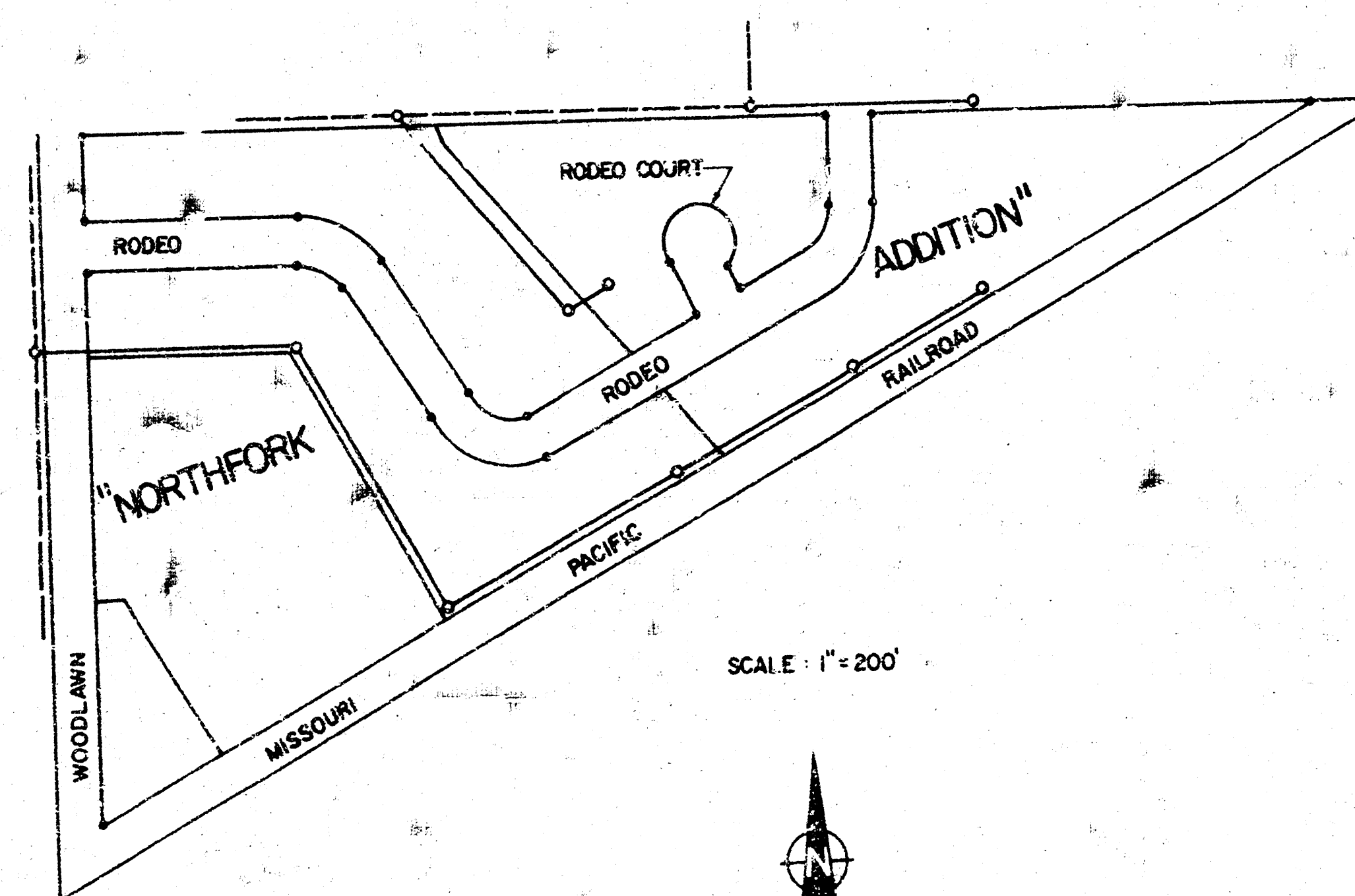


PLANS  
FOR  
**SANITARY SEWER EXTENSIONS**  
**NORTHFORK ADDITION**  
**CITY OF BEL AIRE**

1982  
MS 282



**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 will prepay the City of Wichita for all costs of inspection.

6-25-82

**APPROVED AS NOTED**  
By CITY ENGINEER OF WICHITA  
Sanitary Sewers *P.C.D.*  
Storm Sewers \_\_\_\_\_  
Driveway Approaches \_\_\_\_\_



**REISS & GOODNESS ENGINEERS**  
2100 WEST 21<sup>ST</sup> STREET  
WICHITA, KANSAS 67204  
(316) 242-0213

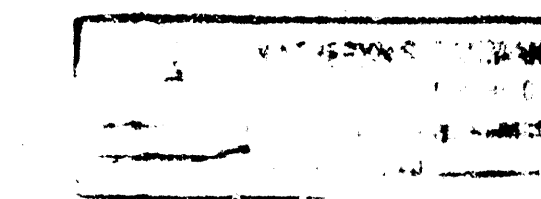
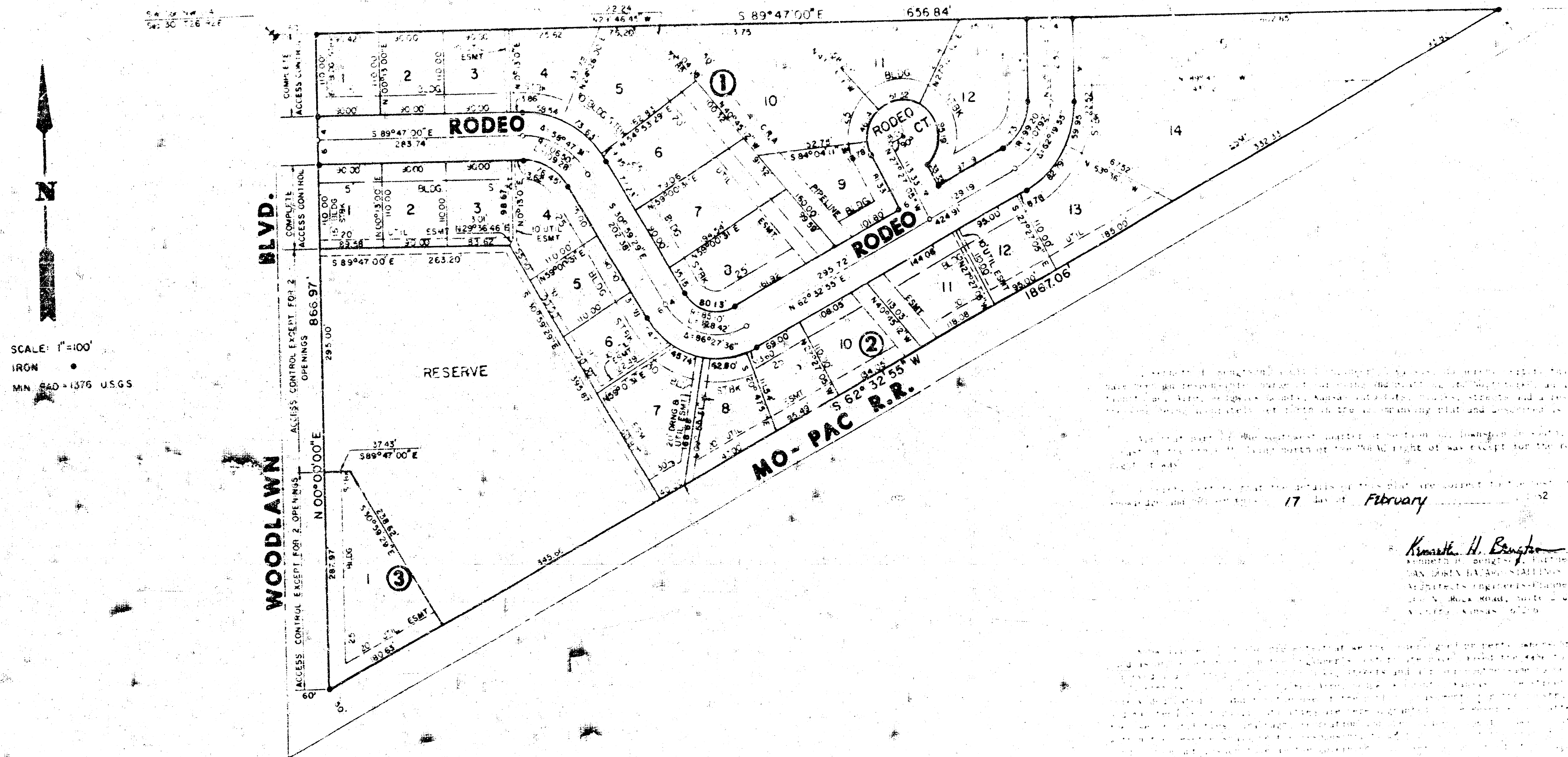
SCALE: NOTED  
DATE: 4-5-82  
PROJECT NO.:  
SHEET 1 OF 5

|             |            |          |         |          |
|-------------|------------|----------|---------|----------|
| DESIGNED BY | CHECKED BY | DRAWN BY | REVISED | CUSTOMER |
|             |            |          |         |          |



