

SHEET NO.	TOTAL SHEETS
1	7

PLANS FOR CONSTRUCTION OF PRIVATE STORM WATER SEWER

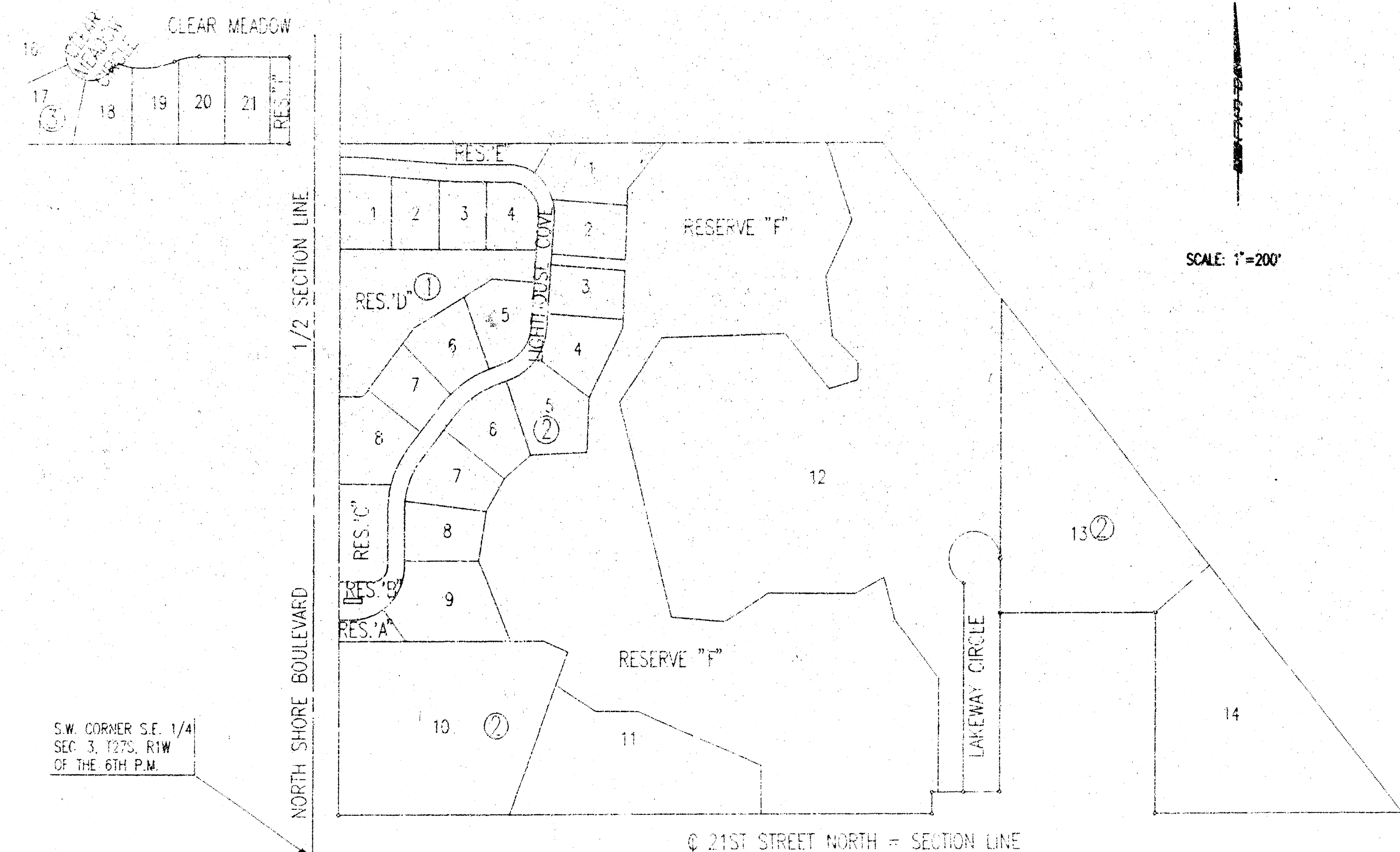
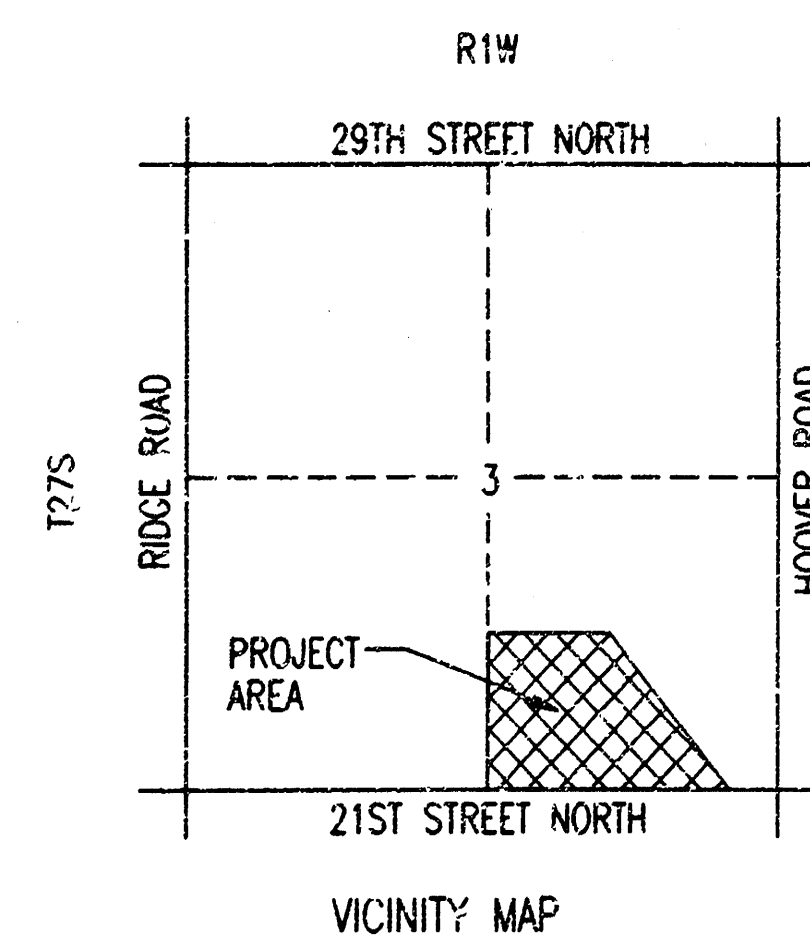
TO SERVE
LOT 13, BLOCK 2, HORSESHOE LAKE ADDITION
CITY OF WICHITA PRIVATE PROJECT NO. 616PPS (607861)

INDEX OF SHEETS

1. TITLE SHEET
2. PLAN
3. PLAN AND PROFILE
- 4.-7. DETAILS

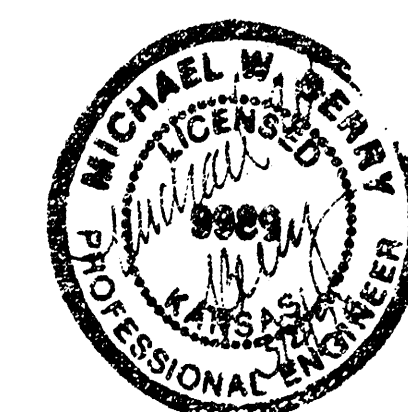
PROJECT SURVEY CONTROL

- B.M. - 608 NAIL IN N.E. FACE OF 12' ELM AT N.W. CORNER LOT 14, BLOCK 2. ELEV.=134.11
- B.M. - RAILROAD SPIKE IN WEST FACE OF 12' ELM 45' S.S.E. OF THE NORTH CORNER OF LOT 13, BLOCK 2. ELEV.=137.88



GENERAL NOTES

1. CONSTRUCTION STAKING TO BE PROVIDED BY THE CONTRACTOR.
2. DEVELOPER TO PROVIDE RIGHT-OF-ACCESS.
3. CONTRACTOR IS RESPONSIBLE FOR CONTACTING KANSAS ONE-CALL AND/OR UTILITY COMPANIES TO OBTAIN FIELD LOCATES. CONTRACTOR IS RESPONSIBLE FOR WORKING AROUND EXISTING UTILITIES IN PLACE. IN THE EVENT OF CONFLICT WITH THE PROPOSED IMPROVEMENTS, CONTACT THE DEVELOPER IMMEDIATELY TO MAKE ARRANGEMENTS TO RESOLVE THE CONFLICT.
4. UTILITIES AND THEIR APPURTENANCES, WHERE FOUND, ARE SHOWN ON THE DRAWING, BUT THE LOCATIONS SHOWN ARE NOT GUARANTEED AND OTHER UNDERGROUND UTILITIES MAY BE ENCOUNTERED.
5. RCP SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS FOR STORM SEWERS AND DRAINAGE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY CONDITIONS, INCLUDING, BUT NOT LIMITED TO, SHEETING AND/OR SHORING FOR TRENCH EXCAVATIONS AND BARRICADE(S)/BARRIER(S) TO PREVENT UNAUTHORIZED ENTRY.
7. CONSTRUCTION IN OR ALONG PUBLIC STREETS SHALL BE MARKED, SIGNED AND/OR BARRICADED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE WICHITA BARRICADE MANUAL.
8. CONTRACTOR'S WORK SHALL BE GUARANTEED FOR ONE YEAR AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP.
9. DISTURBED RIGHT-OF-WAY TO BE SEED BY THE CONTRACTOR.



