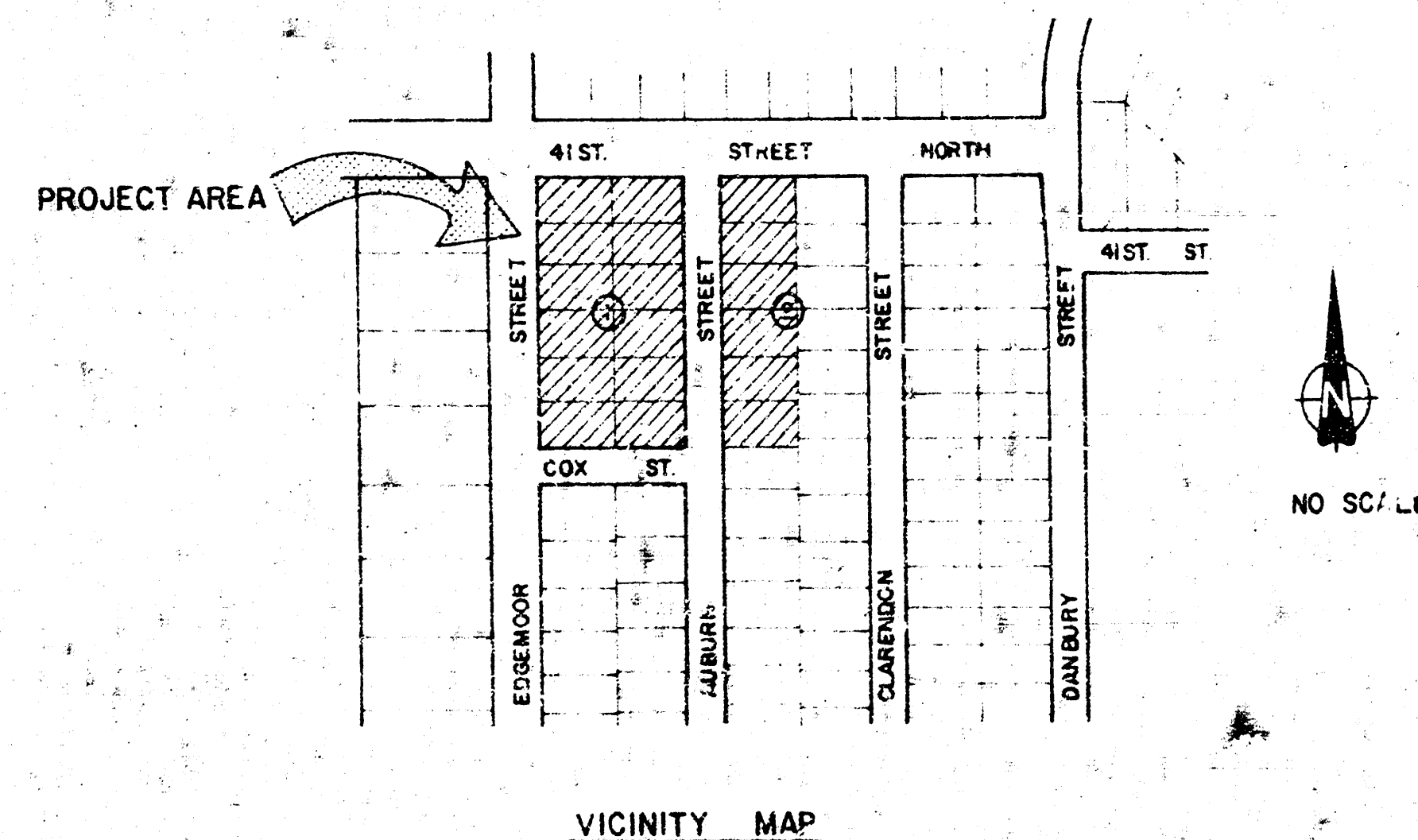


FOR

BEL AIRE VILLAGE SECOND ADDITION

BEL AIRE, KANSAS

1983



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.

7-7-83

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewers J. C. D.
Storm Sewers _____
Driveway Approaches _____

