

MAIN 5, SOUTHWEST INTERCEPTOR SEWER
PARTS I & II

PROJ. NO. DBKM572018

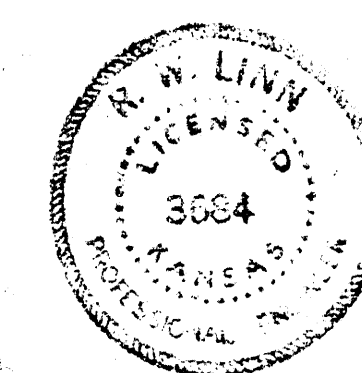
CITY OF WICHITA, KANSAS

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PLANS PREPARED BY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. BRUGGEMAN, DIRECTOR OF PUBLIC WORKS
R. W. LINN, CITY ENGINEER

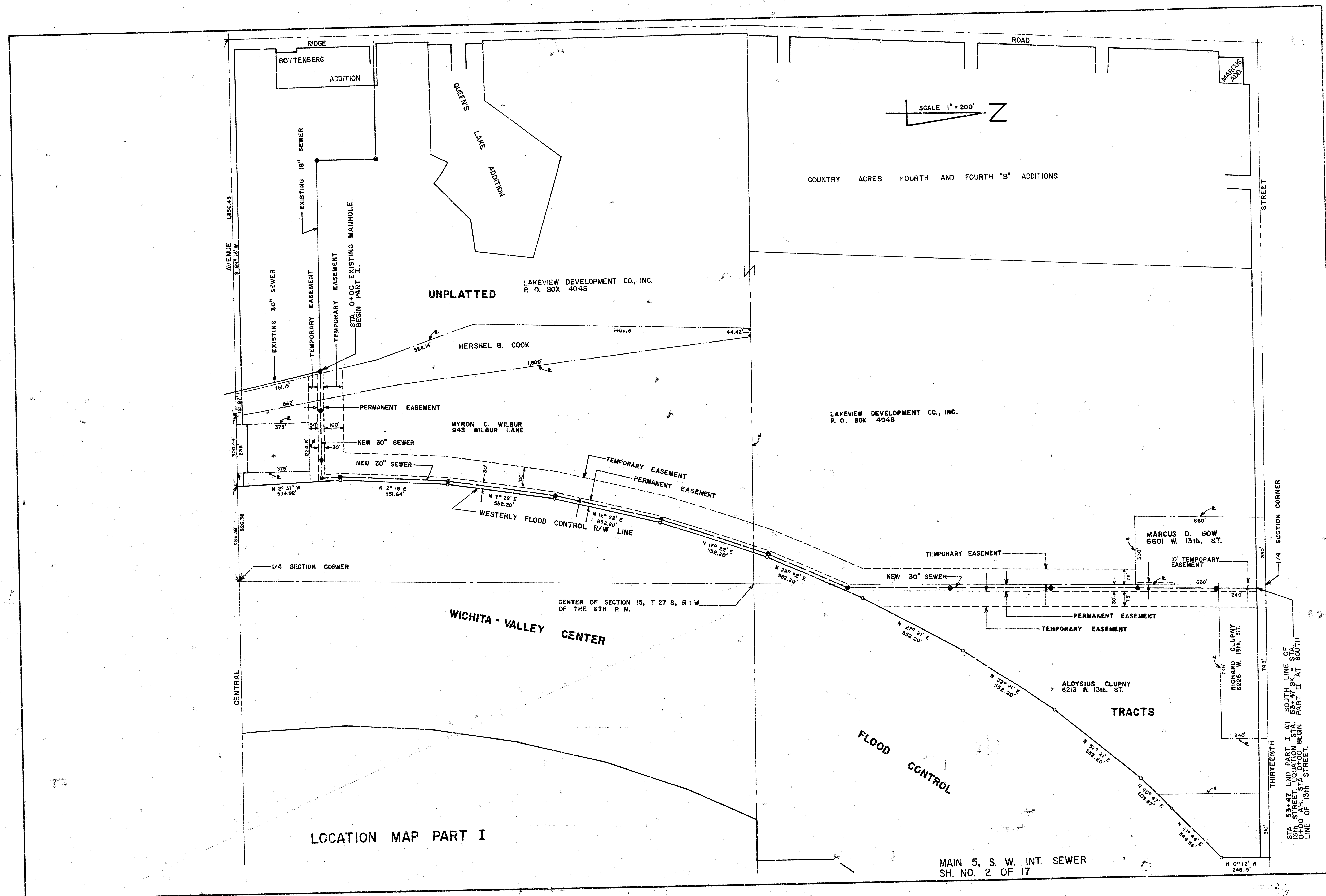
R. W. Linn DATE: _____
R.W. LINN CITY ENGINEER



As Built 1-10-76

SH. NO. 1 OF 17

1/17



STA. 53+47 END PART I AT SOUTH LINE OF
ST. 13TH STREET. STATION STA. 53+47 BK. 1 STA.
0+00 AN. STA. 0+00 BEGIN PART II AT SOUTH
LINE OF 13TH STREET.

LOCATION MAP PART II

SEDGWICK COUNTY ZOO

LOT 2

BLOCK "A"

LOT 1

SECOND ADDN.

SCALE 1"=200'

N

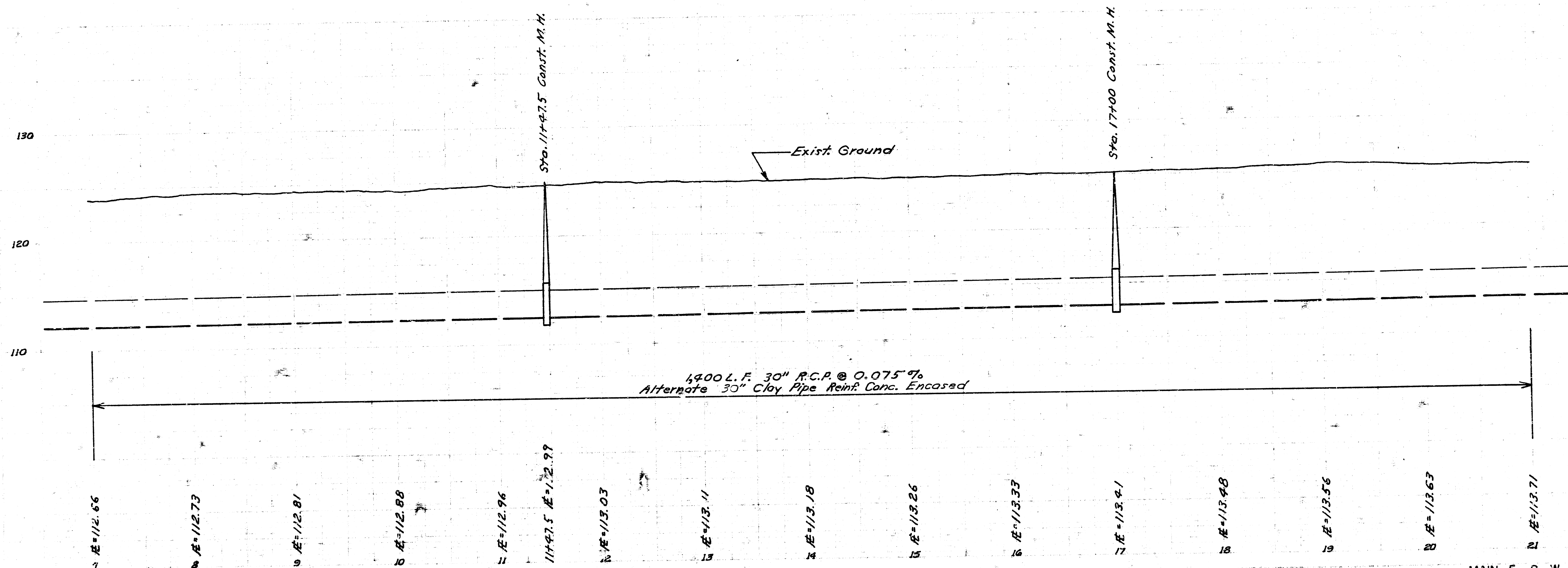
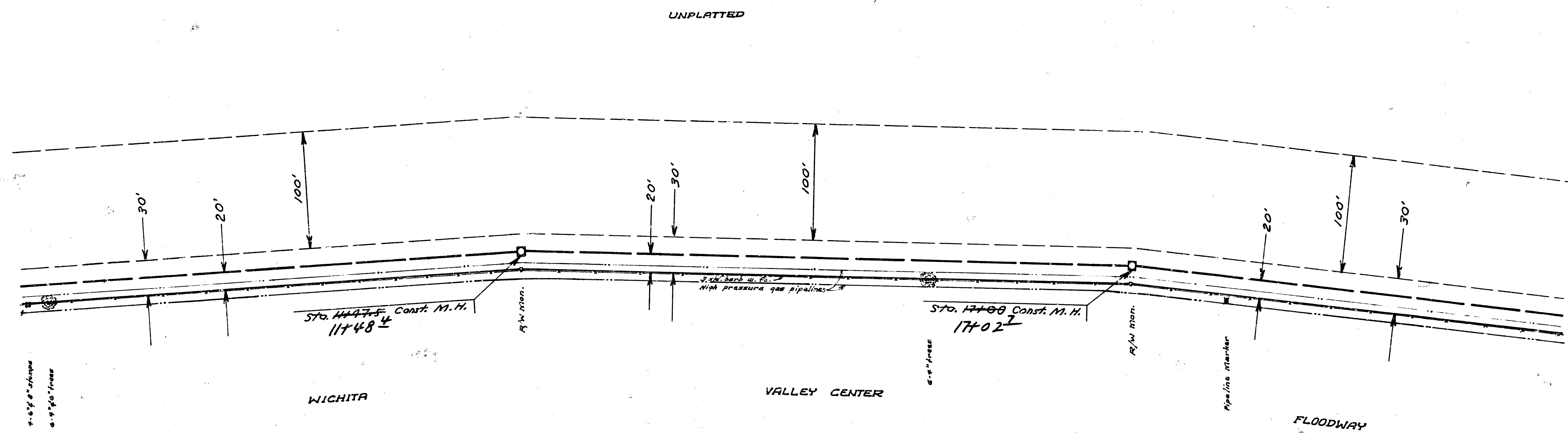
N. 1/4 COR. OF SEC. 10,
T27S, R1W OF 6TH P.M.

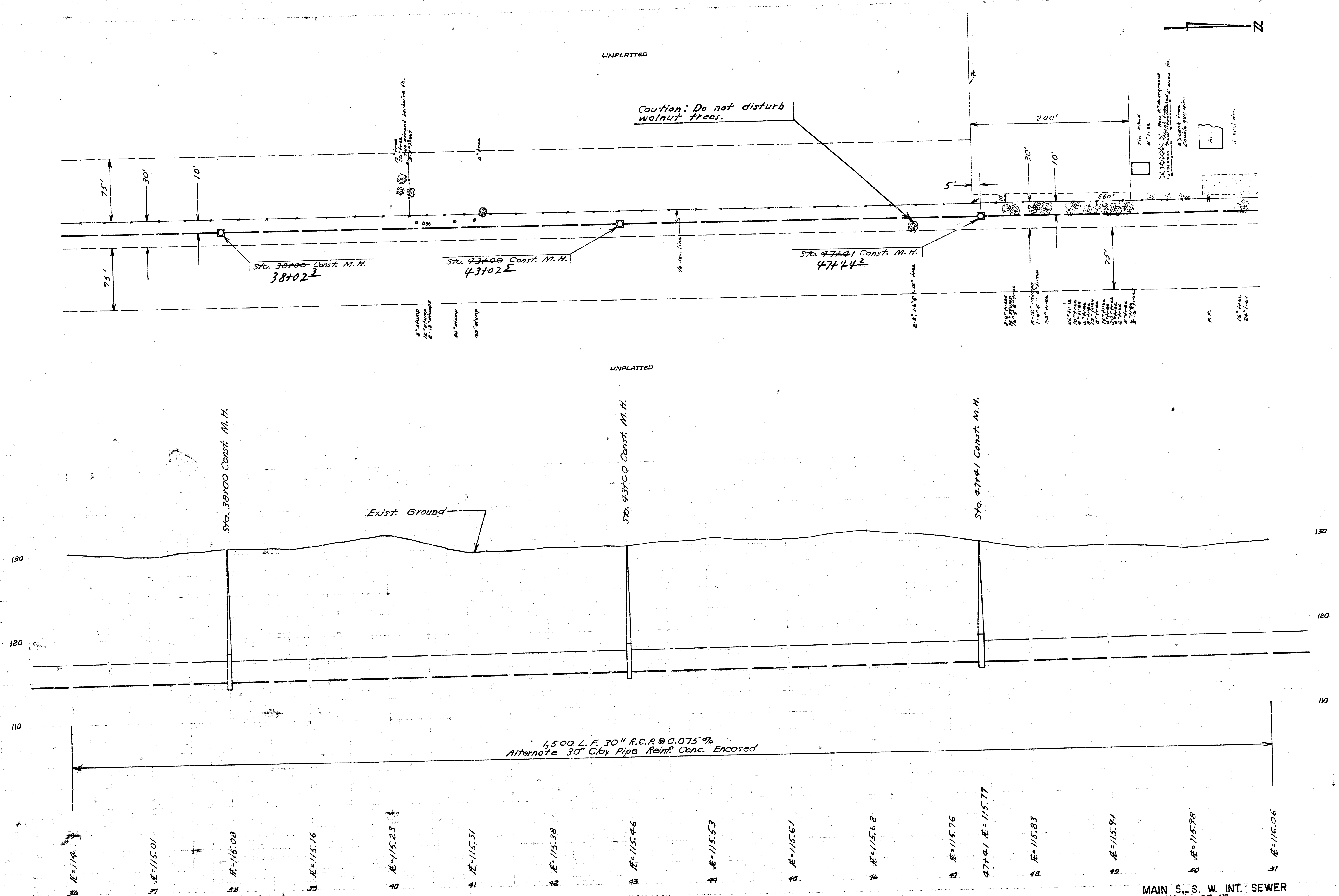
ST. NO.

21ST.

MAIN 5, S. W. INT. SEWER
SH. NO. 3 OF 17

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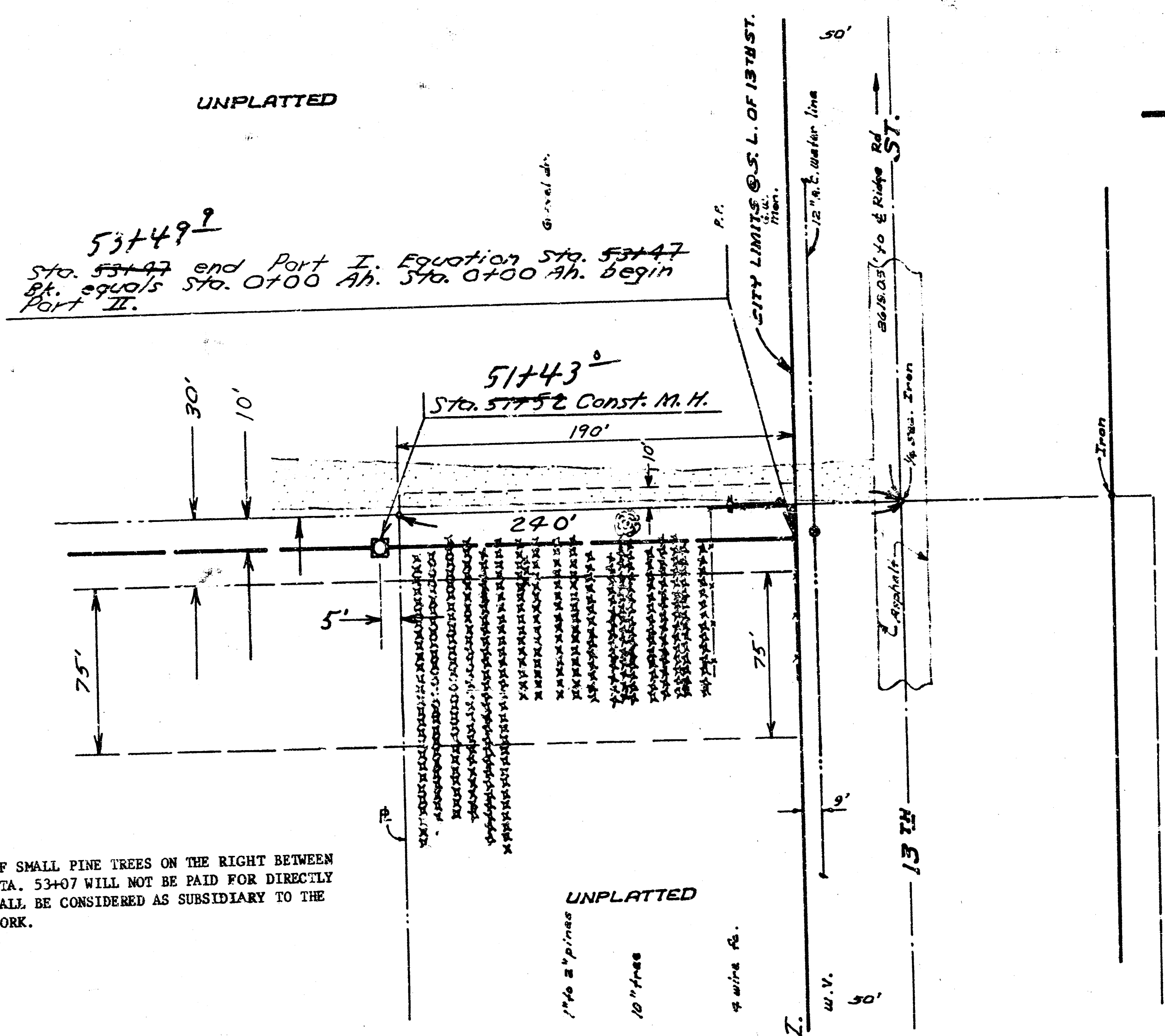




MAIN 5" S. W. INT. SEWER
SH. NO. 7 OF 17

7/19

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NOTE: REMOVAL OF SMALL PINE TREES ON THE RIGHT BETWEEN STA. 51+57 AND STA. 52+07 WILL NOT BE PAID FOR DIRECTLY AND THIS WORK SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.