FEBRUARY, 1996

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____
STORM SEWERS 1/2 RH 3/4 196
DRIVEWAY APPROACHES _____
WATER MAINS _____
PAVING _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION. NO WORK SHALL BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

HORSESHOE LAKE

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

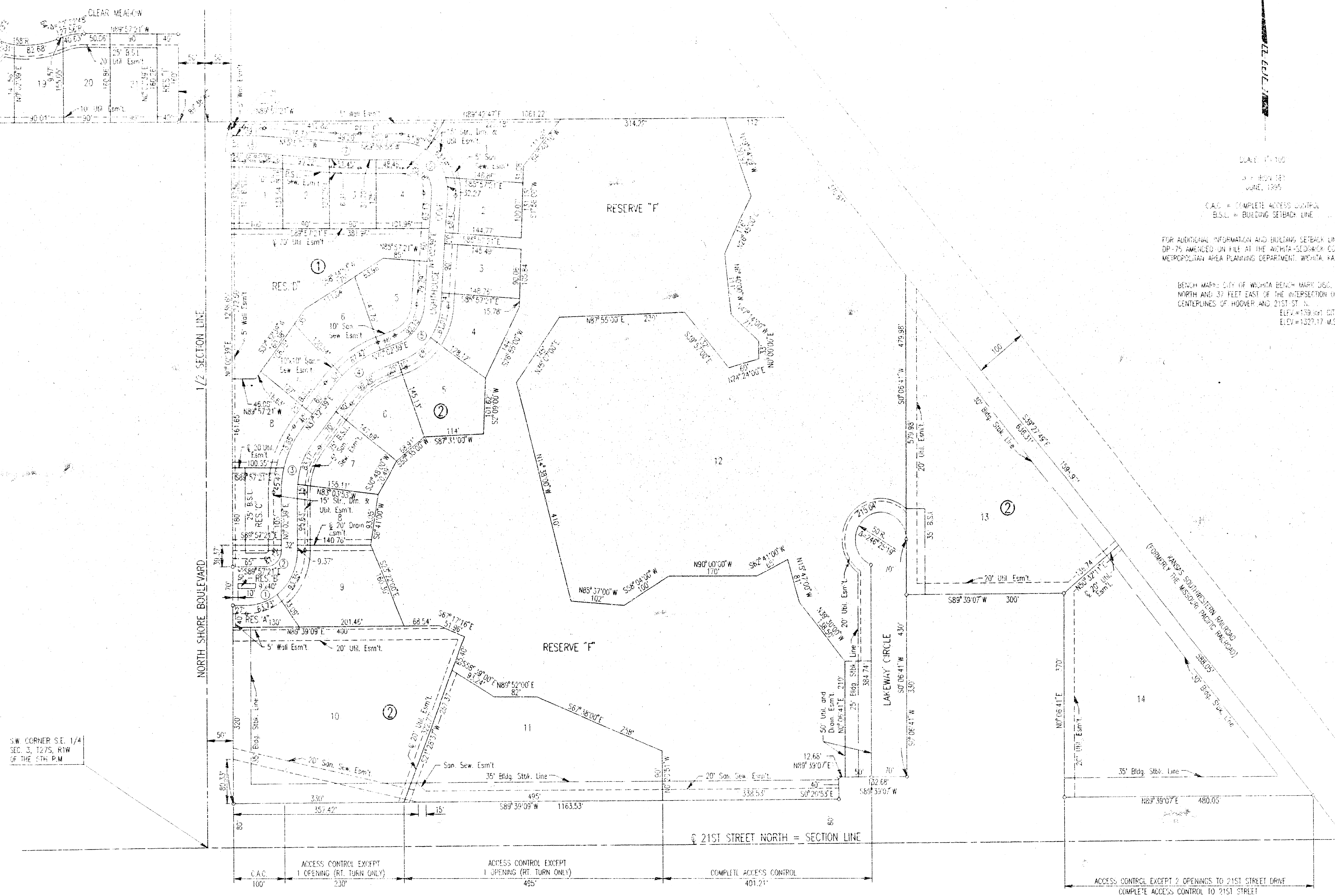
SHEET NO.	TOTAL SHEETS
2	7

- CURVE NO. 1
101.00' R.
Δ=90°00'00"
- CURVE NO. 2
30.00' R.
Δ=89°00'00"
- CURVE NO. 3
150.00' R.
Δ=17°30'00"
- CURVE NO. 4
175.00' R.
Δ=16°30'00"
- CURVE NO. 5
60.00' R.
Δ=44°00'00"
- CURVE NO. 6
58.00' R.
Δ=44°01'37"
- CURVE NO. 7
700.00' R.
Δ=4°01'37"
- CURVE NO. 8
528.00' R.
Δ=4°00'00"

DATE: 11-1-80
BY: BOB DEP
JUNE, 1980
C.A.C. = COMPLETE ACCESS CONTROL
B.S.L. = BUILDING SETBACK LINE

FOR ADDITIONAL INFORMATION AND BUILDING SETBACK LINES SEE C.O.P.
DP-75 AMENDED ON FILE AT THE WICHITA-SEDGWICK COUNTY
METROPOLITAN AREA PLANNING DEPARTMENT, WICHITA, KANSAS

BENCH MARK: CITY OF WICHITA BENCH MARK NO. 30, FEET
NORTH AND 50 FEET EAST OF THE INTERSECTION OF THE
CENTERLINES OF HOOPER AND 21ST ST. N.
ELEV. = 1139.491 CITY DATUM
ELEV. = 1327.17 M.S.L.



SW CORNER S.E. 1/4
SEC. 3, T27S, R1W
OF THE 6TH P.M.

STORM WATER SEWER

PLAT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	Checked by
Drawn by DEP	Date FEB, 1980 Job No 96108

SCALE: 1"=20'

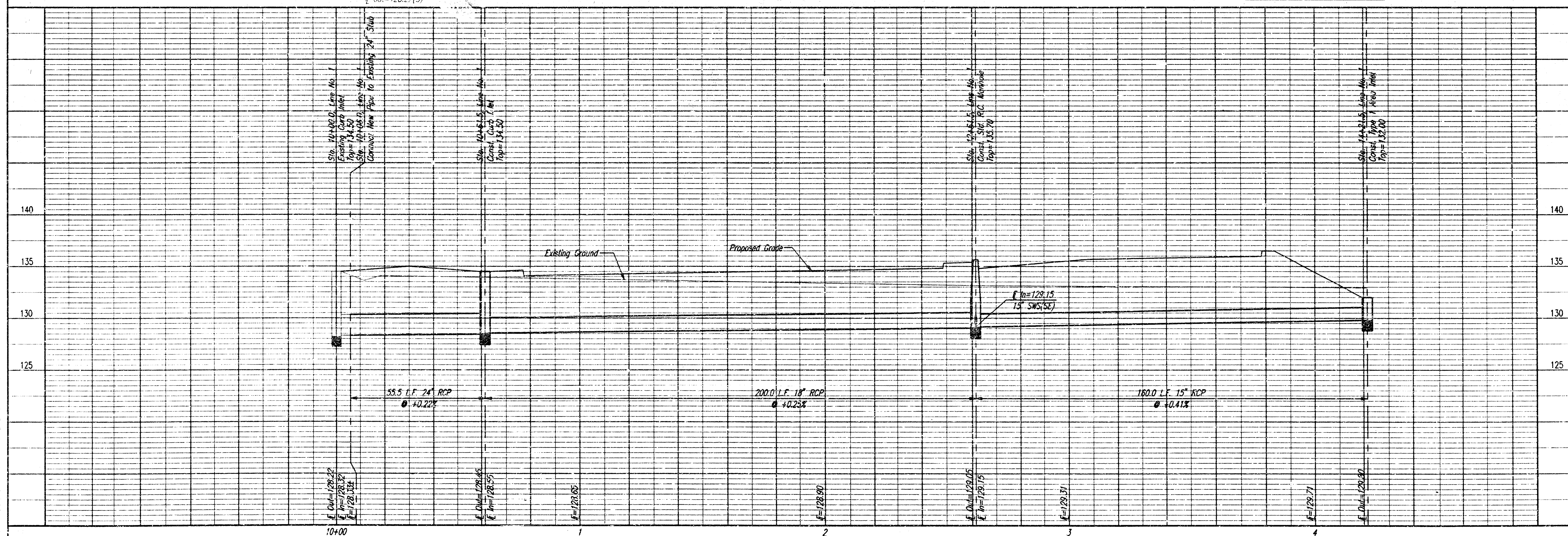
Sta. 10+00.0 Line No. 1=
Existing Curb Inlet
Install 55.5 L.F. 24" SWS(NE)
Connect New Pipe to 24" Stub

Sta. 10+61.5, Line No. 1
Const. Type 22 Curb Inlet
Top Elev.=134.50
Install 200.0 L.F. 18" SWS(E)
See Detail Sh. No. 4

CAUTION !!!
Prop. Sanitary Sewer
I=120.224

Sta. 14+21.5, Line No. 1
Const. Type 1 Area Inlet
Top Elev.=132.00
I=129.90 (8" R.L.)
See Detail Sh. No. 7

Sta. 12+61.5, Line No. 1
Const. Std. P.C. Manhole
Top Elev.=135.70
L=4'-6", W=4'-6", H=3.92', H=3.94'
Install 160.0 L.F. 15" SWS(NE)
Install 15.0 L.F. 15" SWS(SE)
w/ End Section
See Detail Sh. No. 5



STORM WATER SEWER

LINE NO. 1
STA. 10+00.00 TO STA. 14+21.5

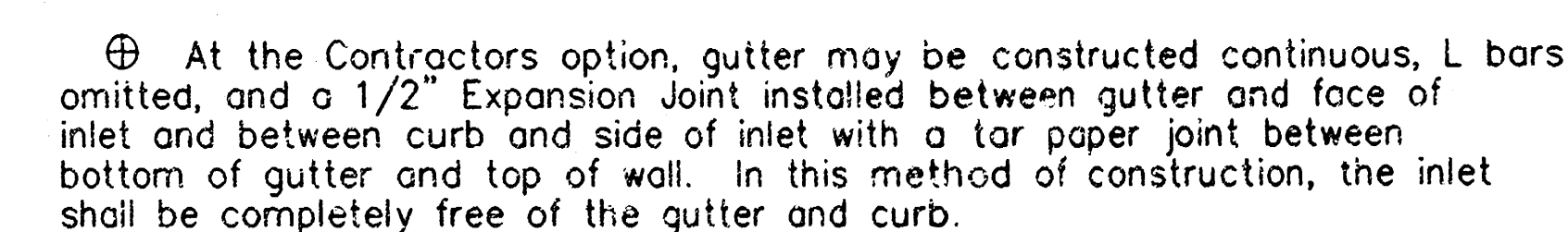
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS

Job No. 96103
Date FEB. 1996

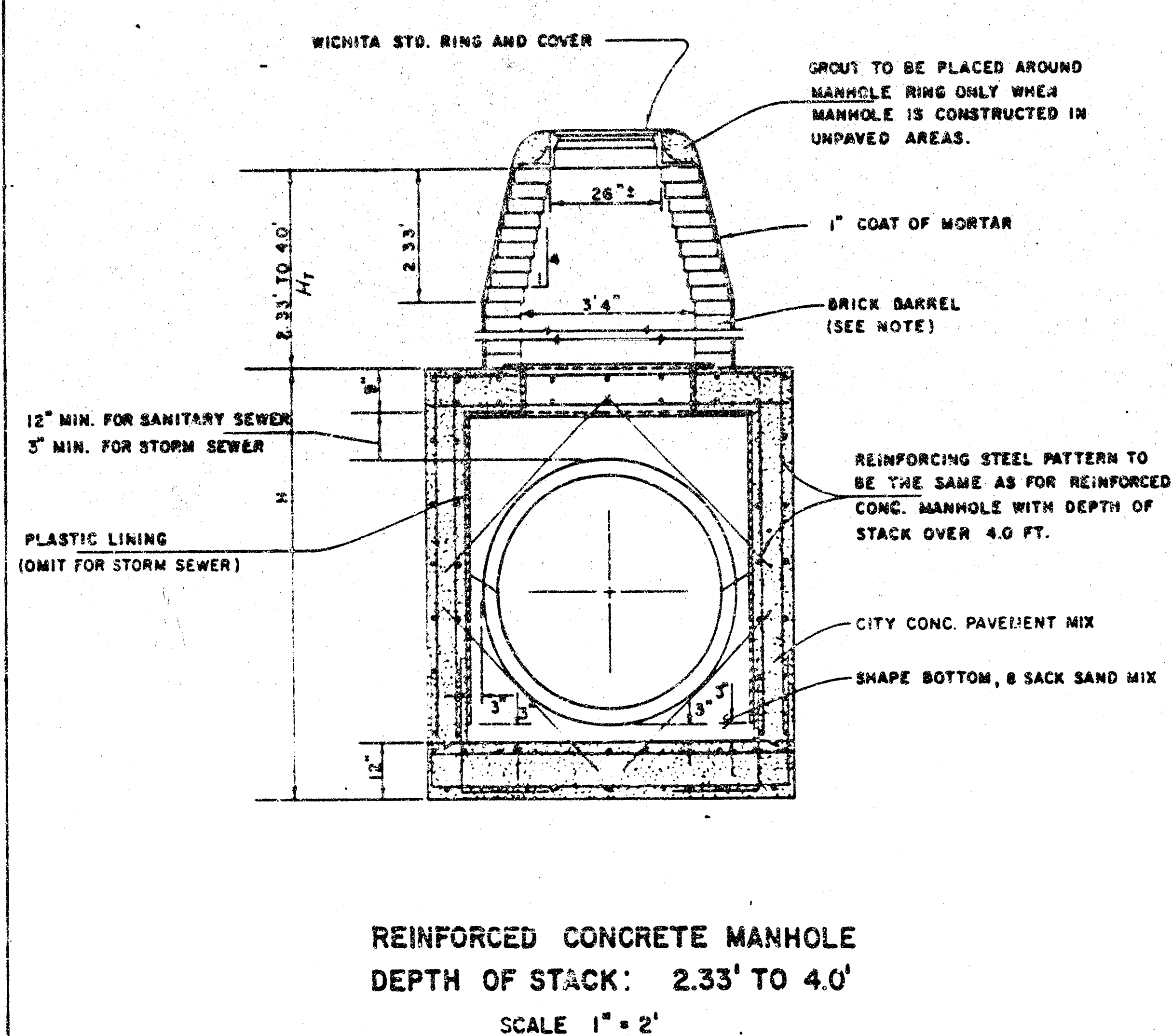
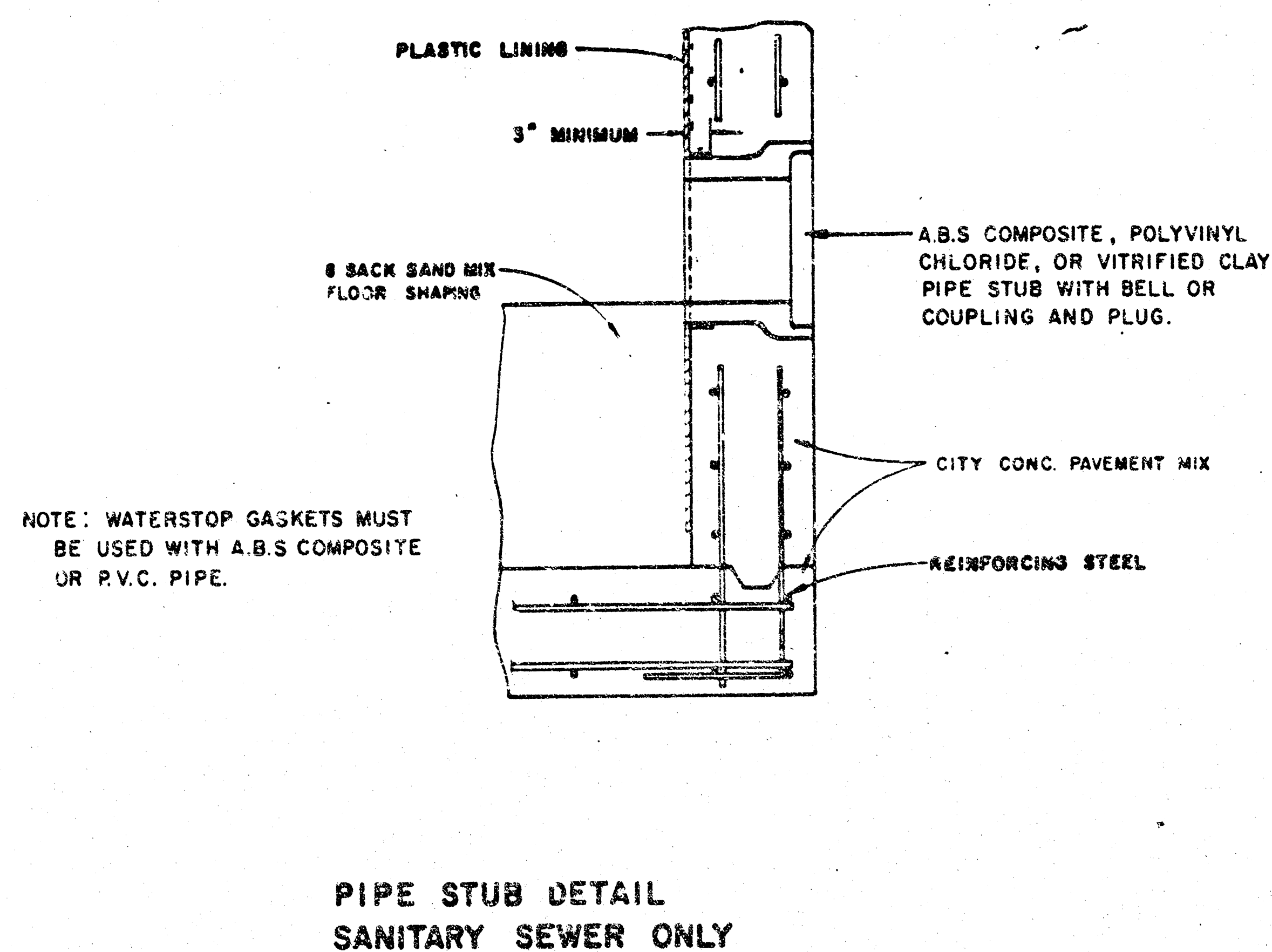
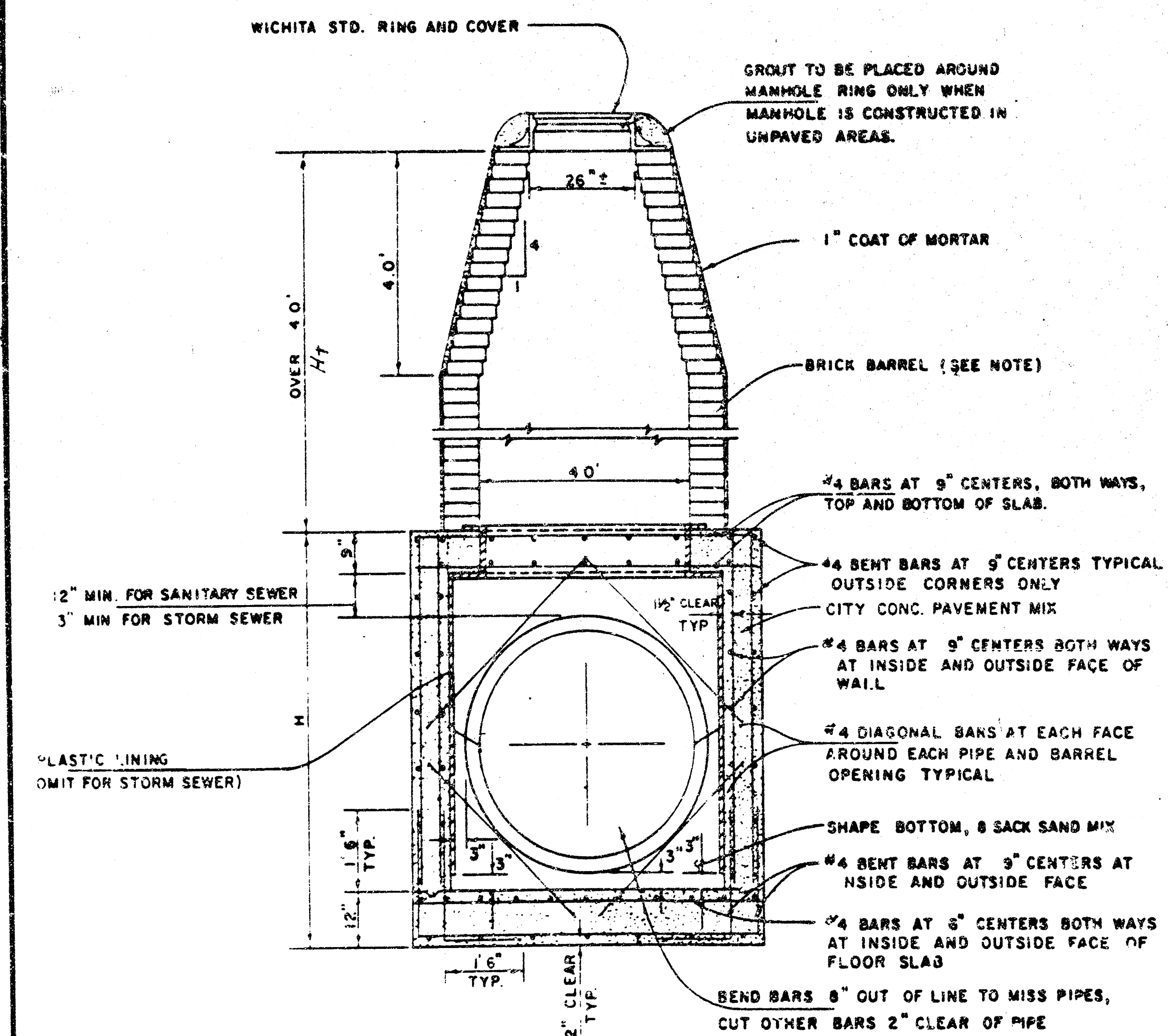
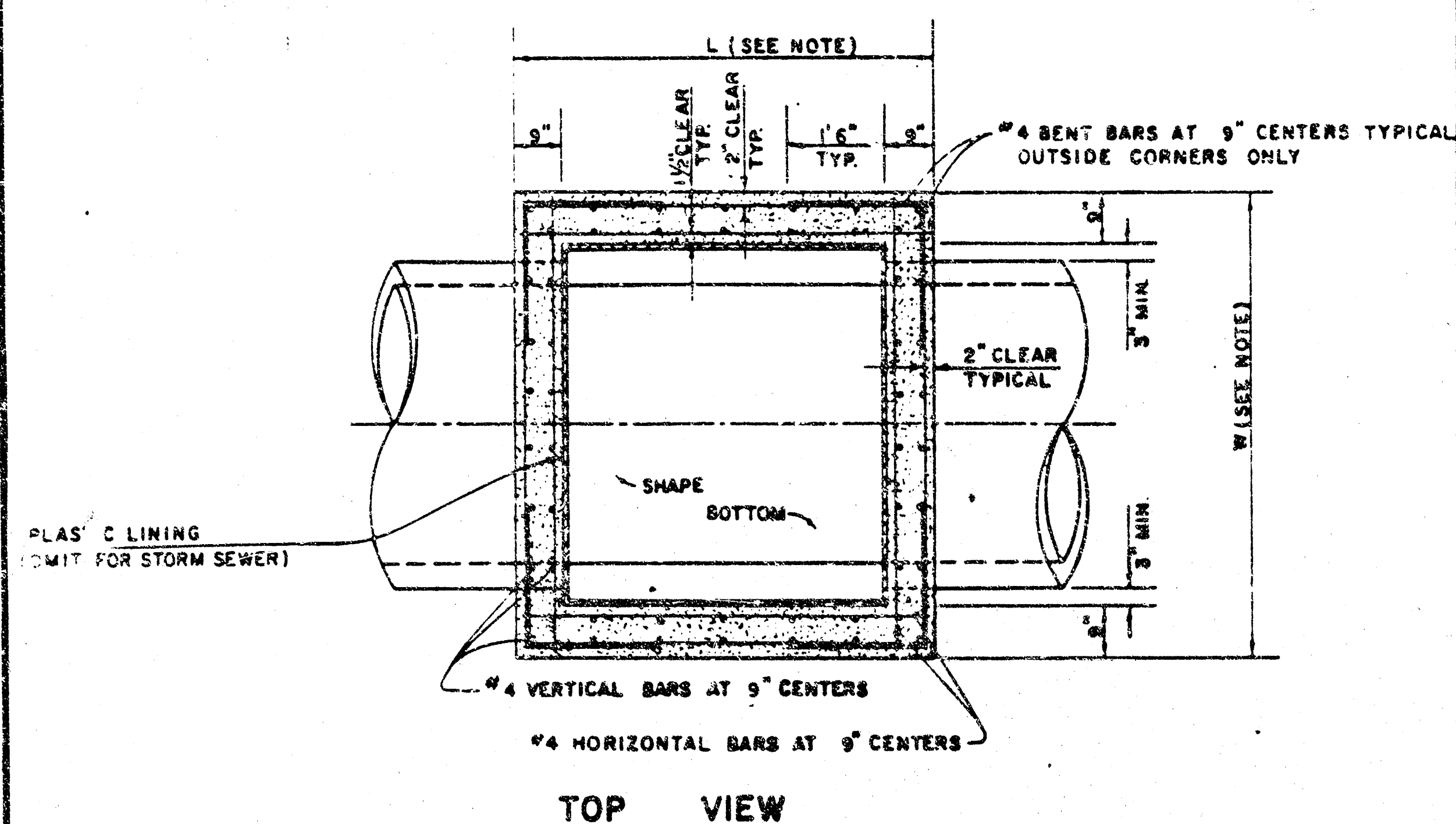
Designed by DRC
Drawn by DEP