# FINAL PLAT OF NORTHFORK

AN ADDITION TO BEL AIRE, SEDGWICK COUNTY KANSAS



Kathryn H. Bauman  
KATHRYN H. BAUMAN

David H. Brasted  
DAVID H. BRASTED

DAVID H. BRASTED  
EXECUTIVE VICE PRESIDENT

Constance Price  
CONSTANCE PRICE

12/15/82

17 FEBRUARY 1982

Edmund Peters  
EDMUND PETERS

Pat Norman  
PAT NORMAN

Joe Reed Thomas  
JOE REED THOMAS

March 1982

Jack Sorott  
JACK SOROTT

Tom Scott  
TOM SCOTT

Donald E. Grogg  
DONALD E. GROGG

Donnelly K. White  
DONNELLY K. WHITE

Michael T. Sawyer  
MICHAEL T. SAWYER

Donnelly K. White  
DONNELLY K. WHITE

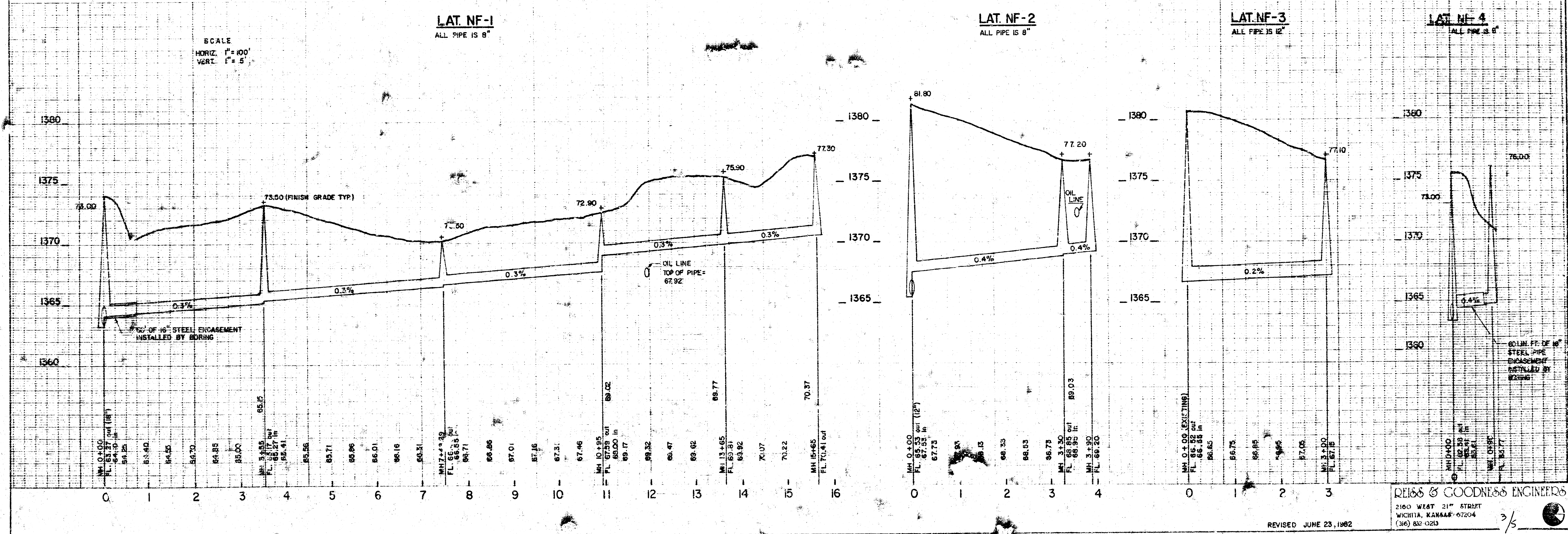
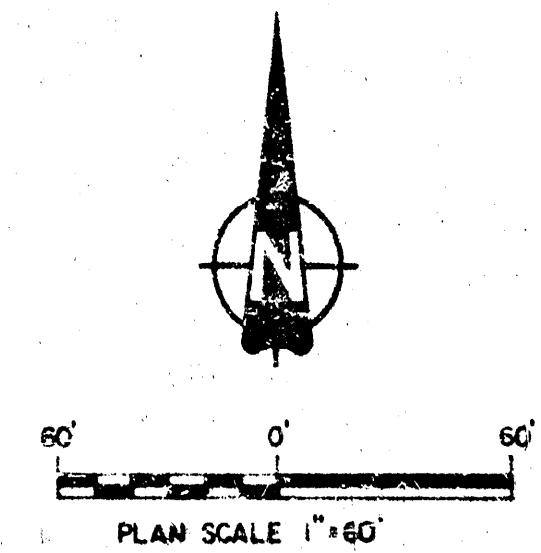
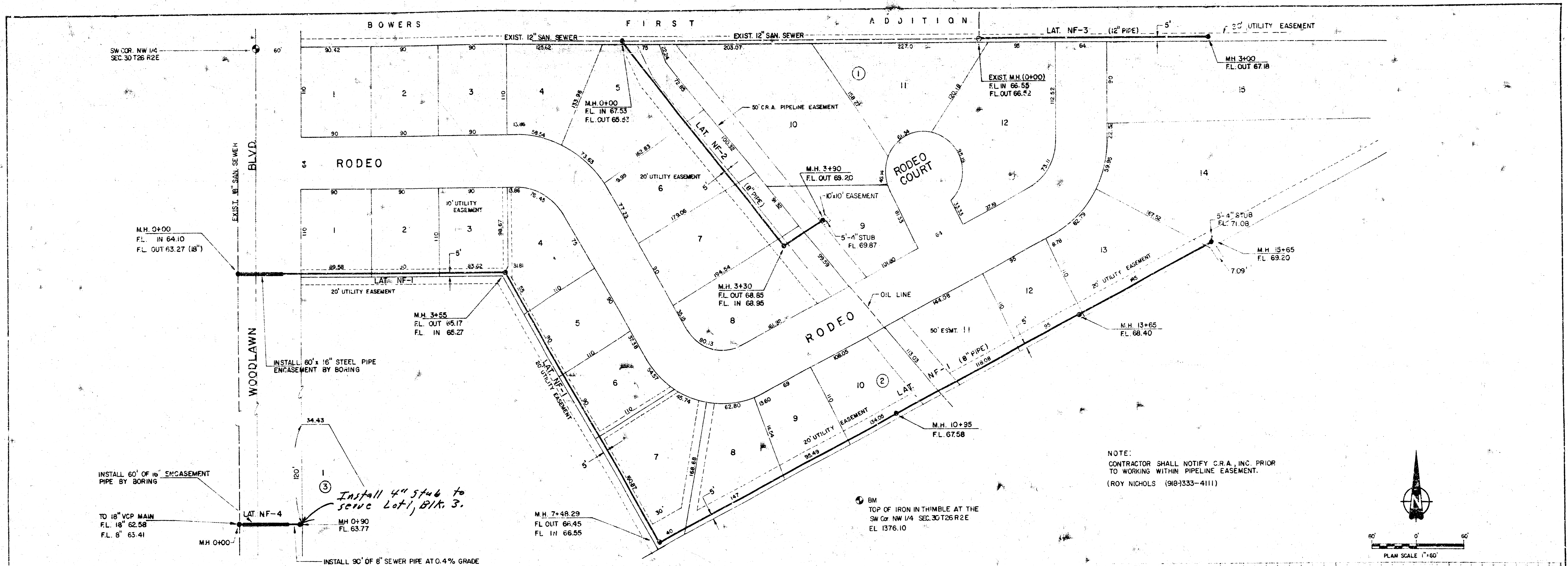
Michael T. Sawyer  
MICHAEL T. SAWYER