B. M. 130.53 Top R/W Mon. 55' So. of 1/4 sec. cor. & 13TH & 2619.05' E. of & Ridge Rd.

Manhole Schedule Part I		
Location	Type	Location of Openings for Future Sewers
2+00.00	Special Reinf. Conc. No Alternate	None
4+20.00	Special Reinf. Conc. No Alternate	8" South E=114.18
5+00.00	Reinf. Conc. Alternate 5' Dia. Type B	8" South E=114.34
5+94.00	Reinf. Conc. Alternate 5' Dia. Type B	8" West E=114.41
11+47.50	Reinf. Conc. Alternate 5' Dia. Type B	8" West E=114.83
17+00.00	Reinf. Conc. Alternate 5' Dia. Type B	8" West E=115.24
22+54.00	Reinf. Conc. Alternate 5' Dia. Type B	8" West E=115.95
27+43.00	Special Reinf. Conc. Alternate 5' Dia. Type B	10" West E=116.70
32+78.00	Reinf. Conc. Alternate 5' Dia. Type B	8" West E=116.52
38+00.00	Structural Tee Alternate 5' Dia. Type B	8" West & 8" East E=116.91
43+00.00	Structural Tee Alternate 5' Dia. Type B	8" West & 8" East E=117.29
47+41.00	Structural Tee Alternate 5' Dia. Type B	8" West & 8" East E=117.63
51+52.00	Structural Tee Alternate 5' Dia. Type B	8" West & 8" East E=117.93

NOTE: ALL STUBS AND OPENINGS FOR FUTURE 8" SEWER CONNECTIONS SHALL BE INSTALLED TO PERMIT CONSTRUCTION OF THE FUTURE 8" SEWERS ON A 0.42 GRADE. ALL STUBS AND OPENINGS FOR FUTURE 10" SEWER CONNECTIONS SHALL BE INSTALLED TO PERMIT CONSTRUCTION OF THE FUTURE 10" SEWERS ON A 0.37 GRADE. ALL WORK AND MATERIALS NECESSARY TO CONSTRUCT OPENINGS OR STUBS FOR FUTURE SEWER CONNECTIONS WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK. ALTERNATE BRICK MANHOLES TO BE USED ONLY WITH REINFORCED CONCRETE ENCASED CLAY PIPE.

NOTE: CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A TEMPORARY GRAVEL DRIVE TO PROVIDE ACCESS TO HOUSE LEFT OF STA. 50+40 WHILE CONSTRUCTING SEWER ADJACENT TO THIS PROPERTY. TEMPORARY DRIVE SHALL BE REMOVED AND THE PREMISES RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE WORK. CONTRACTOR SHALL CONSTRUCT AN ASPHALT DRIVEWAY TWELVE (12) FEET WIDE TO REPLACE THE ORIGINAL GRAVEL DRIVE. THE DRIVEWAY SHALL CONSIST OF 4" COMPACTED ASPHALT PLACED IN TWO 2" LIFTS. ASPHALT DRIVEWAY CONSTRUCTION SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR ASPHALT PAVEMENT. ASPHALTIC MATERIALS SHALL CONFORM TO THE REQUIREMENTS SPECIFIED FOR ASPHALT SURFACE COURSE (TYPE SC-1). THE APPROXIMATE QUANTITY OF ASPHALT DRIVEWAY CONSTRUCTION IS 500 SQ. YDS. THE WORK CONSISTING OF CONSTRUCTION AND MAINTENANCE OF A TEMPORARY GRAVEL DRIVE; REMOVAL OF TEMPORARY GRAVEL DRIVE; RESTORATION OF AREA TO ORIGINAL CONDITION; AND CONSTRUCTION OF ASPHALT DRIVE TO REPLACE ORIGINAL GRAVEL DRIVE WILL NOT BE PAID FOR DIRECTLY AND THIS WORK SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.

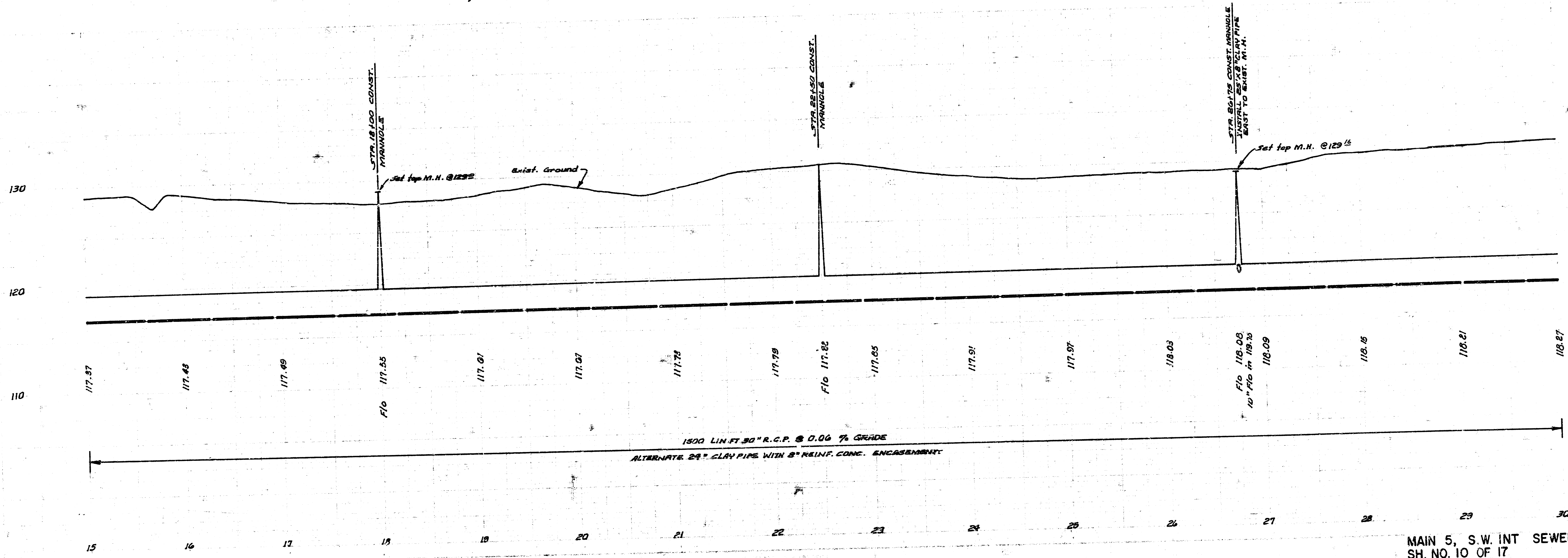
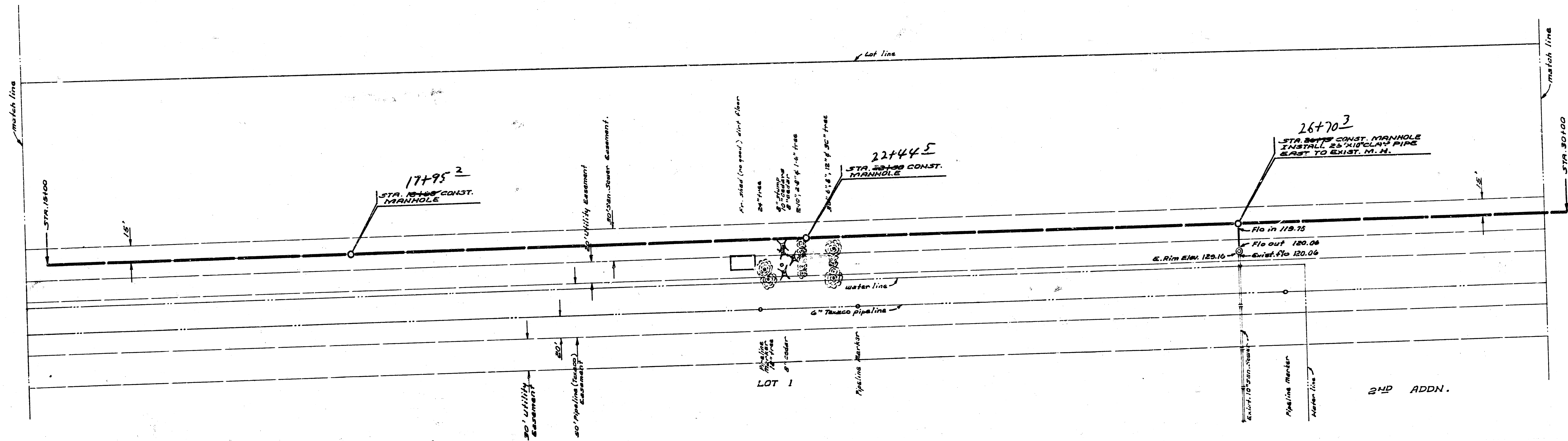
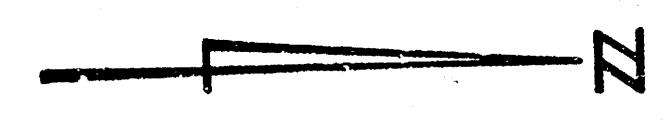
MAIN 5, S. W. INT. SEWER
SH. NO. 8 OF 17

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SEDGWICK COUNTY ZOO

(A)

