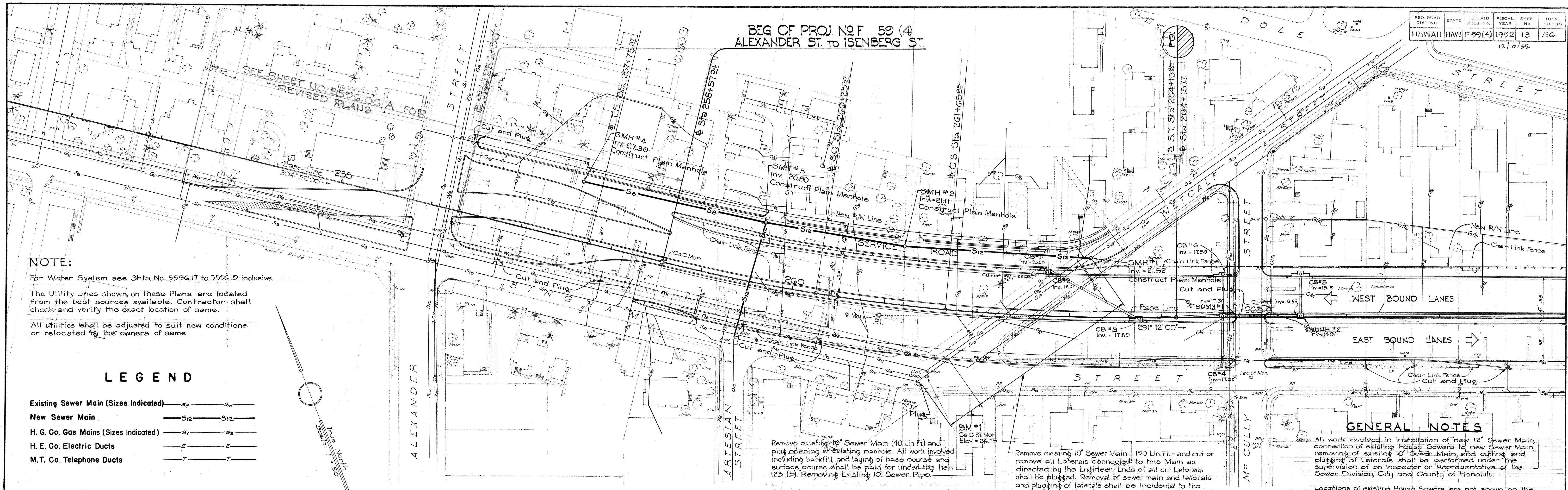


FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW	F 59(4)	1952	13	56

12/10/52



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F59(4)	1952	14	56

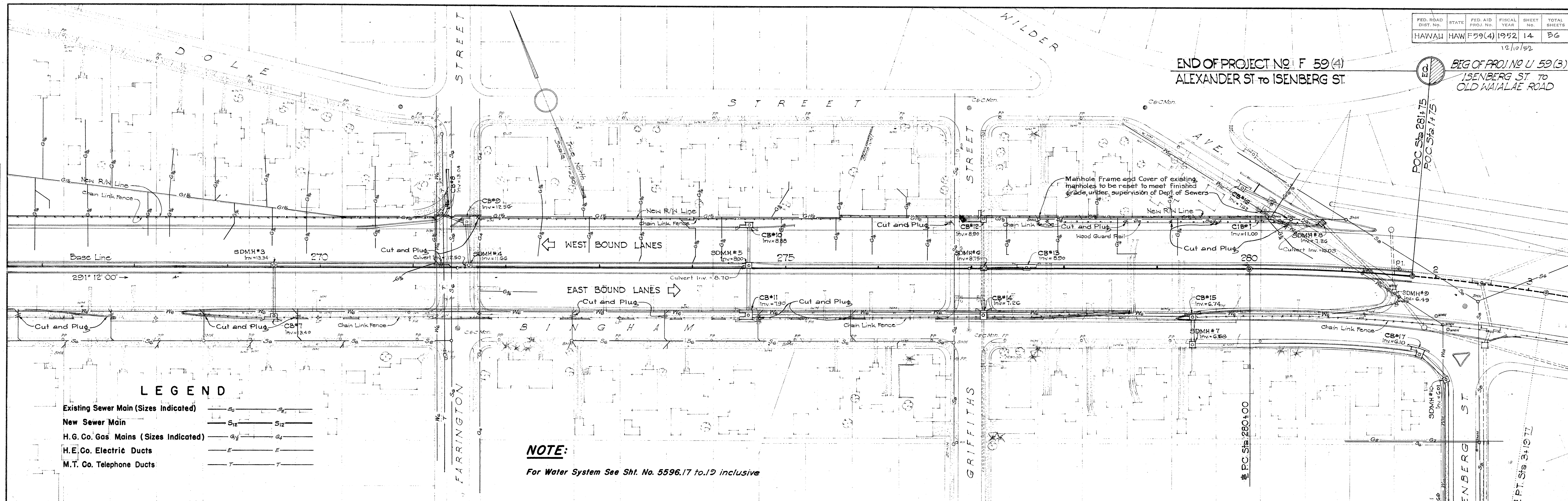
END OF PROJECT NO. F 59(4)
ALEXANDER ST. TO ISENBERG ST.