Sheet 3 of 3

C.O.M. PRIVATE PROJ. NO. 616PPS (60786.1)

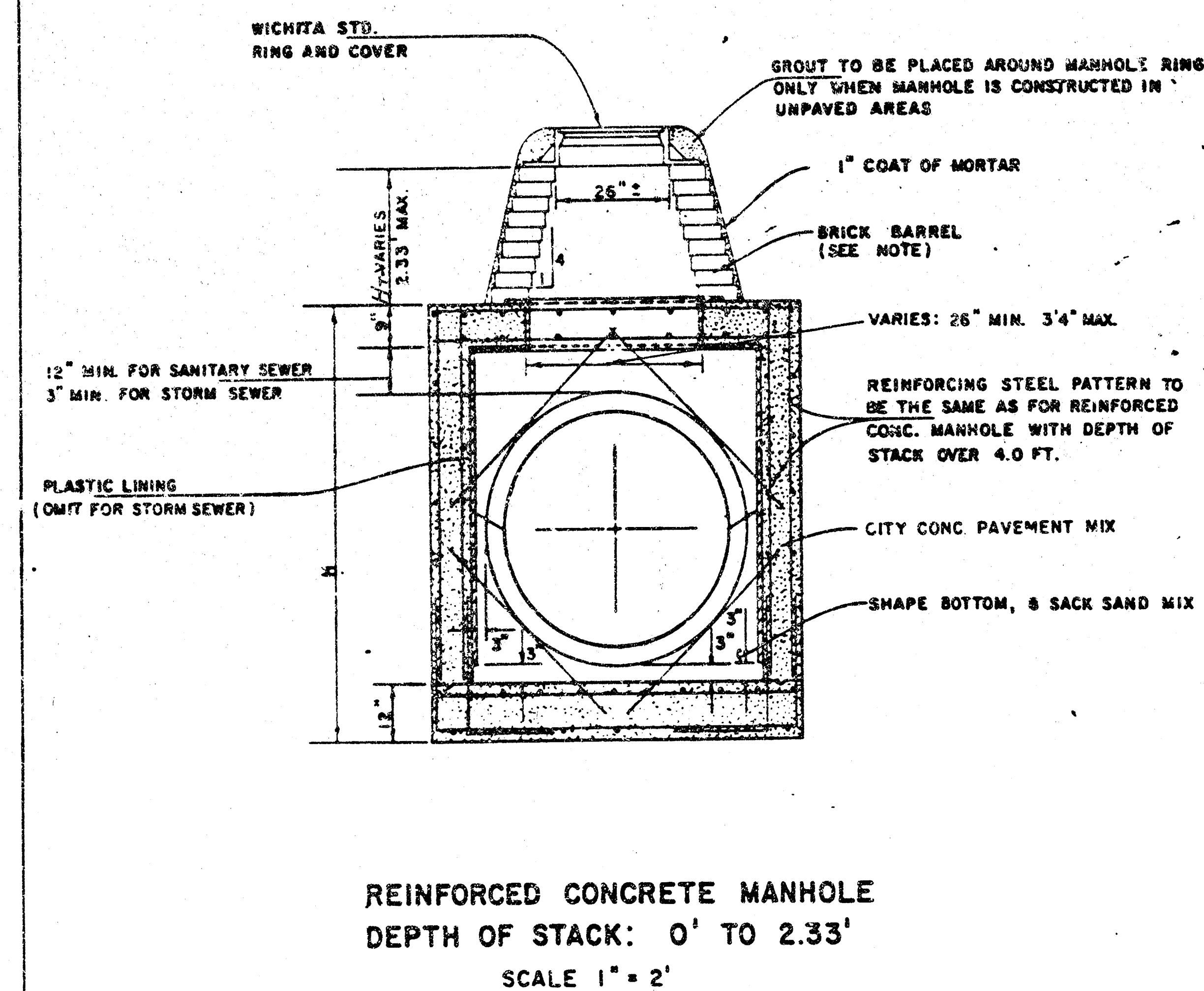
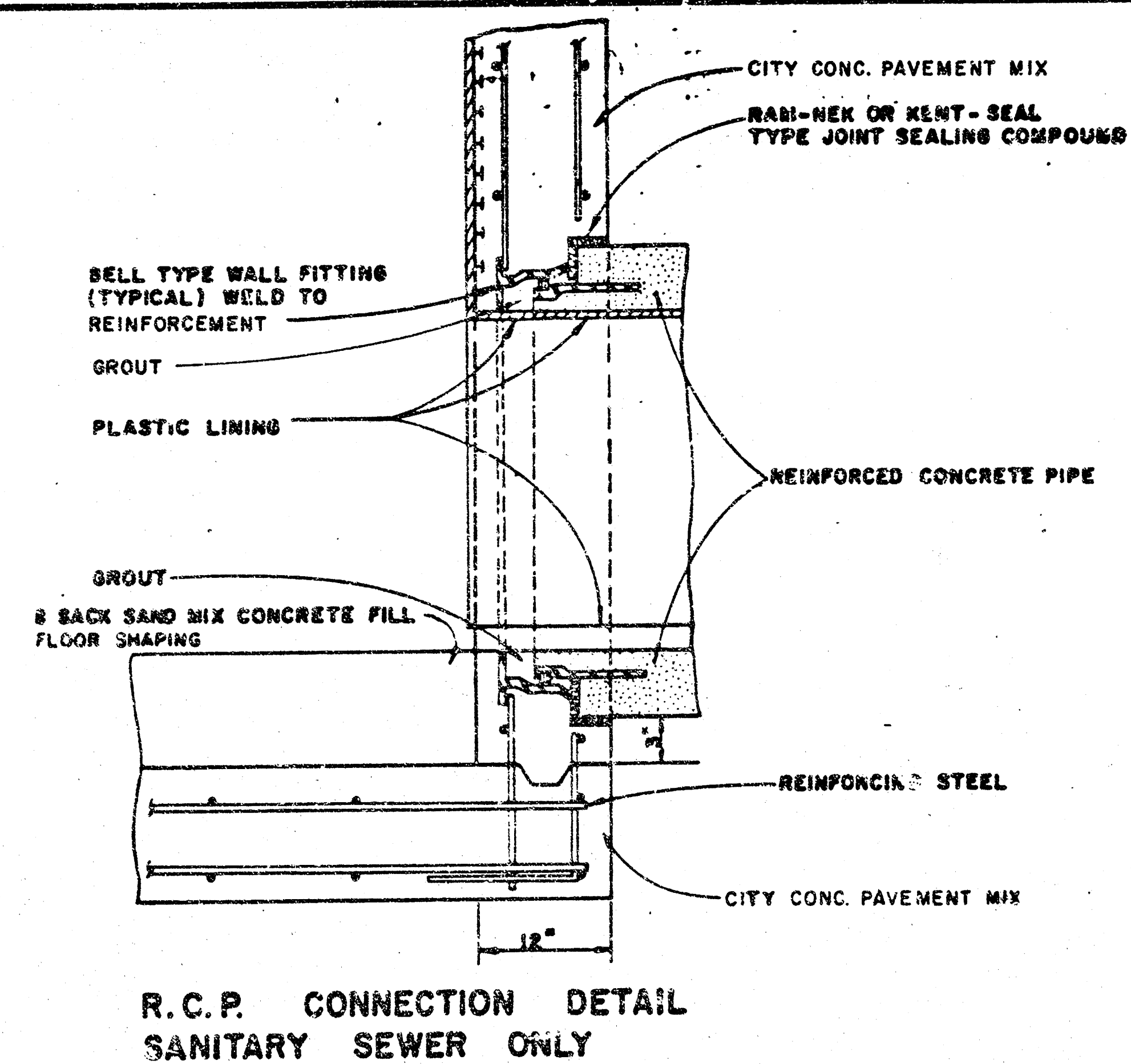