March 1982

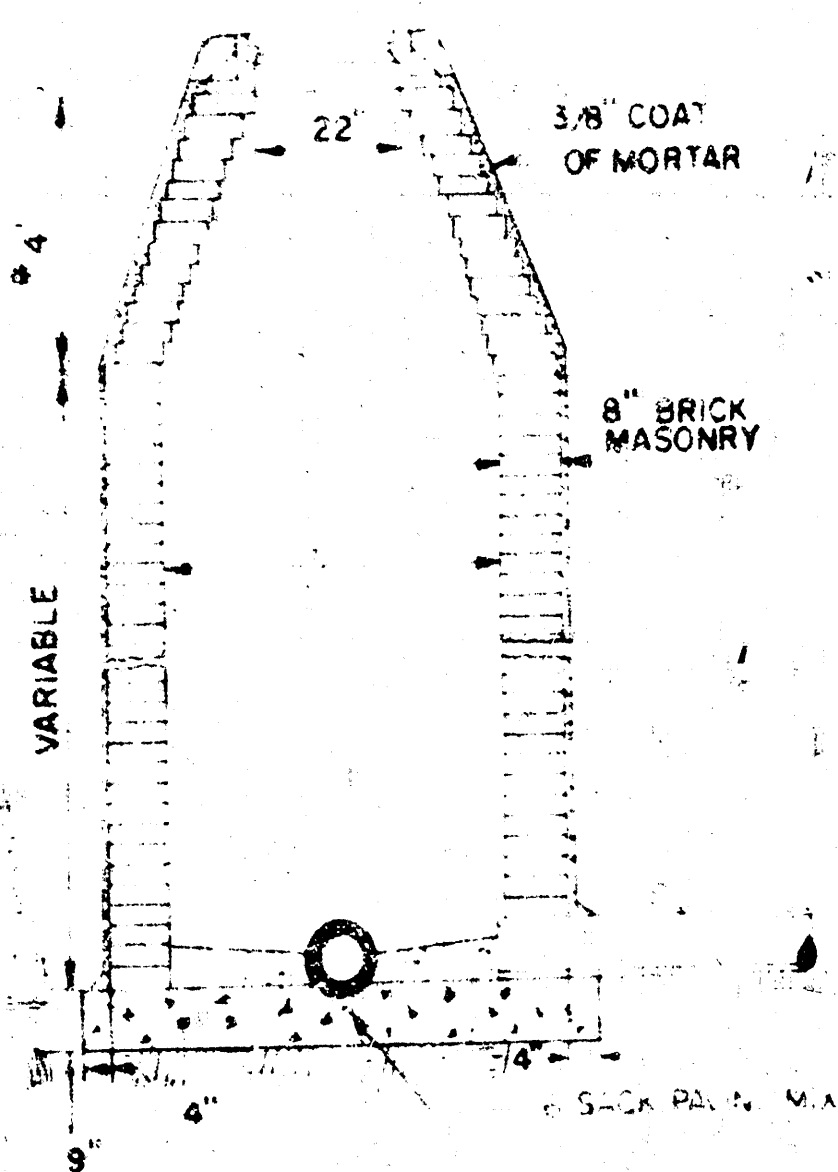
2:00 PM

Pat Keeler  
PAT KEELER



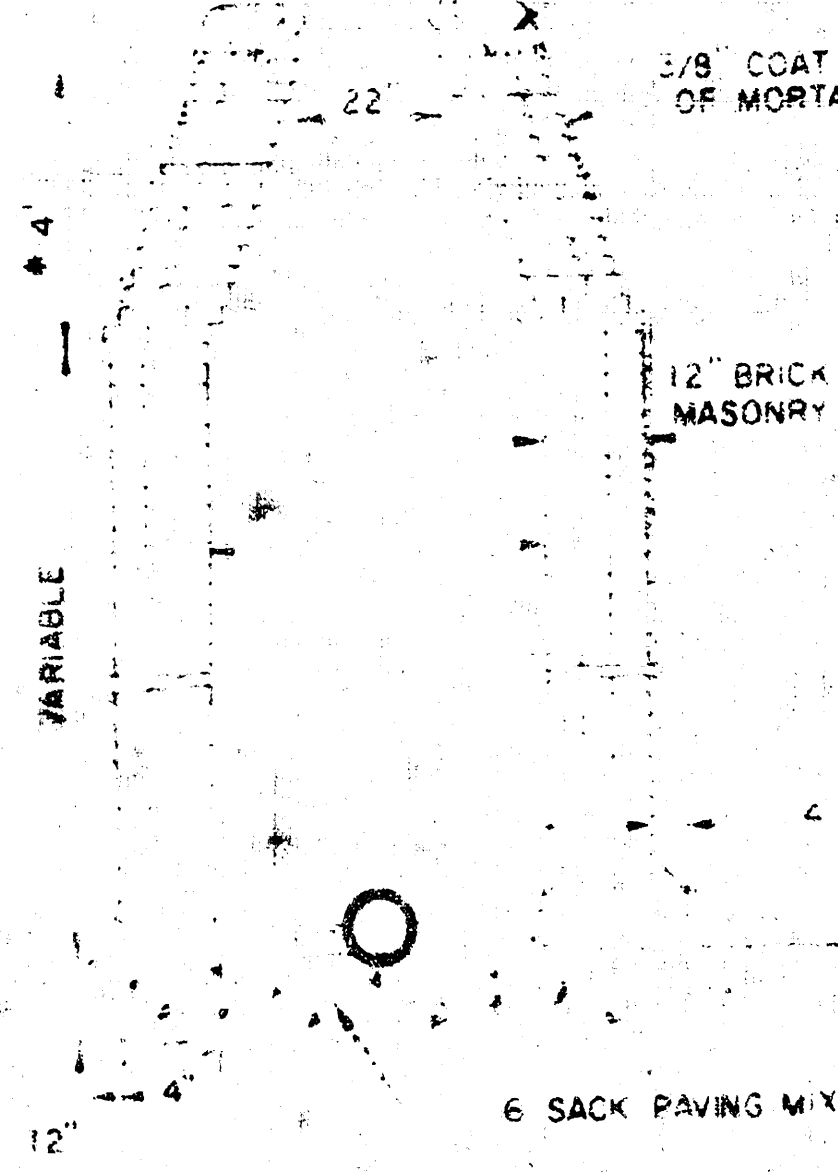




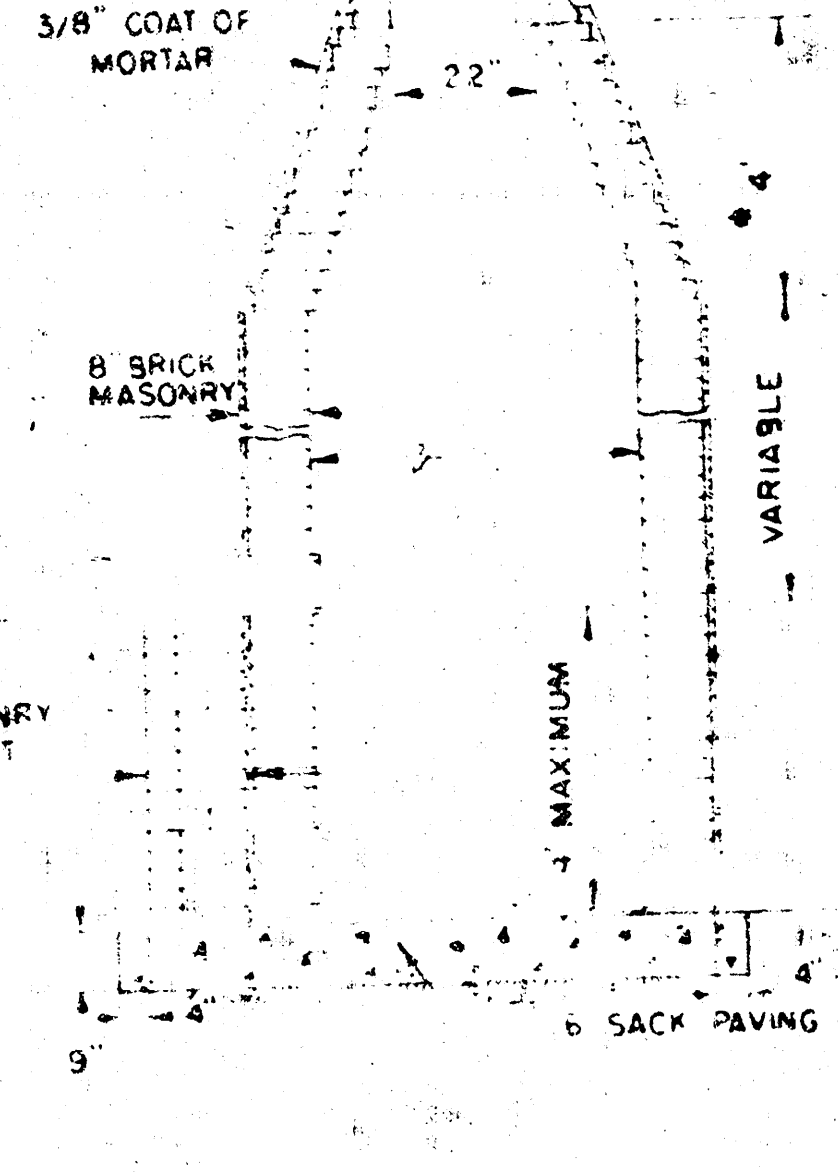


STANDARD MANHOLE  
TYPE "A"

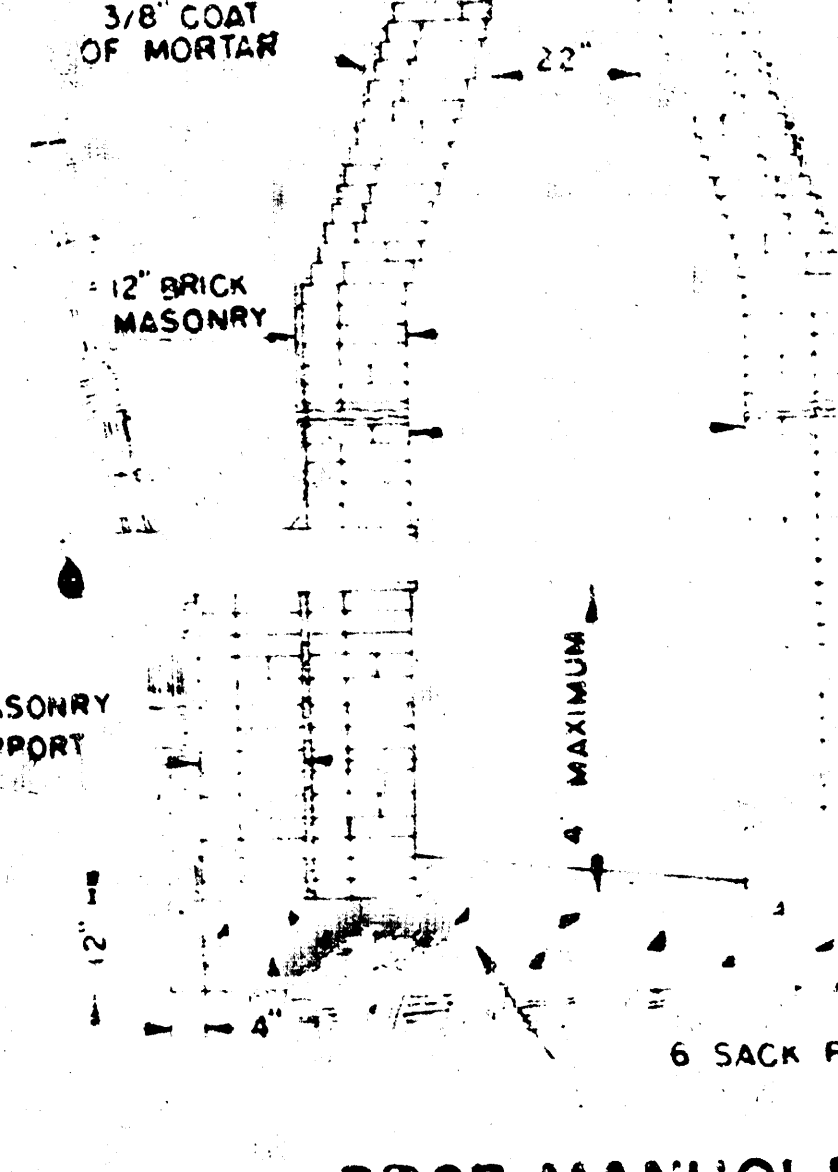
\* DRAW = 6" ON 5' DIA. M.H.



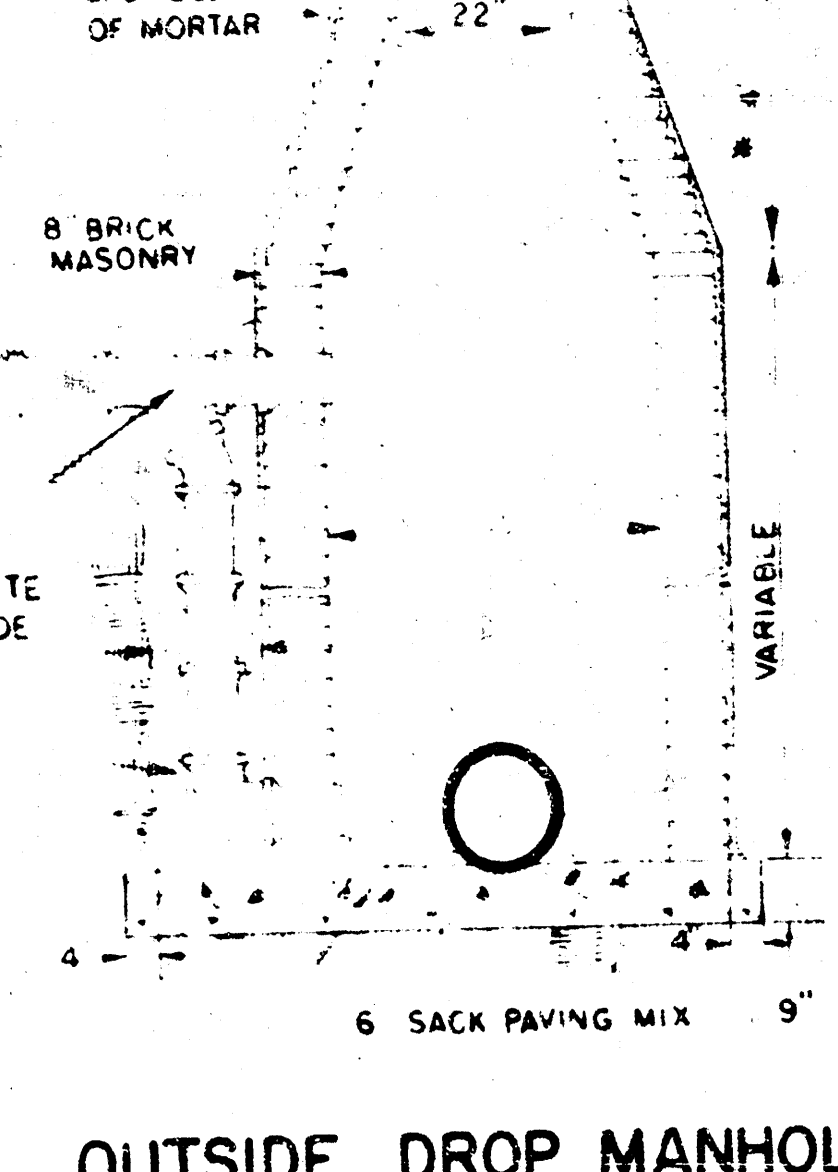
STANDARD MANHOLE  
TYPE "B"