BEG. OF PROJ. NO. U 59(3)
ISENBERG ST. TO OLD WAIALAE ROAD

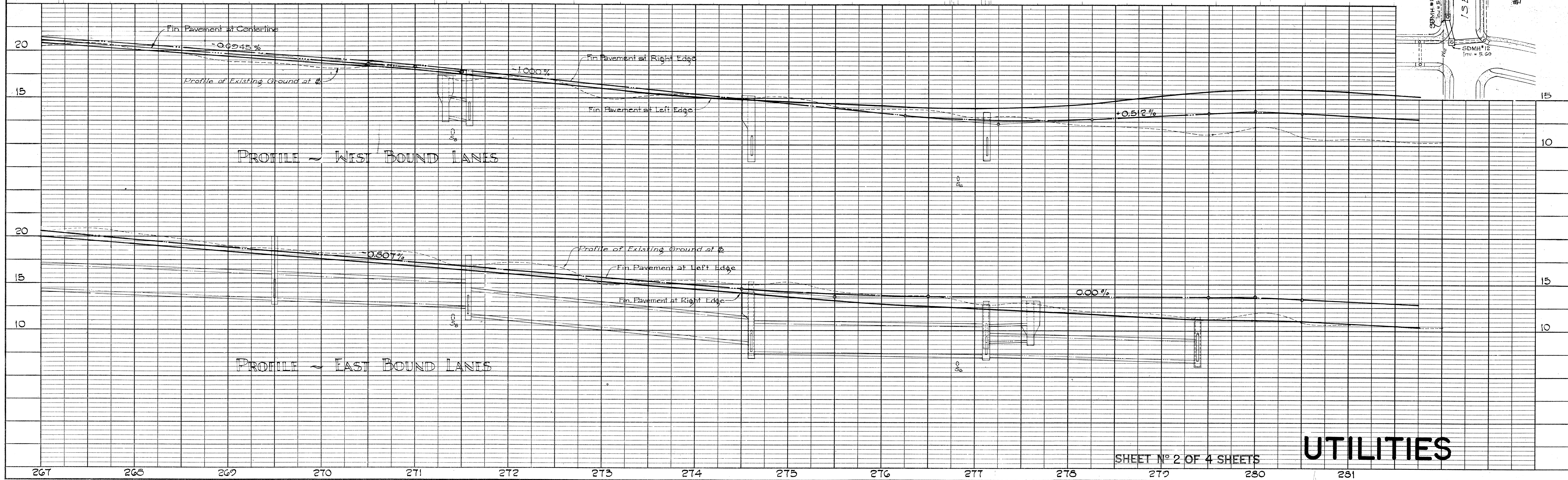
POC Sta 281+75
POC Sta 17+15

PLAN	DATE
SURVED	
NOTE BOOK	
ALIGNED CHECKED	
RT. OF WAY CHECKED	
NO.	

PROFILE	DATE
SURVED	
NOTE BOOK	
GRADES CHECKED	
3 M.S. NOTED	
STRUCTURE NOTING CHKD.	
NO.	



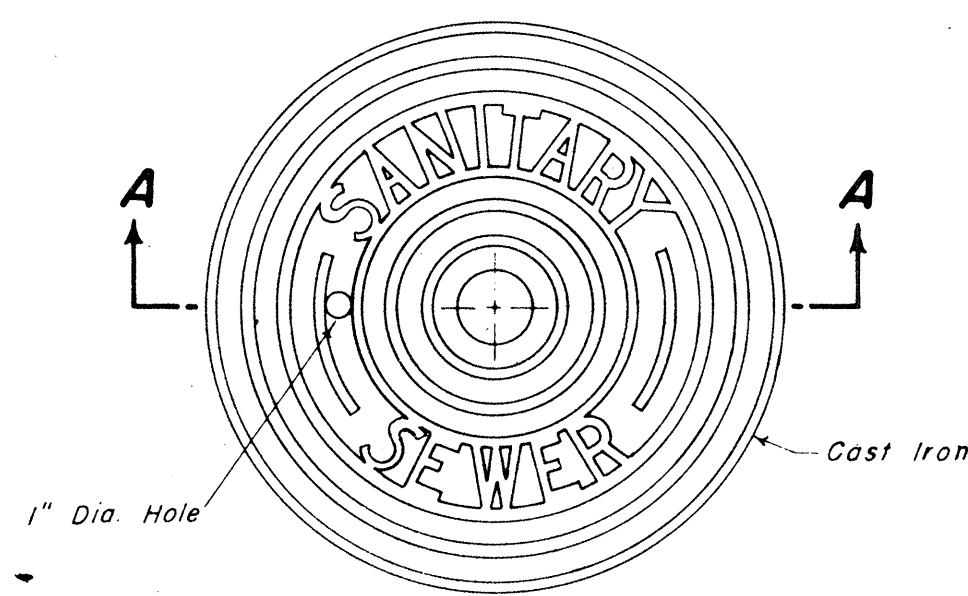
NOTE:
For Water System See Sht. No. 5596.17 to 19 inclusive