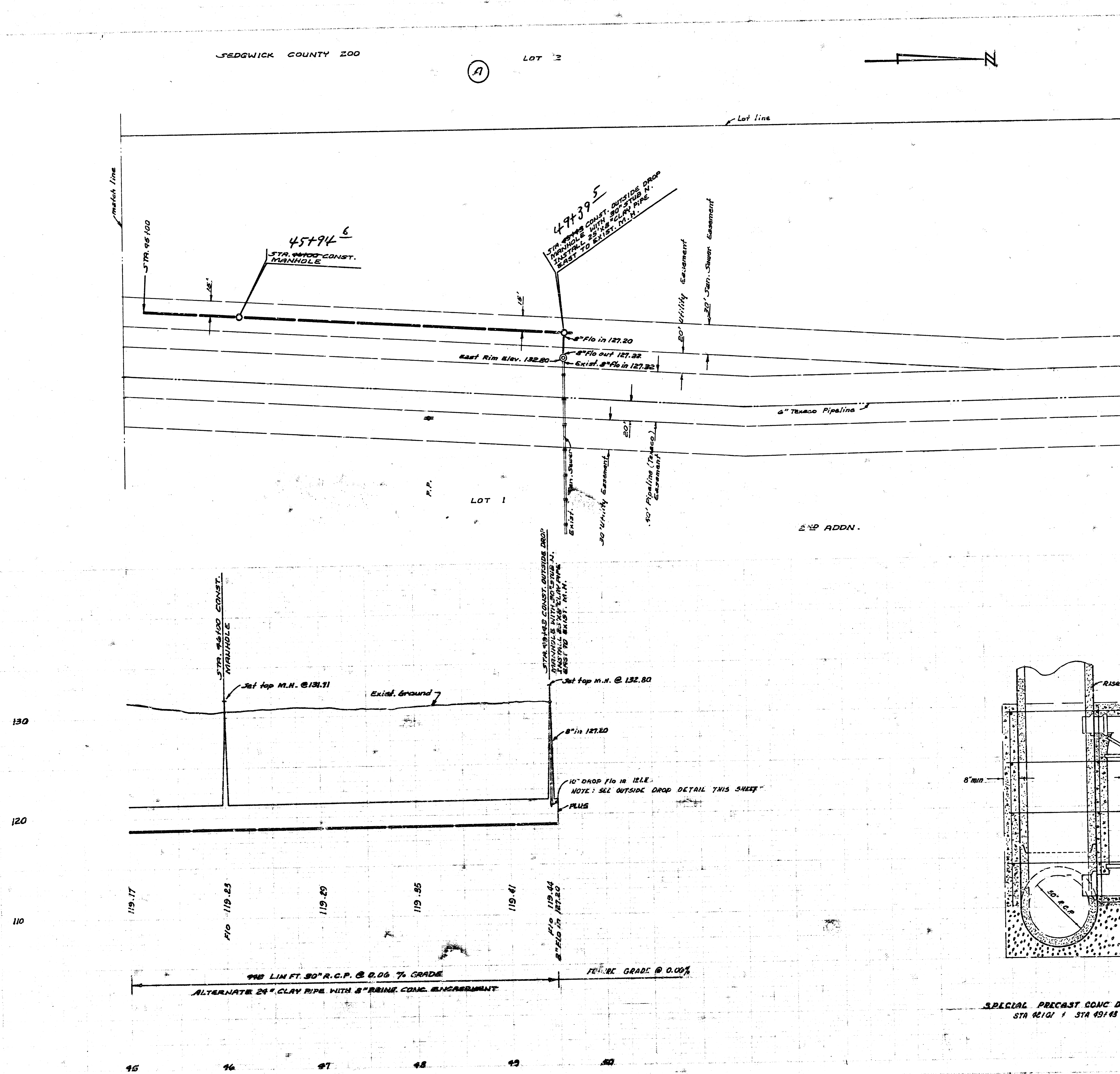
LOT 2



MAIN 5, S.W. INT. SEWER
SH. NO. 10 OF 17

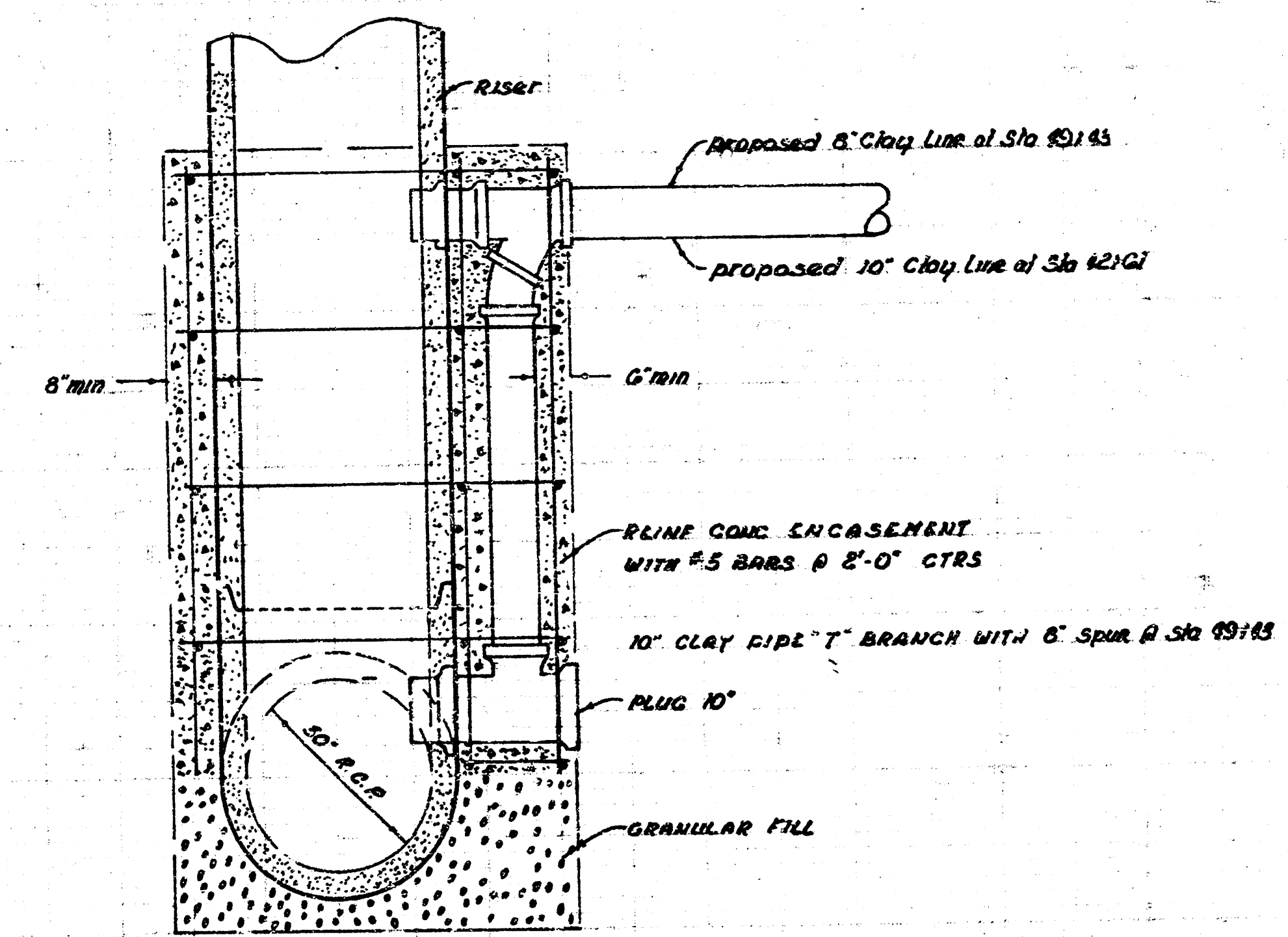
10/17

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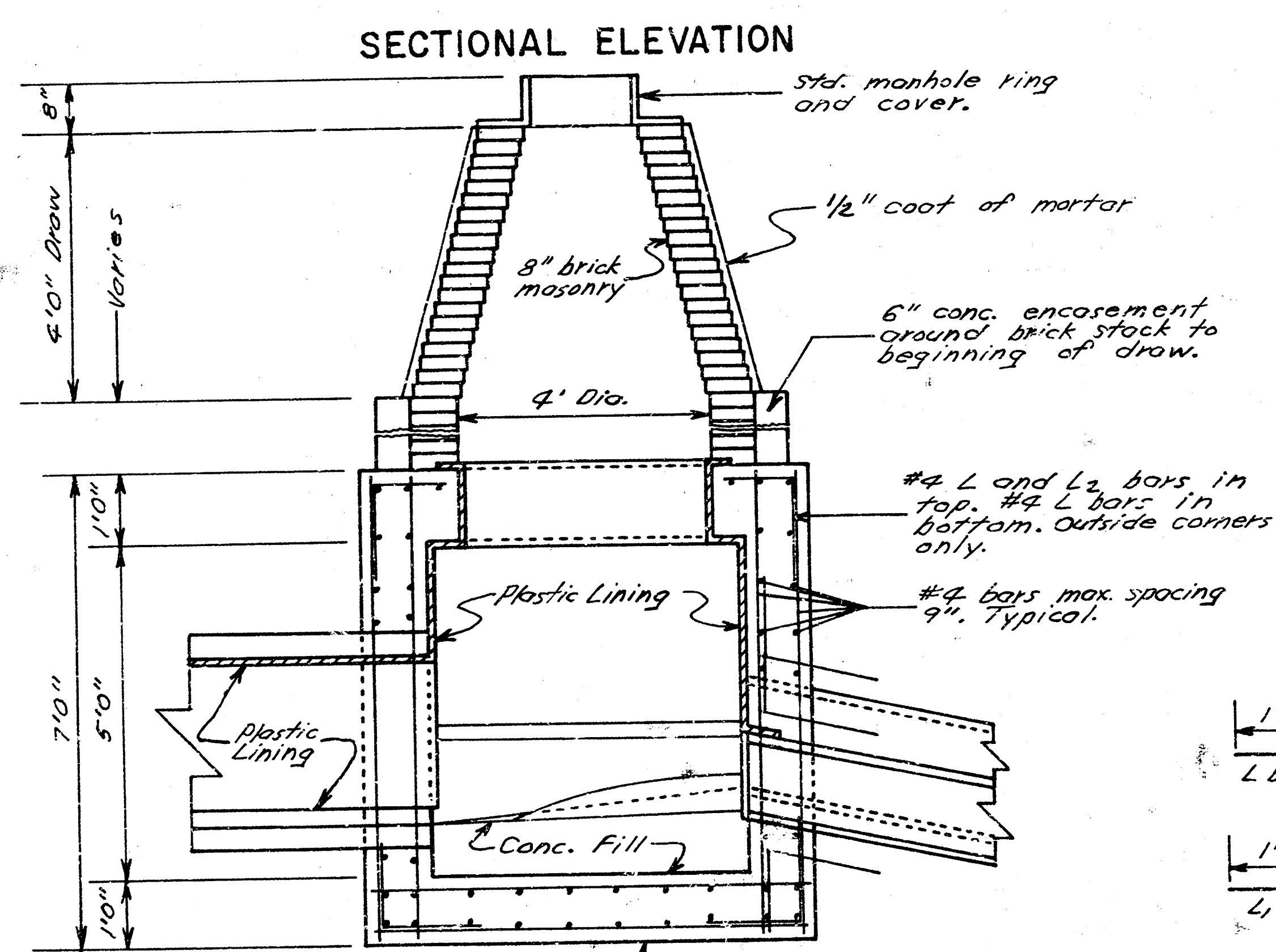
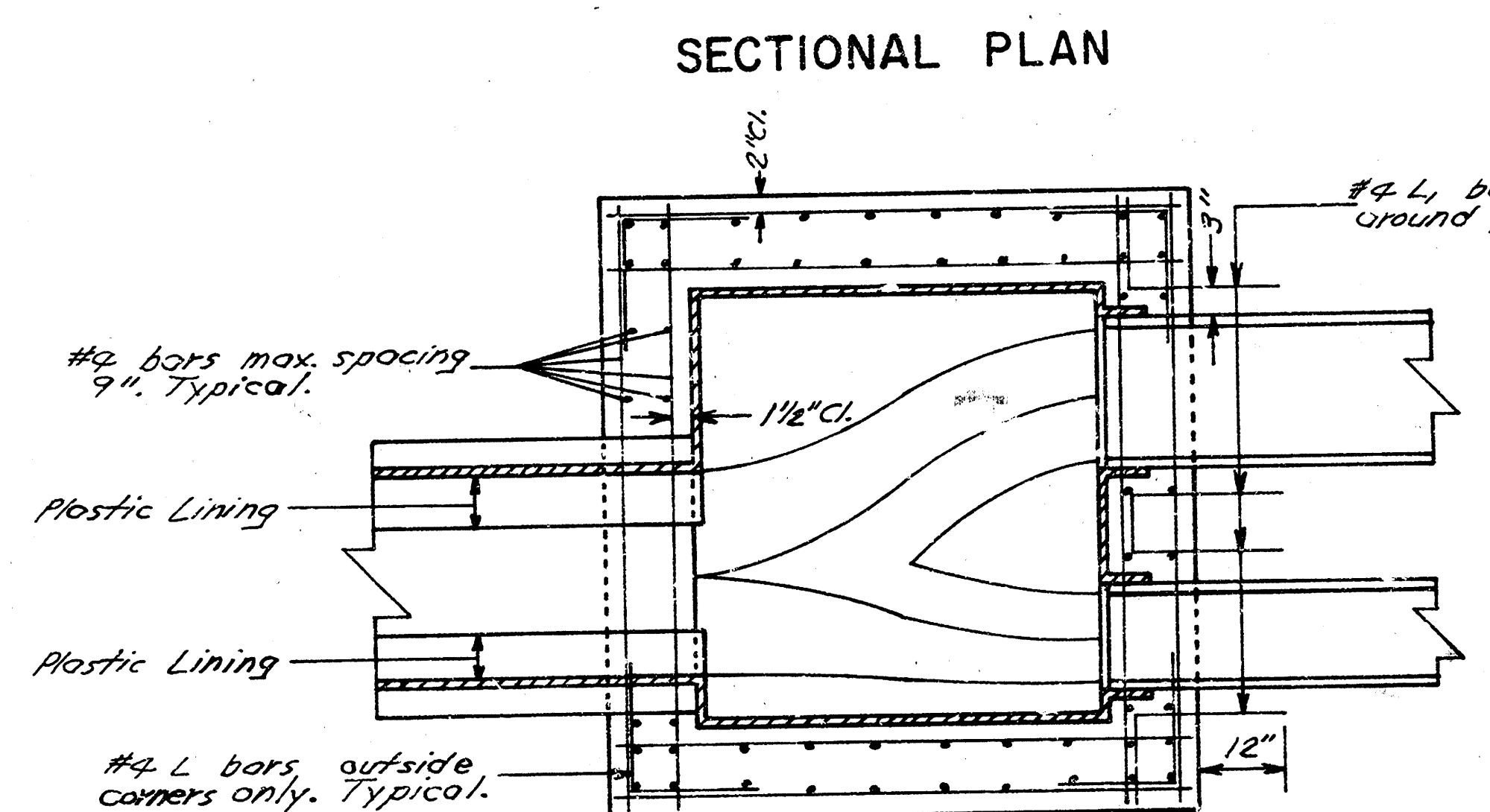
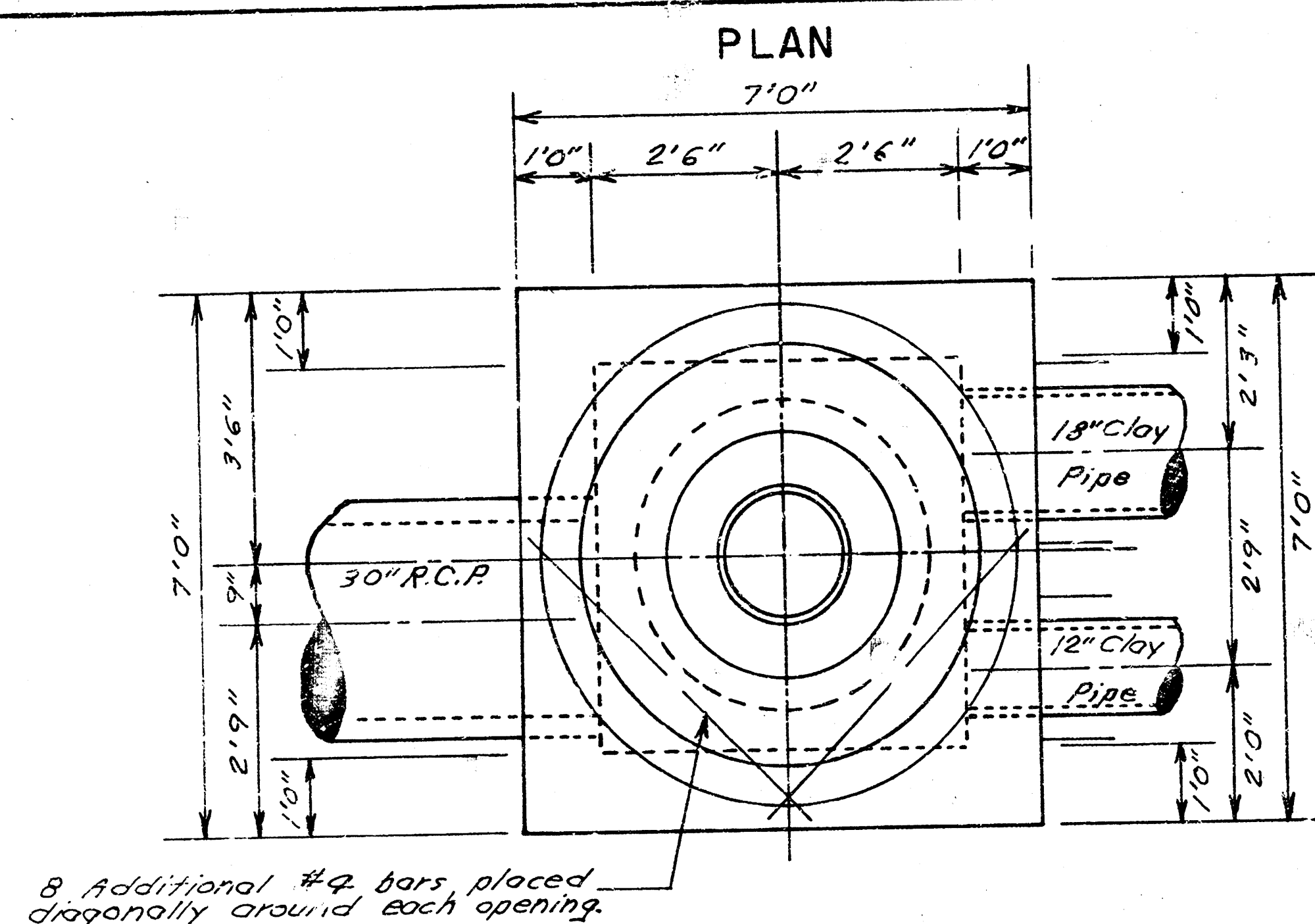


MANHOLE SCHEDULE PART II		
LOCATION	TYPE	LOCATION OF OPENINGS FOR FUTURE SEWERS.
1108	REINF CONC - Alternate 5' DIA, Type B	Block out for future 8" West.
4150	STRUCTURAL TEL - Alternate 5' DIA Type B	8" North E. 110.97
7125	STRUCTURAL TEL - Alternate 5' DIA Type B	8" North E. 110.94
9170	REINF CONC - Alternate 5' DIA Type B	8" North E. 110.78
11179	REINF CONC - Alternate 5' DIA Type B	
13100	REINF CONC - Alternate 5' DIA Type B	
13100	STRUCTURAL TEL - Alternate 5' DIA Type B	8" West E. 119.39
22150	STRUCTURAL TEL - Alternate 5' DIA Type B	8" West E. 119.45
20175	STRUCTURAL TEL - Alternate 5' DIA Type B	10" East E. 119.75 8" West E. 119.91
31125	STRUCTURAL TEL - Alternate 5' DIA Type B	8" West E. 120.18
35175	STRUCTURAL TEL - Alternate 5' DIA Type B	8" West E. 120.45
40131	REINF CONC - Alternate 5' DIA Type B	8" West E. 120.75
42101	STRUCTURAL TEL - OUTSIDE DROP Alternate 5' DIA Type B	8" West E. 120.80 - 10" East E. 121.88 10" East OUTSIDE DROP 120.70 E.
44100	STRUCTURAL TEL - Alternate 5' DIA Type B	8" West + East E. 120.94
45143	STRUCTURAL TEL - OUTSIDE DROP Alternate 5' DIA Type B	8" West E. 121.27 - 8" East E. 121.20 10" East OUTSIDE DROP E. 121.11

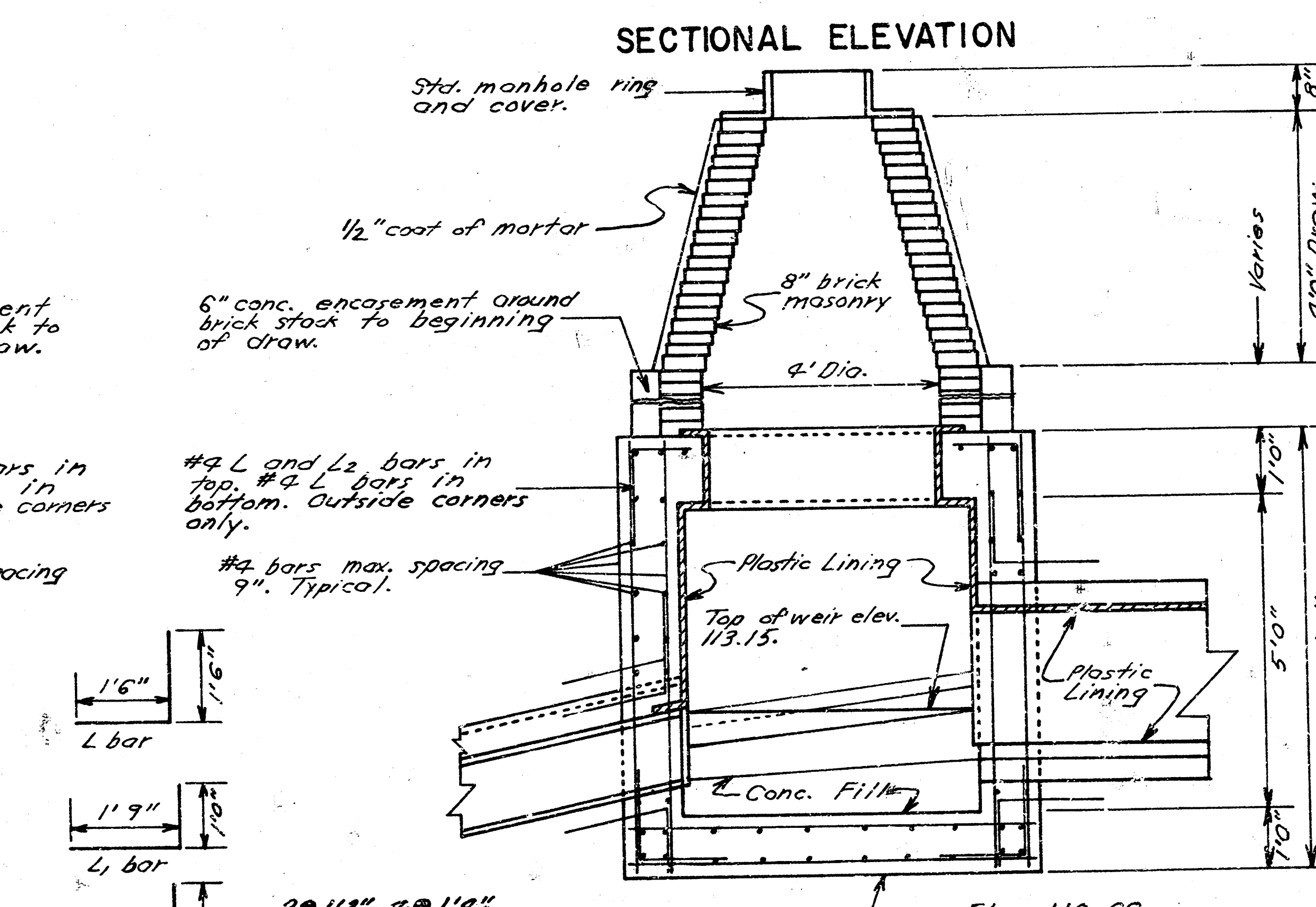
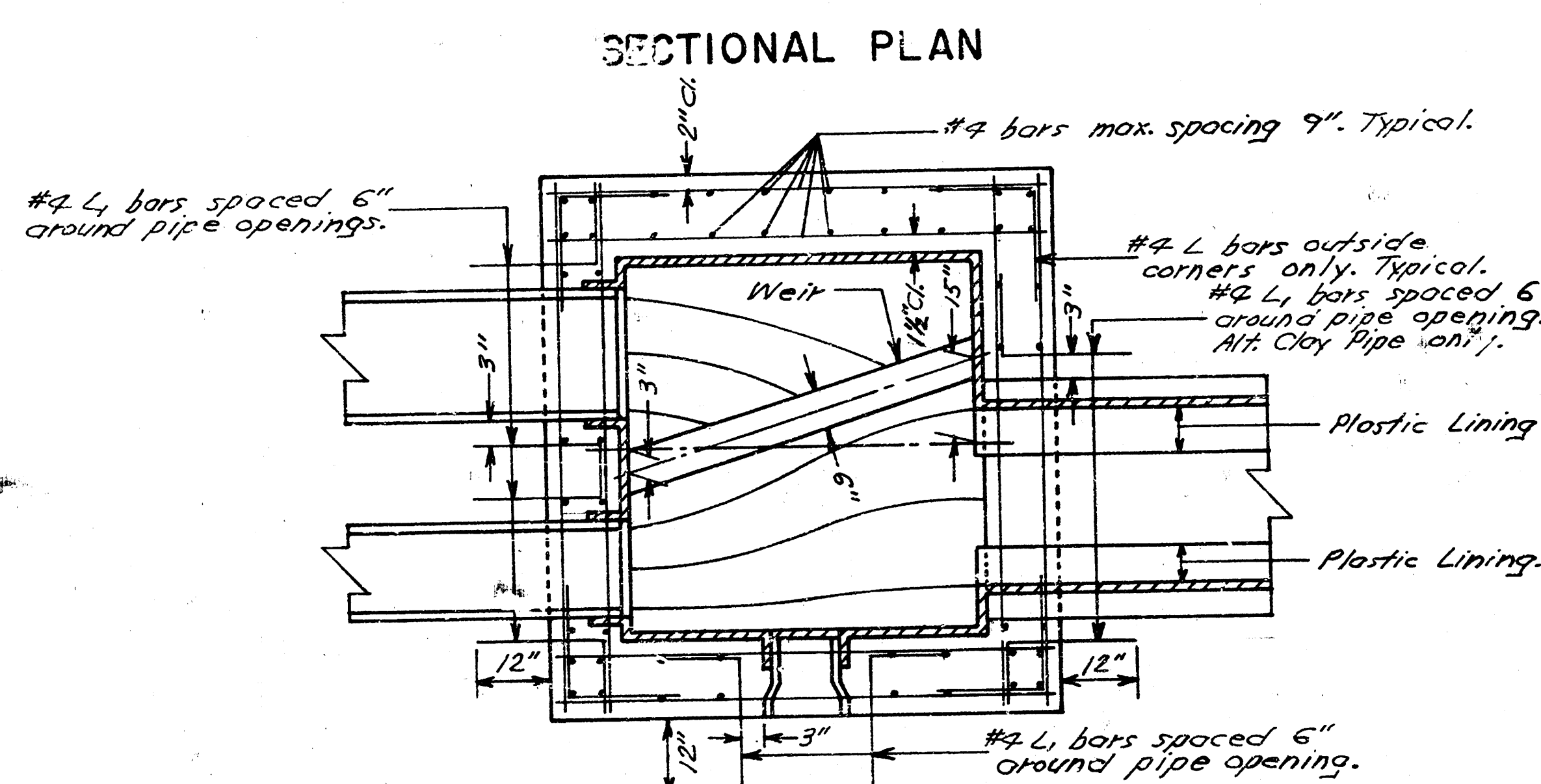
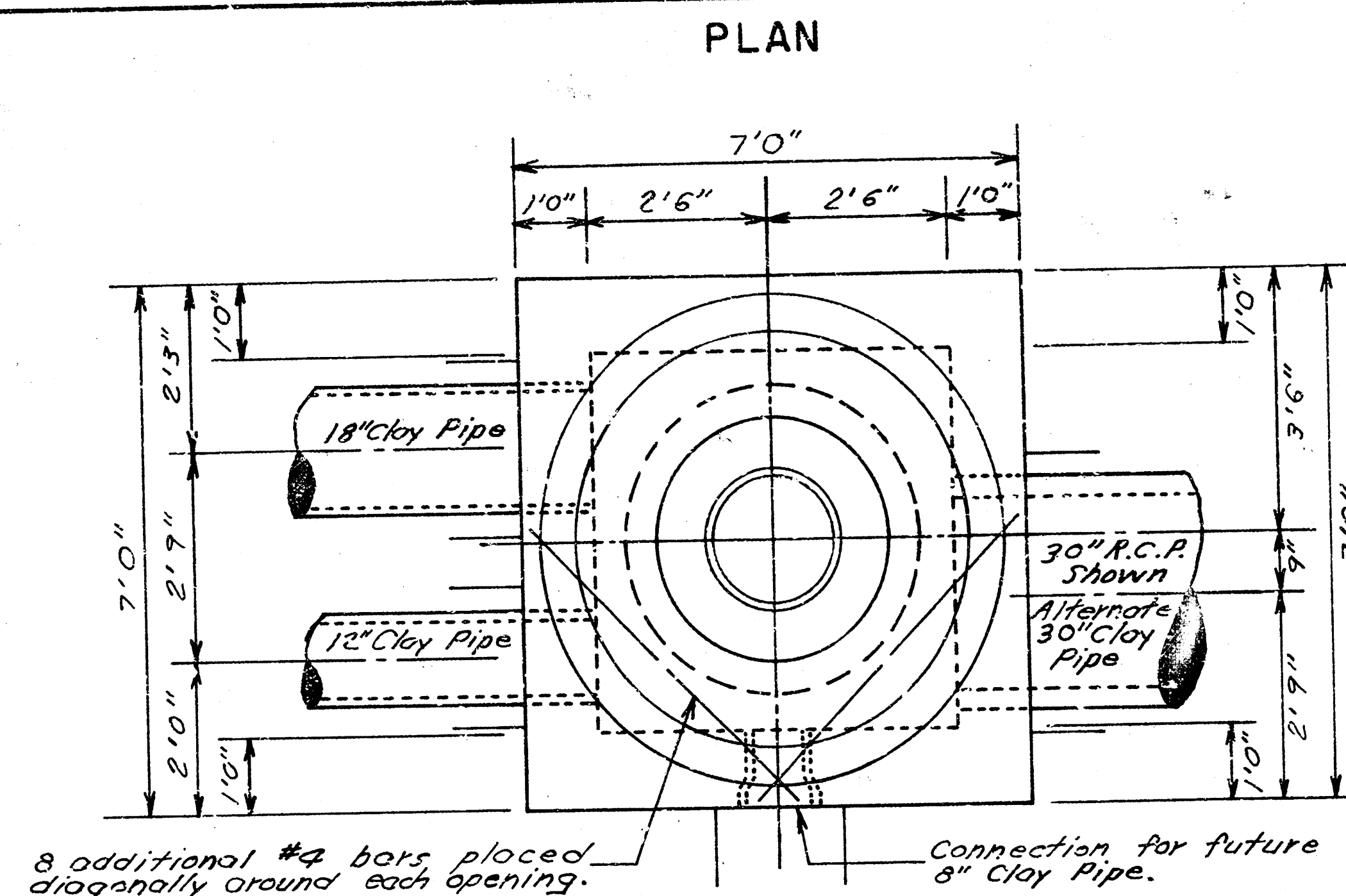
NOTE: ALL STUBS AND OPENINGS FOR FUTURE 8" SEWER CONNECTIONS SHALL BE INSTALLED TO PERMIT CONSTRUCTION OF THE FUTURE 8" SEWERS ON A 0.4% GRADE. ALL STUBS AND OPENINGS FOR FUTURE 10" SEWER CONNECTIONS SHALL BE INSTALLED TO PERMIT CONSTRUCTION OF THE FUTURE 10" SEWERS ON A 0.3% GRADE. ALL WORK AND MATERIALS NECESSARY TO CONSTRUCT OPENINGS OR STUBS FOR FUTURE SEWER CONNECTIONS WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK. ALTERNATE BRICK MANHOLES TO BE USED ONLY WITH REINFORCED CONCRETE ENCASED CLAY PIPE.



