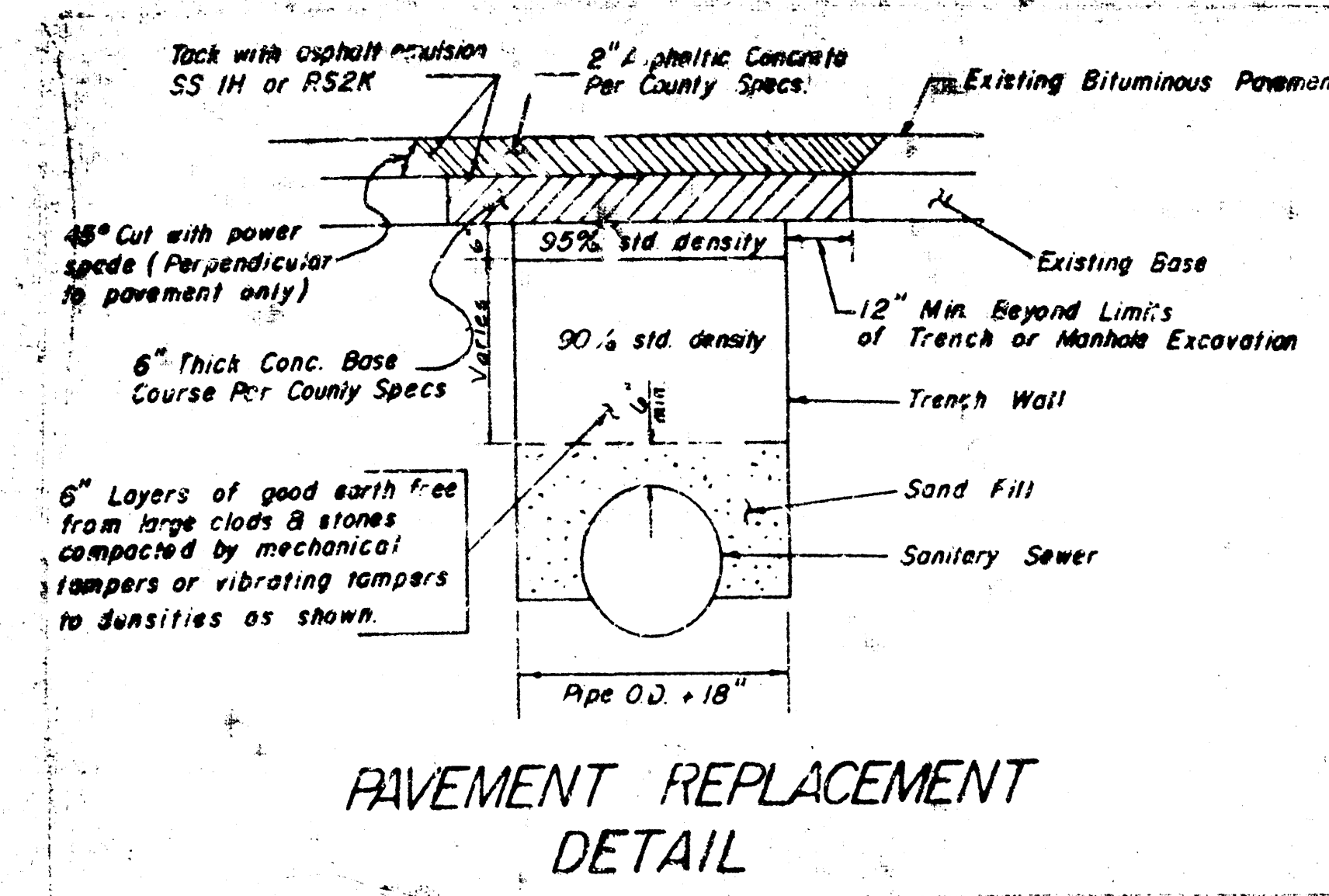
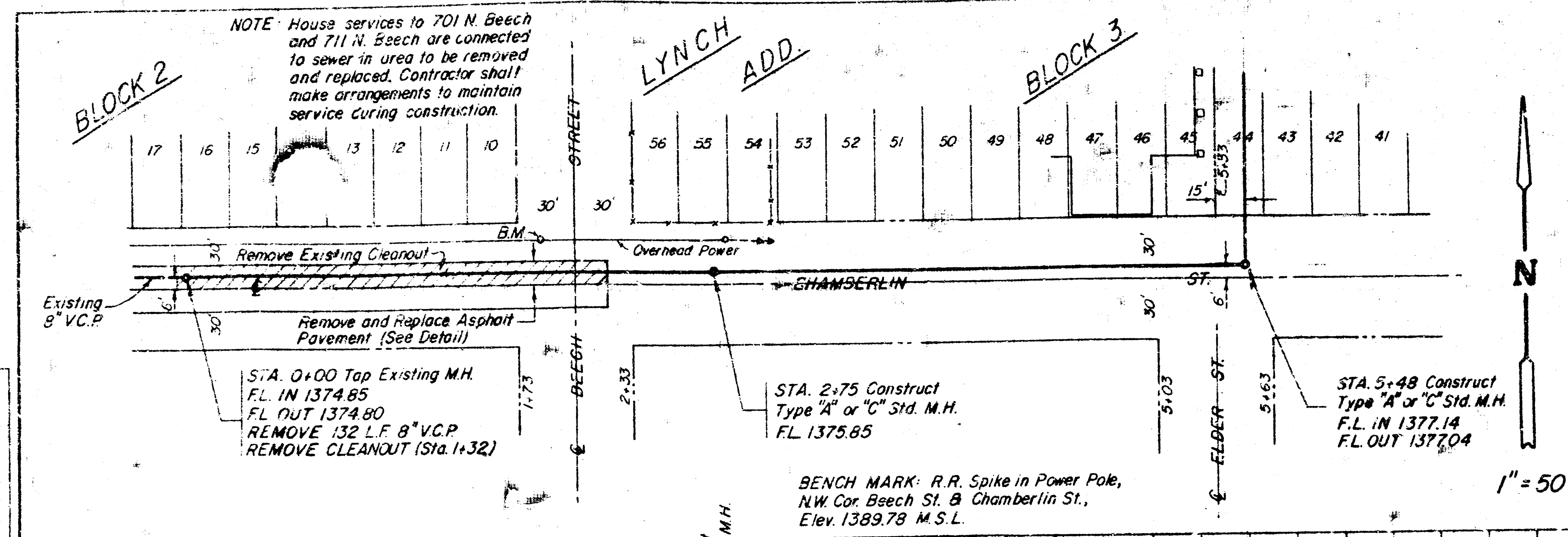




NOTE: All work to conform to City of Wichita Standard Specifications.