REISS & GOODNESS ENGINEERS
2106 WEST 21ST STREET
WICHITA, KANSAS 67203
(913) 832-0213

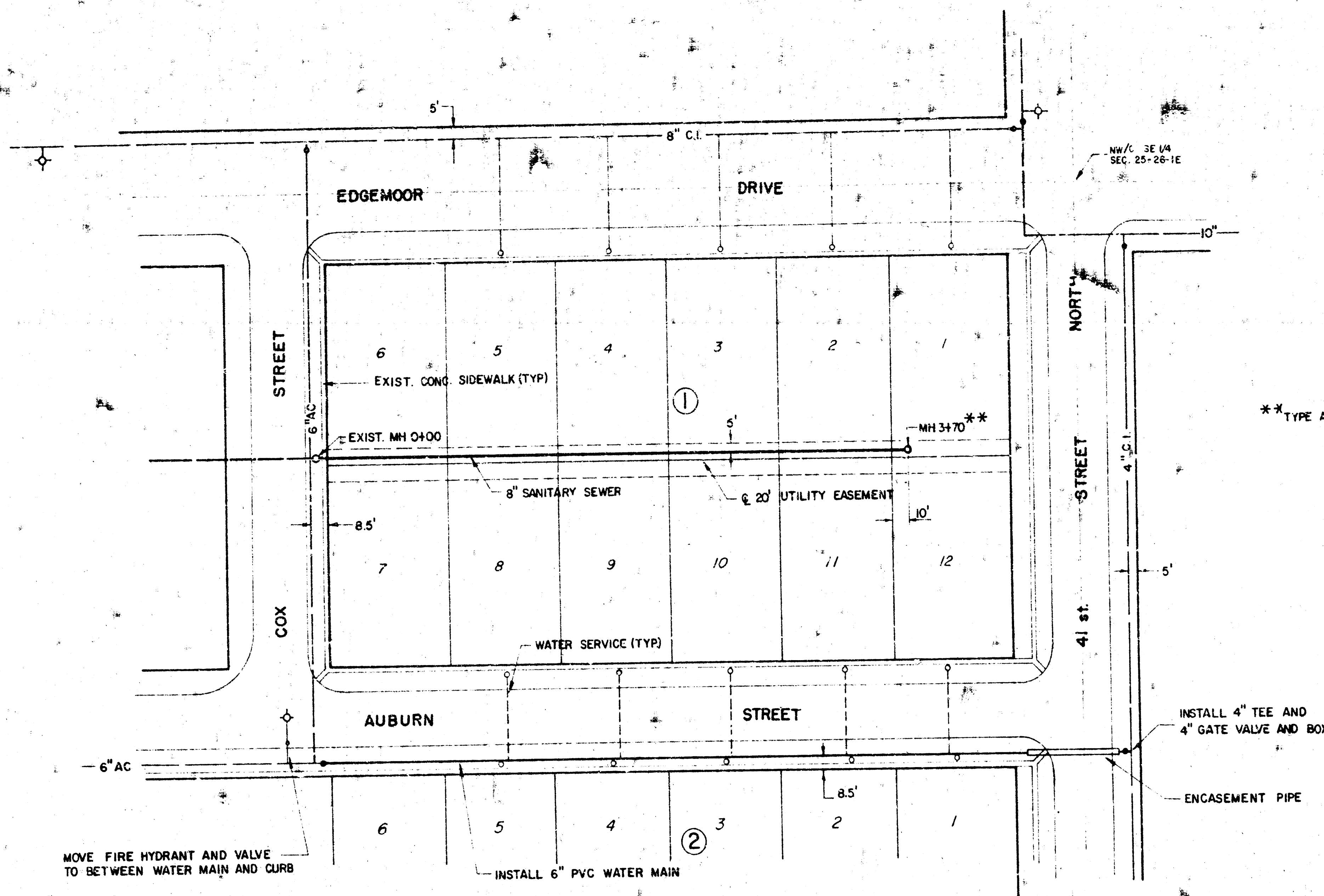


Proj. # 468-76-245-80000-000-000-008

REVISION	DRAWN BY	CHECKED BY	DESIGNED BY	PROJECT	CUSTOMER

SCALE: NOTED
 DATE: 6/22/83

PROJECT NO: 11
 SHEET: 17



** TYPE A OR C MANHOLE

INSTALL 4" TEE AND 4" GATE VALVE AND BOX

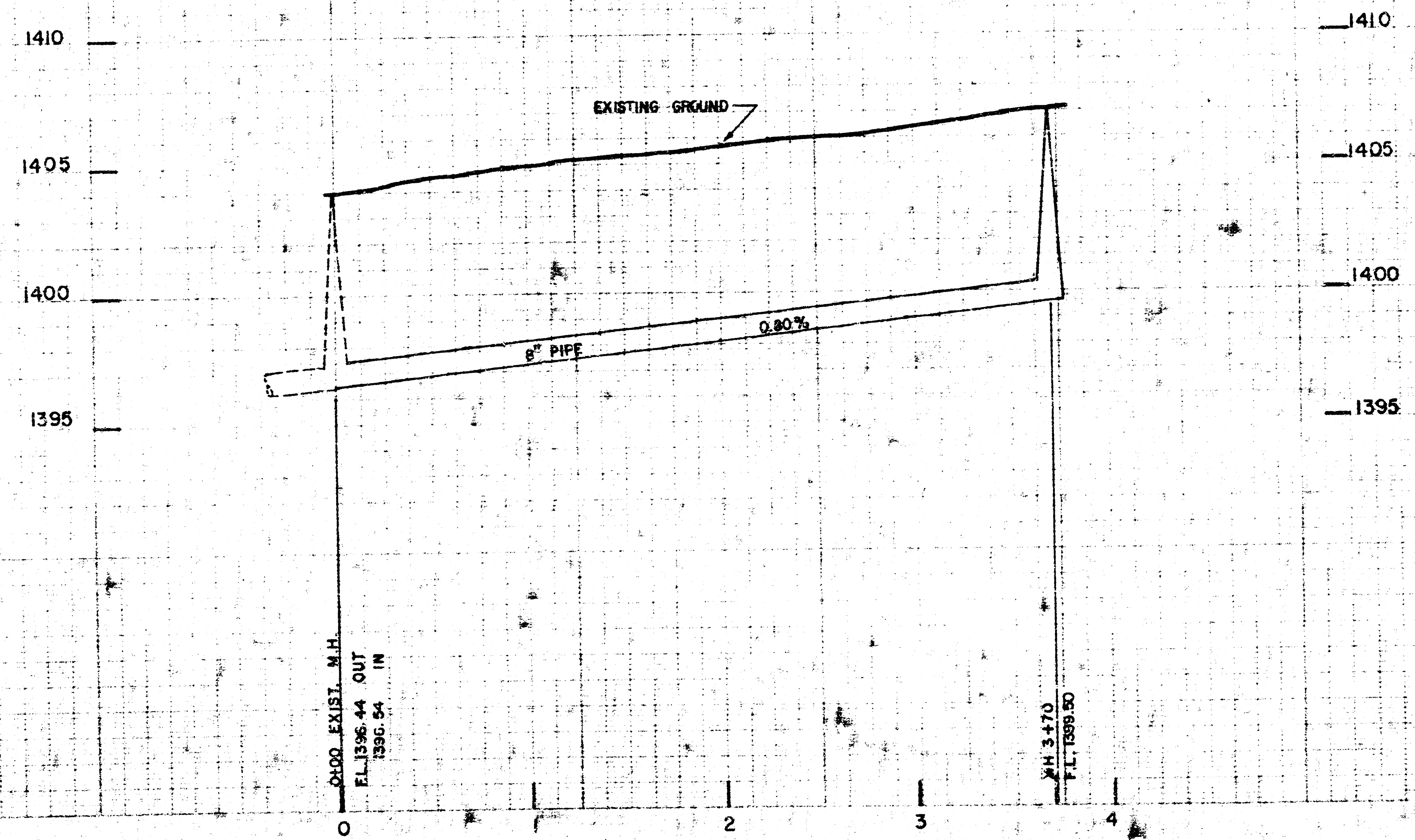
ENCASEMENT PIPE