SHEET NO. 2 OF 4 SHEETS

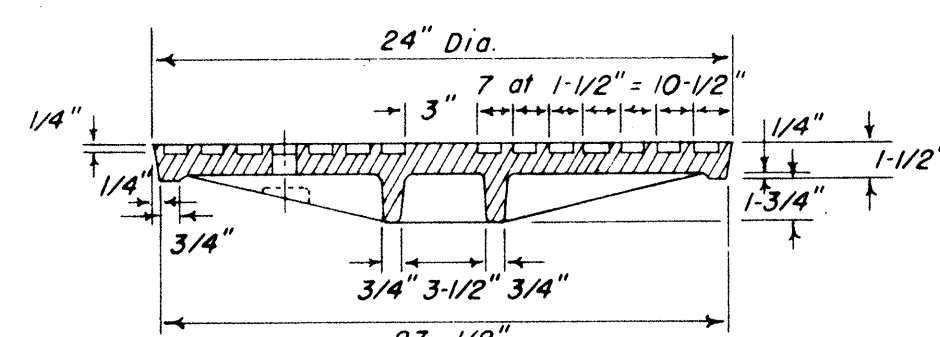
UTILITIES

5596.14

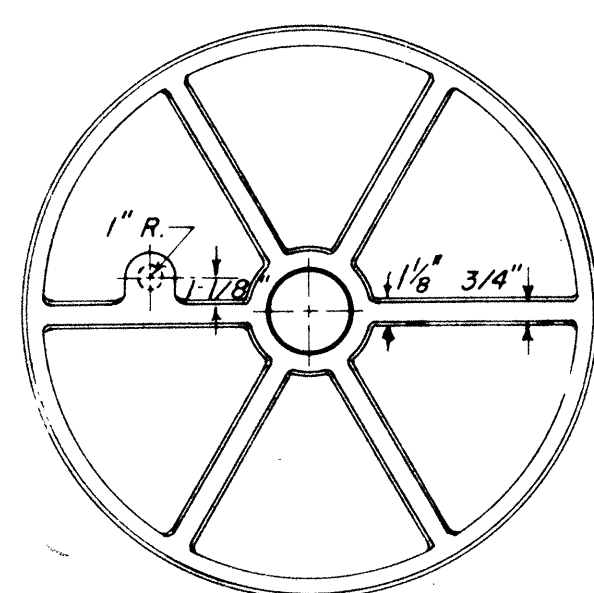


PLAN OF MANHOLE COVER

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

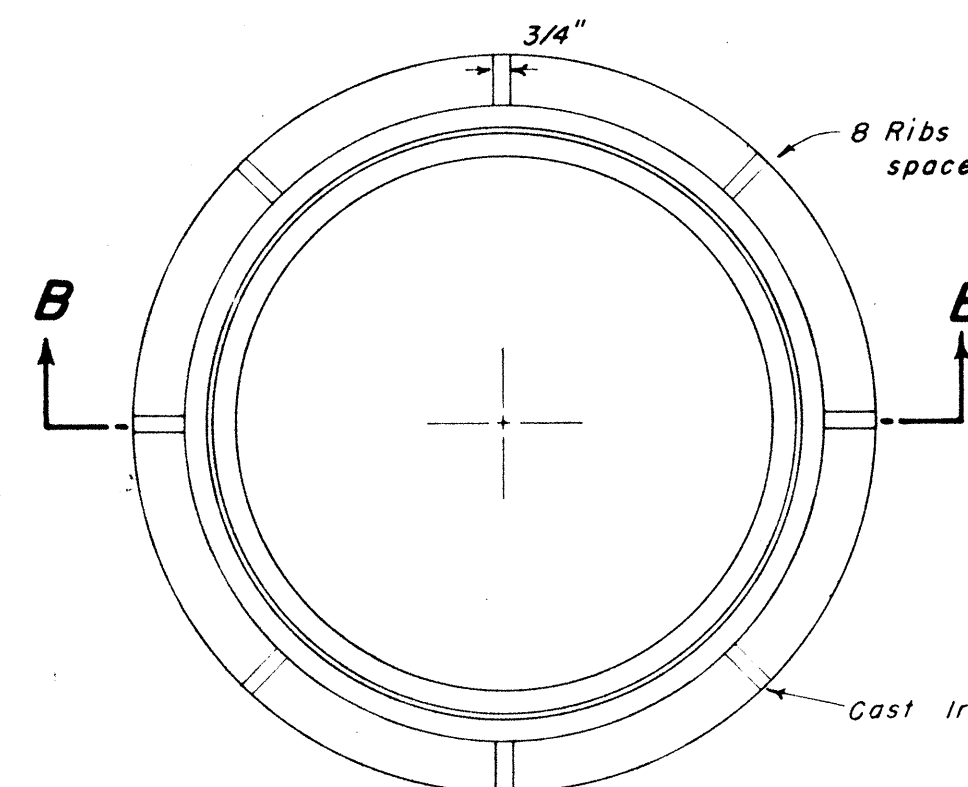


SECTION A - A



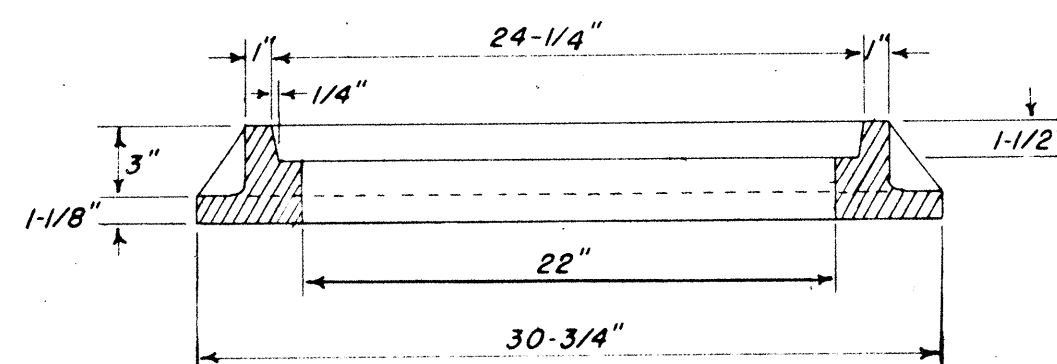
BOTTOM VIEW OF COVER

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