MARCH 1982

SANITARY SEWER EXTENSION

MINNEHA TOWNSHIP

Sedgwick County, Kansas

for

BEECH AIRCRAFT CORPORATION

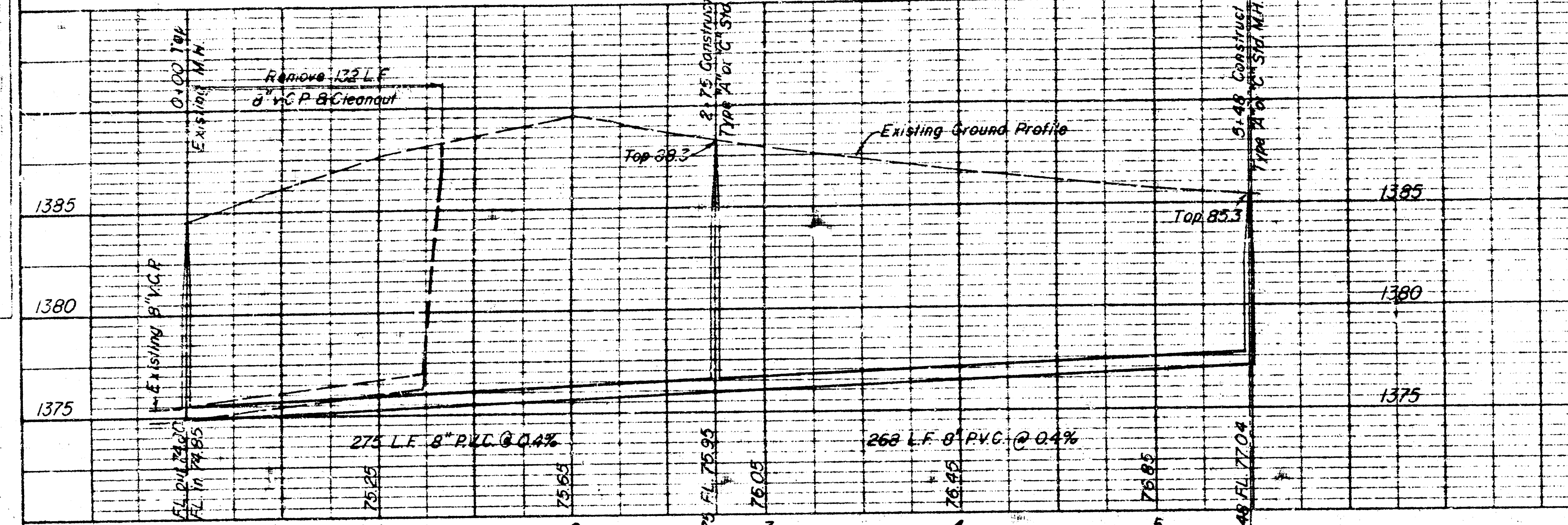
MOHRING & ASSOCIATES

CONSULTING ENGINEERS

WICHITA

82-017-P

SHEET 1 OF 3



SCALE

1" = 50' Horiz.

1" = 5' Vert.