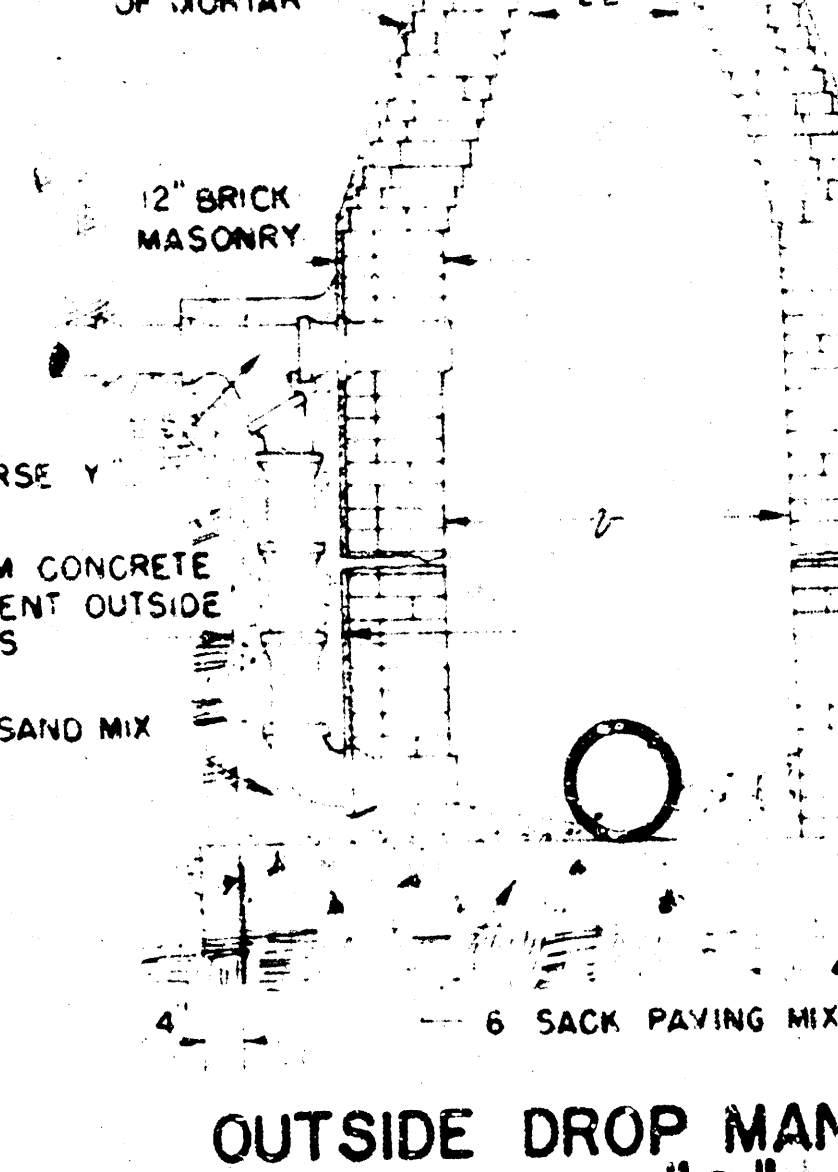
DROP MANHOLE  
TYPE "A"



DROP MANHOLE  
TYPE "B"

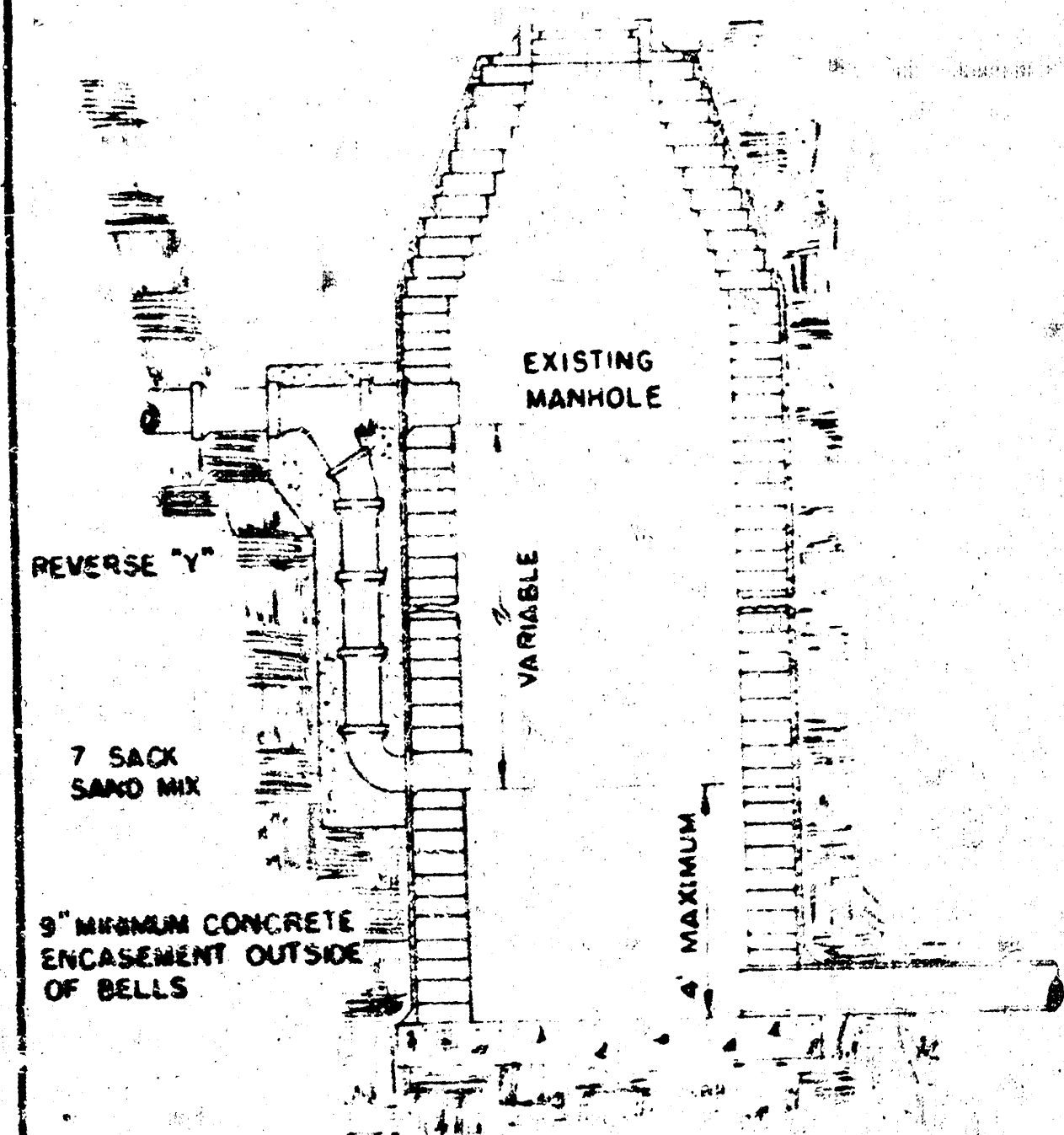


OUTSIDE DROP MANHOLE  
TYPE "A"

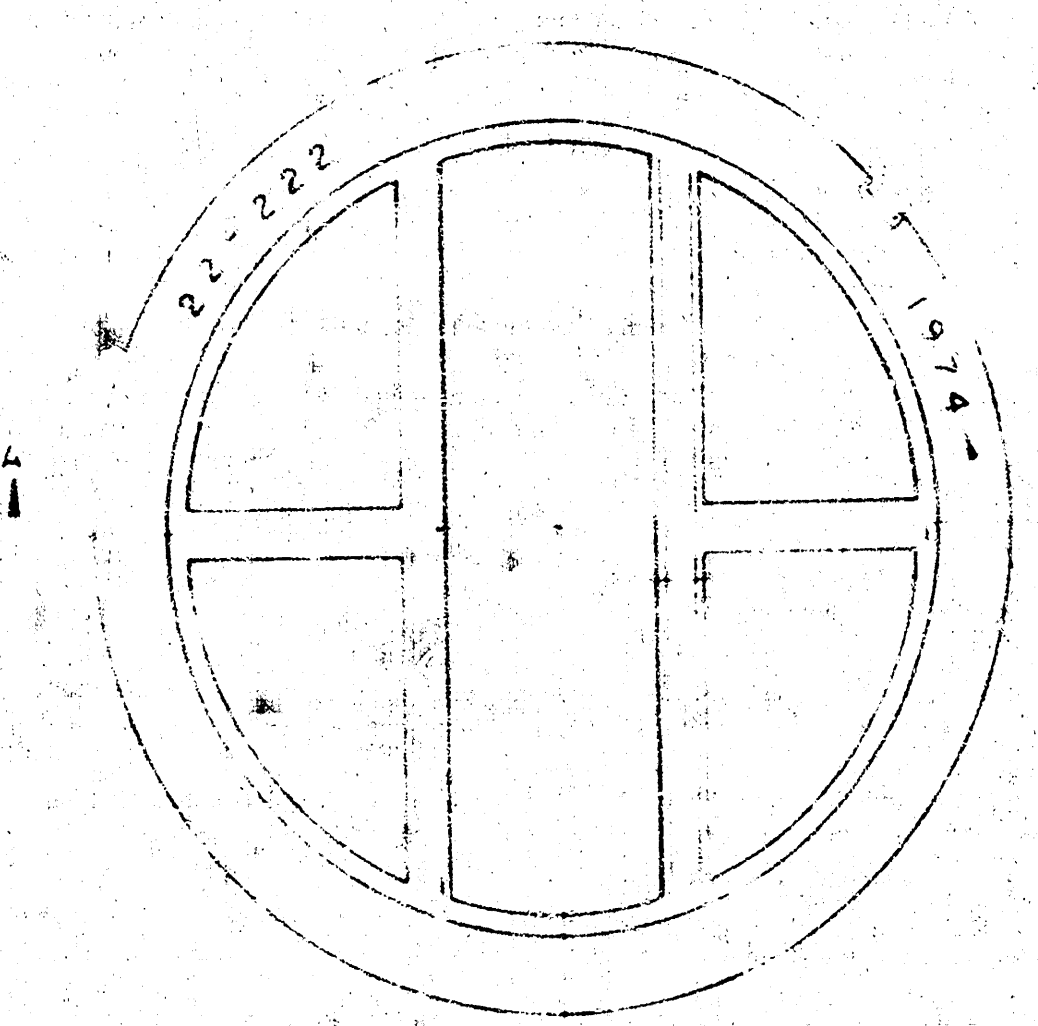


OUTSIDE DROP MANHOLE  
TYPE "B"