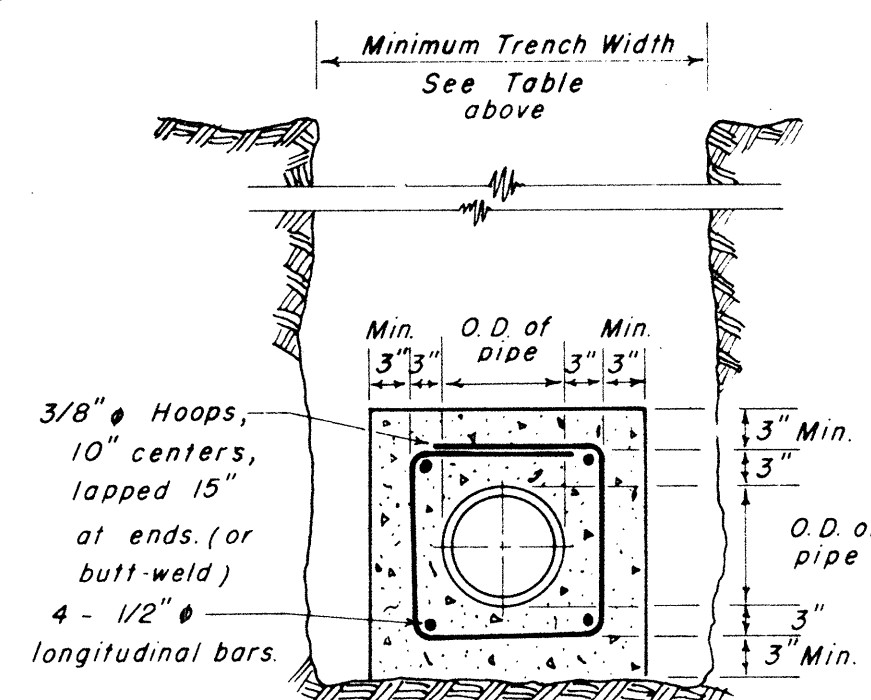
PLAN OF MANHOLE FRAME

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

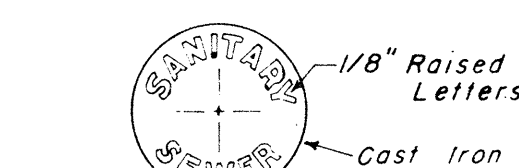


SECTION B - B

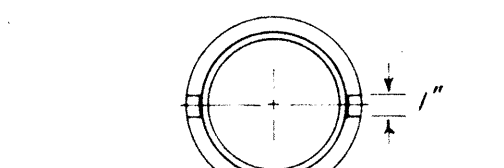
TRENCH WIDTHS	
Pipe Size	Min. Width
6"	24"
8"	24"
10"	24"
12"	30"
15"	30"
18"	36"
21"	36"
24"	45"
27"	45"
30"	50"