APPROVED AS NOTED

MOHRING & ASSOCIATES

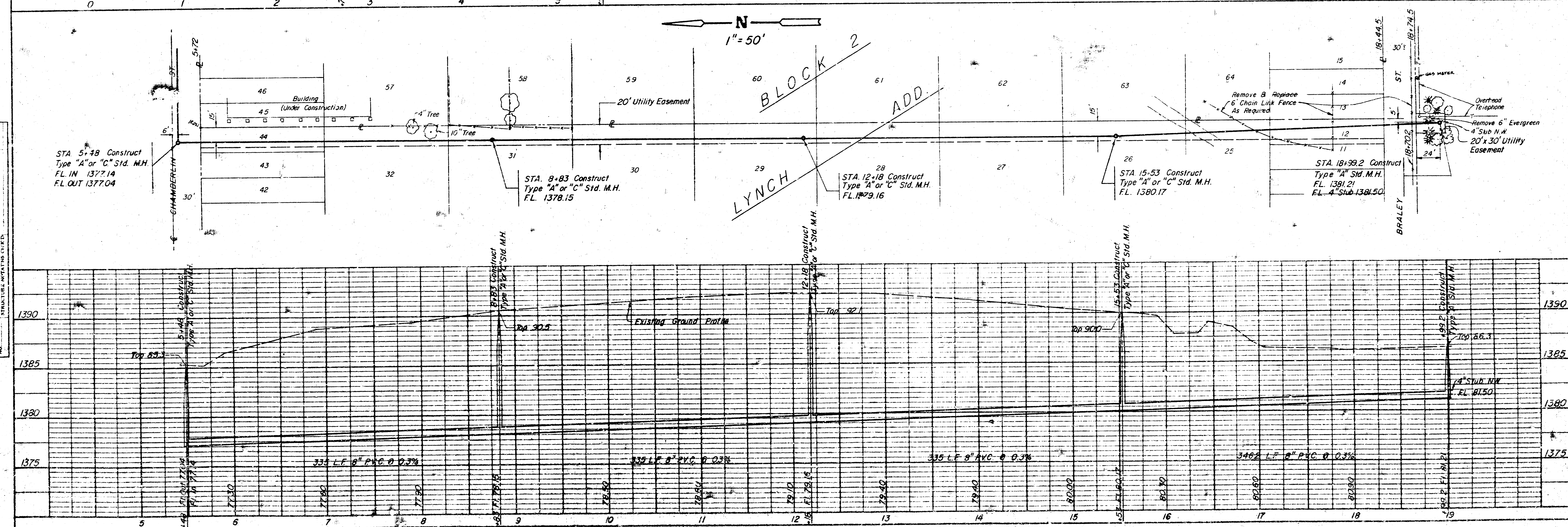
CONSULTING ENGINEERS

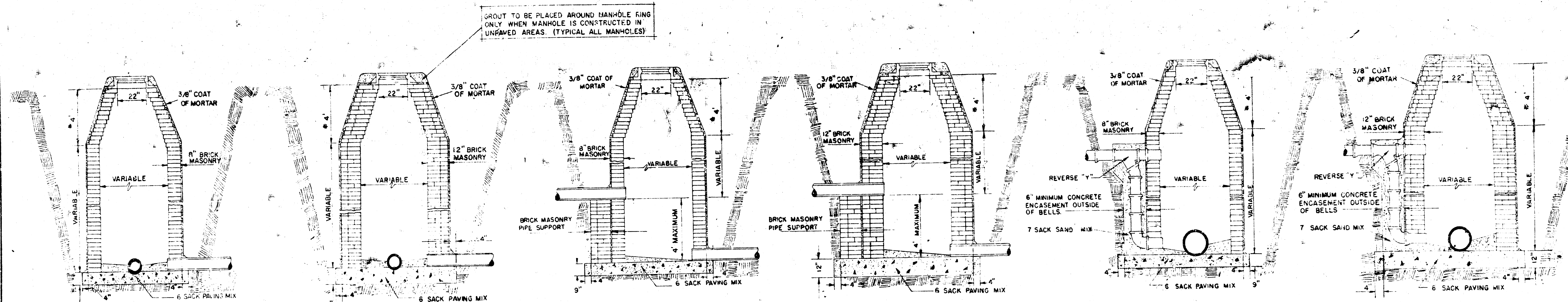
WICHITA

Sanitary Sewers

Storm Sewers

Driveway Approaches





STANDARD MANHOLE
TYPE "A"

STANDARD MANHOLE
TYPE "B"

DROP MANHOLE
TYPE "A"

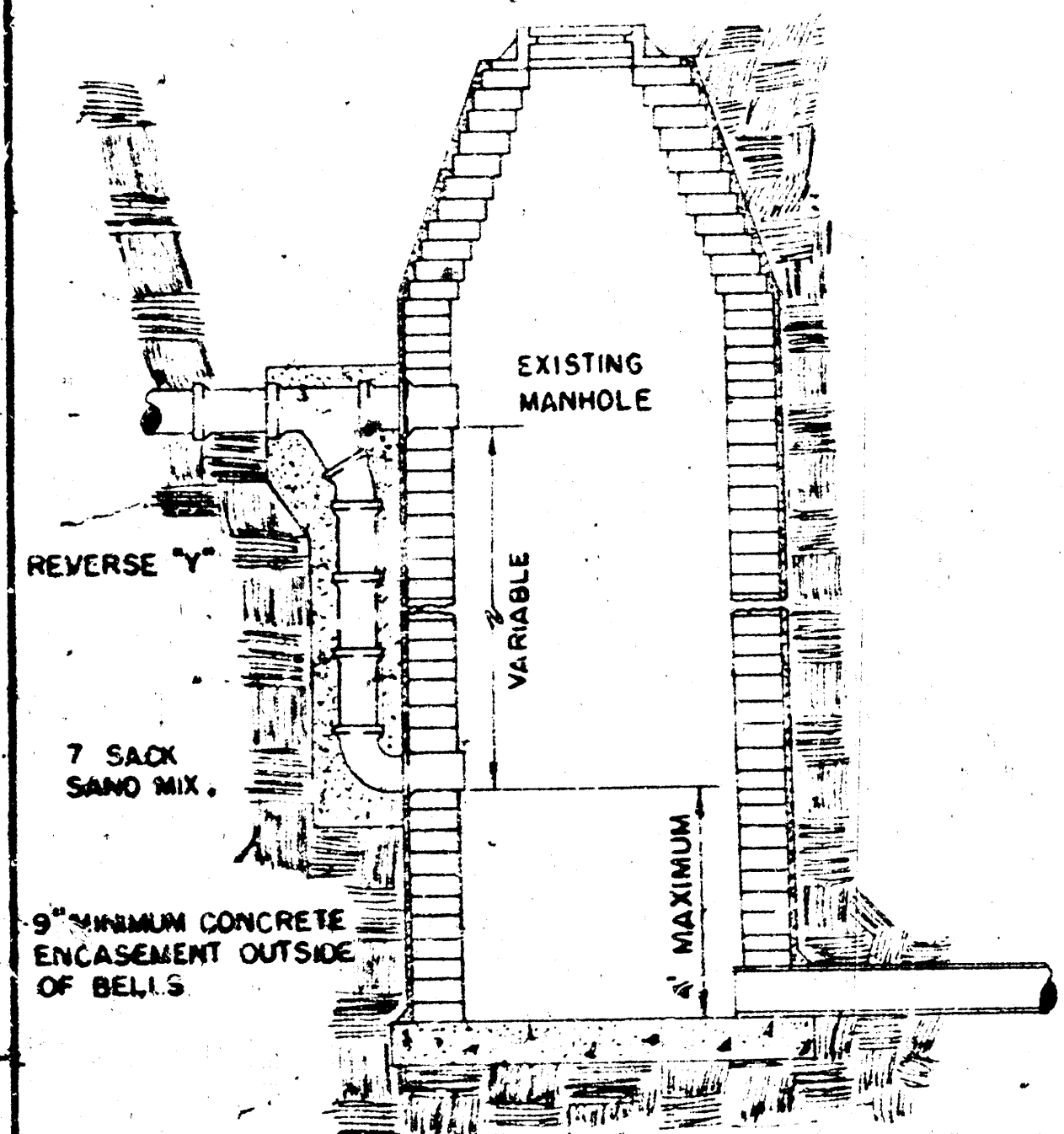
DROP MANHOLE
TYPE "B"

OUTSIDE DROP MANHOLE
TYPE "A"