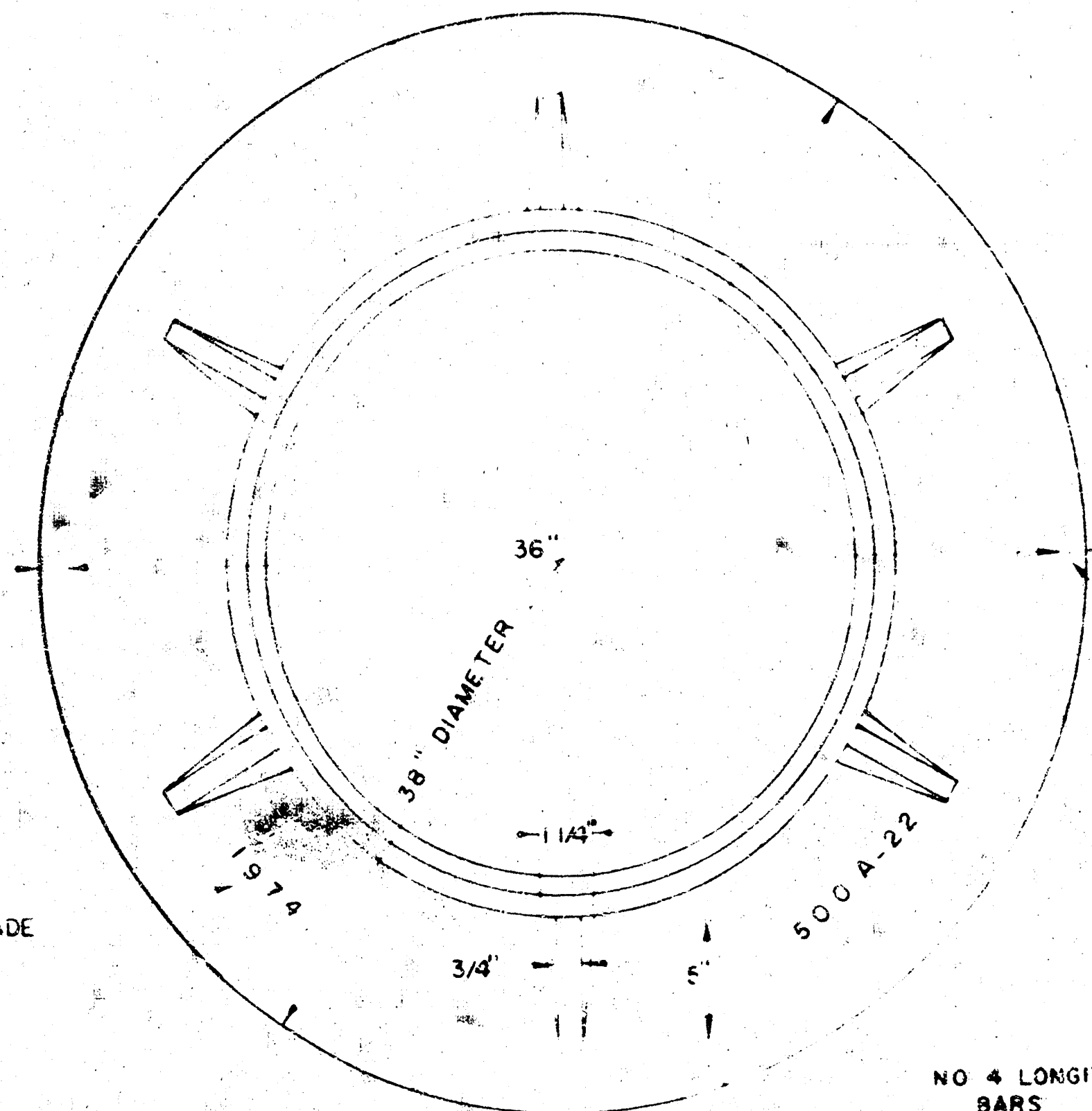
NOTE: REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.



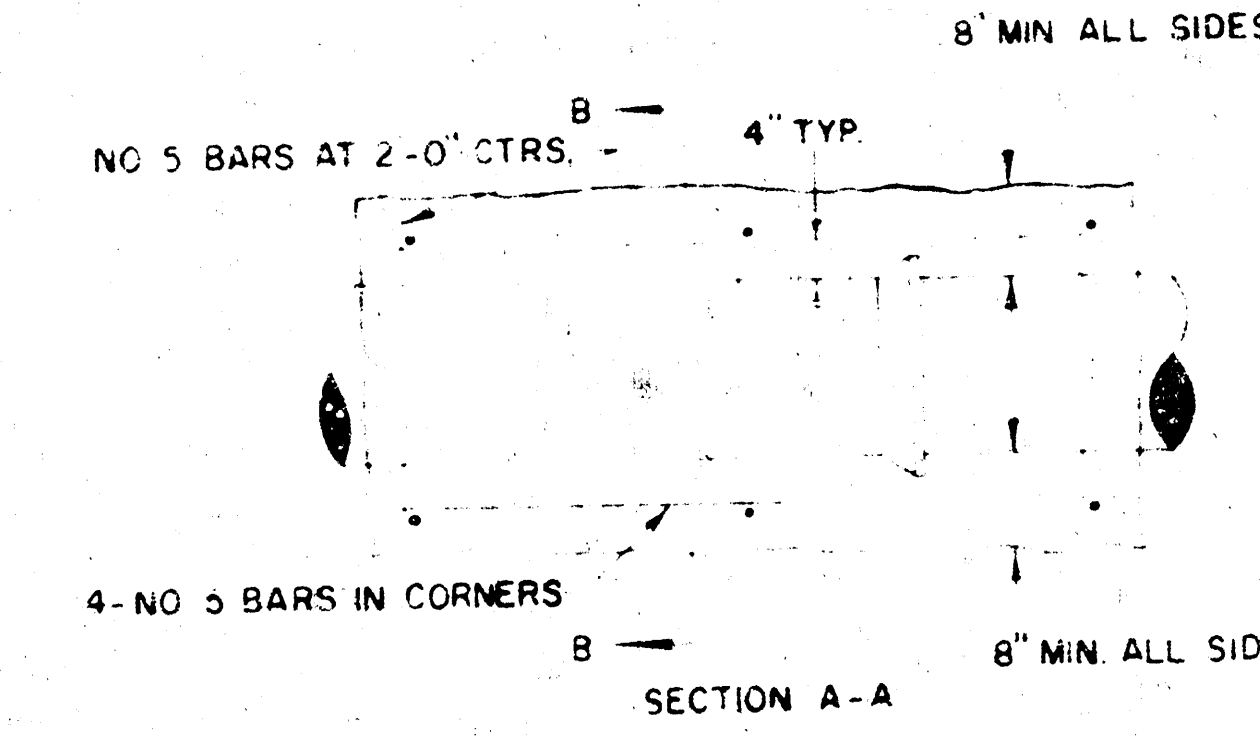
DETAIL OF DROP STACK  
FOR EXISTING MANHOLES IN GROUND WATER



MANHOLE COVER  
WEIGHT 10 LBS

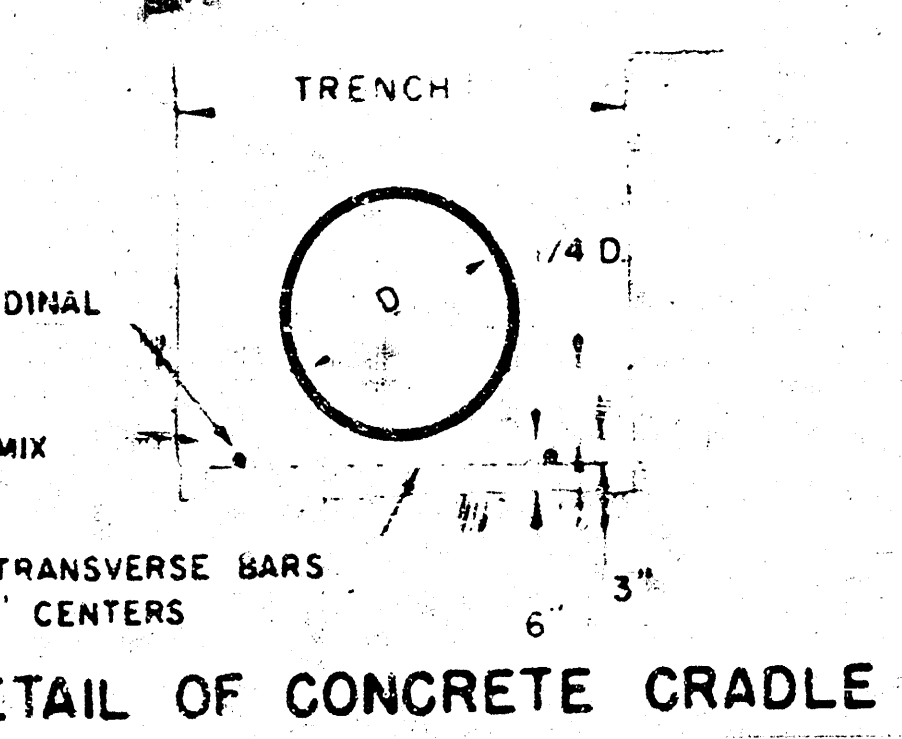


MANHOLE RING  
WEIGHT 325 LBS RING NO 500A  
WEIGHT 800 LBS RING NO 500AS



REINFORCED CONCRETE ENCASEMENT

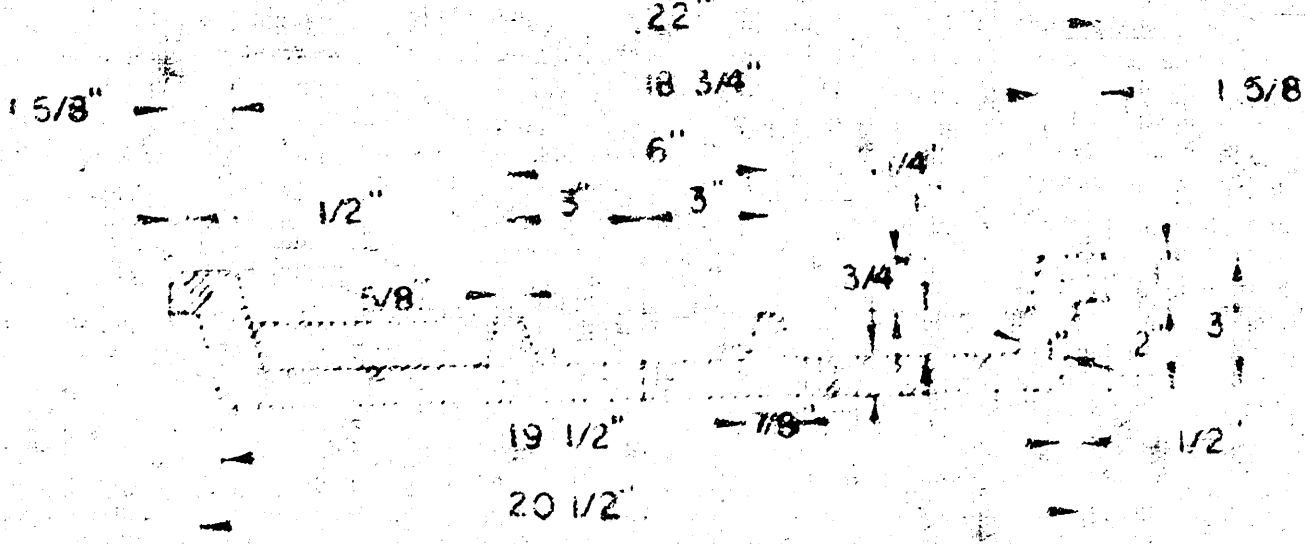
NOTE: CONCRETE ENCASEMENT AND CONCRETE CRADLE SHALL BEGIN AND END AT A JOINT WHEN CLAY PIPE IS USED.