BM "MH" ON FIRE HYDRANT, SW COR. EDGEMOOR DRIVE AND 41st STREET NORTH. EL. 1411.27 USGS DATUM

SCALE
PLAN 1"=50'
PROFILE 1"=50'
HORIZ 1"=50'
VERT 1"=4'

LAT. BV-1A EXTENSION

PIPE TO BE PVC, ABS, OR VCP



REISS & GOODNESS ENGINEERS
2100 WEST 21st STREET
WICHITA, KANSAS 67204
(316) 832-0200

REVIS 6-30-83
7-5-83

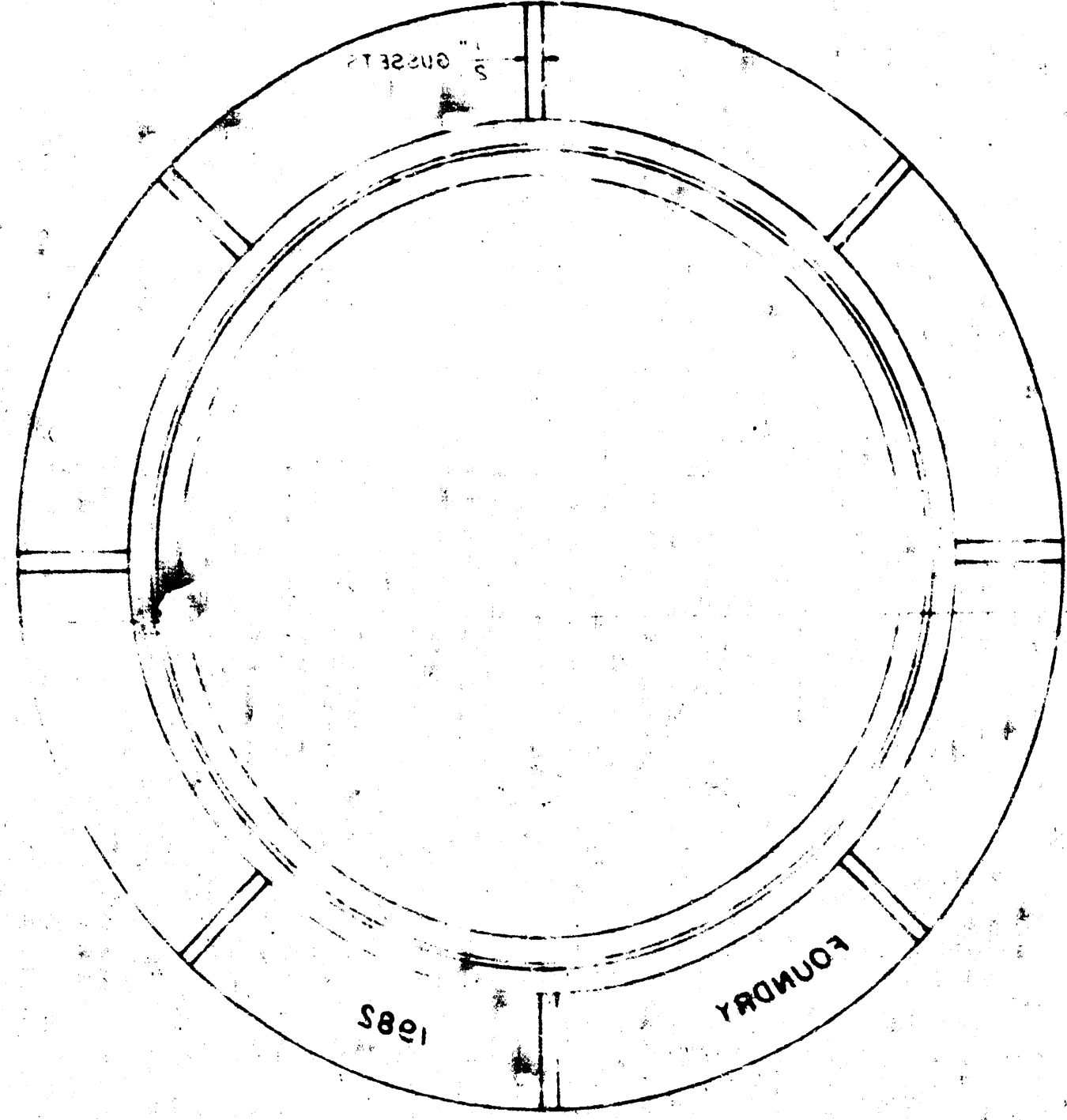
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MANHOLE FRAME AND COVER DETAIL