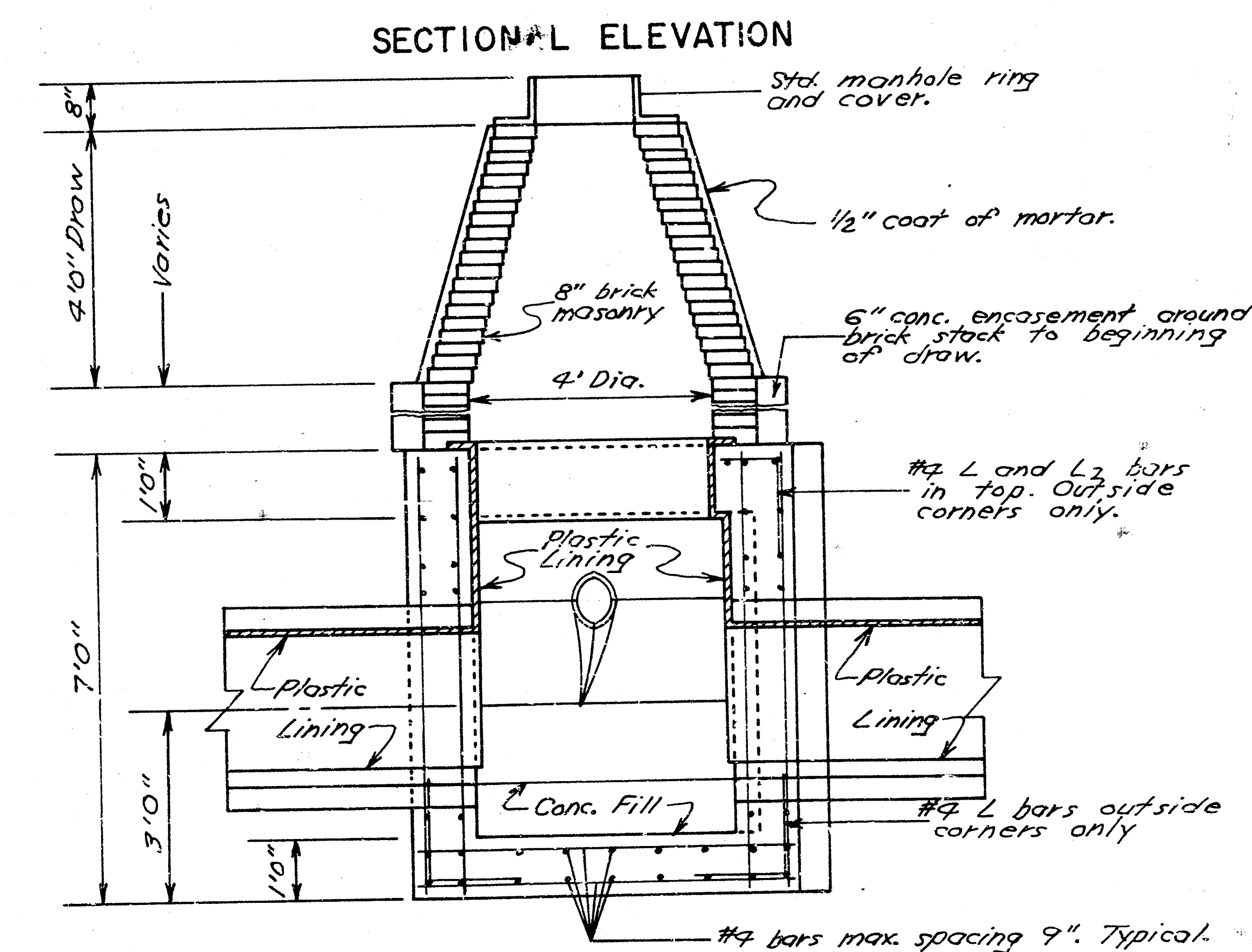
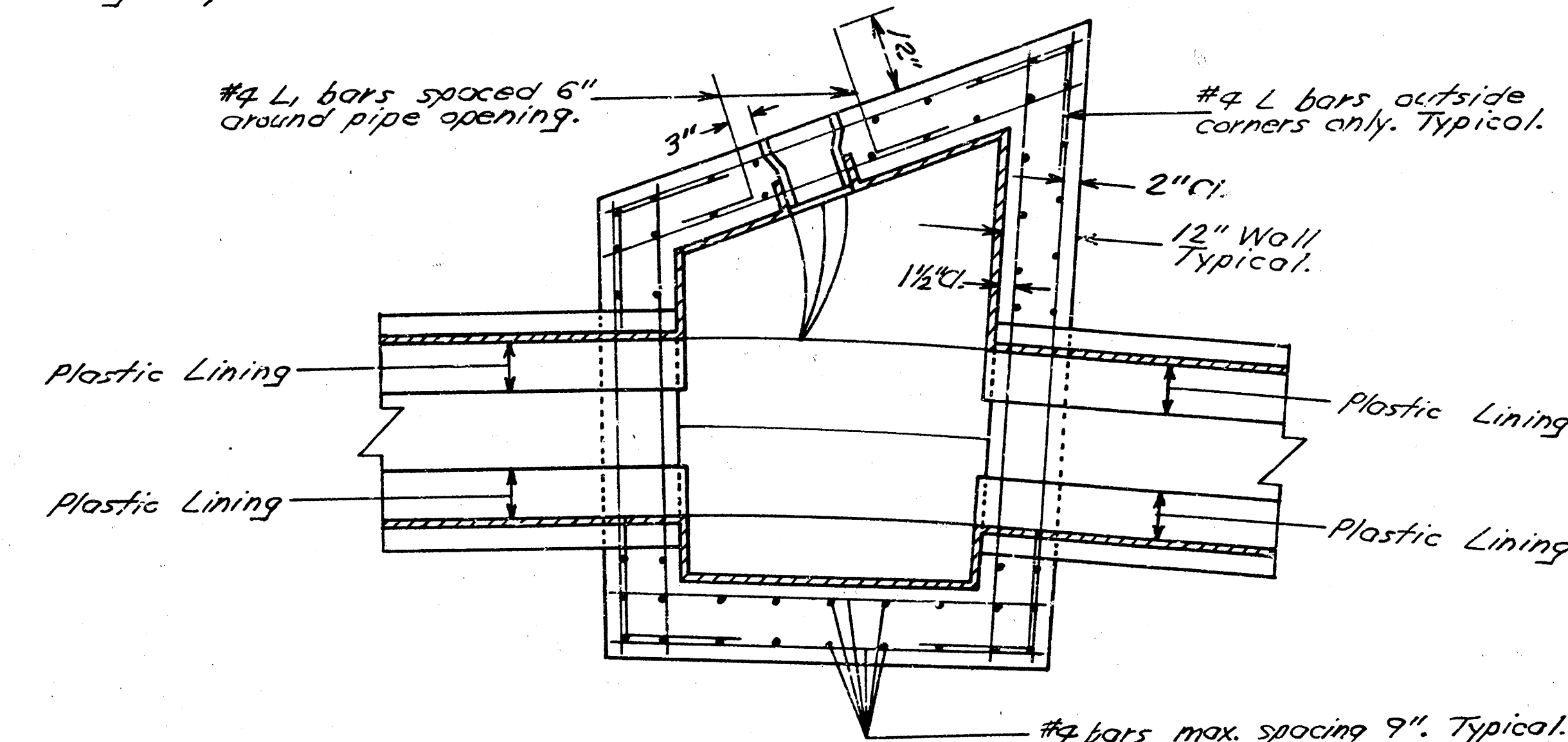
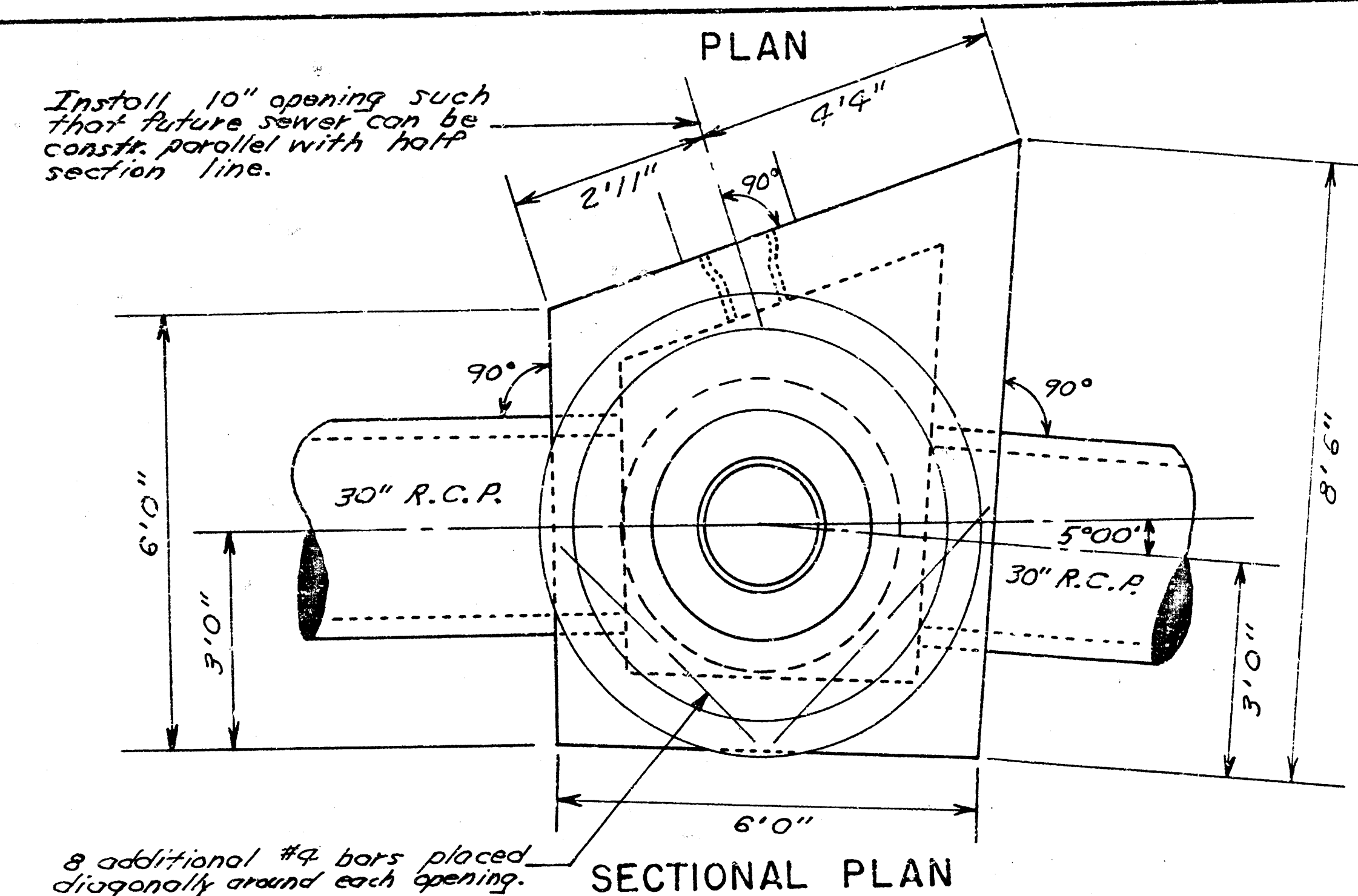
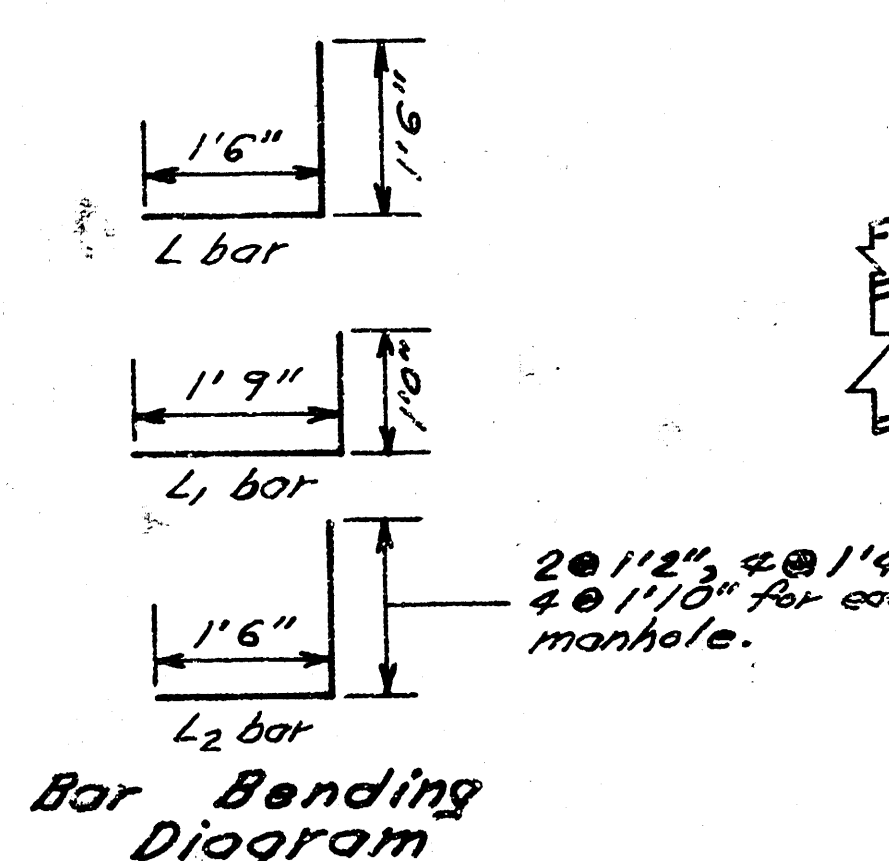
SPECIAL PRECAST CONC DROP MANHOLE
STA 42101 + STA 45143