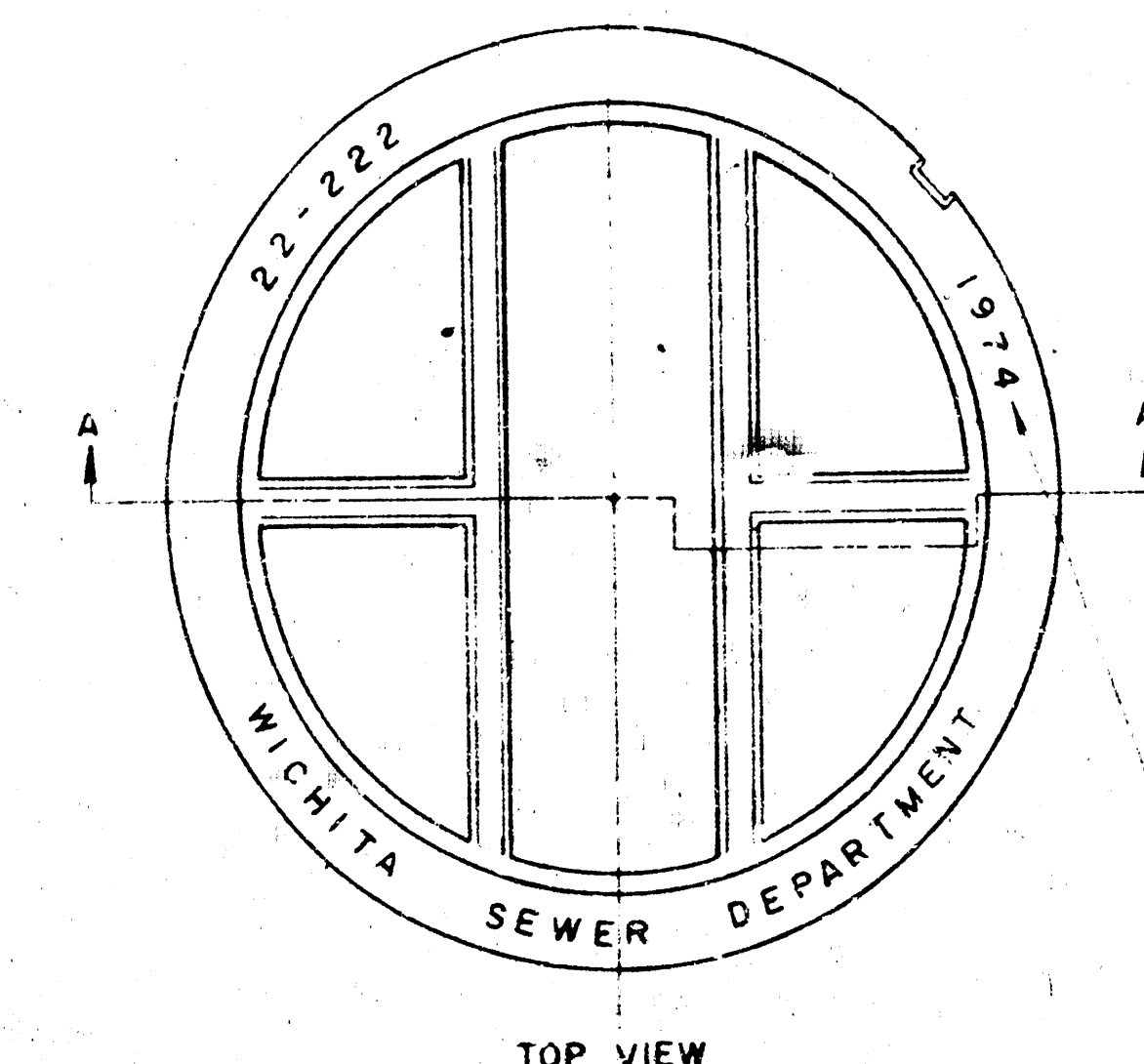
OUTSIDE DROP MANHOLE
TYPE "B"

* DRAW = 6' ON 5' DIA. M.H.

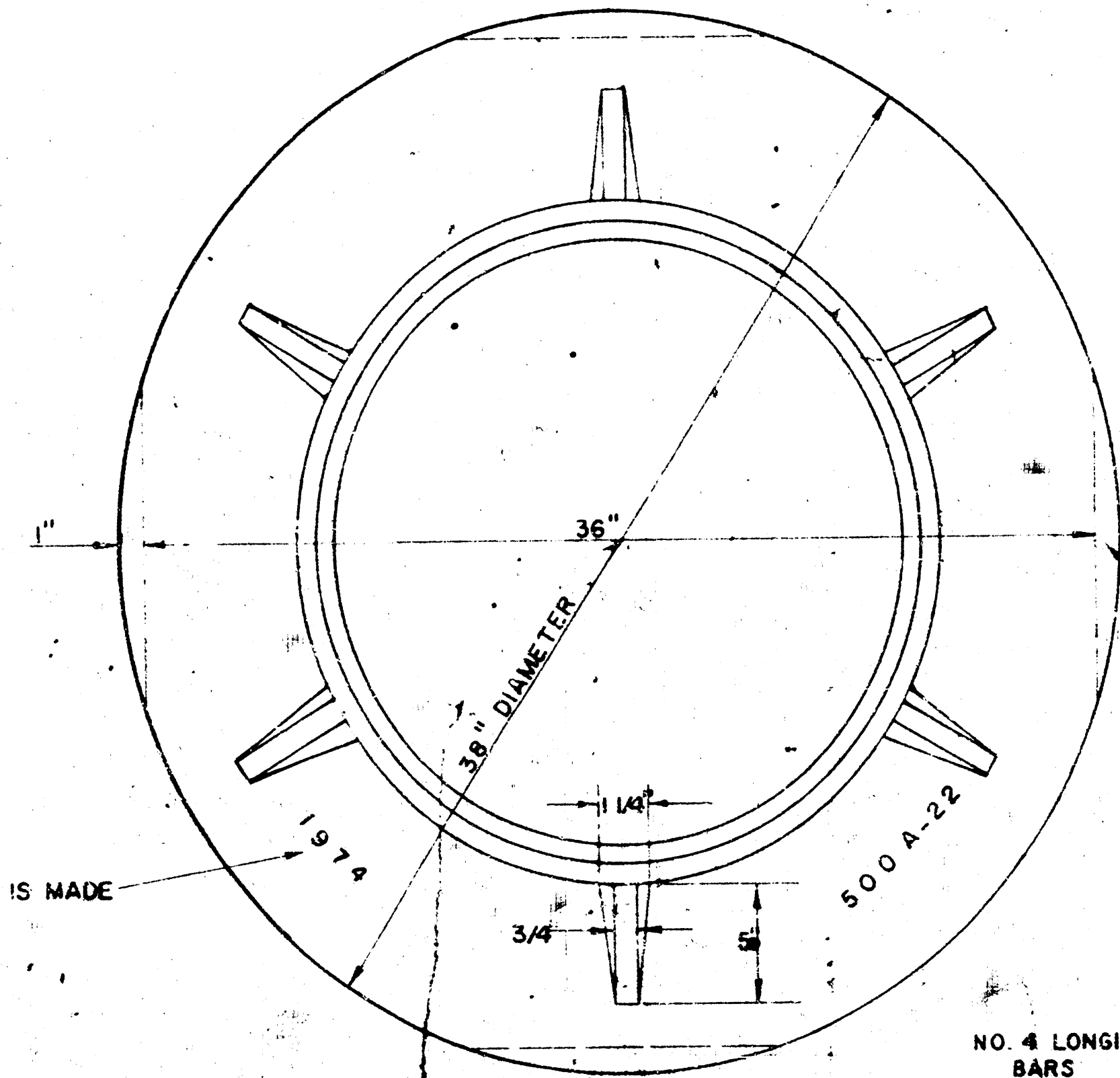
NOTE: REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.