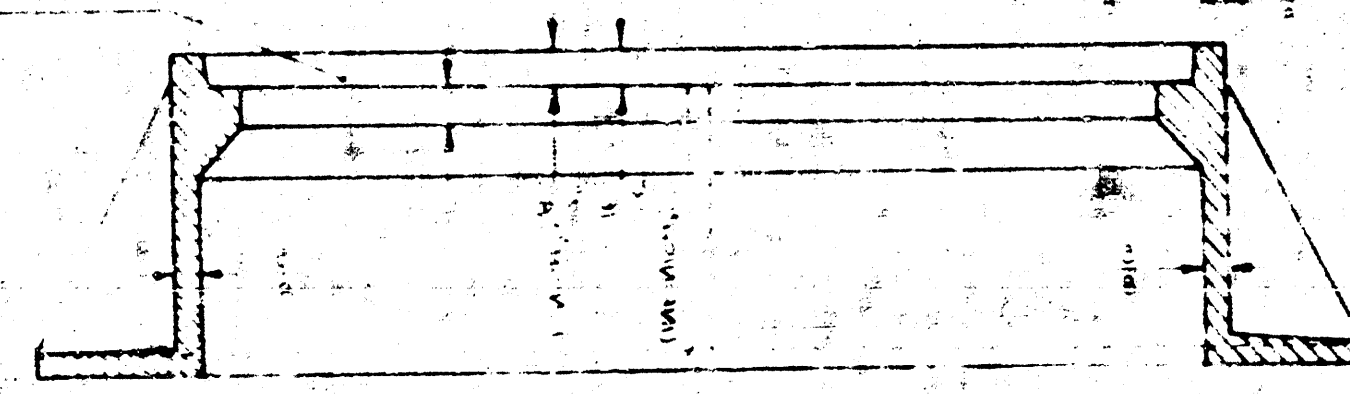
ADAPTED AS STANDARD DESIGN
BY

260000, 270000 to 280000

MANHOLE FRAME
Weight: 540 Lbs.