Designed by	DRC	Checked by	
Drawn by	DEP	Date FEB., 1996	Job No. 96108



NOTE

BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12" BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS WHEN THE BRICK BARRELS ARE OVER 4 FT. IN HEIGHT. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATERTIGHT.



REVISIED 1-7-85

STANDARD DETAILS REINFORCED CONCRETE MANHOLES

CITY OF WICHITA

FEBRUARY 1984

MANHOLE FRAME AND COVER DETAIL

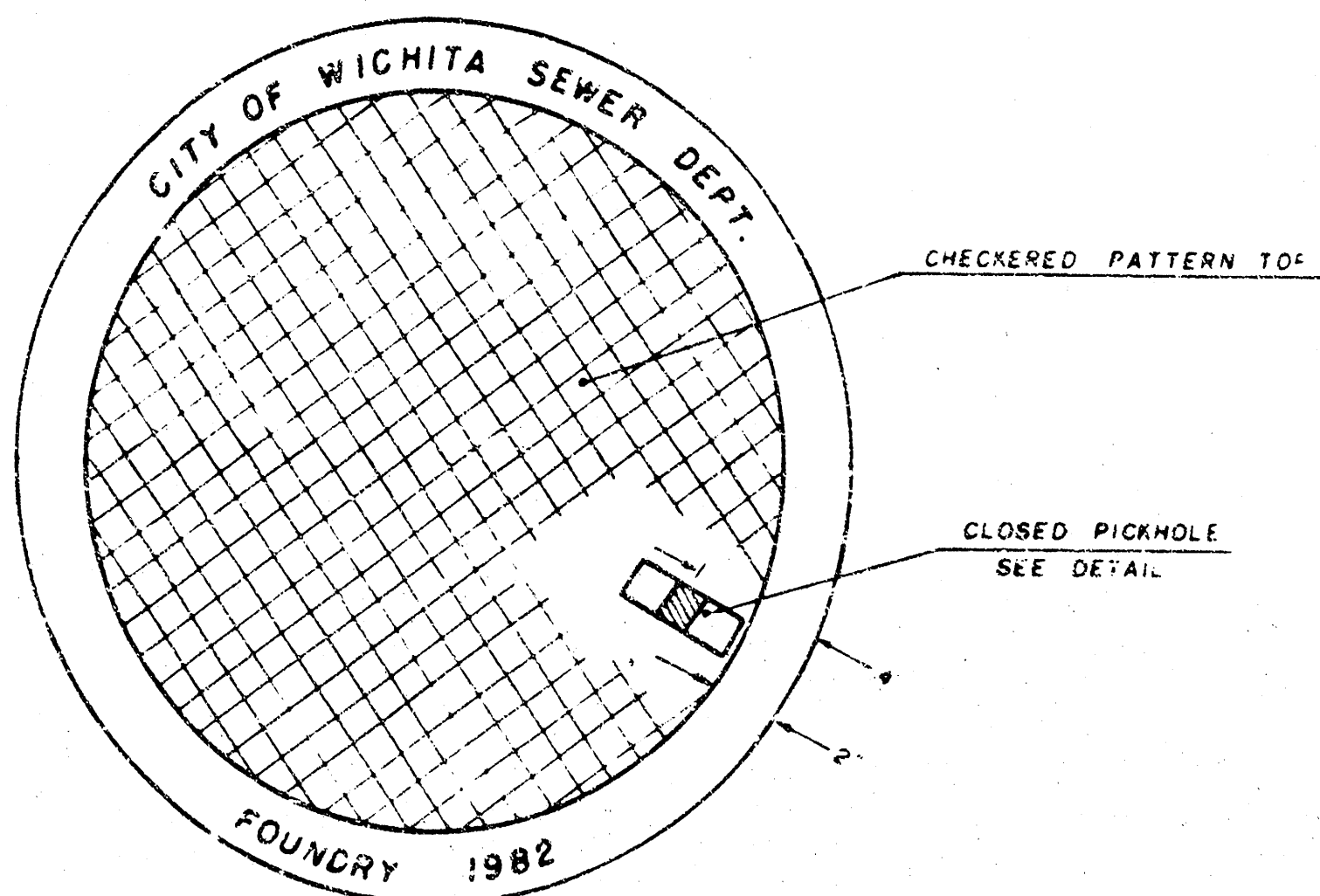
ADOPTED AS STANDARD DESIGN

BY

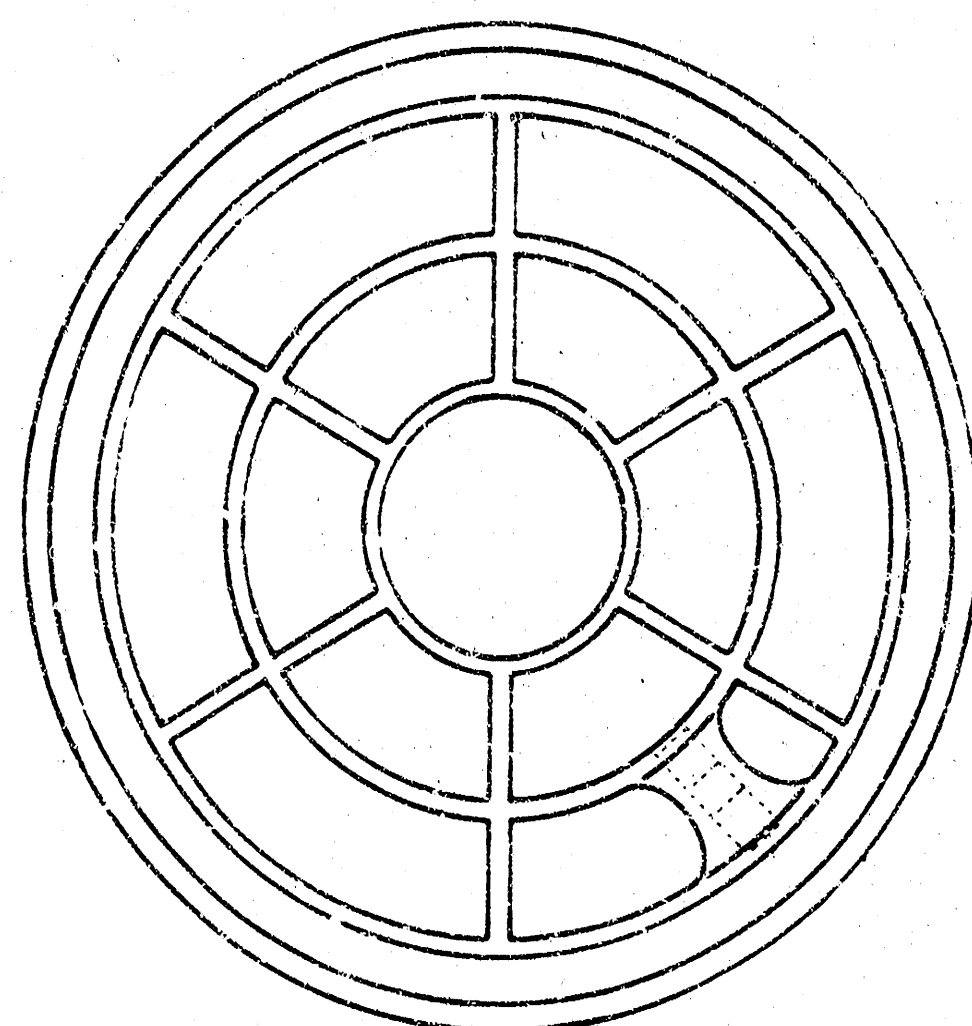
City of Wichita, Kansas

MANHOLE COVER

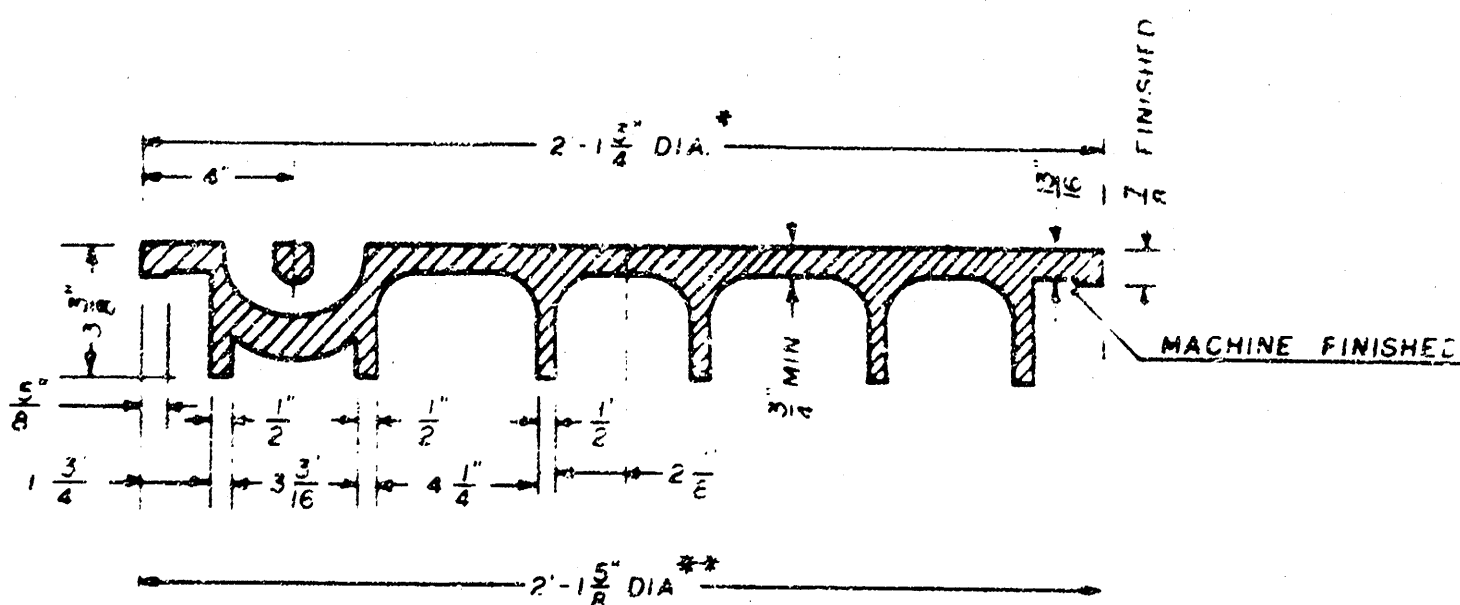
Weight: 180 Lbs.