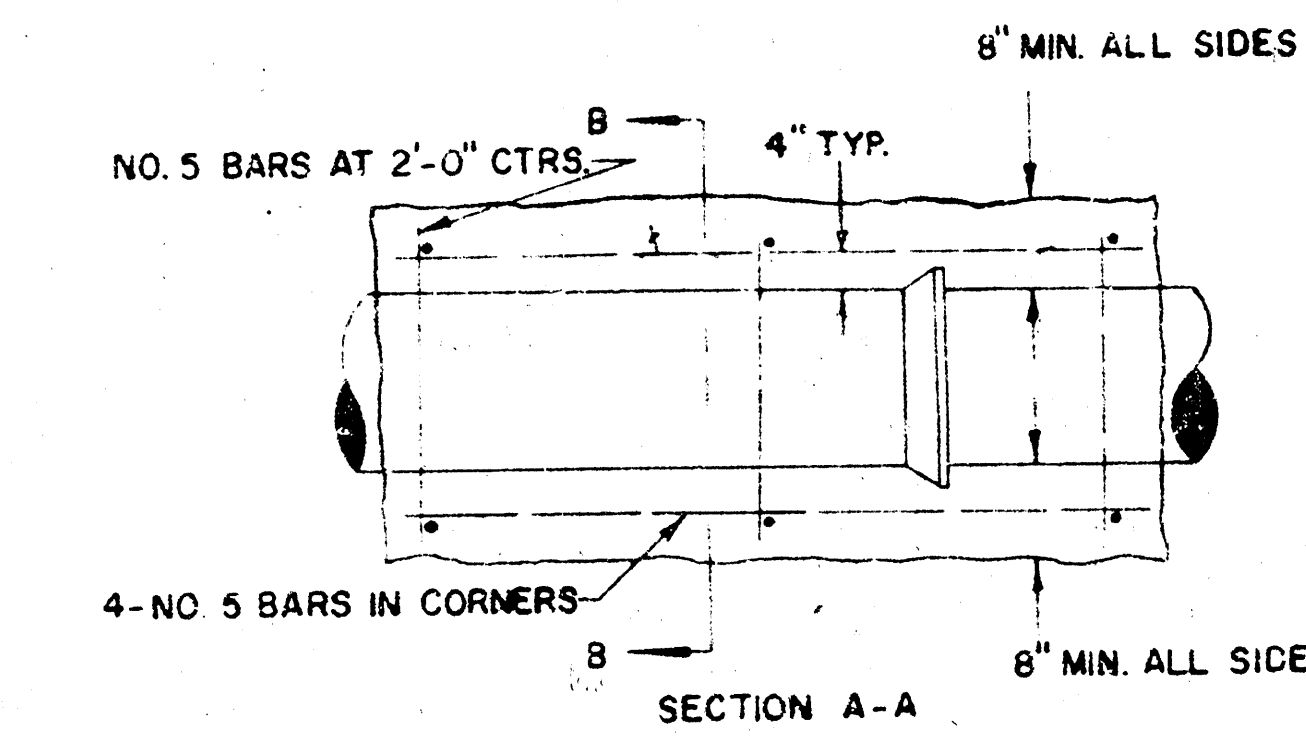
DETAIL OF DROP STACK
FOR EXISTING MANHOLES IN GROUND WATER



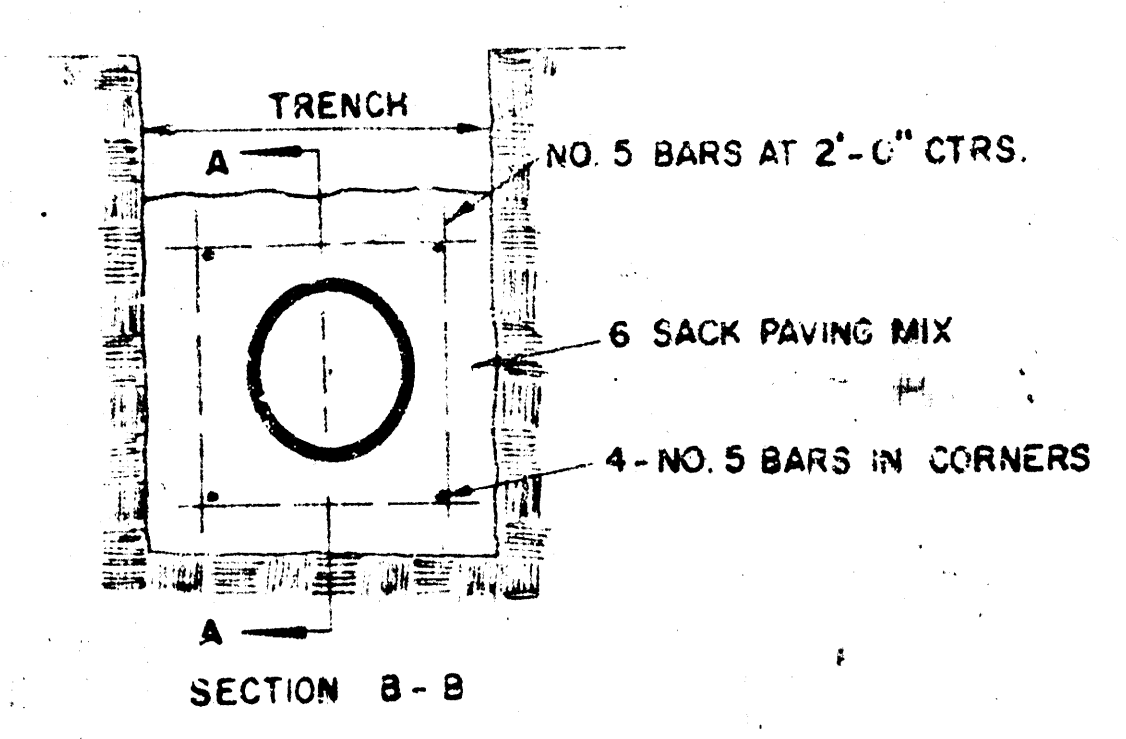
TOP VIEW
MANHOLE COVER
WEIGHT 110 LBS.