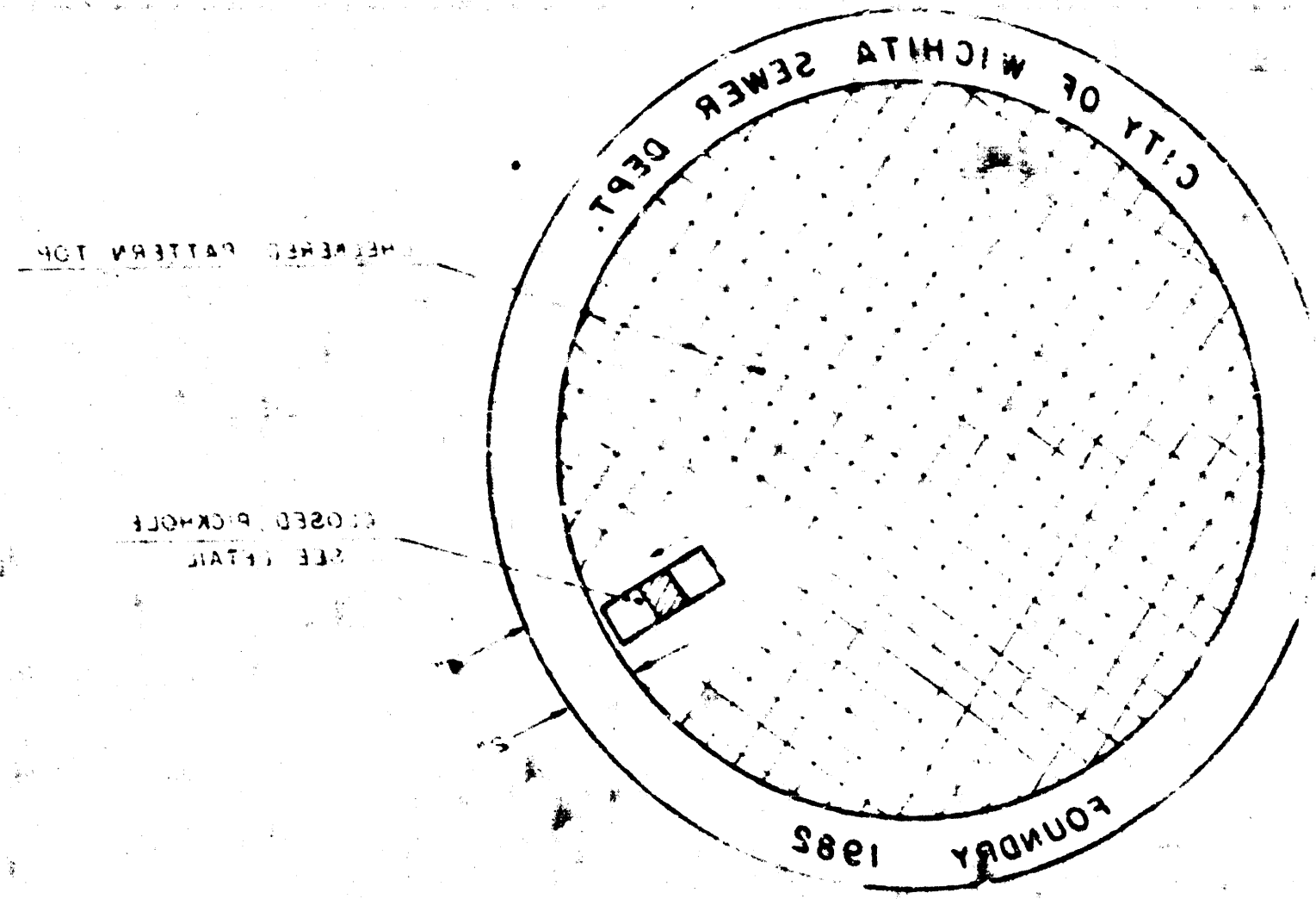
TOP VIEW



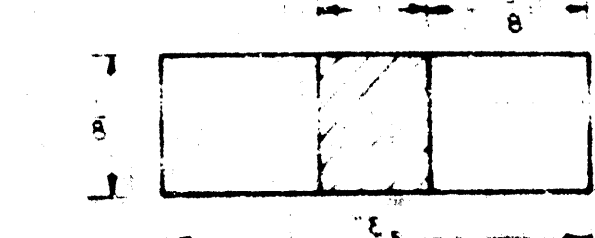
A-A SECTION

[illegible]

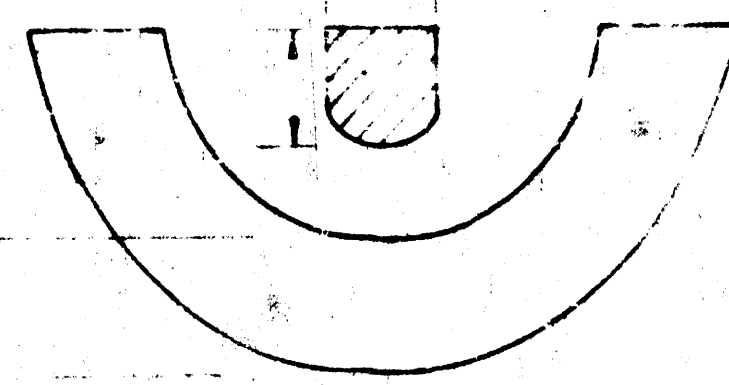
MANHOLE COVER
Weight 180 lbs.