**SPECIAL REINF. CONC. MANHOLE
STA. 2+00
PHASE I**

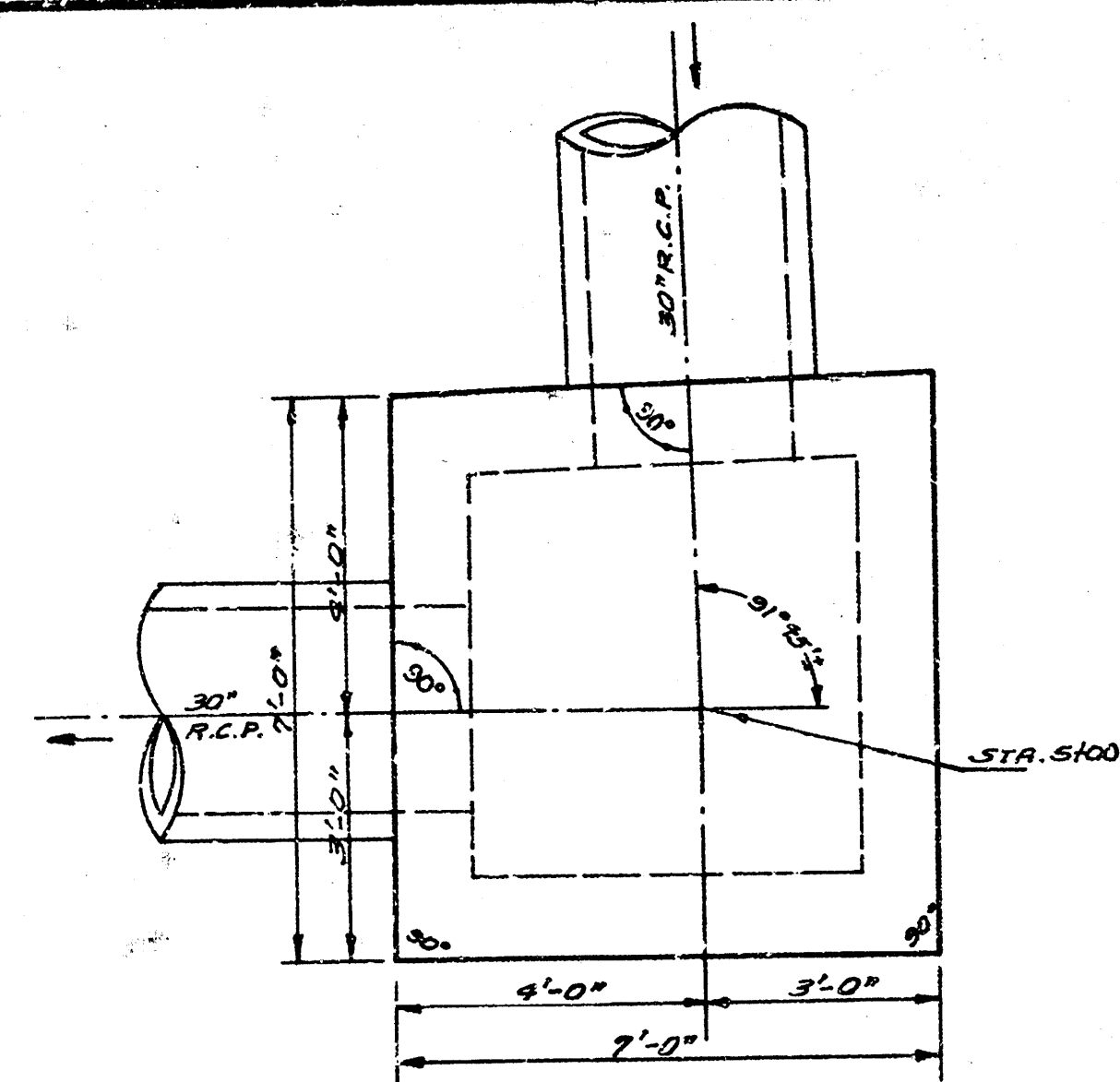


**SPECIAL REINF. CONC. MANHOLE
STA. 4+20
PHASE I**

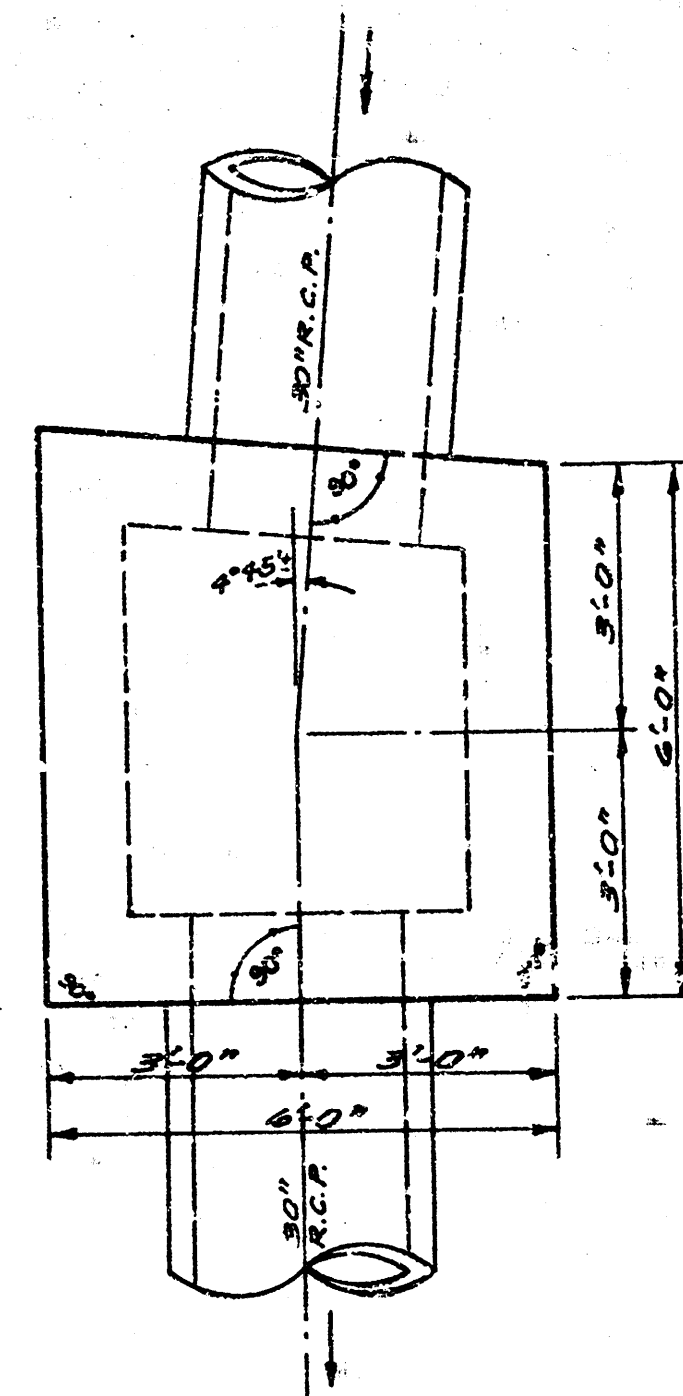


**SPECIAL REINF. CONC. MANHOLE
STA. 27+43
PHASE I**

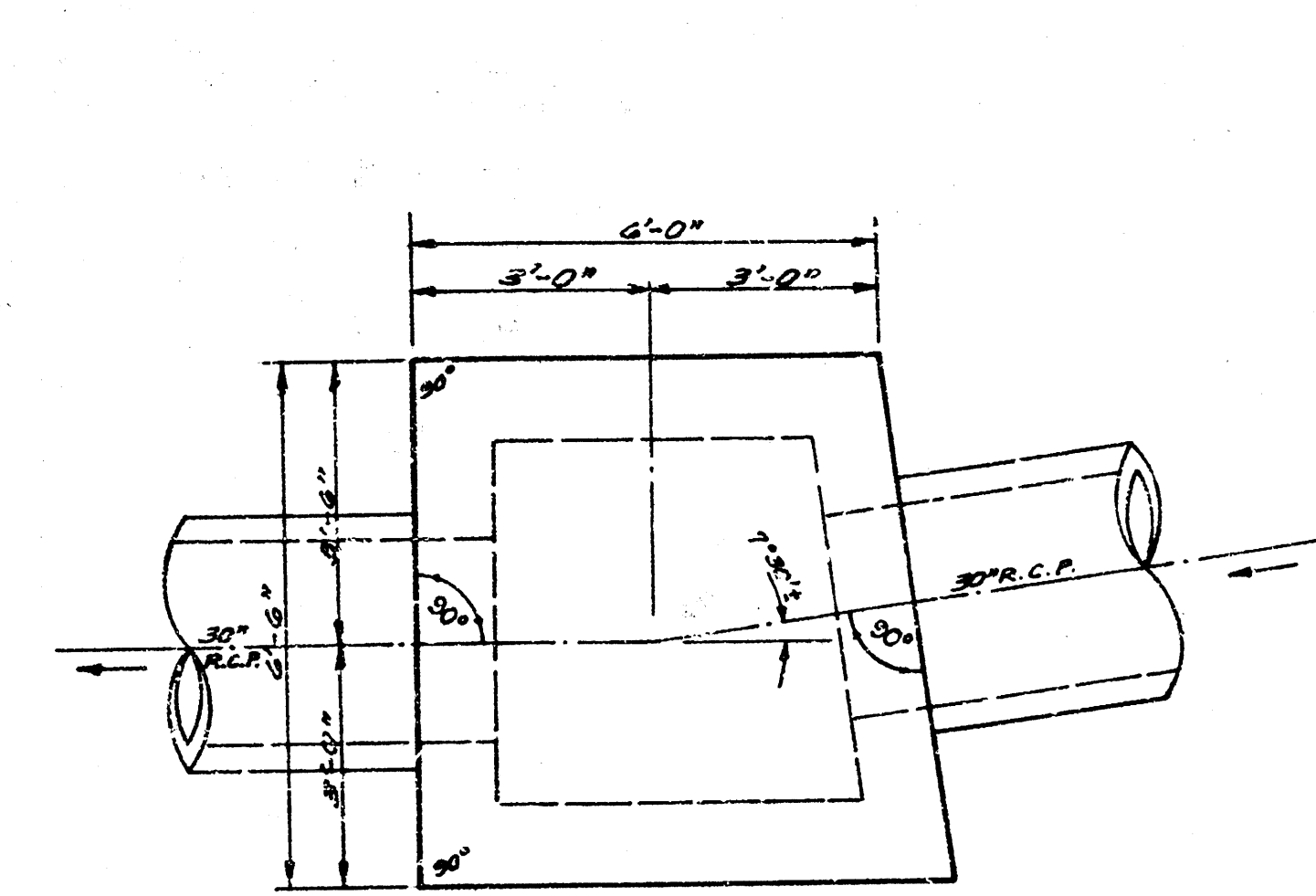
Note: Contractor may construct poured concrete manholes as shown, or at his option, the poured concrete manholes may be constructed to a minimum of one foot above water table elev. and conc. encasement omitted around brick stock.



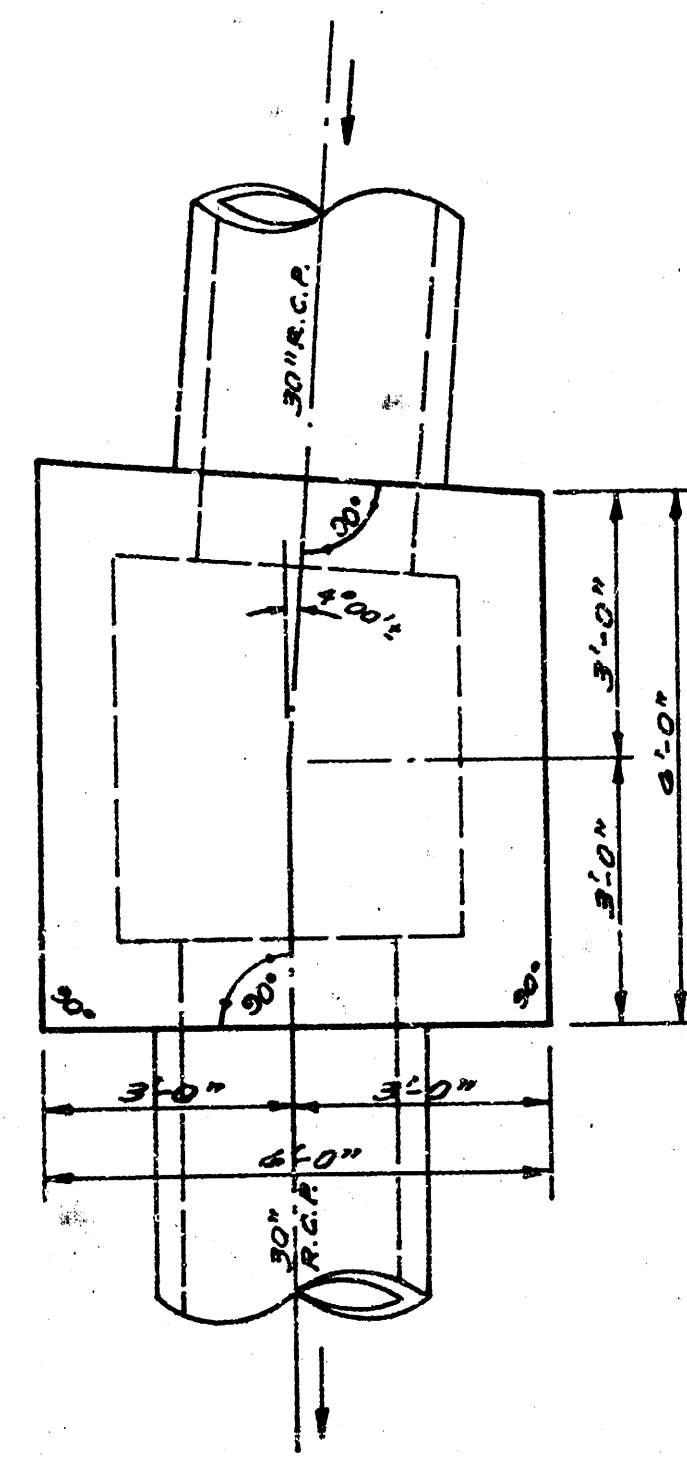
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 5100 (PHASE I).
Scale $\frac{3}{8}'' = 1'-0''$



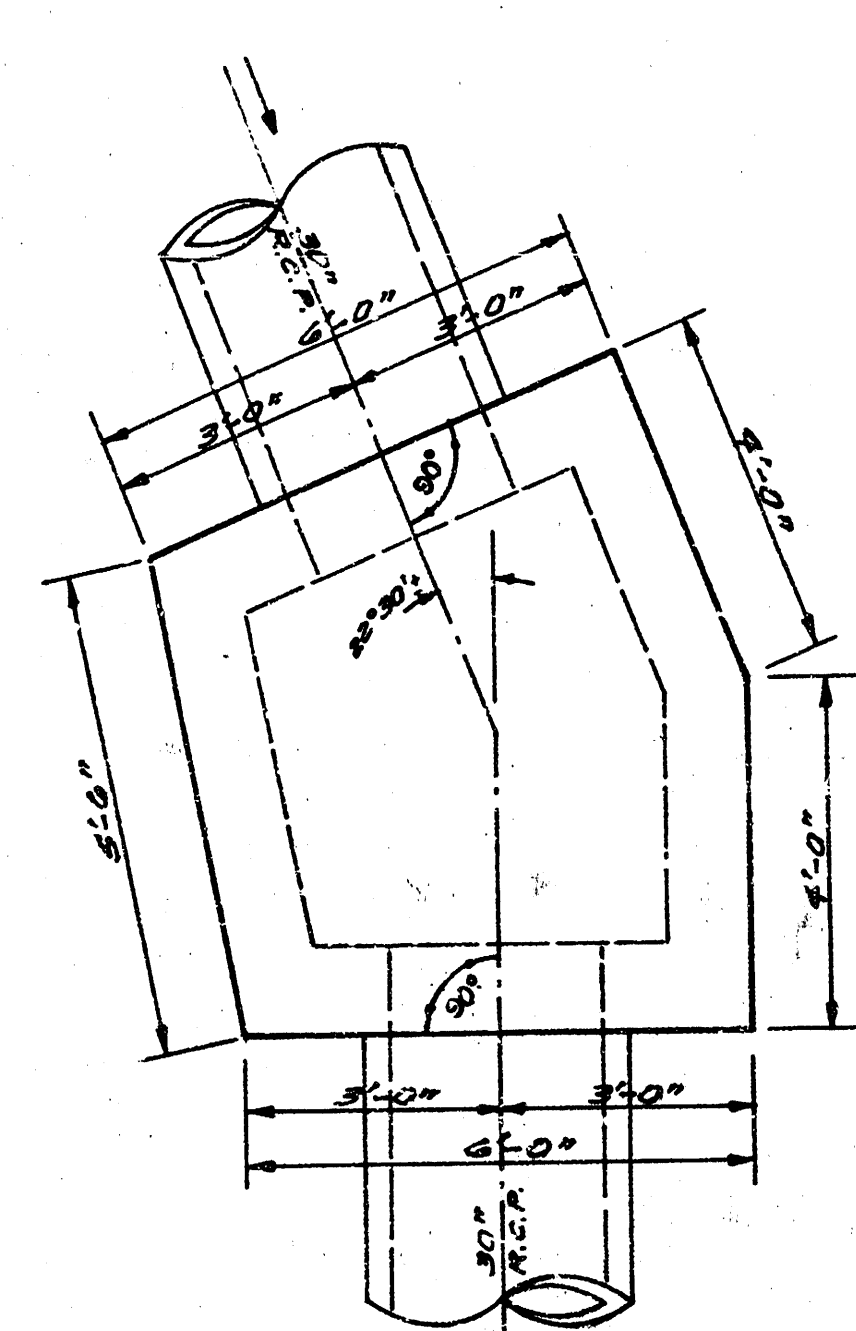
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 22154 (PHASE I).
Scale $\frac{3}{8}'' = 1'-0''$