TOP VIEW



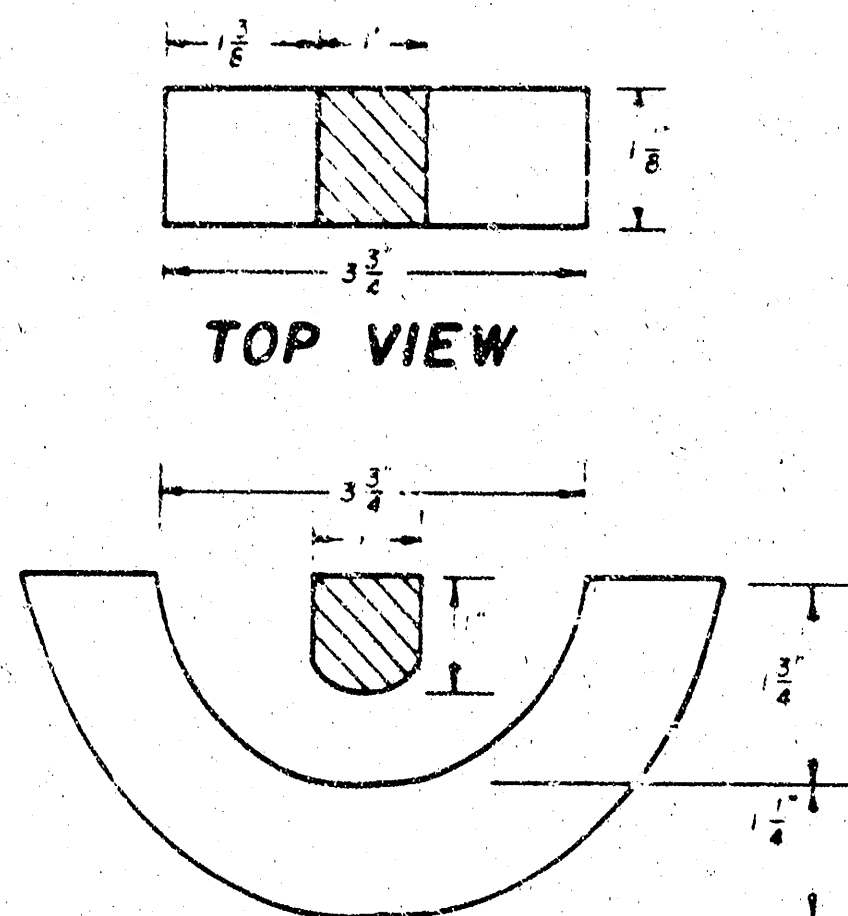
BOTTOM VIEW



SECTION VIEW

* OUTSIDE DIA. TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

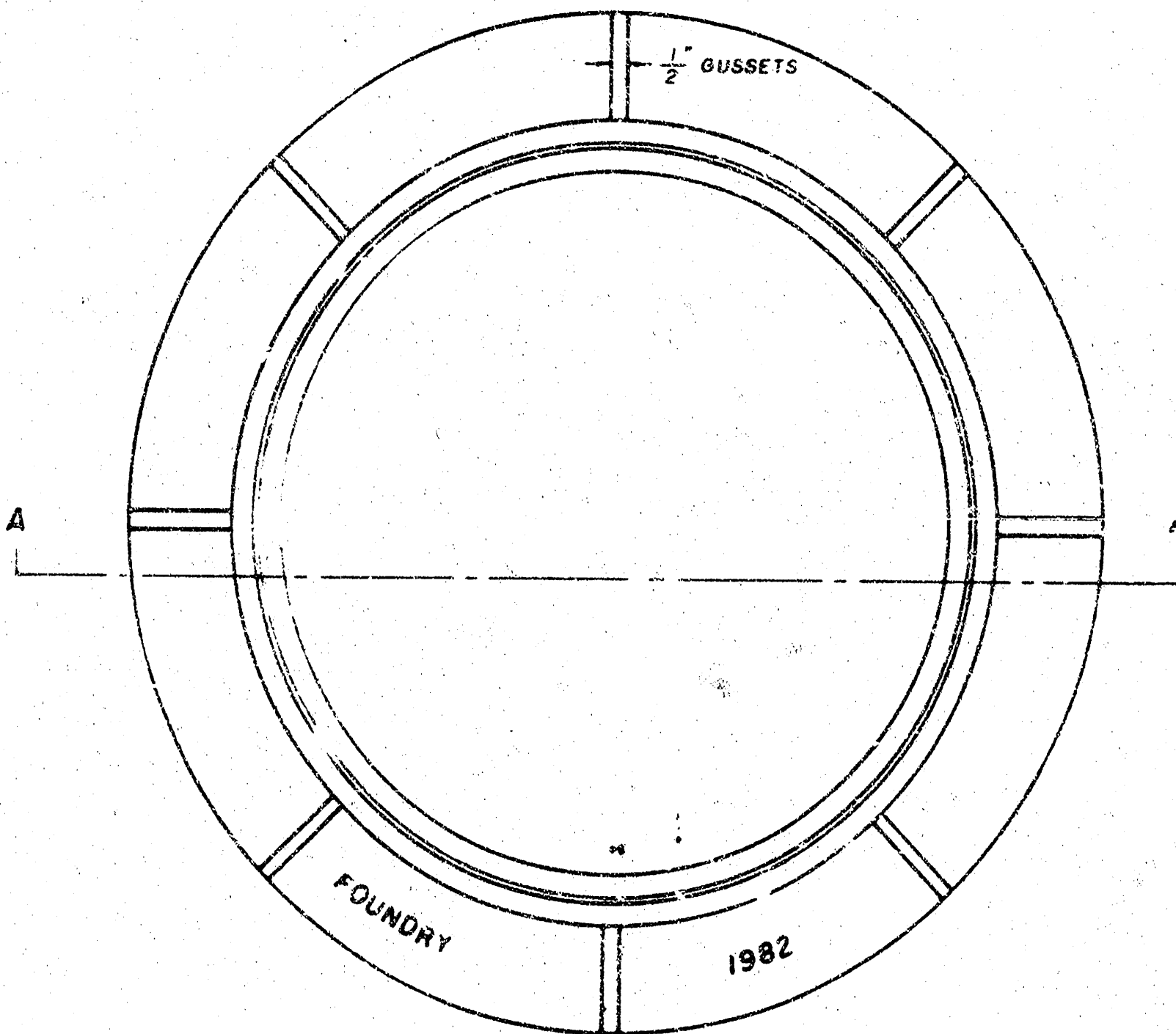
PICKHOLE DETAIL



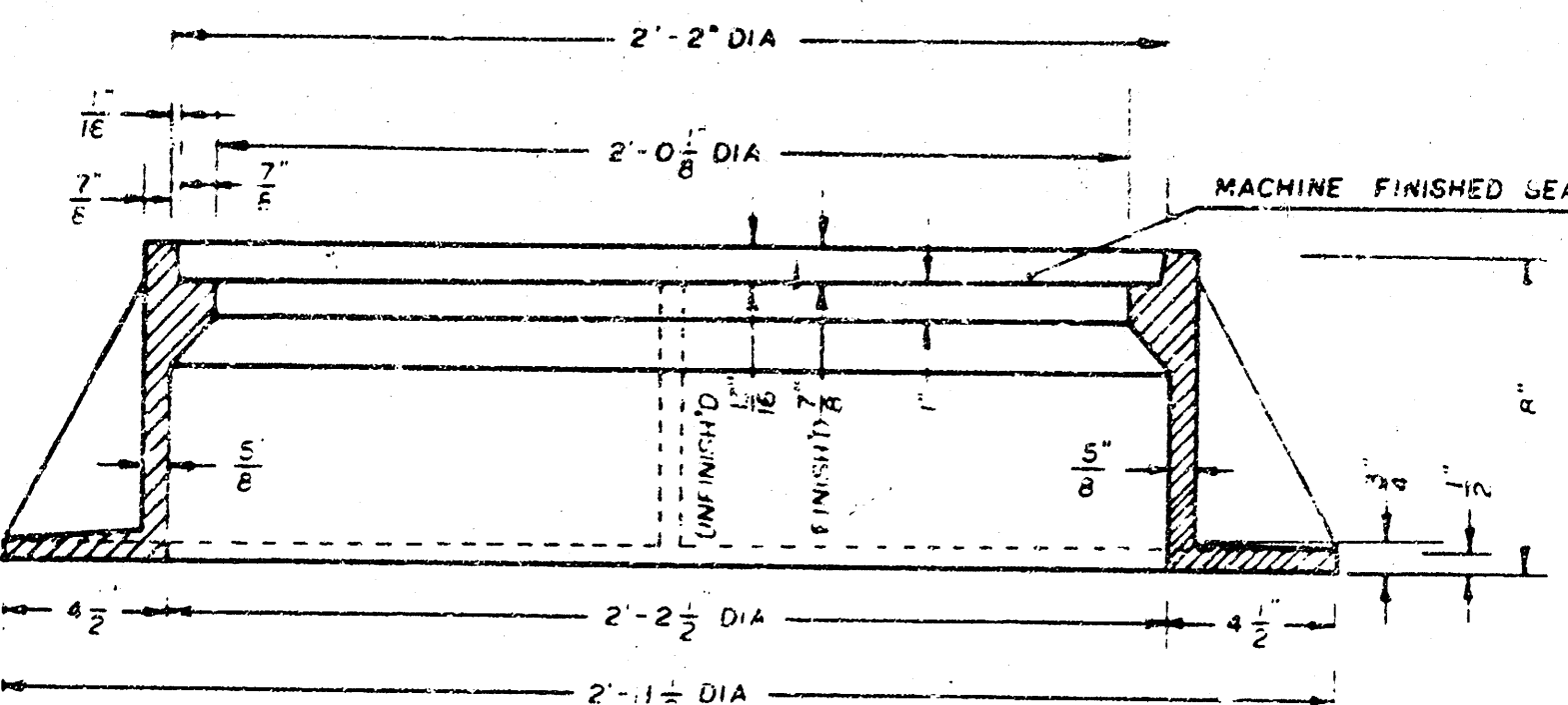
SECTION VIEW

MANHOLE FRAME

Weight: 240 Lbs.



TOP VIEW

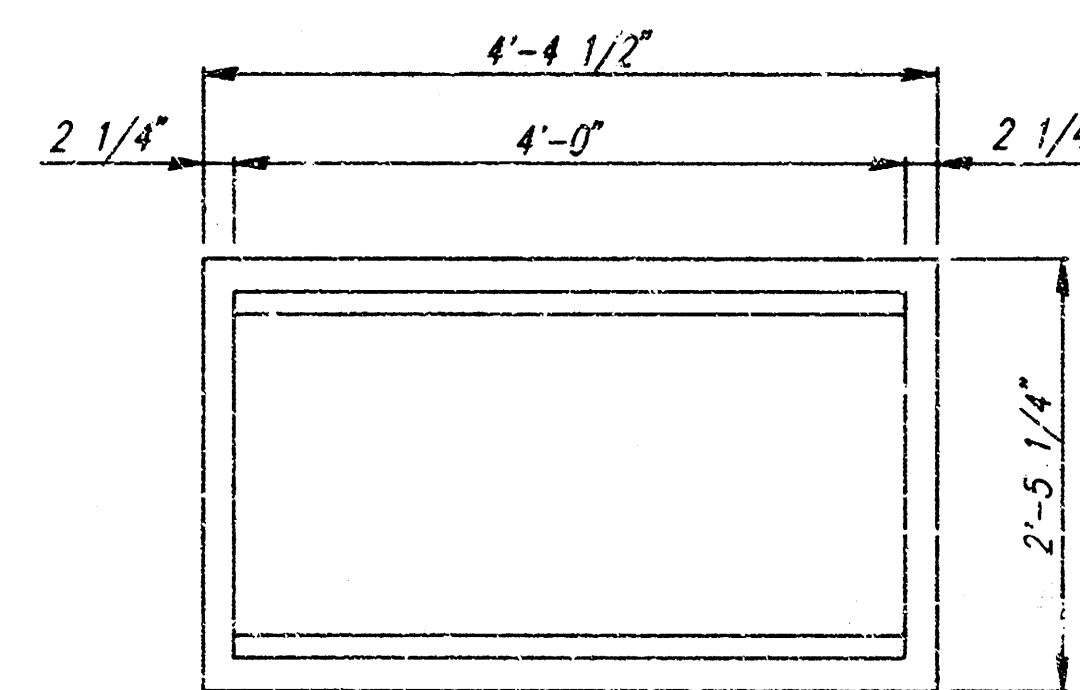


SECTION A-A

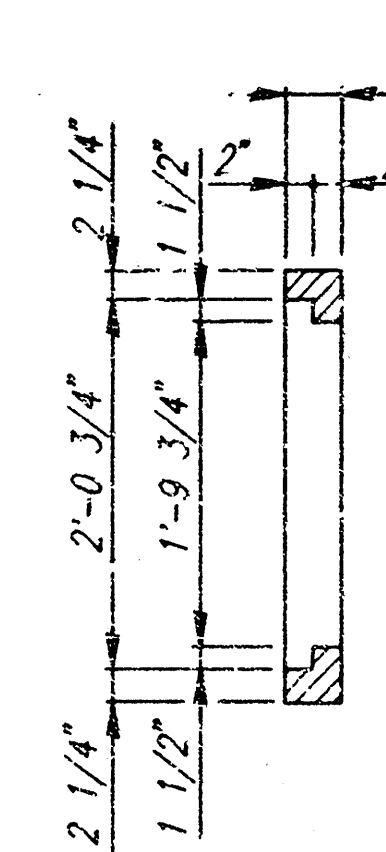
GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAIL DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
3. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
4. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUTS SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

SHEET NO	TOTAL SHEETS
7	7



FRAME DETAIL
(Wt. = 460 lbs.)



GRATE DETAIL
(Wt. = 180 lbs.)

GENERAL NOTES

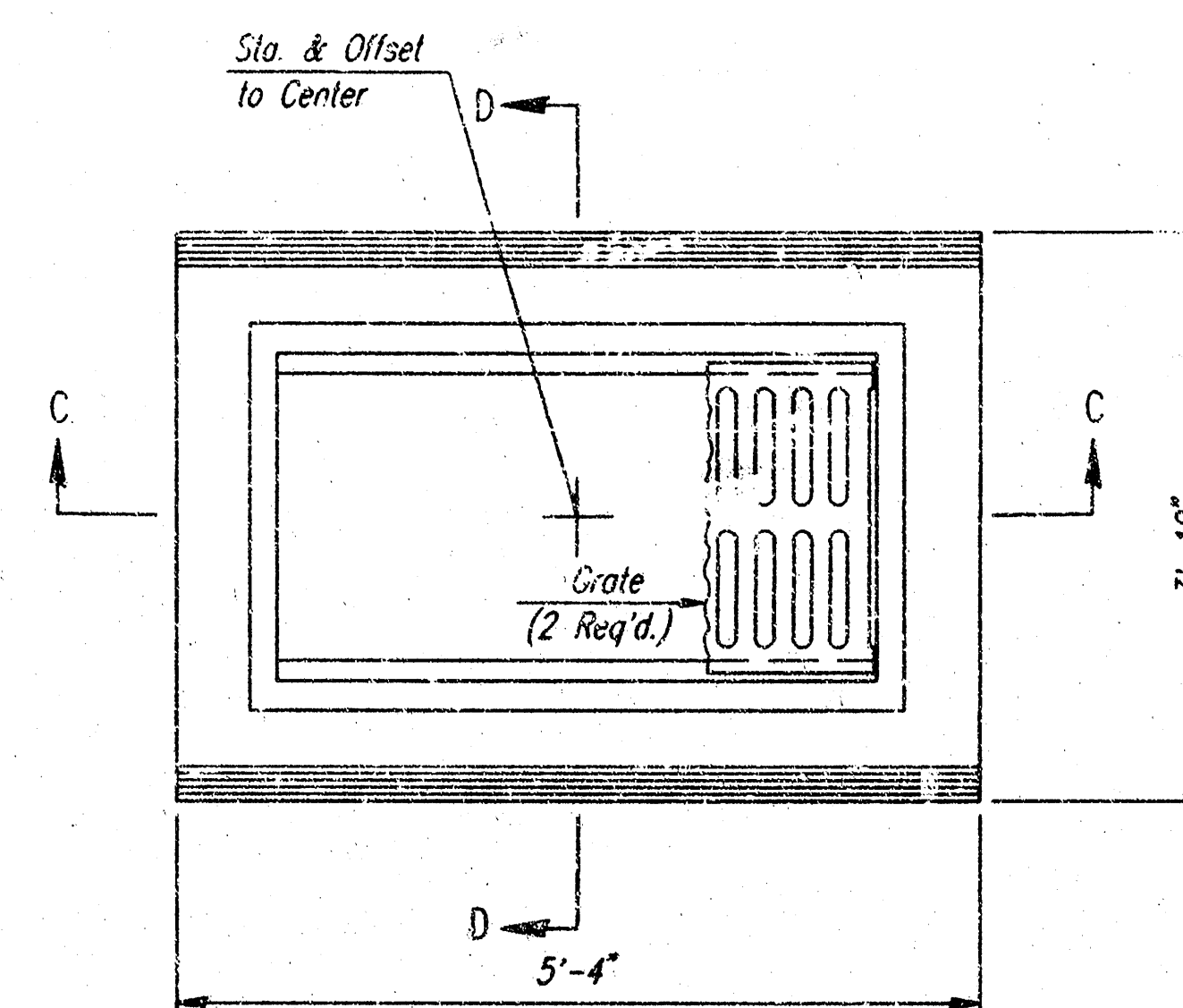
CONCRETE SHALL BE C.O.W. STANDARD PAVING MIX. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN APPROVED EDGING TOOL.