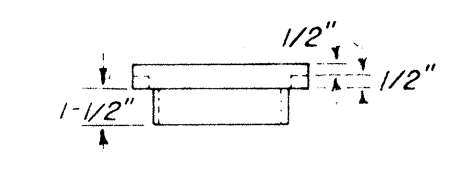
DETAIL OF CONCRETE JACKET



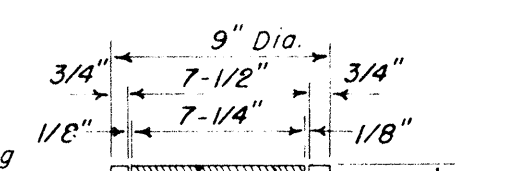
PLAN OF COVER



BOTTOM OF COVER



ELEVATION



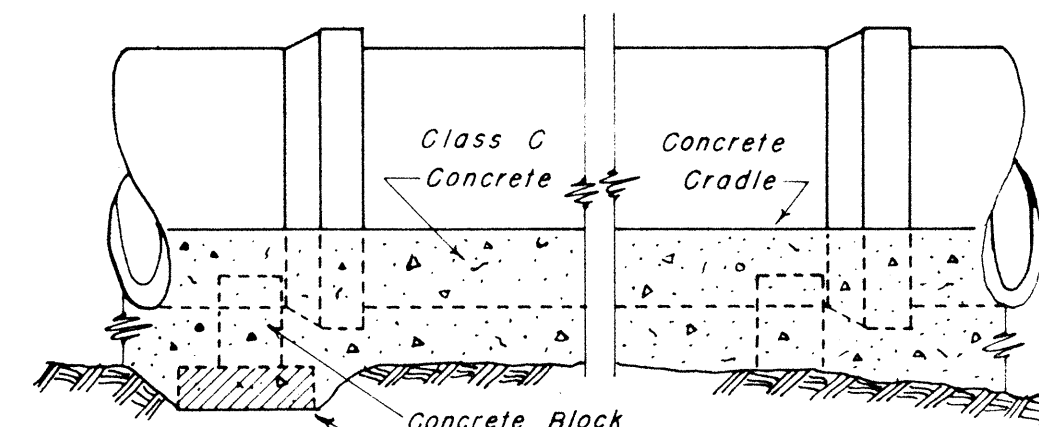
SECTION

DROP MANHOLE CHIMNEY CASTINGS

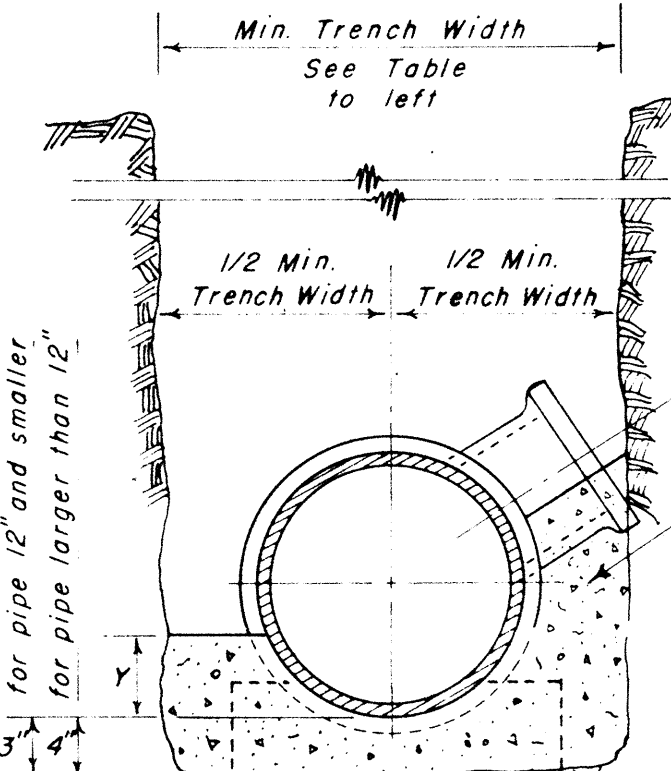
Scale 1-1/2" = 1'-0"

Contractor shall set Concrete Blocks on undisturbed ground. Where ground is too low, the Contractor shall not heap up dirt under the Concrete Block but shall use Concrete Bricks to take up the deficiency, scraping away beneath Concrete Block to give sufficient room for Brick.

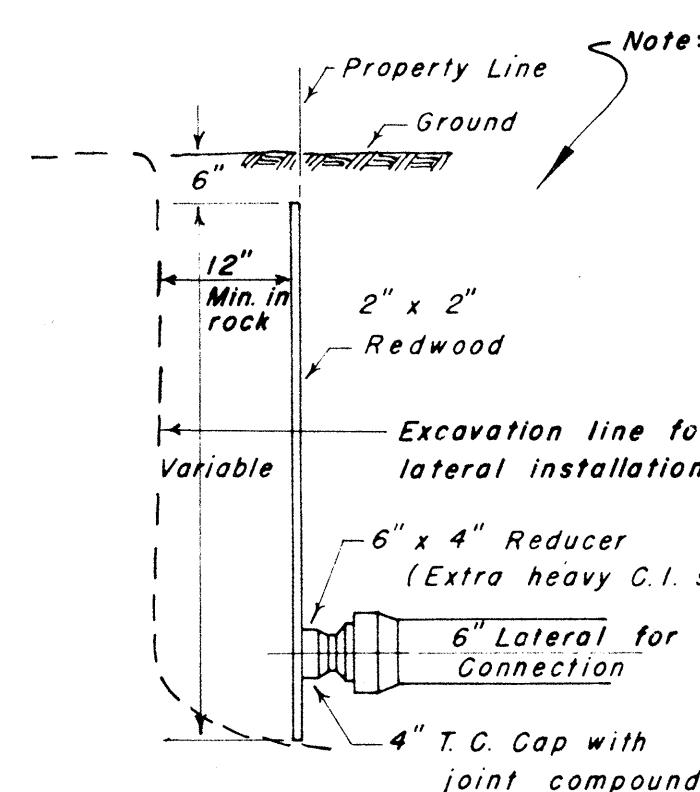
Note: Minimum width of cradle shall be minimum trench width.



ELEVATION SHOWING METHOD OF LAYING PIPE

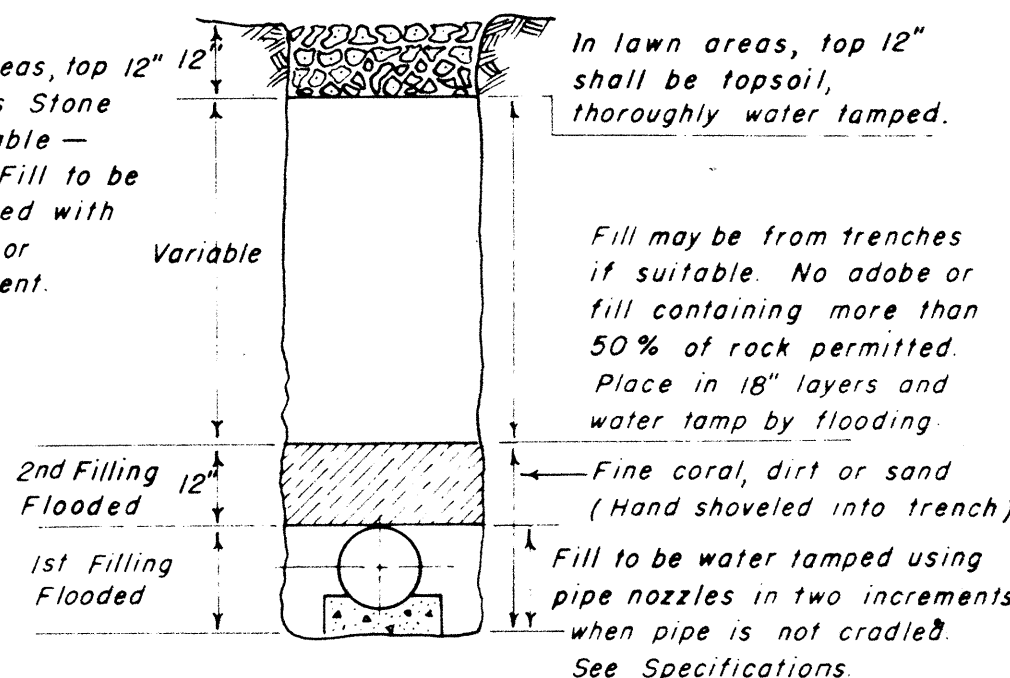


DIM. OF CONC. CRADLE	
Pipe Size	"Y"
6"	3"
8"	3"
10"	3"
12"	3"
15"	4"
18"	5"
21"	5"
24"	6"
27"	7"
30"	7"