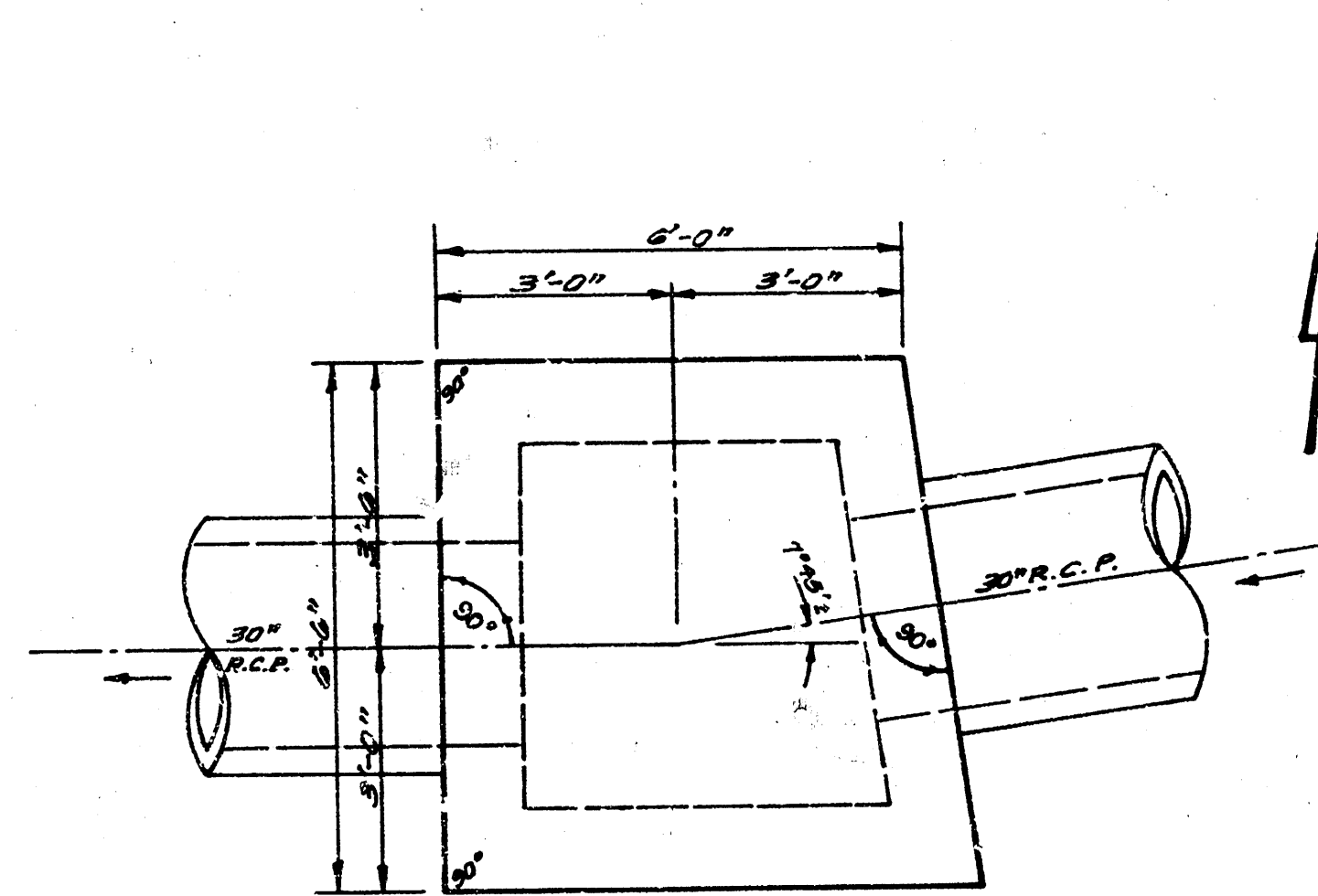
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 9170 (PHASE II).
Scale $\frac{3}{8}'' = 1'-0''$



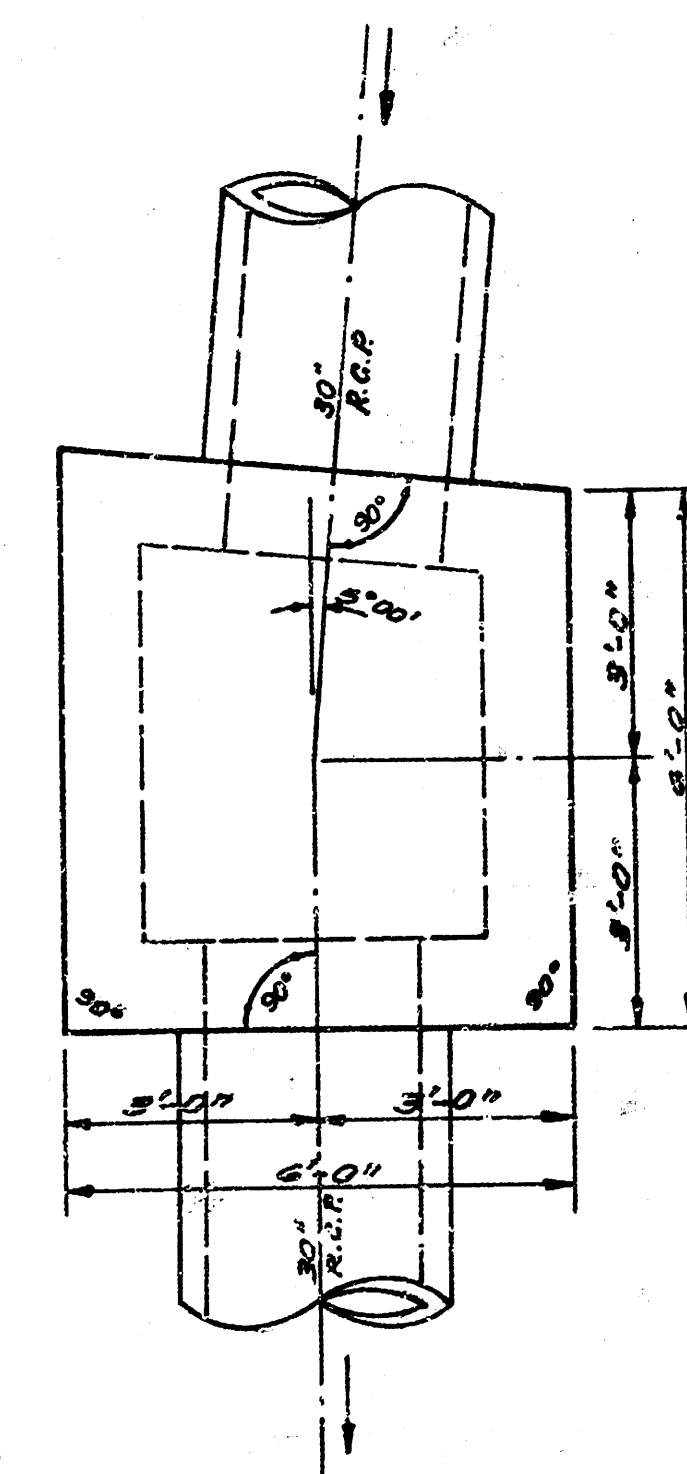
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 5194 (PHASE I) & STA. 10131 (PHASE II).
Scale $\frac{3}{8}'' = 1'-0''$



SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 32170 (PHASE I).
Scale $\frac{3}{8}'' = 1'-0''$

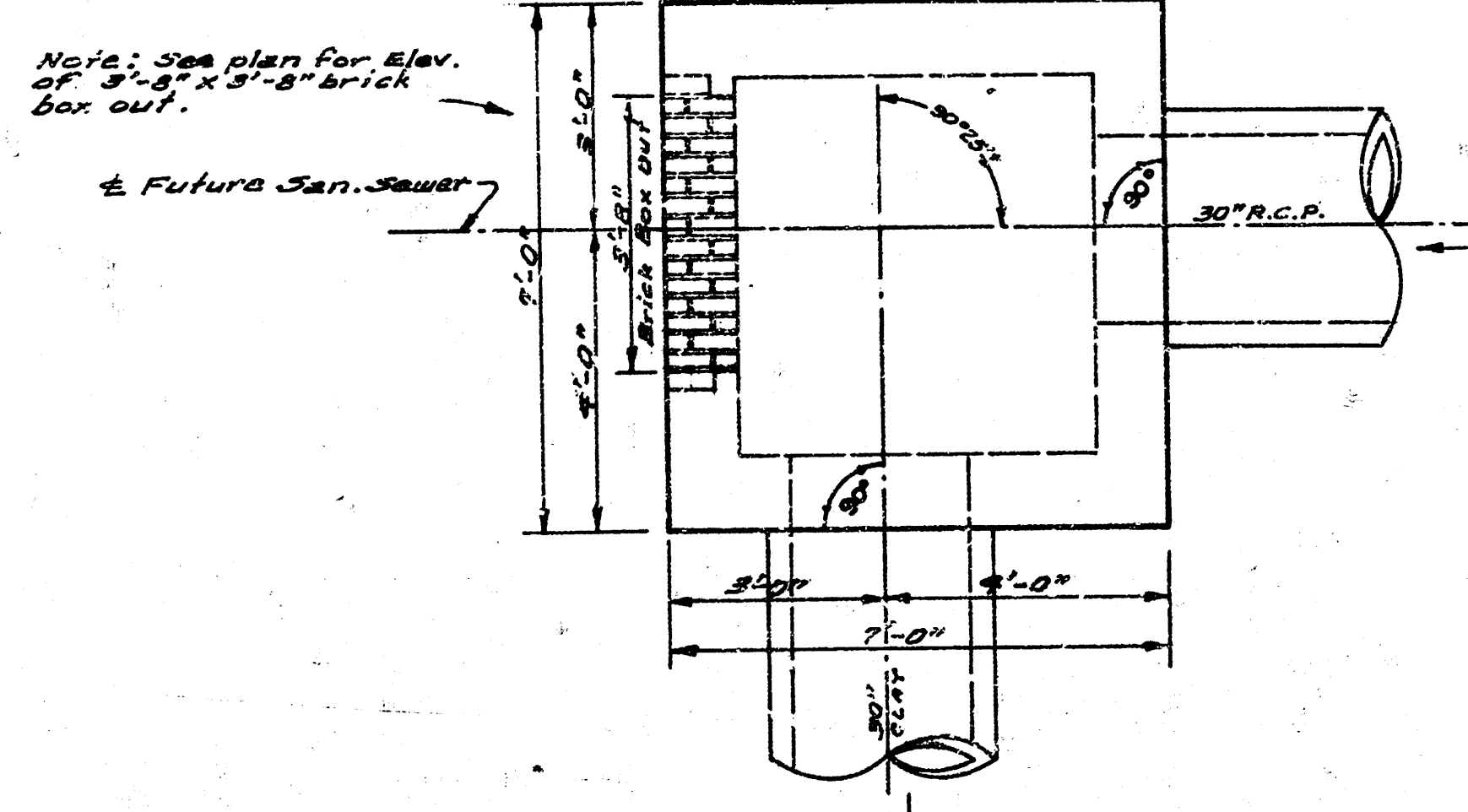


SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 11179 (PHASE II).
Scale $\frac{3}{8}'' = 1'-0''$

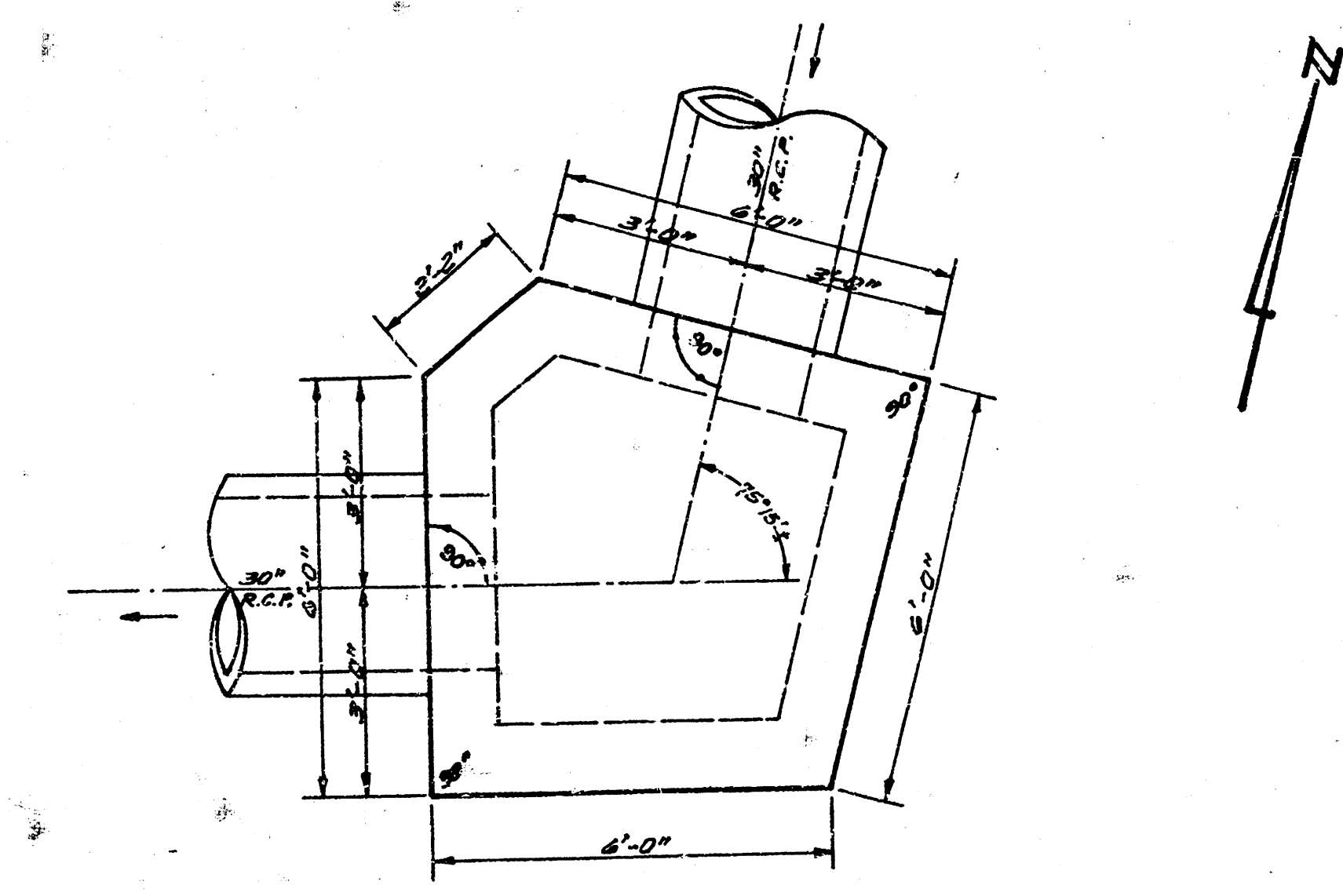


SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 11471 & STA. 17405 (PHASE II).
Scale $\frac{3}{8}'' = 1'-0''$