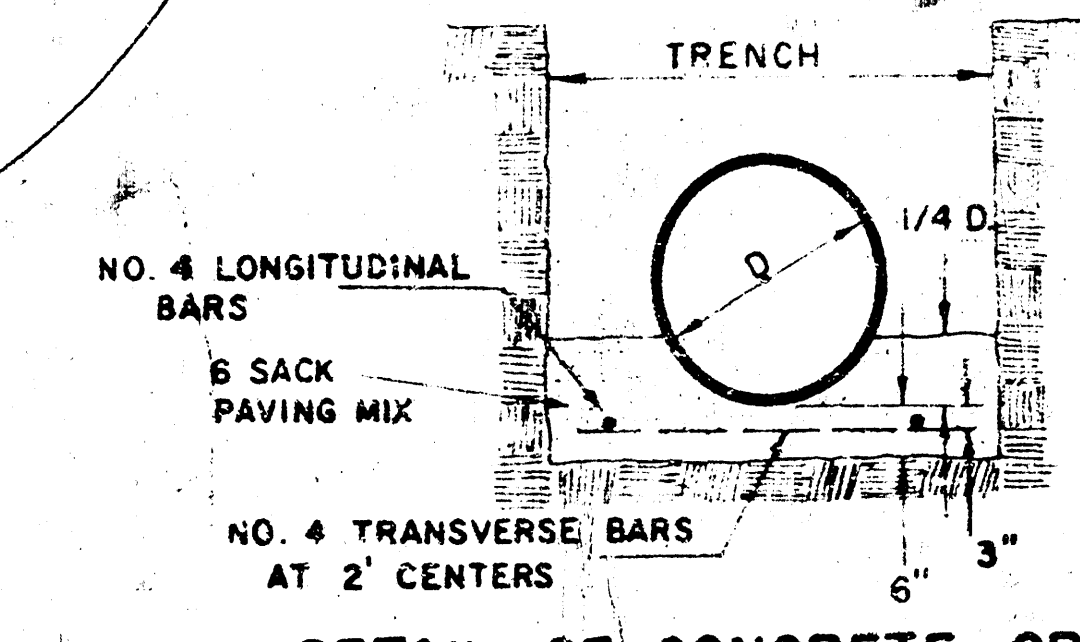
TOP VIEW
MANHOLE RING
WEIGHT 325 LBS. RING NO. 500A
WEIGHT 800 LBS. RING NO. 500AS



SECTION A-A
REINFORCED CONCRETE ENCASEMENT



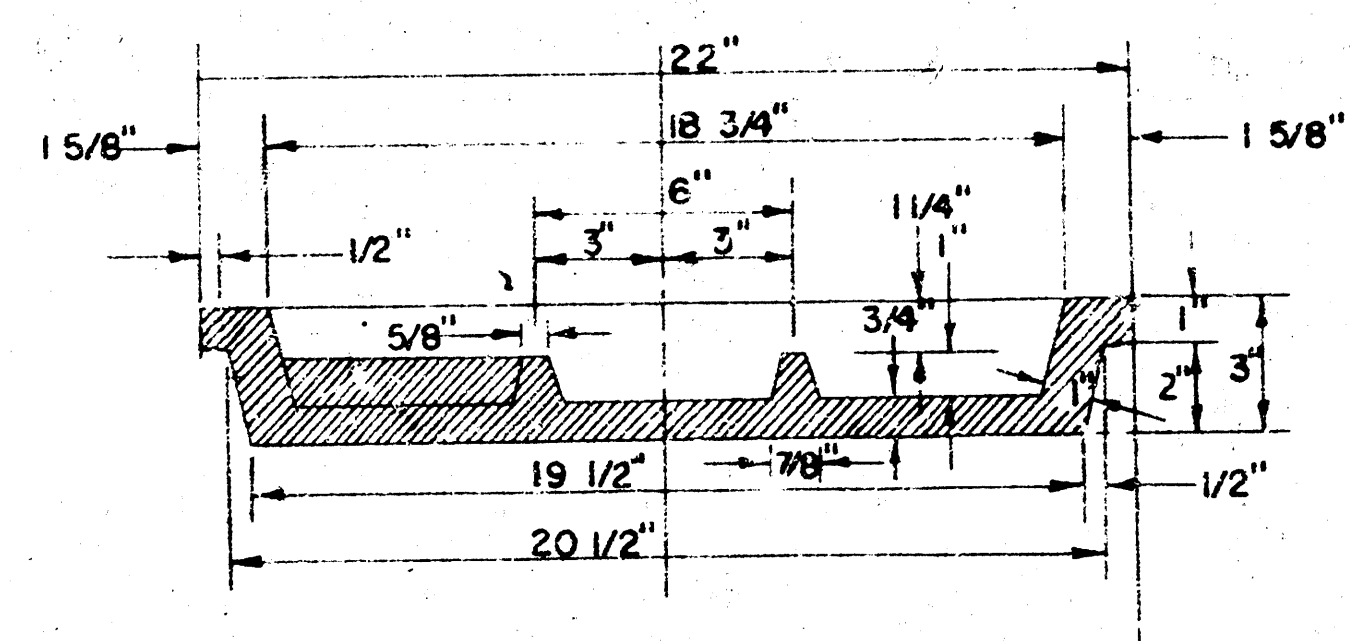
NOTE: CONCRETE ENCASEMENT AND CONCRETE CRADLE SHALL BEGIN AND END AT A JOINT WHEN CLAY PIPE IS USED.