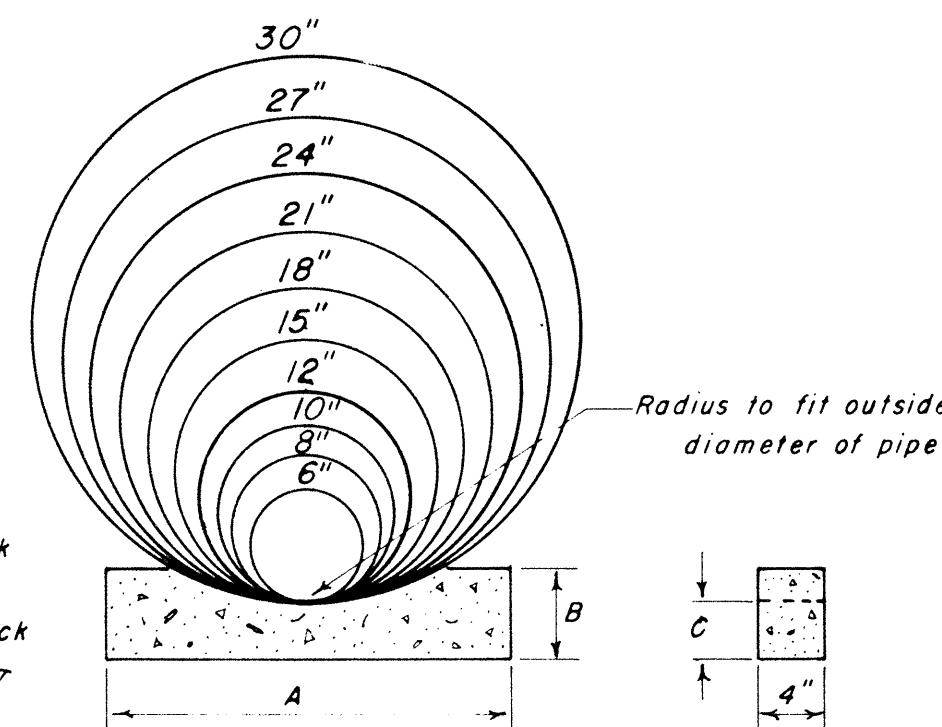


CONSTRUCTION AT PROPERTY LINE

Scale 1/2" = 1'-0"

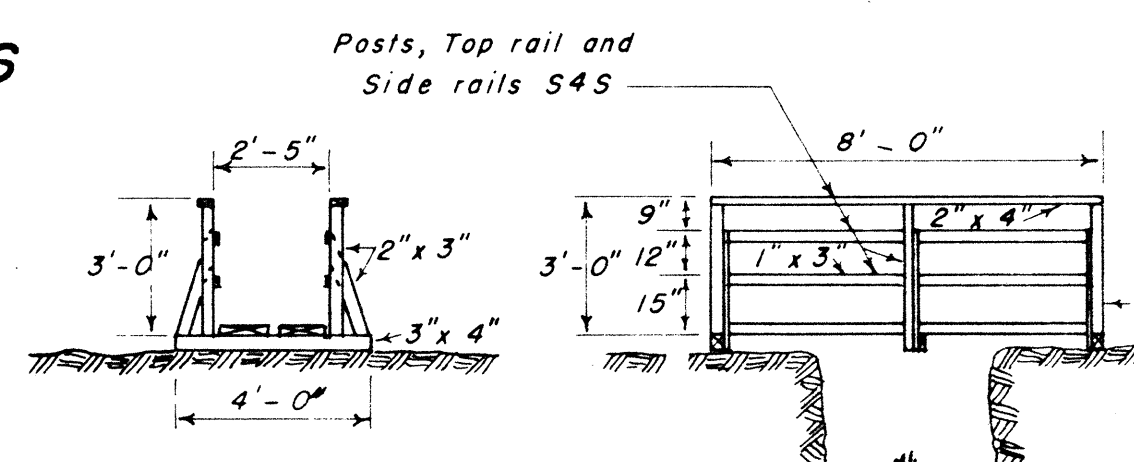


METHOD OF BACKFILL



DETAIL OF PRECAST CONCRETE BLOCKS

CONCRETE BLOCK DIMENSIONS			
Pipe Size	"A"	"B"	"C"
6"	1'-2"	6"	3"
8"	1'-5"	6"	3"
10"	1'-7"	6"	3"
12"	1'-7"	6"	3"
15"	1'-8"	6"	4"
18"	1'-9"	6"	4"
21"	1'-10"	6"	4"
24"	1'-11"	6"	4"
27"	2'-0"	6"	4"
30"	2'-3"	6"	4"

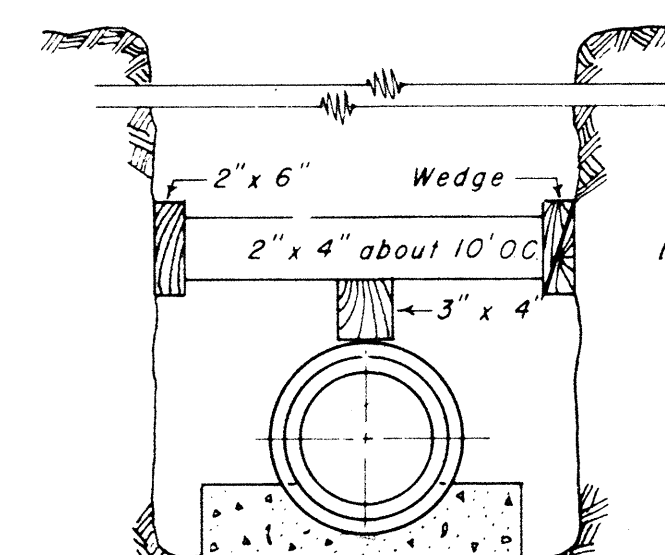


DETAILS CROSS WALKS OVER TRENCHES

Scale 1/4" = 1'-0"