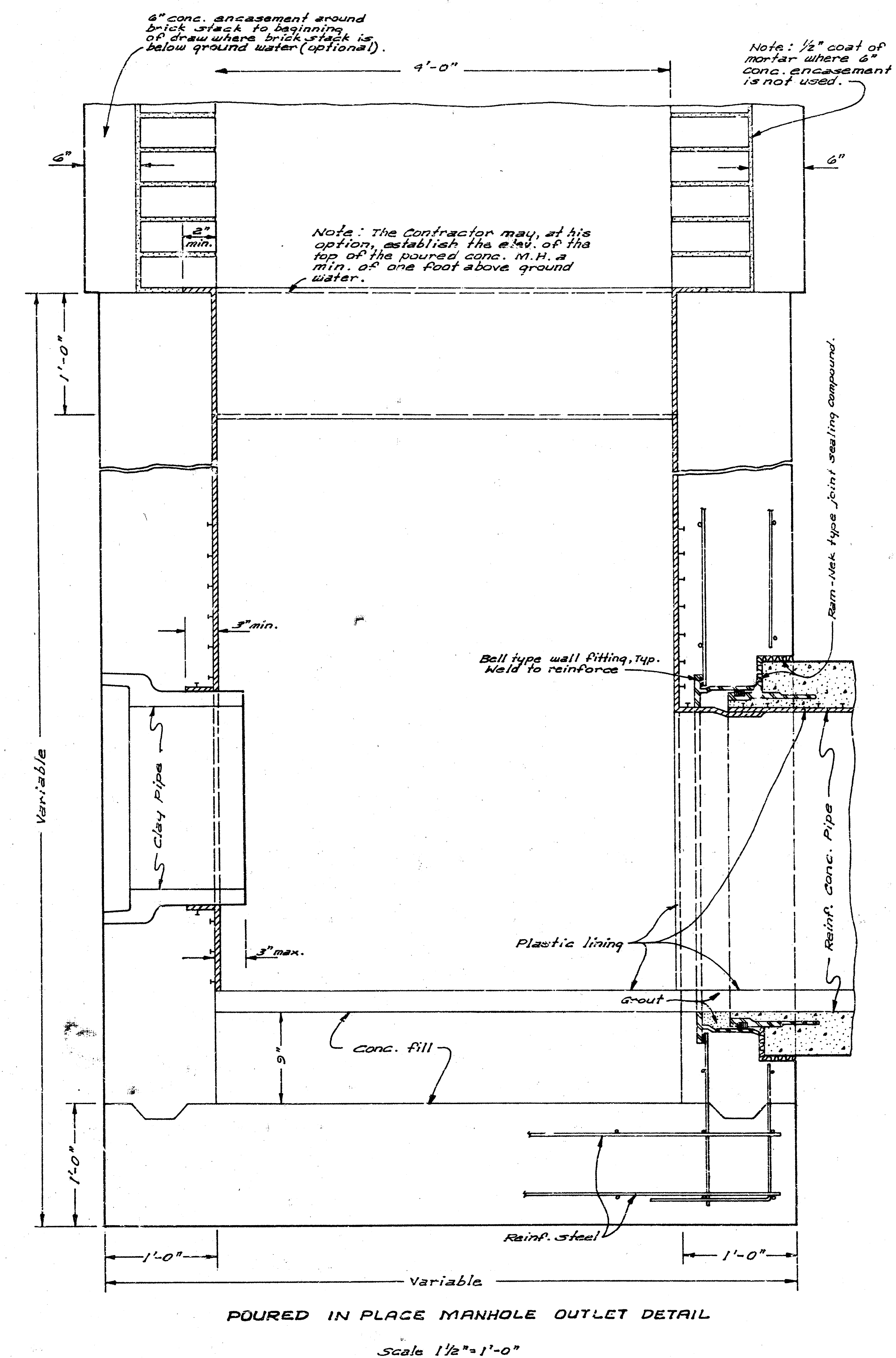
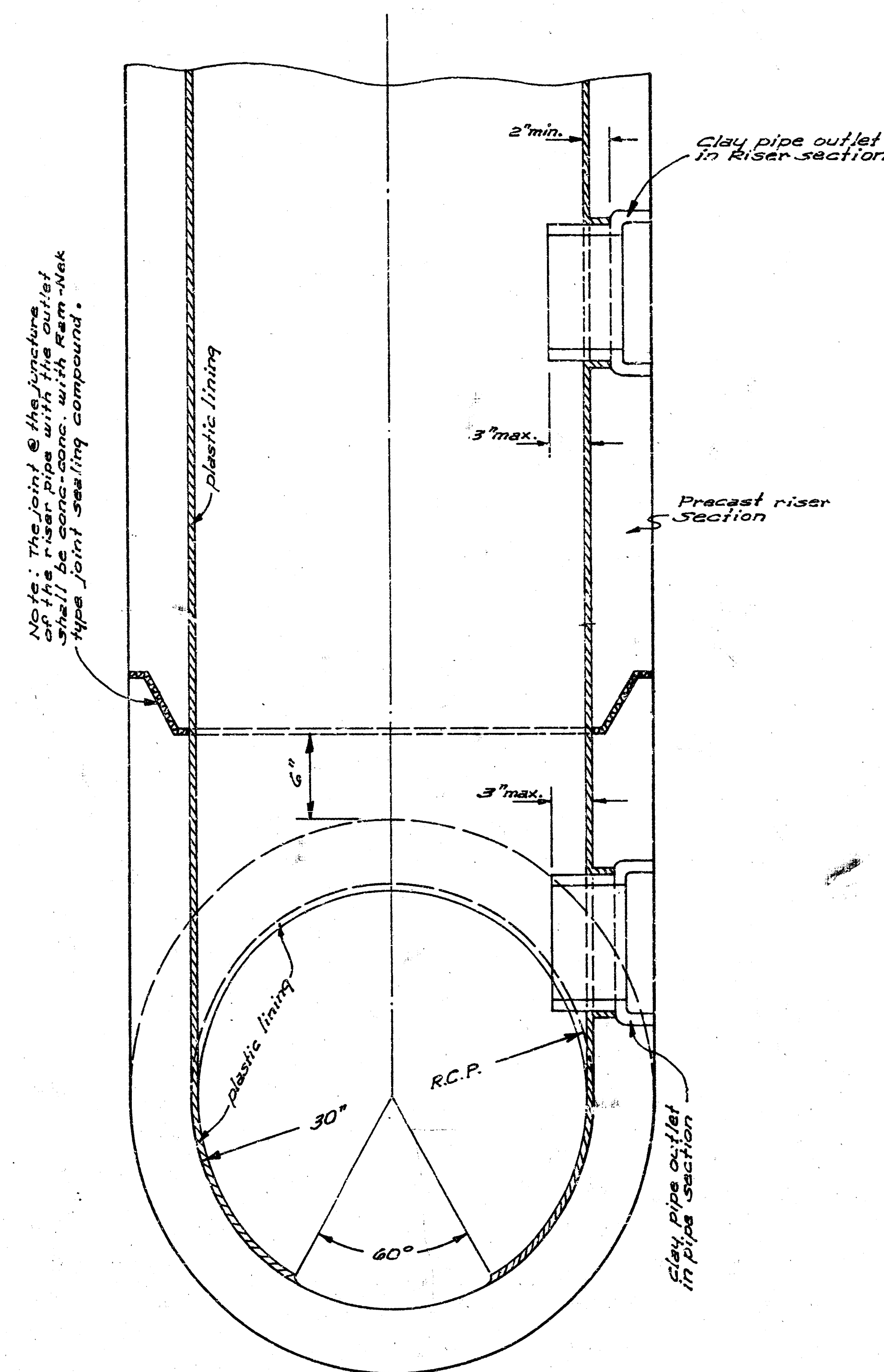
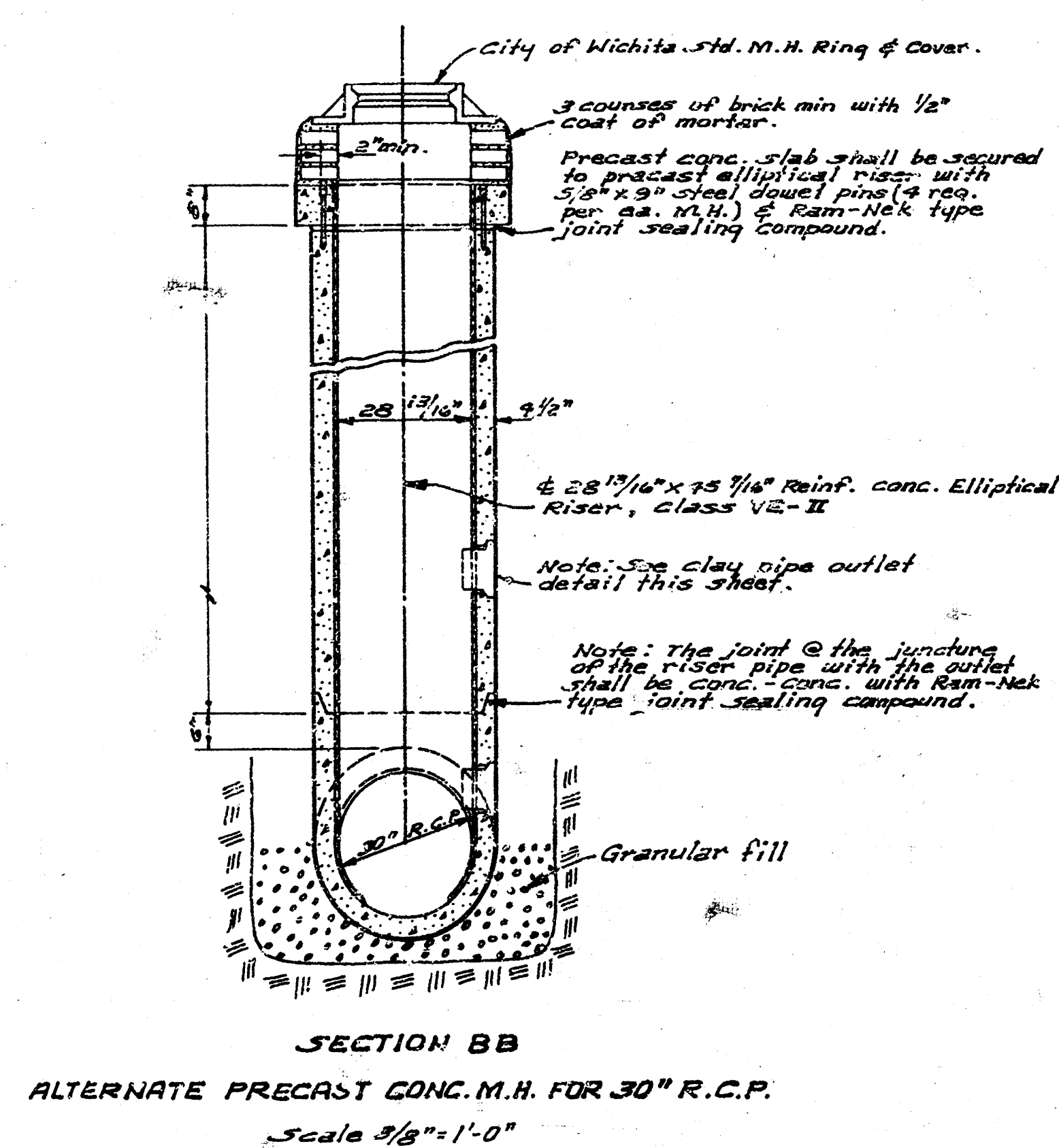
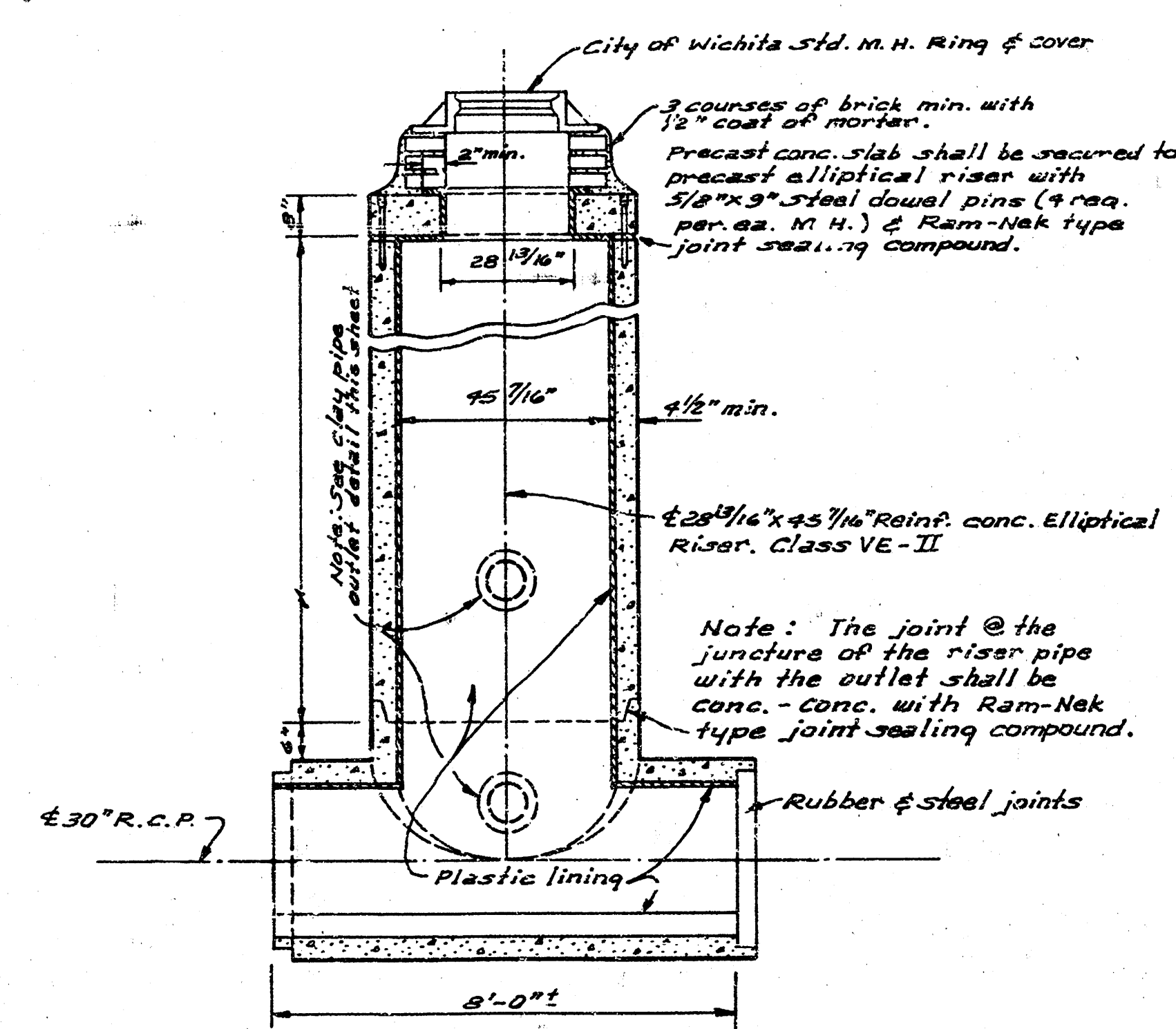
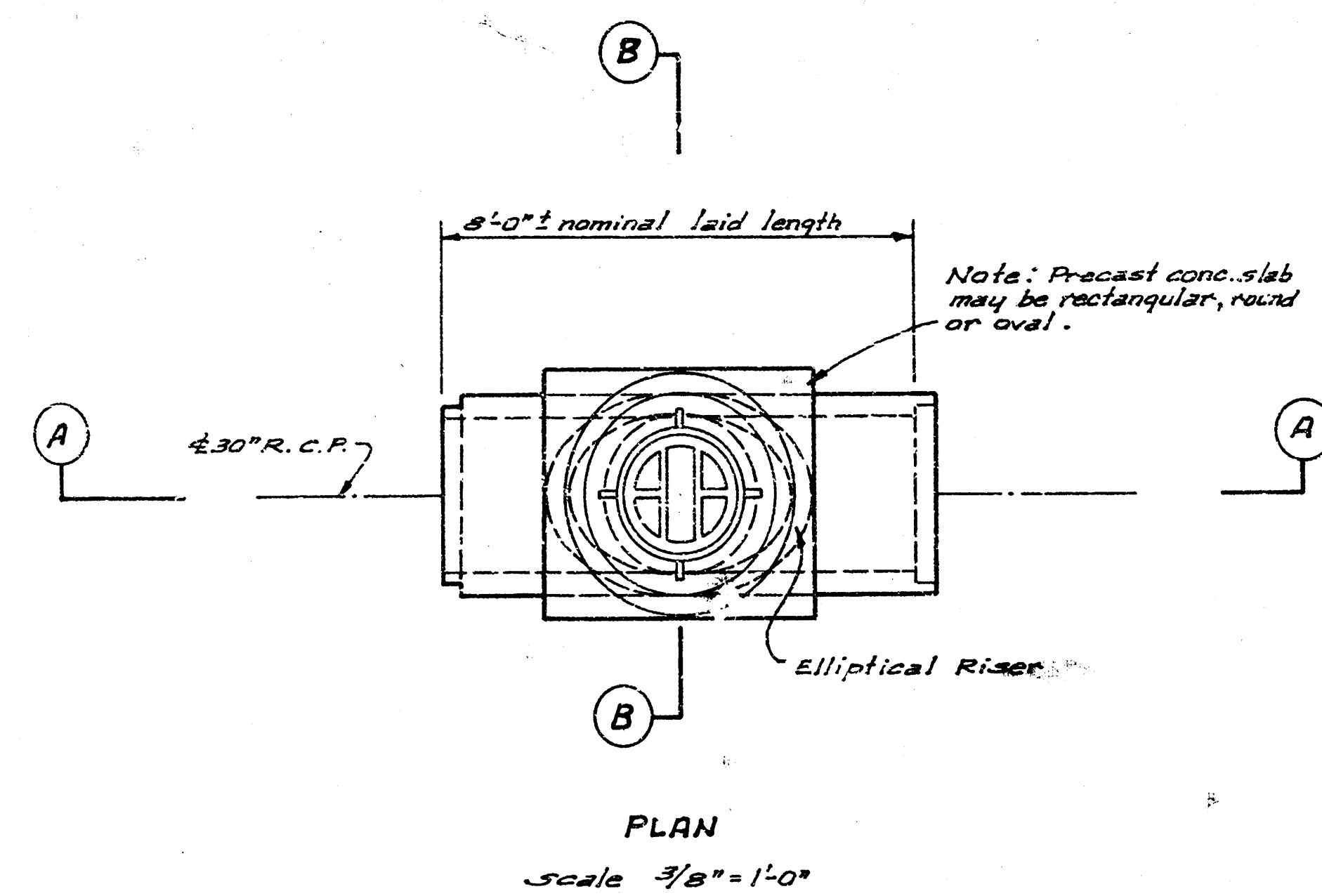
NOTE: SEE SHEET 19, STA. 27143 FOR REINF. CONC. MANHOLE DETAILS OF TYPICAL STEEL PATTERNS, WALL THICKNESS AND DIMENSIONS, BRICK STACK, ETC. FOR MANHOLES ON THIS SHEET.