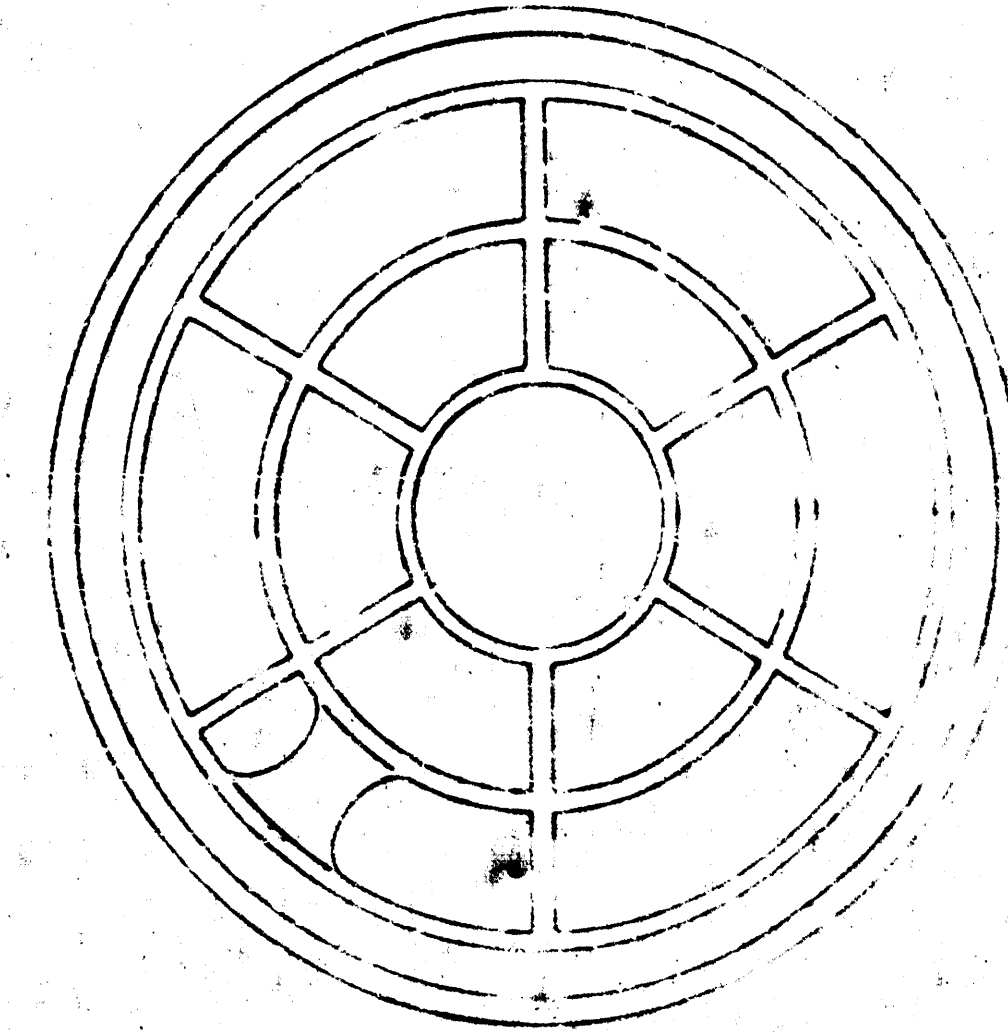
TOP VIEW



TOP VIEW



SECTION VIEW



BOTTOM VIEW

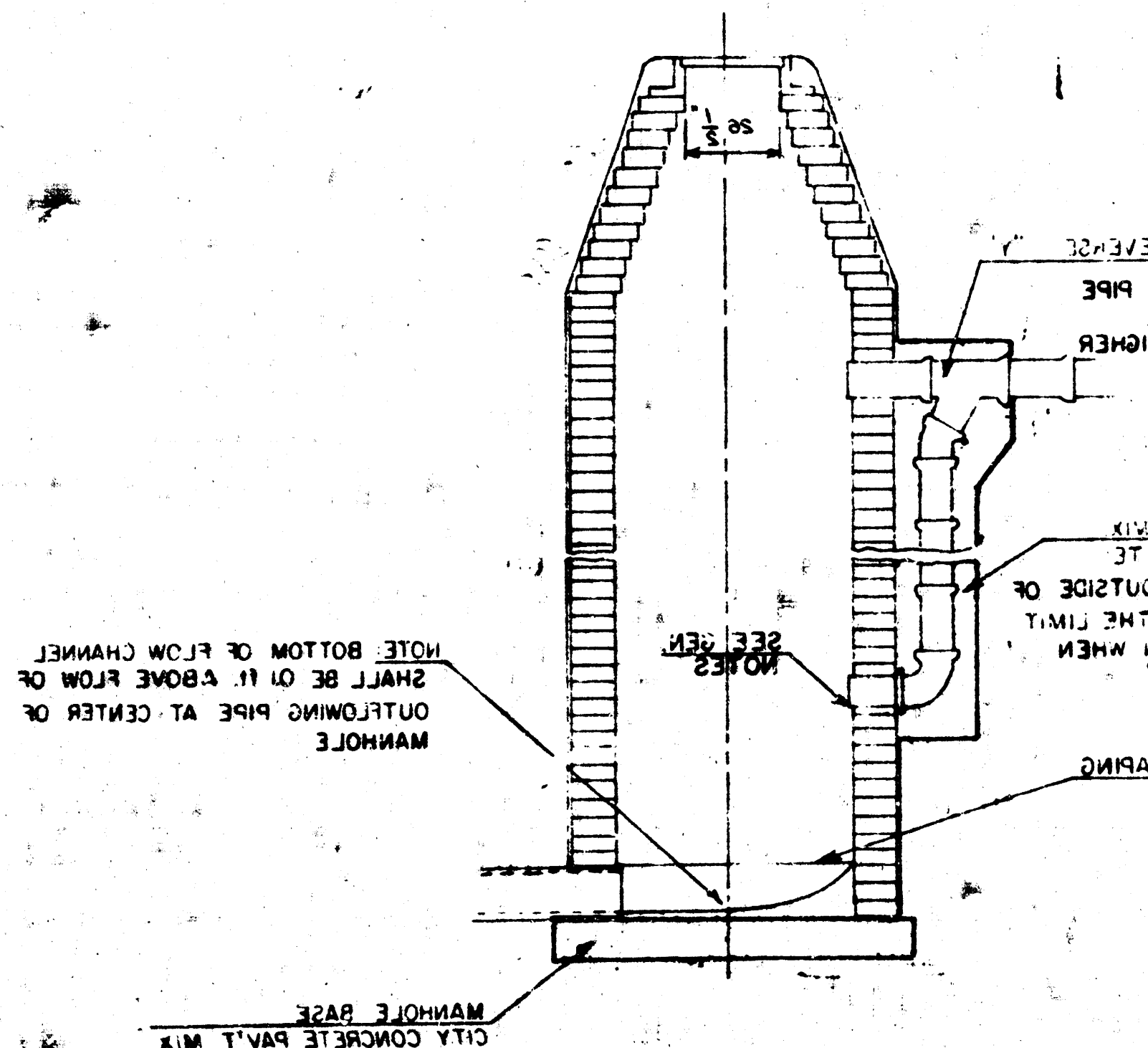