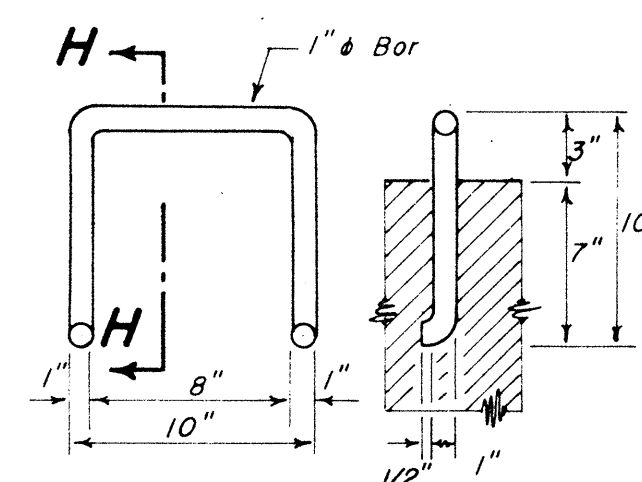
CHIMNEY DETAIL FOR CAST IRON SEWER LINE

Scale 1/2" = 1'-0"



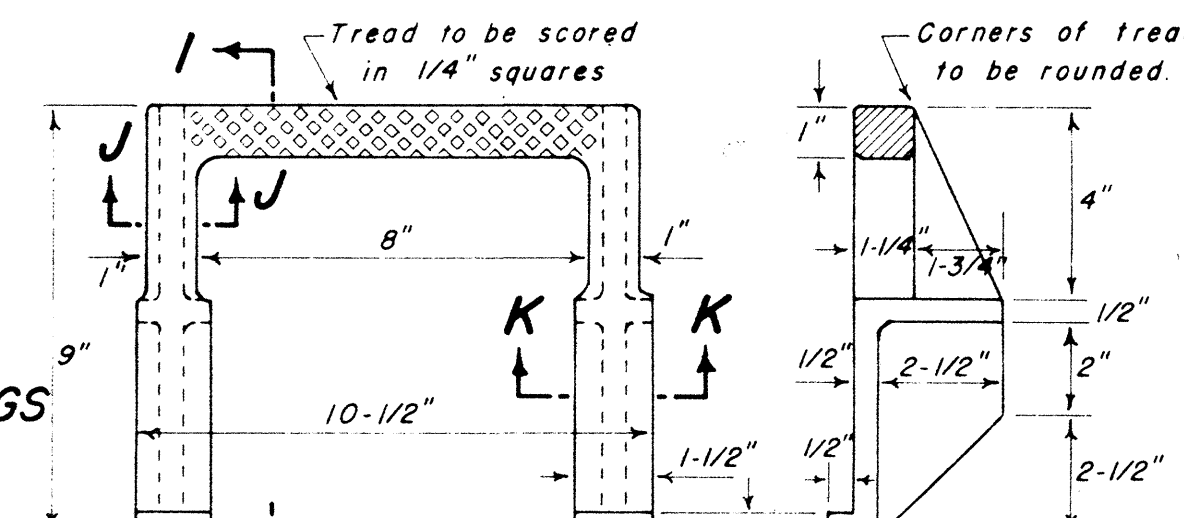
PIPE FLOATATION PREVENTION

Scale 1" = 1'-0"



PLAN SECTION H-H TYPE A RUNGS WROUGHT IRON M.H. STEPS

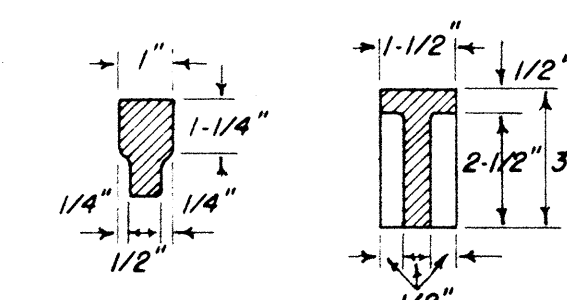
Scale 1-1/2" = 1'-0"



PLAN

TYPE B RUNGS

Scale 3" = 1'-0"



SECTION J-J CAST IRON M.H. STEPS

Scale 3" = 1'-0"

SECTION I - I

TYPE B RUNGS

Scale 3" = 1'-0"