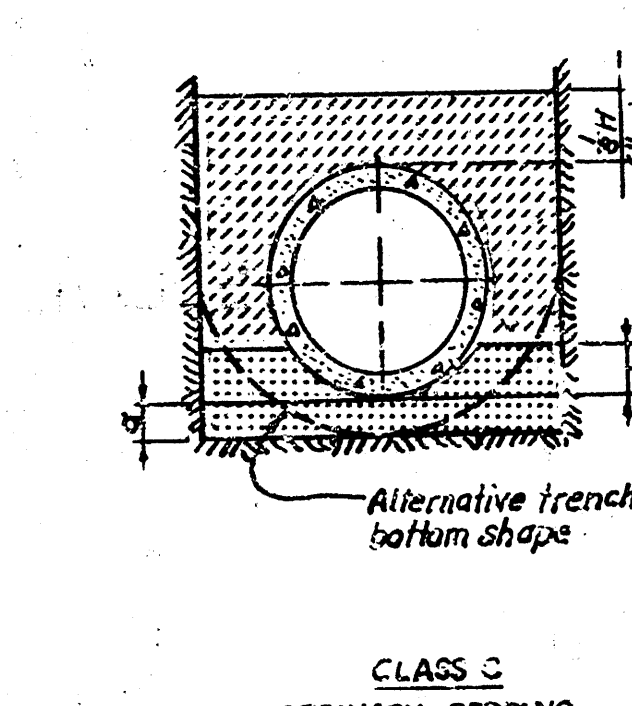
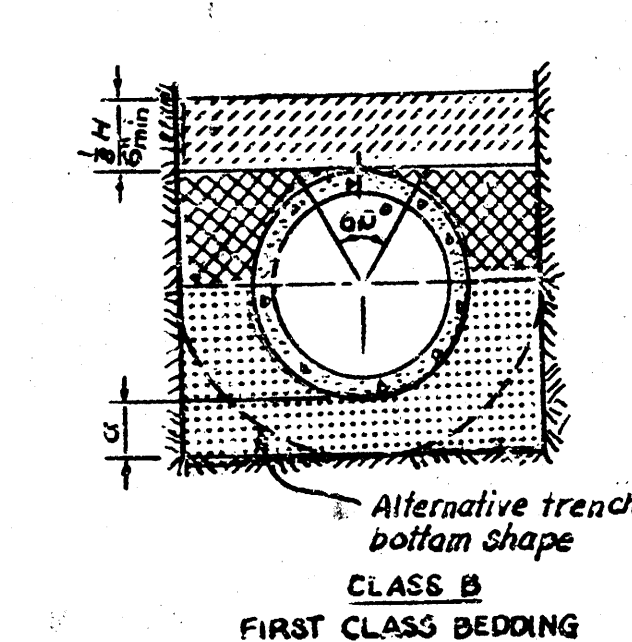
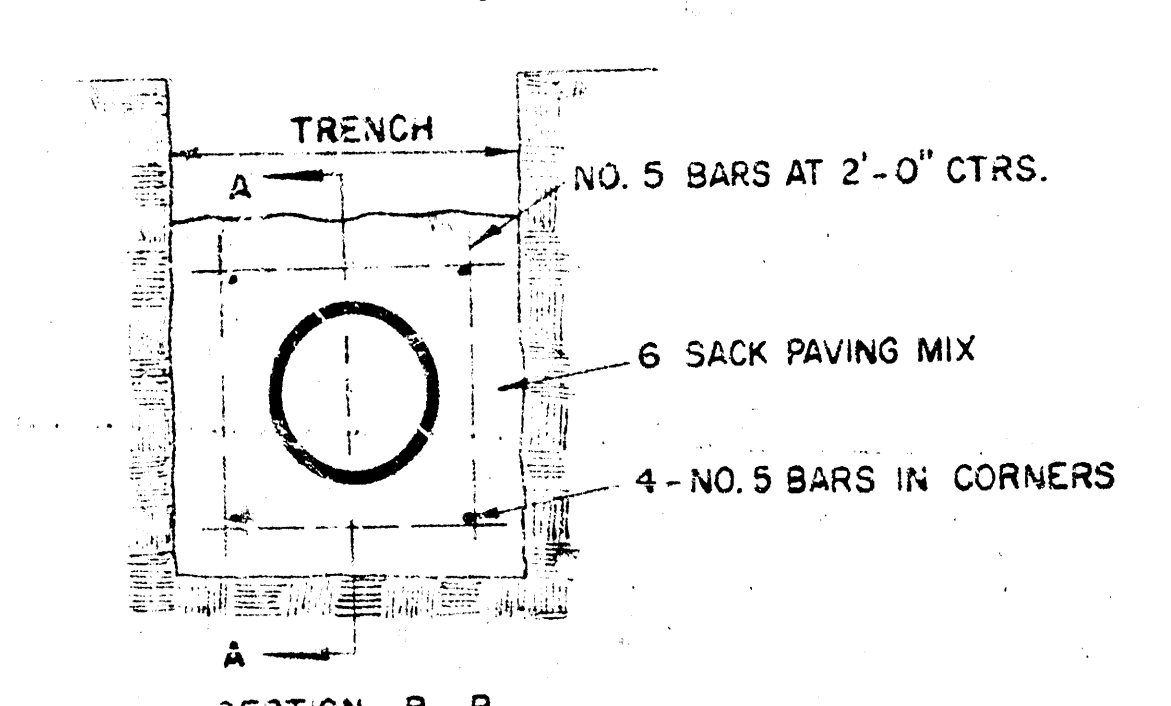
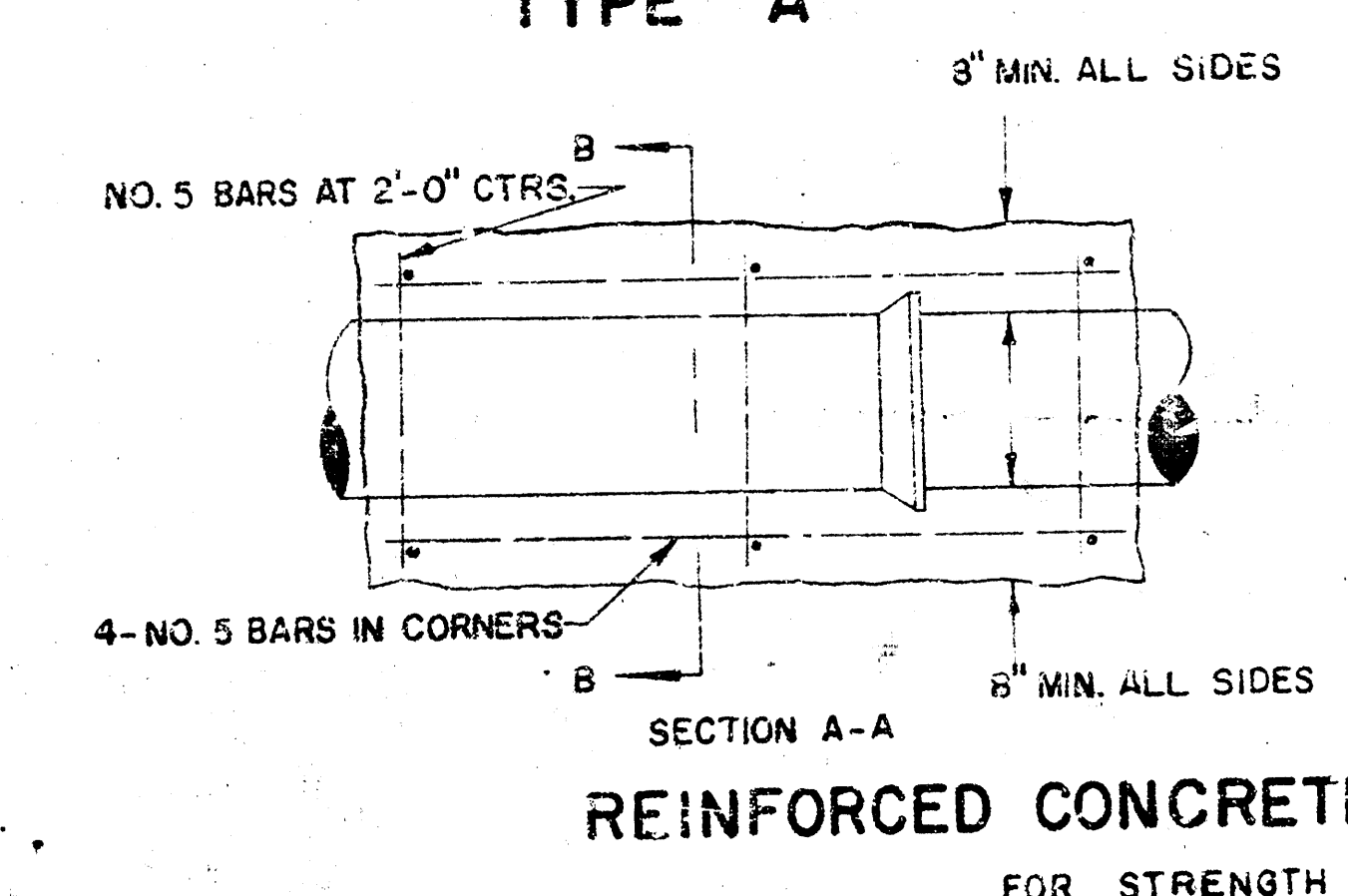
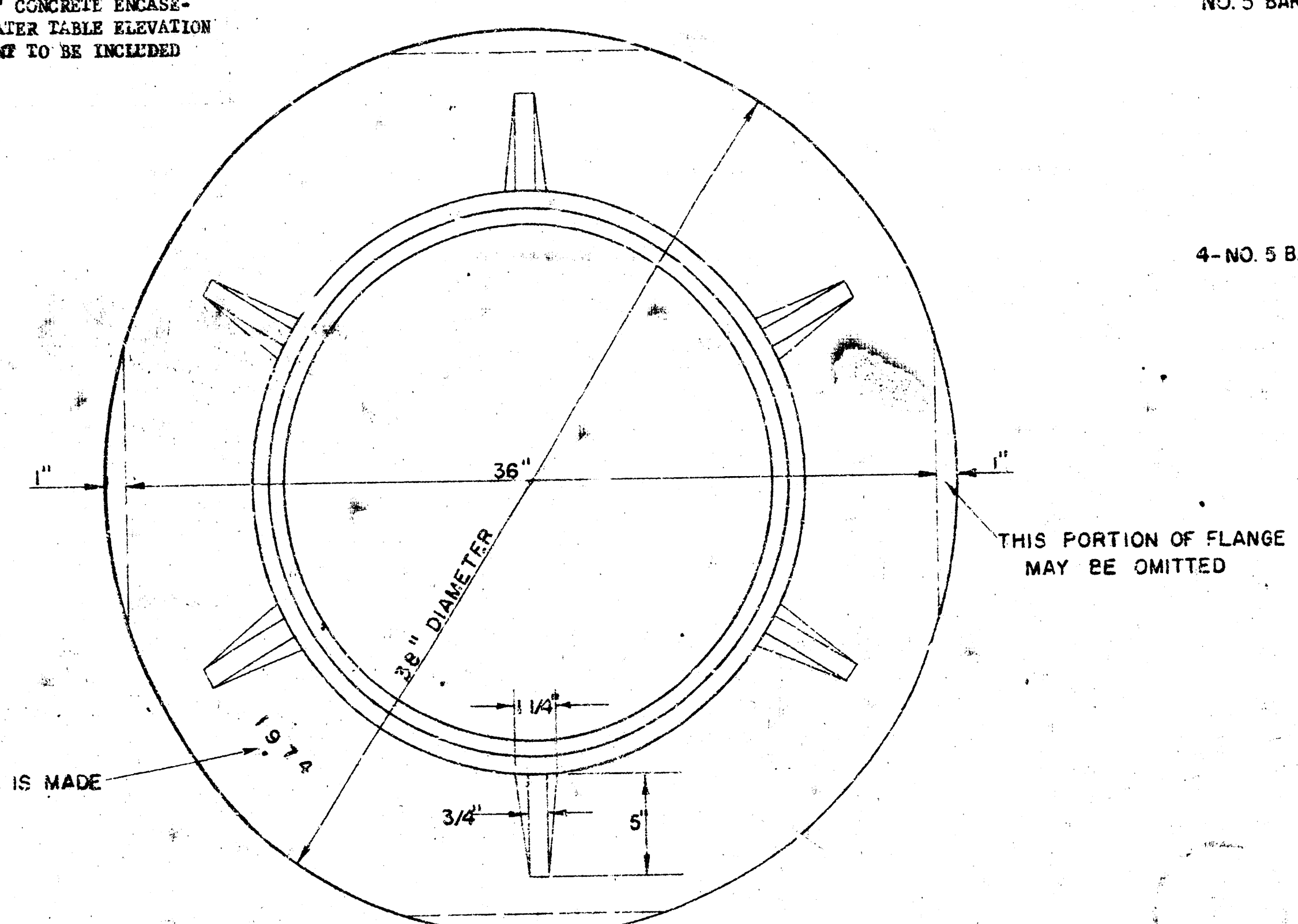
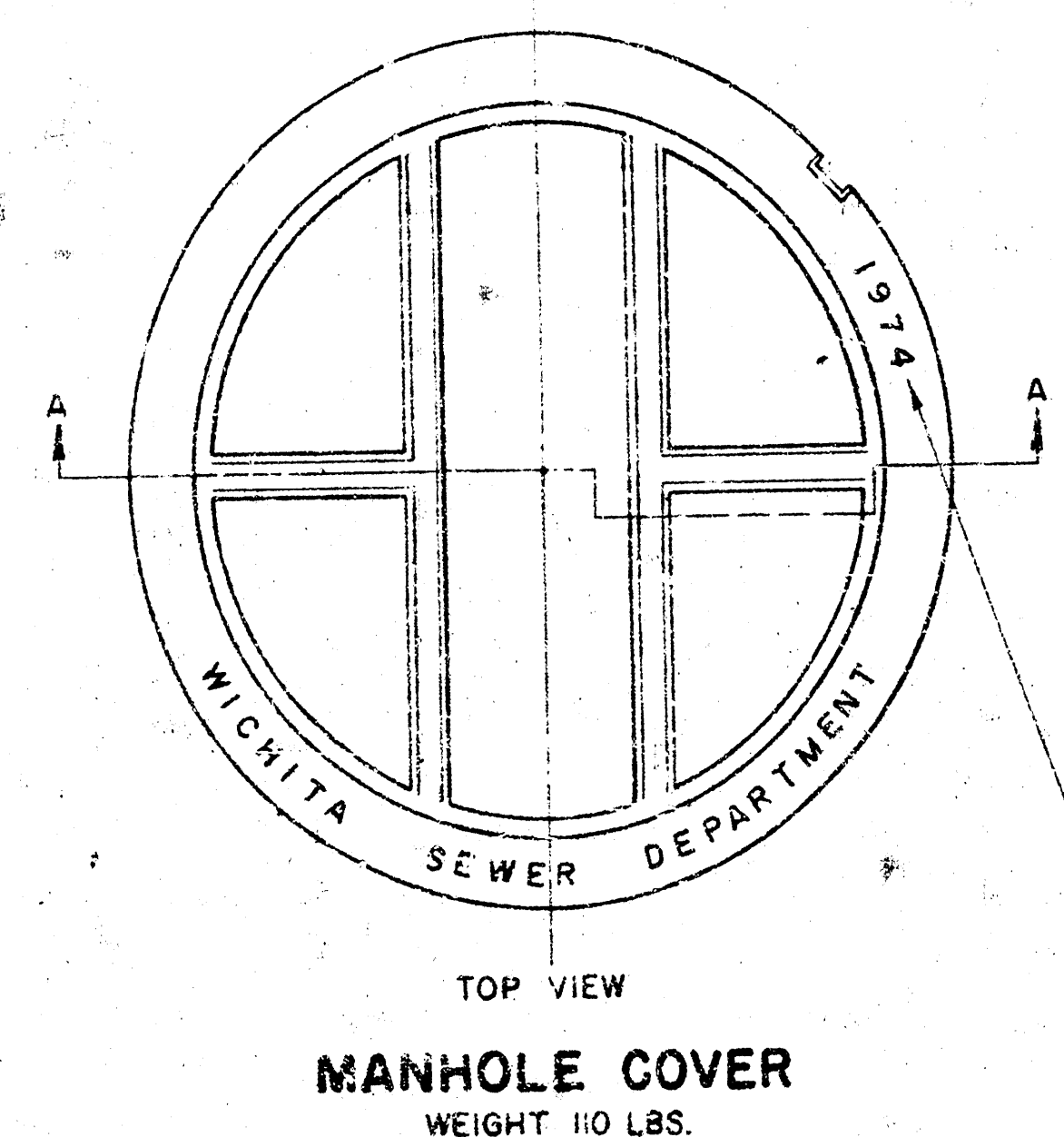
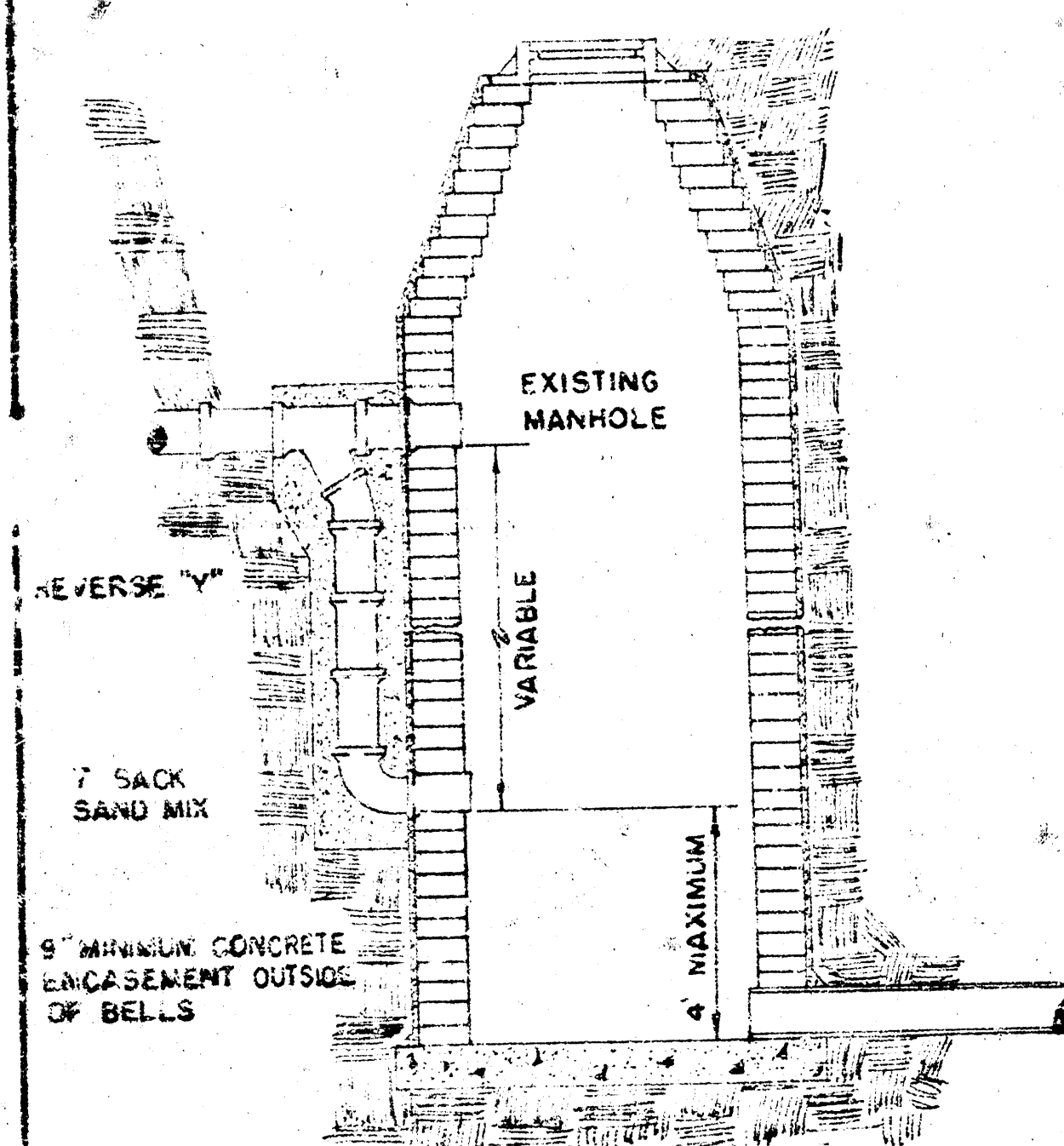
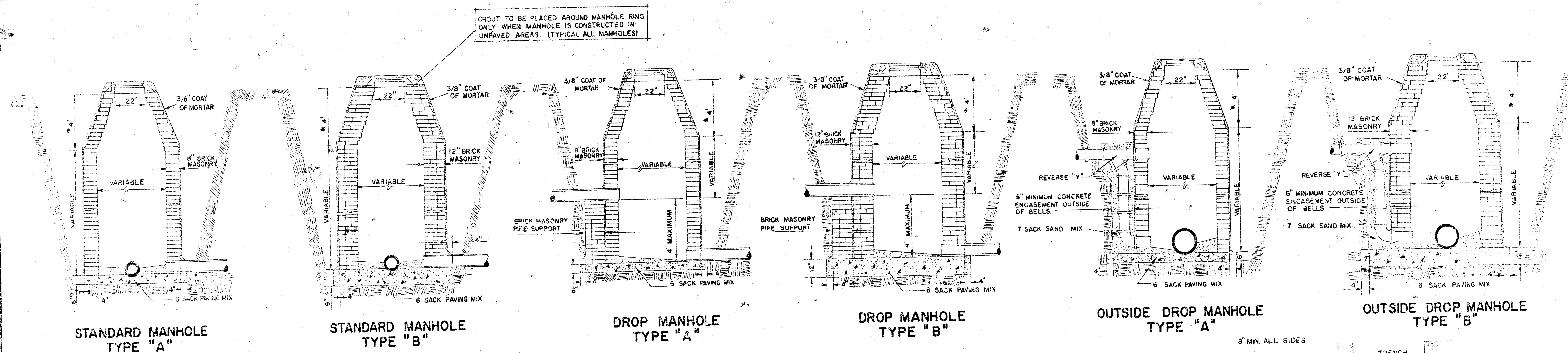


SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 1462 BR. STA. 1457 AN (PHASE II).
Scale $\frac{3}{8}'' = 1'-0''$



SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 13166 (PHASE II).
Scale $\frac{3}{8}'' = 1'-0''$





NOTES:
Granular fill to be crushed stone or pea gravel with not less than 95% passing $\frac{1}{8}$ " not less than 75% passing $\frac{1}{4}$ " and not less than 95% to be retained on a $\frac{1}{2}$ " to be placed in not more than 6 layers and compacted by slicing with a shovel.

Tamped backfill shall be finely divided, job excavated material free from debris, organic material, and stones, compacted to 95% maximum density as determined by ASTM Standard Method T-99. Granular fill may be substituted for all or part of tamped backfill.

Hand placed backfill shall be finely divided material free from debris and stones.

Bc Outside diameter of pipe
H Backfill cover above top of pipe
D Nominal pipe size
 α Fill below pipe (See table)

 Hand placed backfill
 Tamped backfill
 Granular fill
 Concrete

D	Min. Soil	Min. Rock
27" & smaller	3"	6"
30" to 60"	4"	9"
66" & larger	6"	12"

EMBEDMENTS FOR CONDUITS

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER
1974

MAIN 5, S. W. INT. SEWER
SHEET NO. 17 OF 17

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