SECTION VIEW

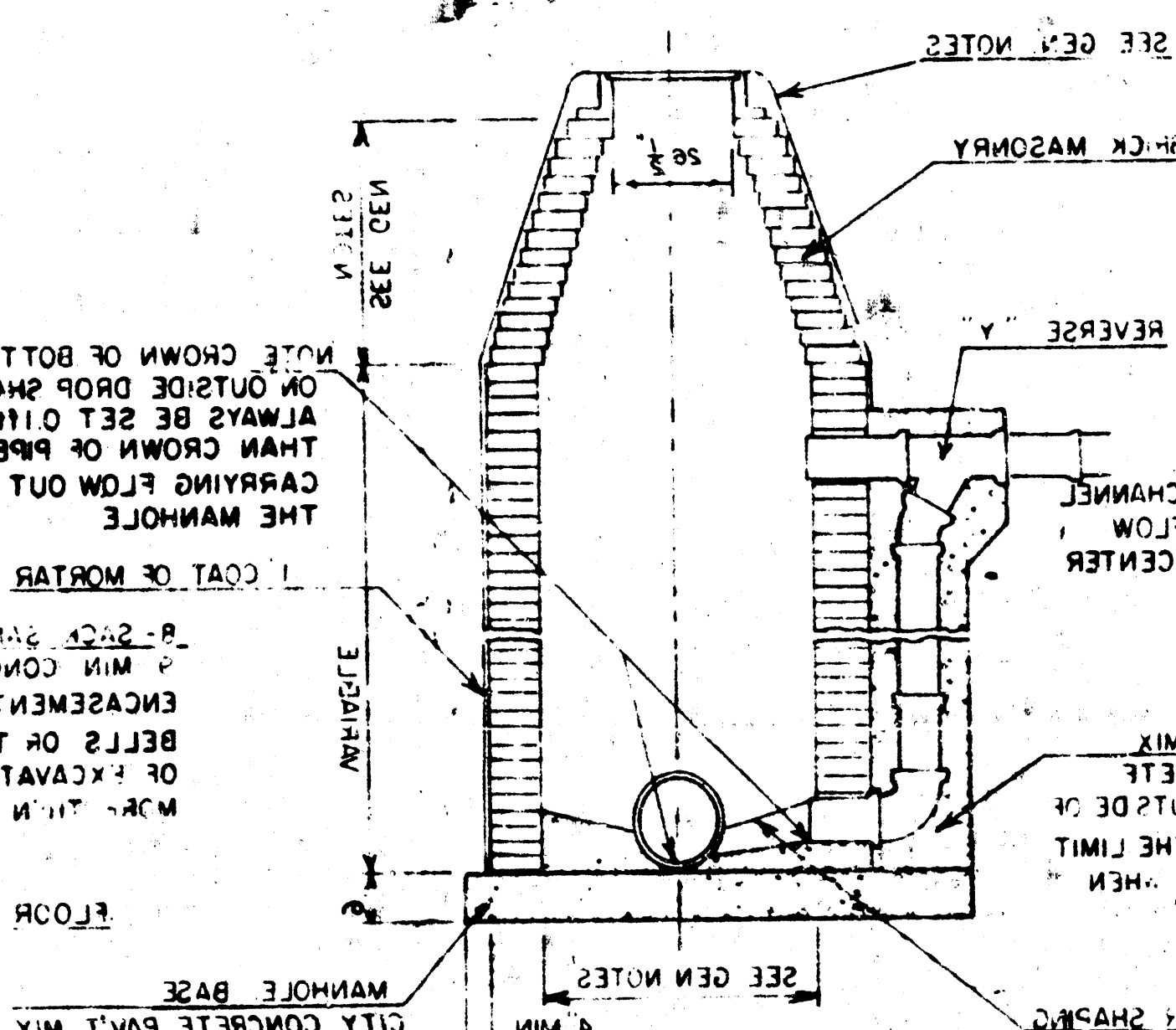
CITY of WICHITA, KANSAS ADOPTED AS STANDARD DESIGN BY SEWER APPURTENANCES DETAILS