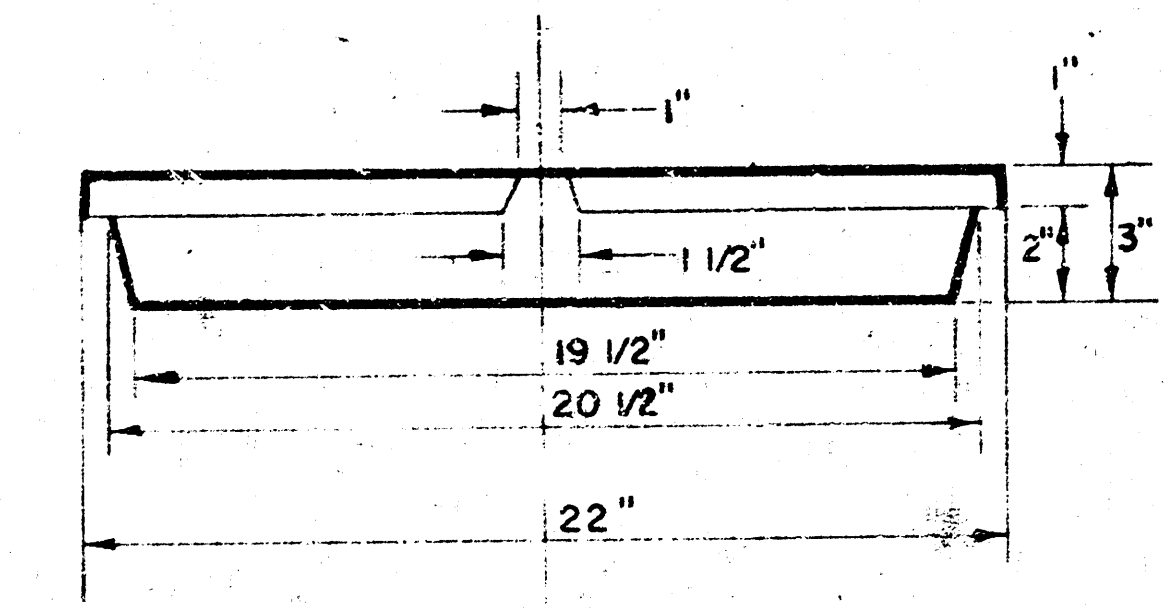
DETAIL OF CONCRETE CRADLE

GENERAL NOTES

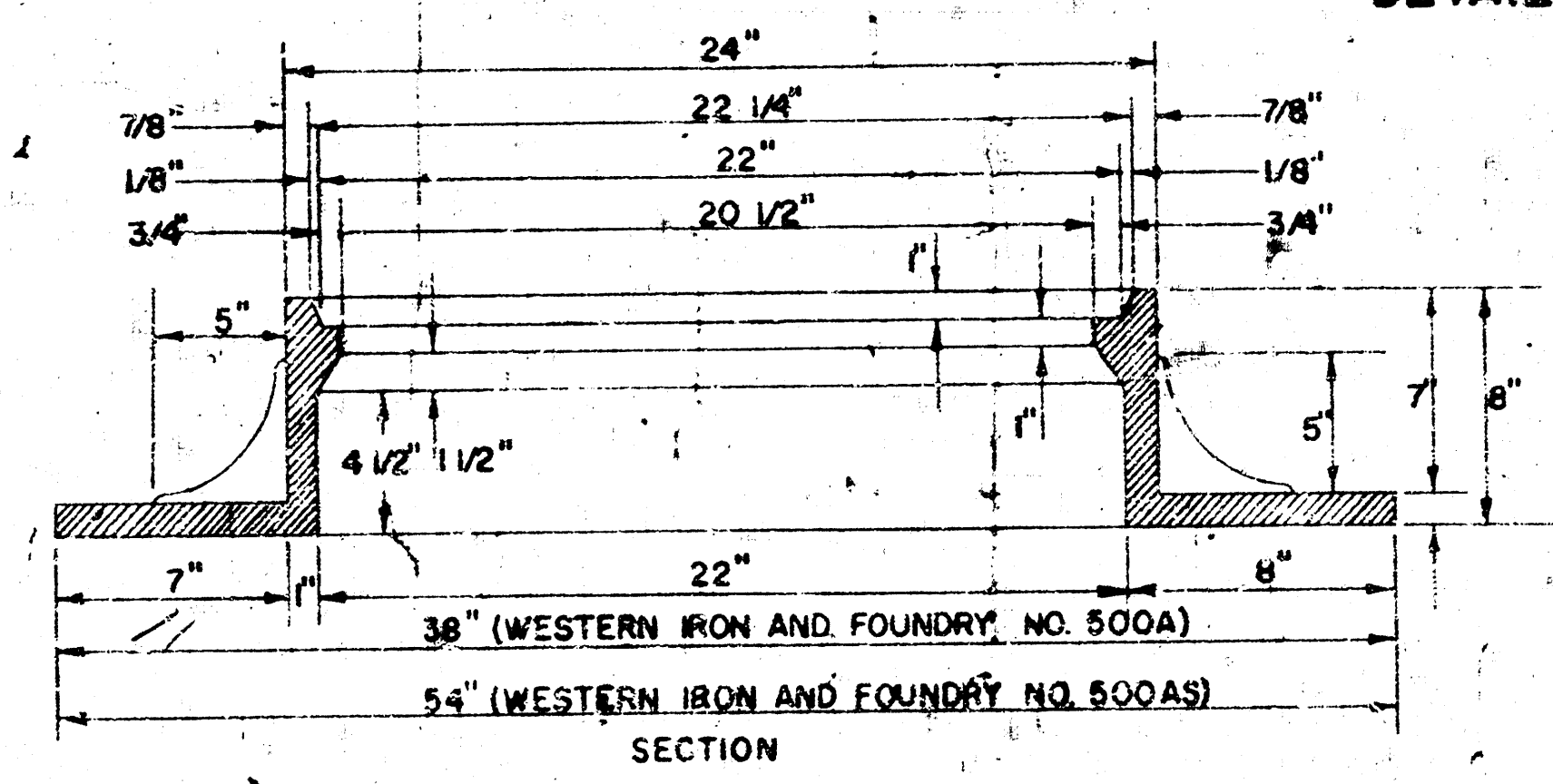
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.
- STANDARD MANHOLES TYPE "A" OR TYPE "B" AND STANDARD DROP MANHOLES TYPE "A" OR TYPE "B" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED.
- OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
- MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5' DIAMETER.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.
- PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE. CRADLE SHALL EXTEND TO FIRST JOINT OUTSIDE OF MANHOLE WHEN CLAY PIPE IS USED.