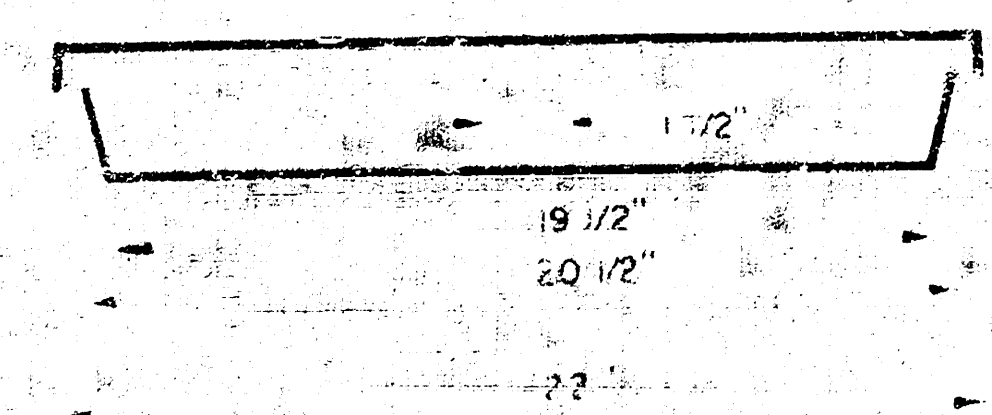
DETAIL OF CONCRETE CRADLE

GENERAL NOTES

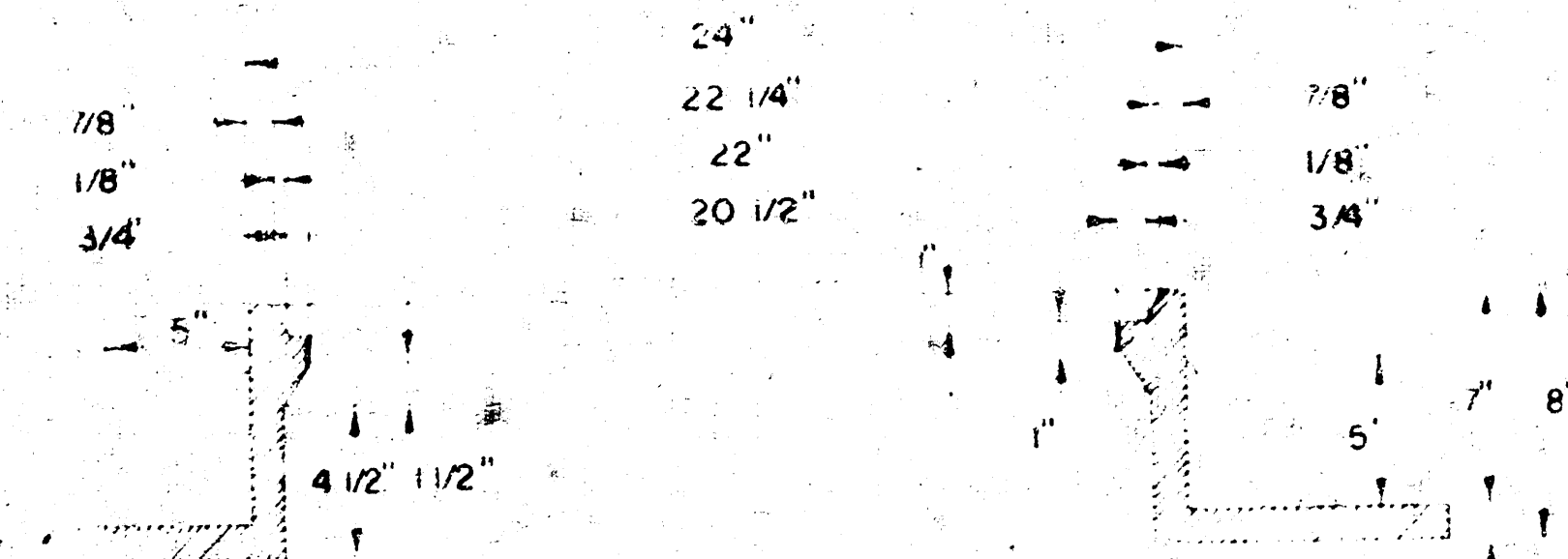
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.
- STANDARD MANHOLES TYPE "A" OR TYPE "B" AND STANDARD DROP MANHOLES TYPE "A" OR TYPE "B" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP 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 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.



MANHOLE COVER



MANHOLE COVER



MANHOLE RING

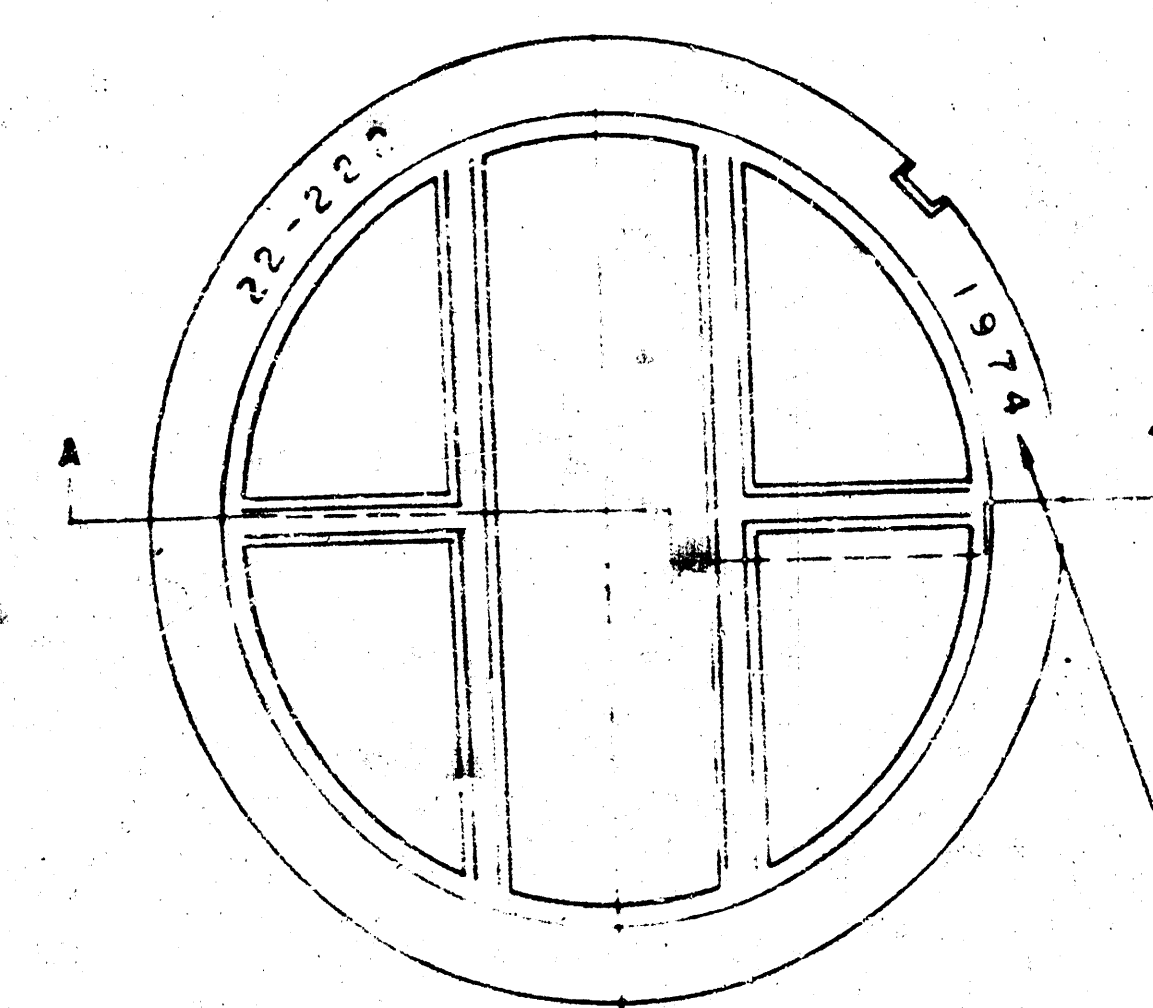
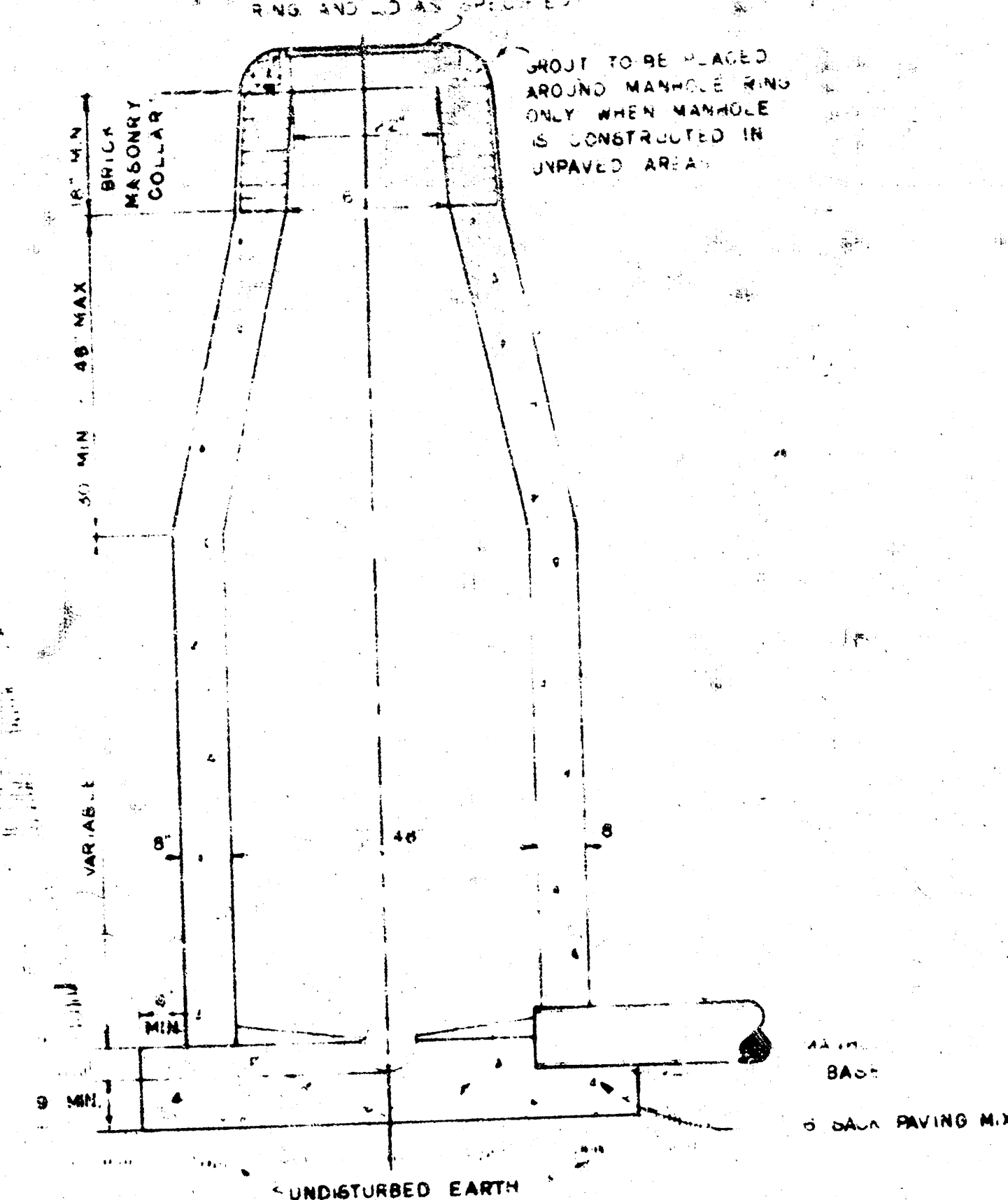
OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT

ORDINARY BEDDING METHOD  
STORM SEWER PIPE

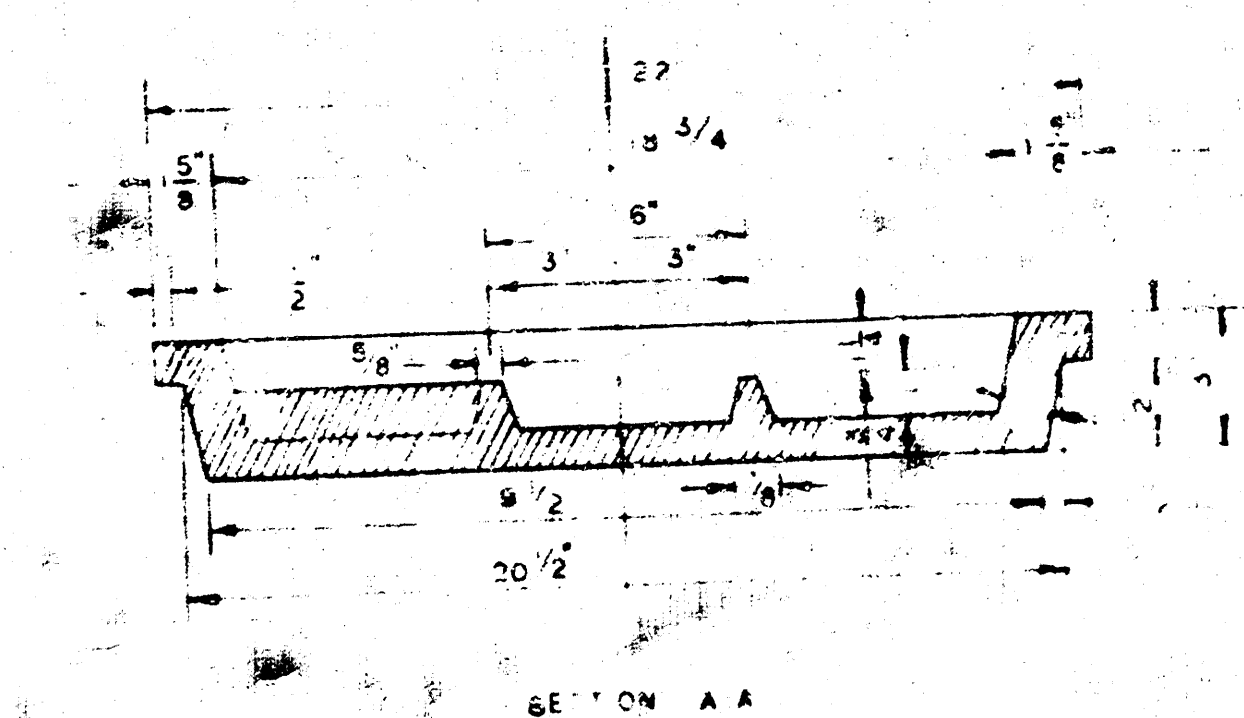
REVISED 4-13-77  
DETAILS OF  
**SEWER APPURTENANCES**  
ADOPTED AS STANDARD DESIGN  
BY  
ENGINEERING DIVISION  
CITY OF WICHITA, KANSAS  
R. W. LINN CITY ENGINEER  
1974



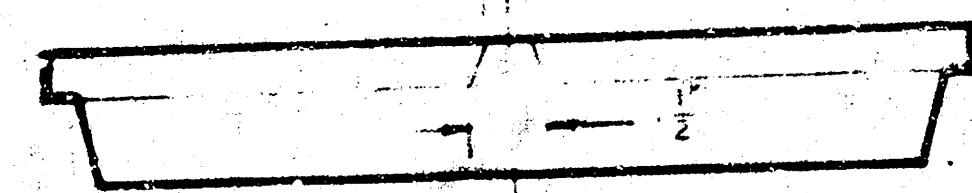
STANDARD MANHOLE, TYPE "C"



MANHOLE COVER

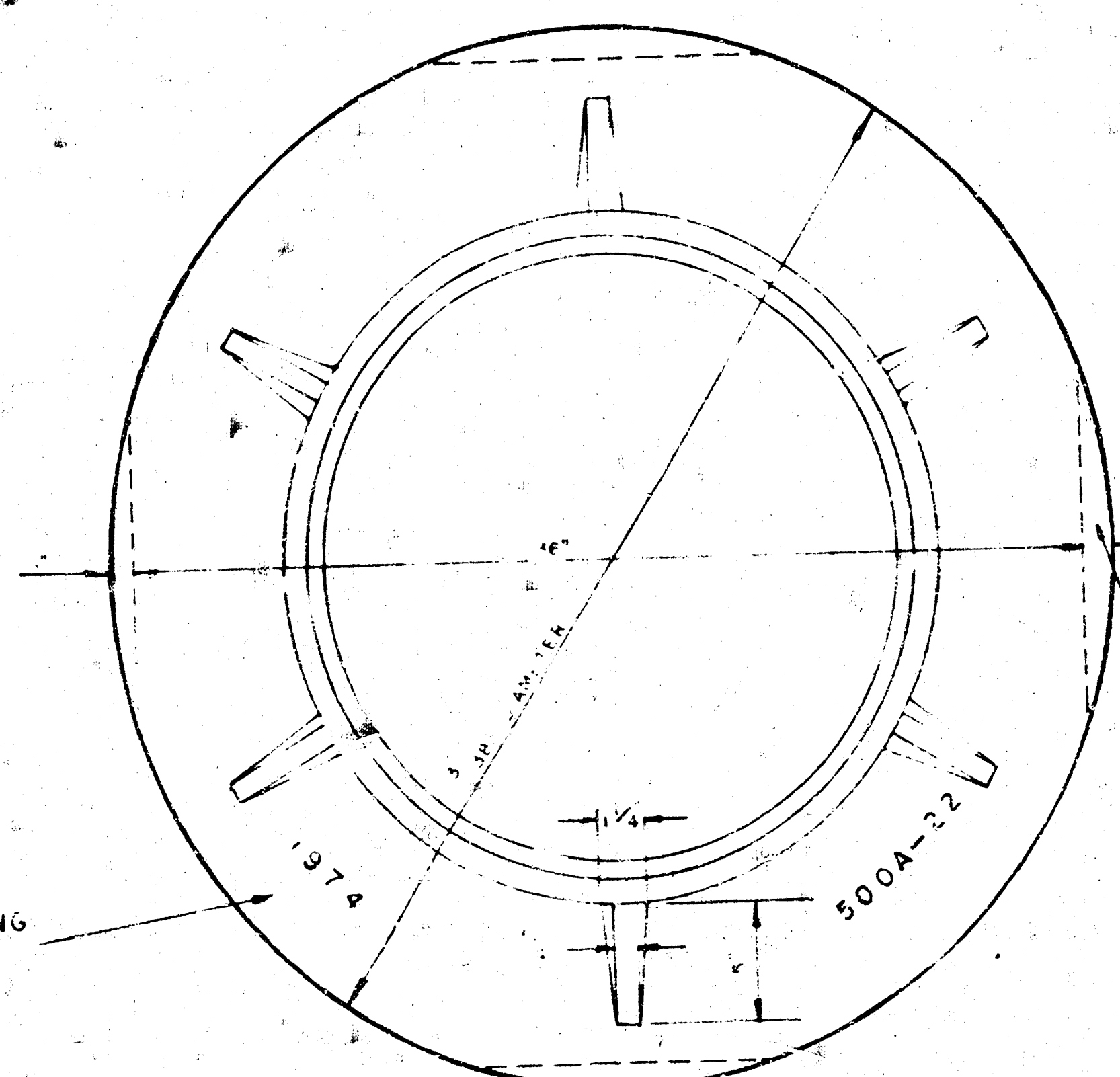
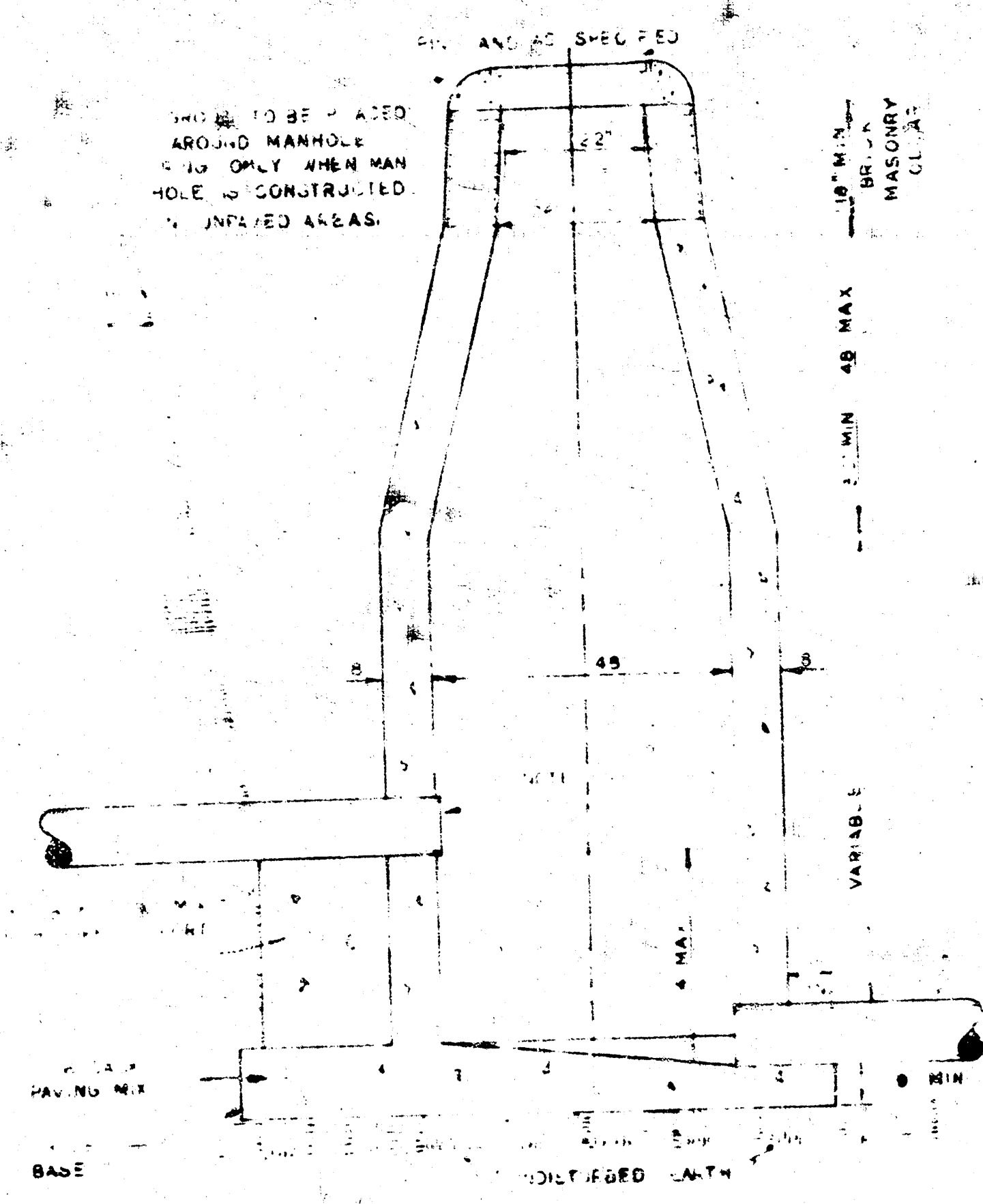