REINFORCING STEEL SHALL BE A MINIMUM GRADE 40, A.S.T.M. A615. ALL DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO THE CENTERLINE OF BARS UNLESS OTHERWISE NOTED.

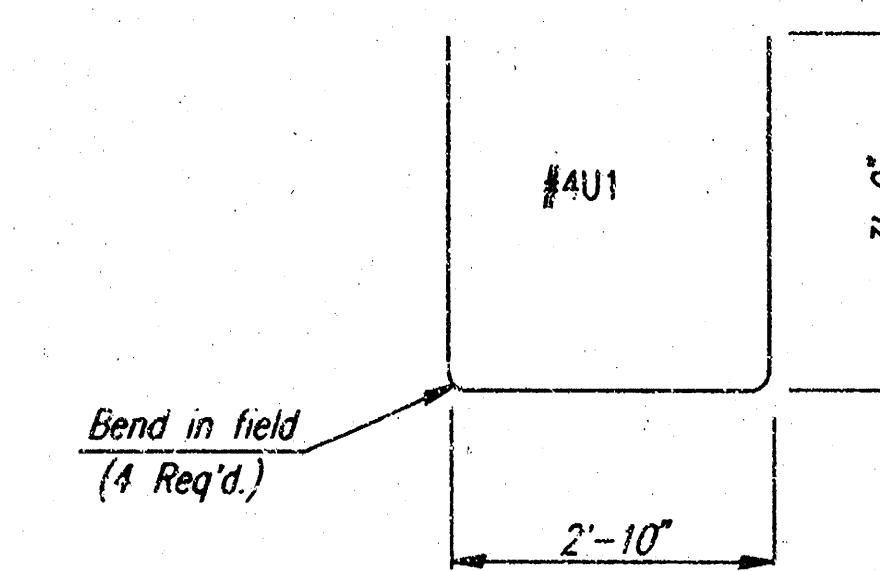
INLET CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

CONSTRUCTION REQUIREMENTS AND MATERIALS FOR MASONRY WALLS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

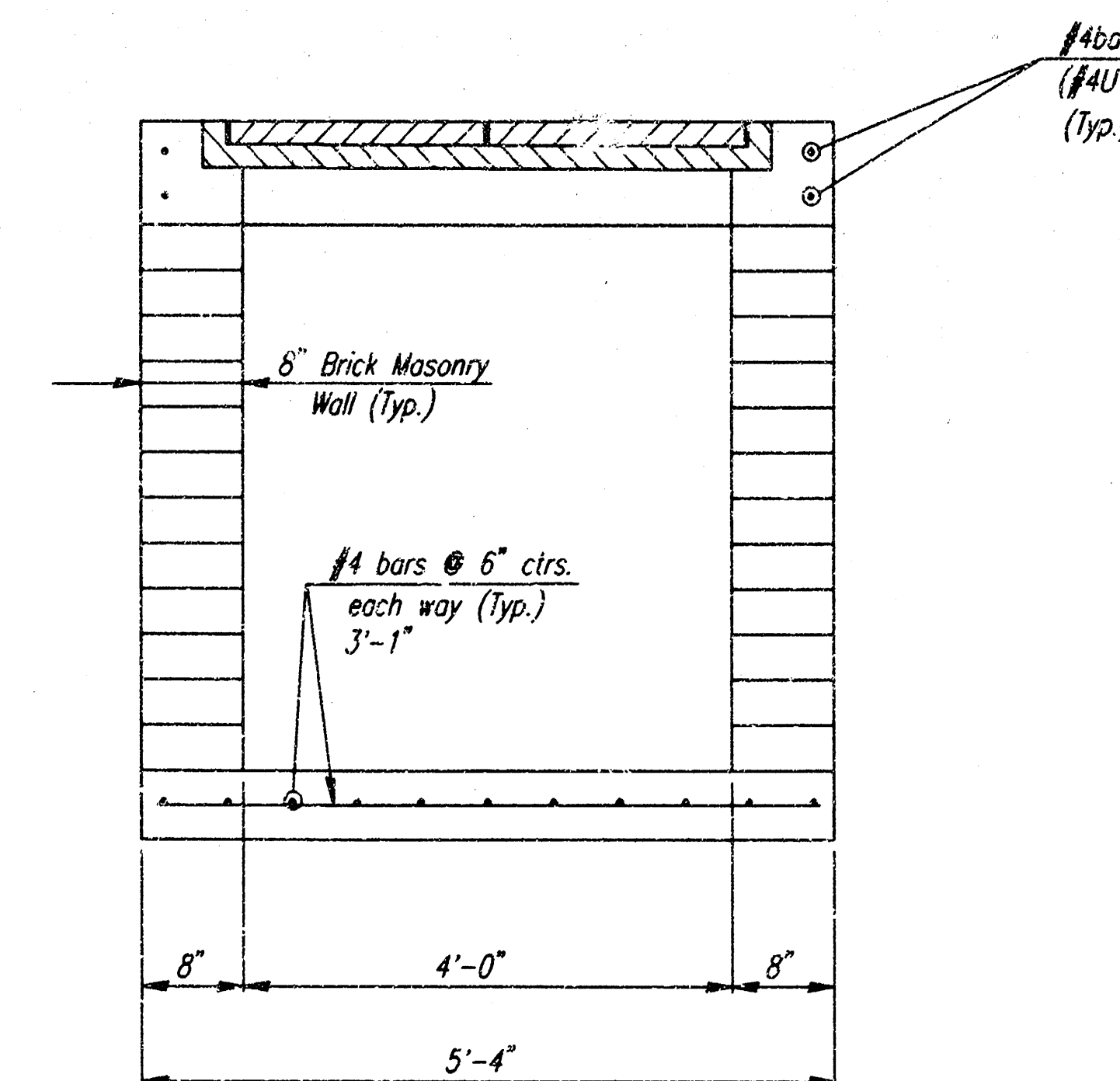
INLET FLOOR SHALL BE SHAPED WITH UNREINFORCED CONCRETE (8 SACK SAND MIX) TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.



PLAN

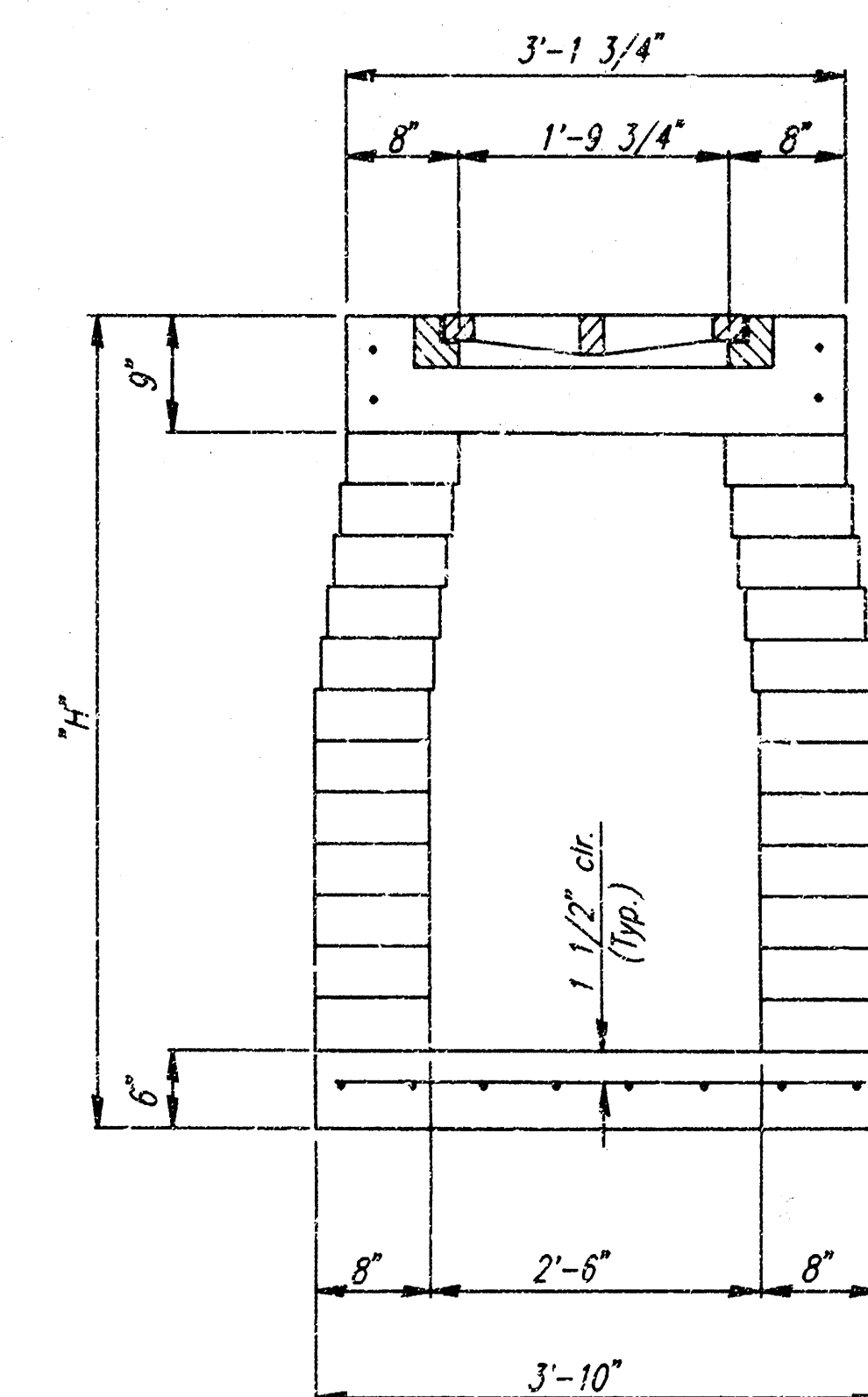


BENDING DIAGRAM



SECTION C-C

AREA INLET



SECTION D-D

STORM WATER SEWER			
TYPE 1 AREA INLET DETAILS			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	DRC	Checked by	
Drawn by	DEP	Date	FEB. 1996
		Job No.	96108