SECTION A-A
MANHOLE COVER

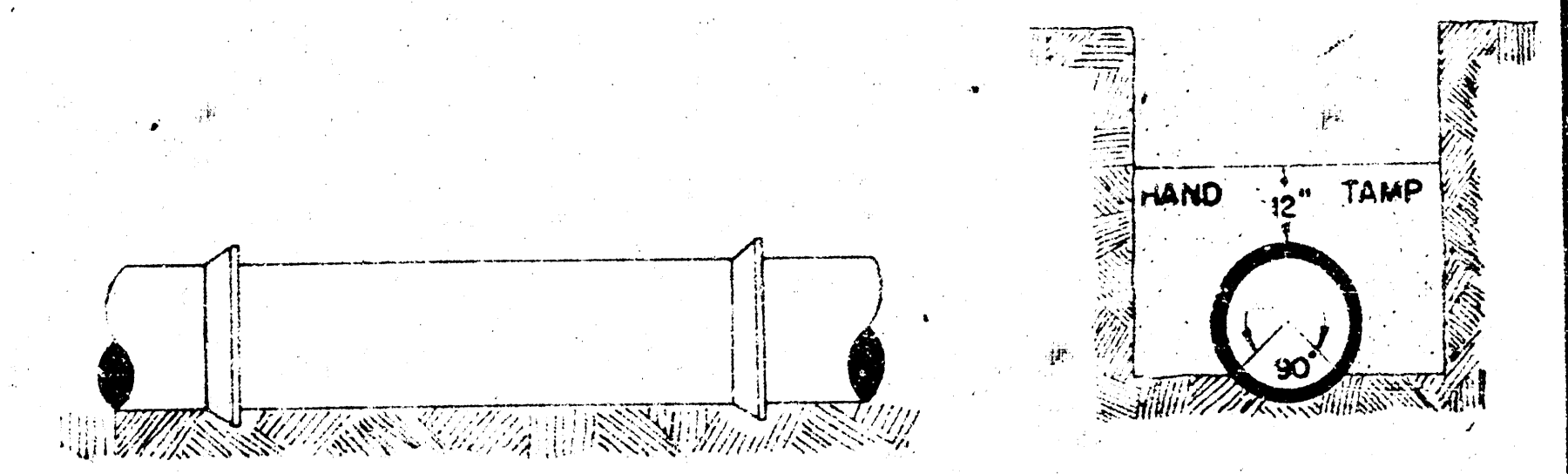


SIDE VIEW
MANHOLE COVER



SECTION
MANHOLE RING

OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT.



ORDINARY BEDDING METHOD
STORM SEWER PIPE

REVISED 4-13-77
DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS

Technical drawing of a manhole structure, showing elevation and plan views with construction details.

Elevation View (Top):

- Labels: SEE GEN. NOTES, 8" BRICK MASONRY, 1" COAT OF MORTAR, MANHOLE WALL, 6-SACK PAVING MIX.
- Dimensions: 26" (width of the top opening).
- Vertical dimension: 8" (height of the top section).
- Vertical dimension: 8" (height of the lower section).
- Vertical dimension: 8" (height of the base section).

Plan View (Bottom):

- Labels: SEE GEN. NOTES, MANHOLE BASE, 6-SACK PAVING MIX.
- Dimensions: 4" MIN., 4" MIN., 8" (width of the base).

Notes:

- NOTE: CROWN OF PIPE FLOWING IN SHALL NOT BE LOWER THAN CROWN OF PIPE FLOWING OUT.
- FLOOR SHAPING SLOPE 3'-1"

SEE GEN. NOTES
 8" BRICK MASONRY
 1" COAT OF MORTAR
 MANHOLE WALL
 6" SACK PAVING MIX
 TO LIMIT OF EXCAV.
 SEE GEN. NOTES
 26"
 8"
 FLOOR SHAPING
 MANHOLE BASE
 6" SACK PAVING MIX
 SEE GEN. NOTES
 4" MIN.
 6" MIN.
 NOTE: BOTTOM OF FLOW CHANNEL SHALL BE 0.1' ABOVE FLOW OF OUTFLOWING PIPE AT CENTER

SEE DET NOTES

8" BRICK MASONRY

COAT OF MORTAR

24"

SEE DET NOTES

8"

MANHOLE BASE

8" SACK PAVING MIX

8" SACK SAND M.S.

6" MIN. CONCRETE

"ENCASEMENT" OUTSIDE OF

"LBS. OR TO THE LIMIT

OF EXCAVATION WHEN

MORE THAN 6"

MANHOLE WALL

8" SACK PAVING MIX

NOTE: MANHOLE BOTTOM SHALL

OUTSIDE AND SHALL ALWAYS BE

SET 0.5 FT HIGHER THAN 4"

OF PAV. AROUND F.M.A. FOR

THE MANHOLE

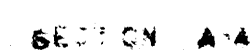
FLIGHT SHAPING

SLOPE 3" TO 1"

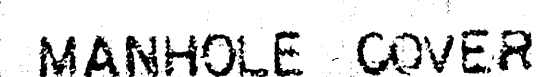
SEE DET NOTES

4" MIN

4" MIN

[illegible]

MANHOLE COVER



REVISÉD 4-4-80

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS

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Sheet 3 of 3

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AVAILABLE COPY.....