MANHOLE COVER

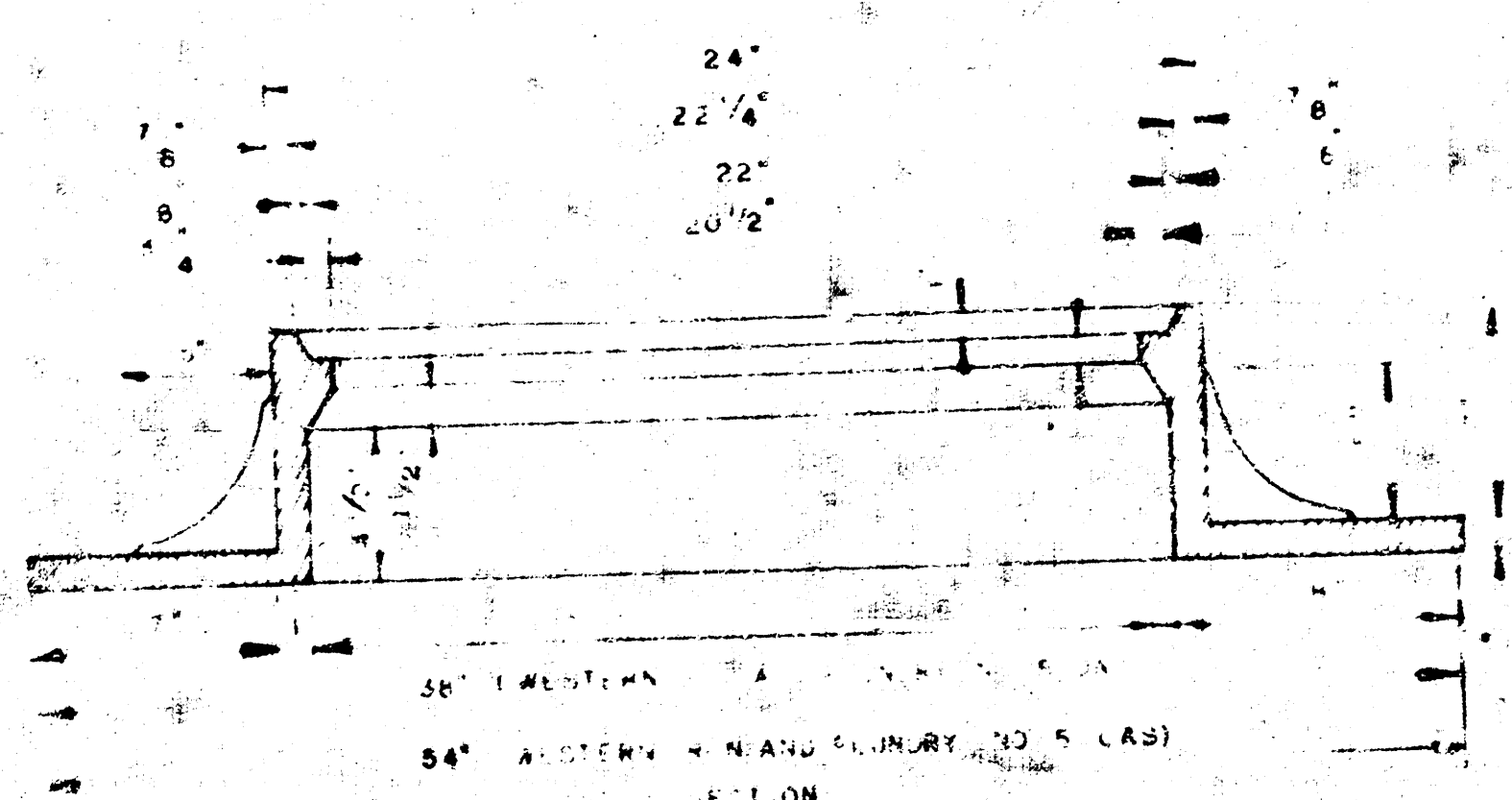


MANHOLE COVER

DROP MANHOLE, TYPE "C"

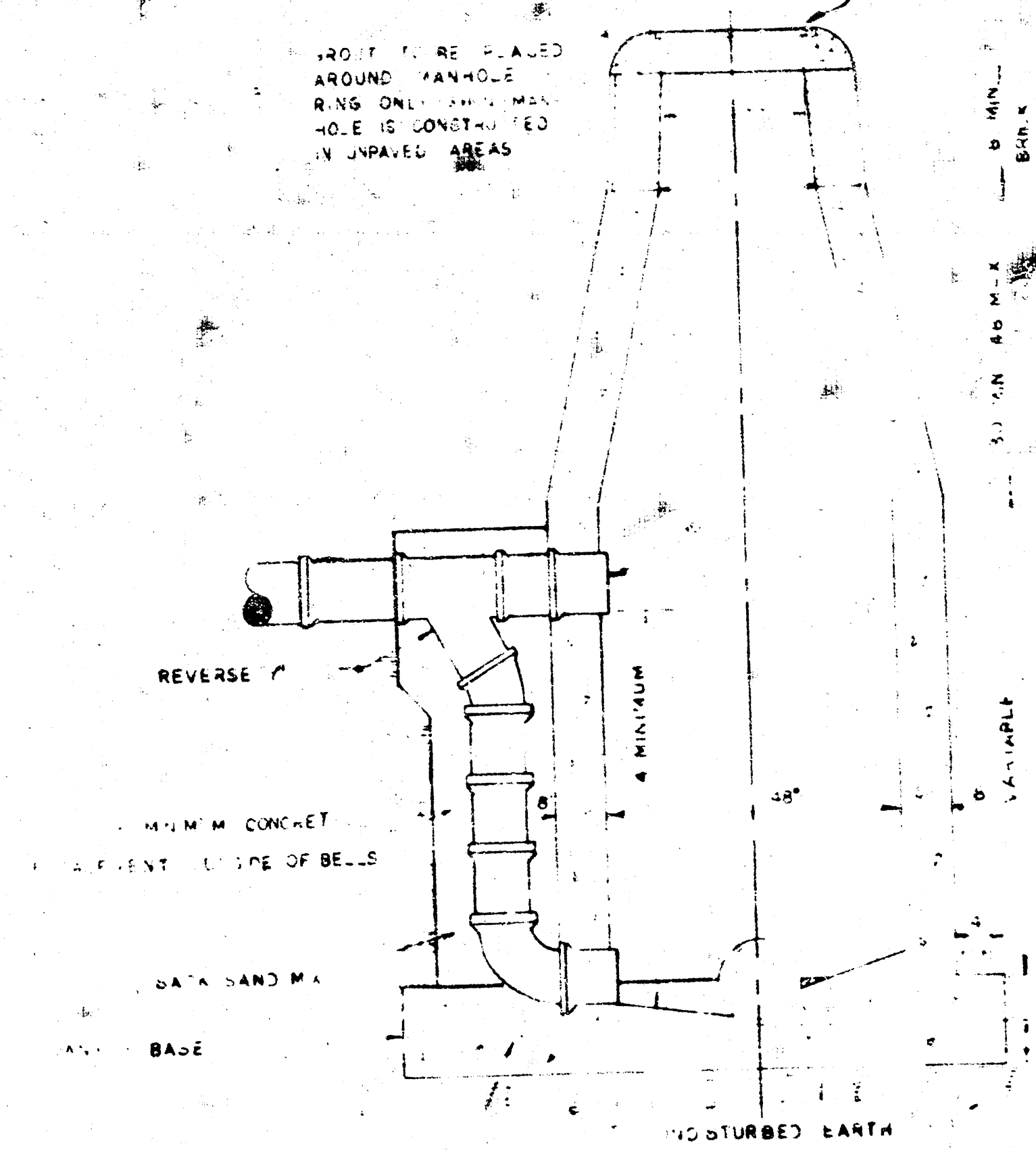


MANHOLE RING

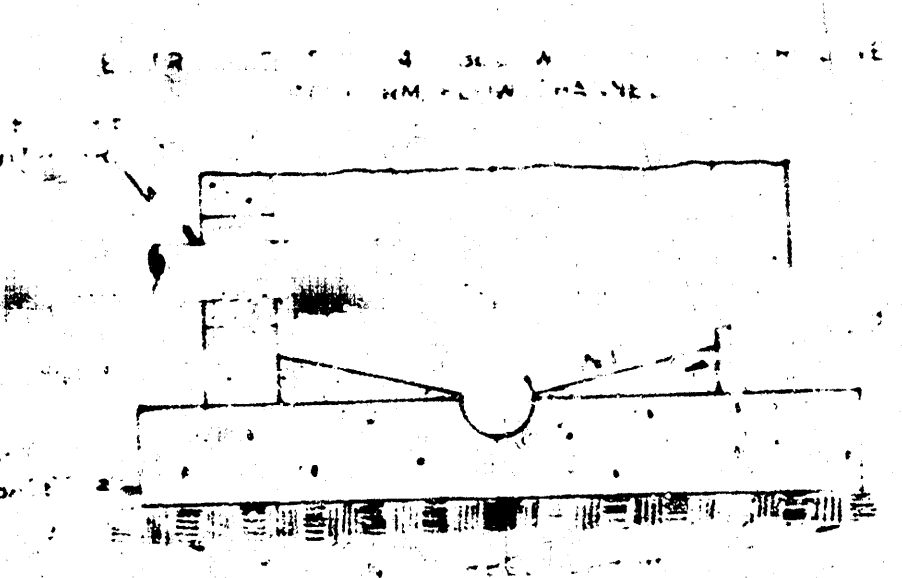


MANHOLE RING

OUTSIDE DROP MANHOLE, TYPE "C"



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.



SECTIONAL ELEVATION-INVERT

NOTE: OPENING FOR INLET PIPE CUT IN MANHOLE WALL AND PIPE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.

GENERAL NOTES

- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.
- STANDARD MANHOLES TYPE "C" AND STANDARD DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED.
- OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4 FT UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5 FT DIAMETER.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.
- CAST IN PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETERIORATION OF CONCRETE DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT AN ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.
- 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.

REVISED 4-13-77

DETAILS OF  
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