SECTION K-K

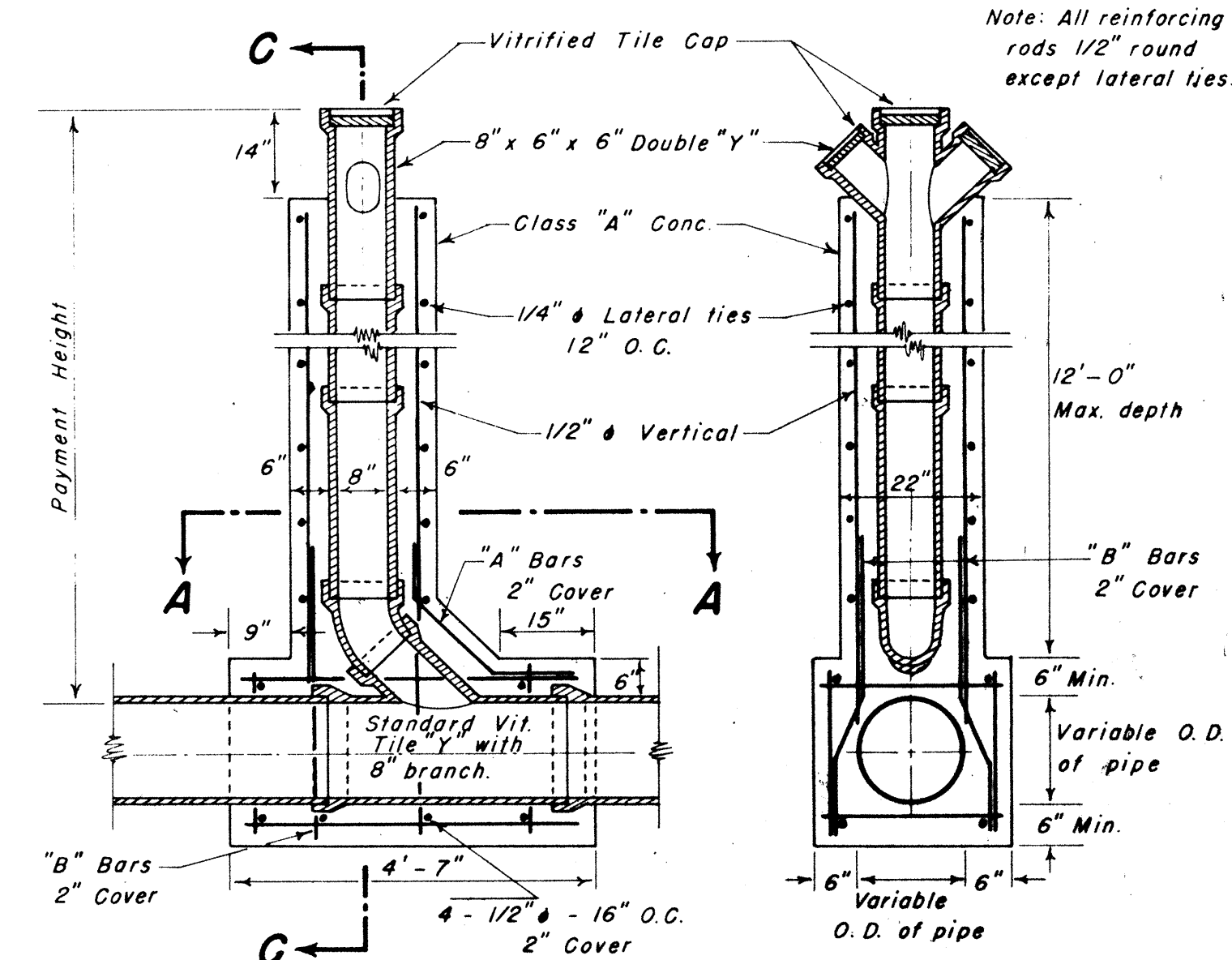
TYPE B RUNGS

Scale 3" = 1'-0"

METHOD OF INSTALLATION

Scale 3" = 1'-0"

10' Grade
No machine backfilling between these points. Backfill to be brought up evenly on each side of chimney by hand shoveling.

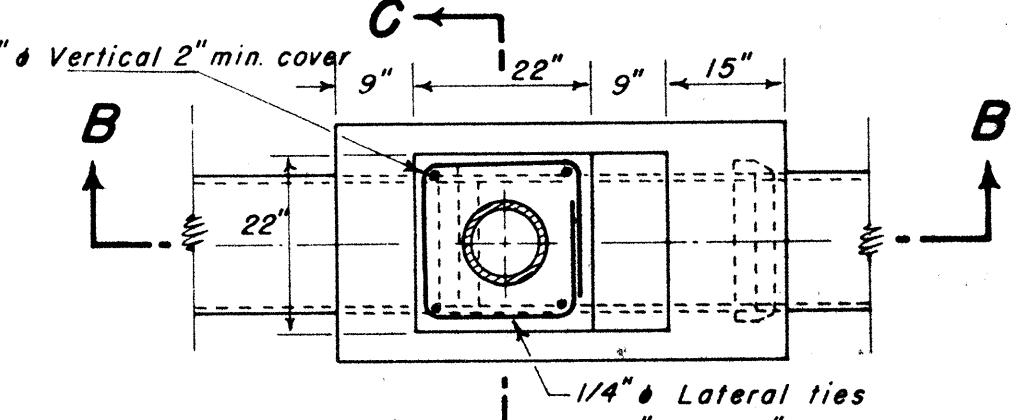


SECTION B - B

Scale 1/2" = 1'-0"

SECTION C - C

Scale 1/2" = 1'-0"



SECTION A - A

Scale 1/2" = 1'-0"

STEEL SCHEDULE			
Mark	Steel	Shape	Req.
"A"	1/2"	45°	2 Pcs.
"B"	1/2"	22-1/2°	4 Pcs.

CHIMNEY DETAILS

Note: Dimensions shown may be varied to accommodate specific brand of pipe furnished by Contractor.

Note: Contractor shall use such Standard Details shown above as are applicable to, and called for, on this project.

When lateral sewers are constructed from the trunk sewer to the property line, the grade of such lateral sewer shall be 1/4" per lineal foot unless otherwise ordered by the engineer.

NOTE: These details were prepared in the office of the Division of Sewers, City & County of Honolulu.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
DIVISION OF SEWERS
STANDARD DETAILS
MAUKA ARTERIAL
ALEXANDER ST. to ISENBERG ST.
PROJECT No. F 59 (4)
Scale: As Noted August 1952
SHEET No. 4 OF 4 SHEETS

5596.16