REVISED SEPTEMBER 1980

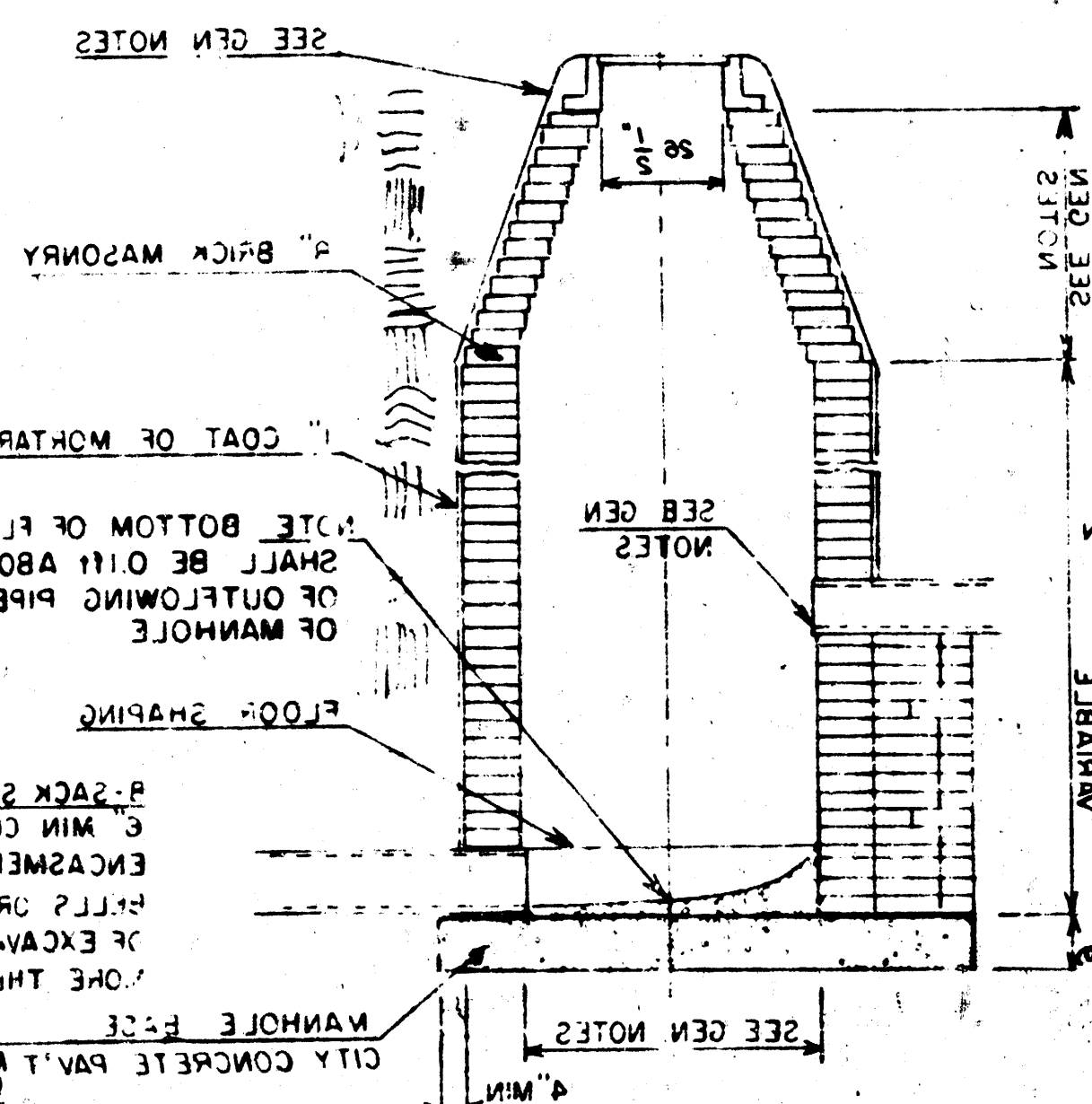
DETAIL OF OUTSIDE DROP
CONSTRUCTED ON EXISTING MANHOLE



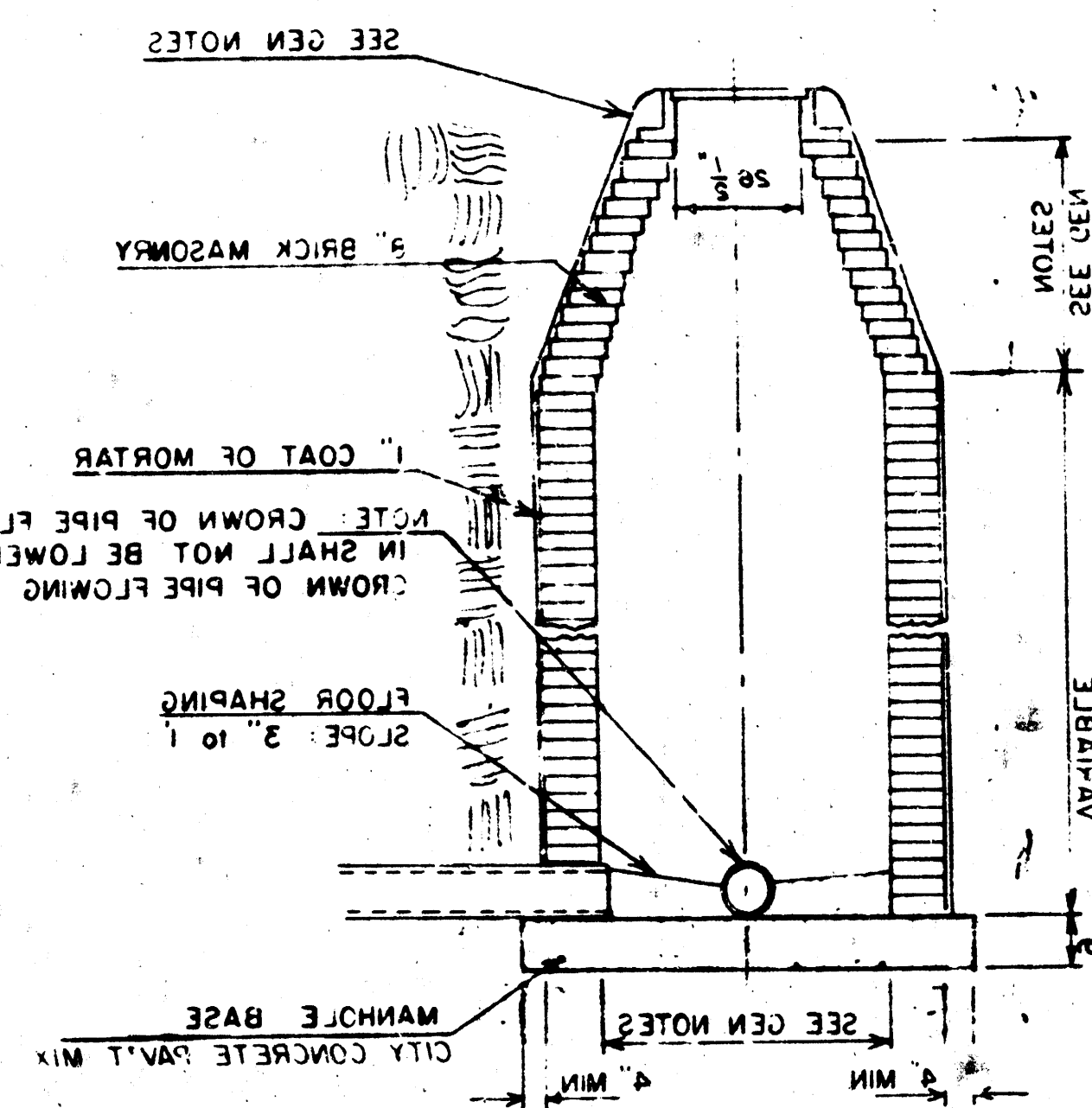
TYPE "A" OUTSIDE DROP MANHOLE



TYPE "A" INSIDE DROP MANHOLE



TYPE "A" MANHOLE



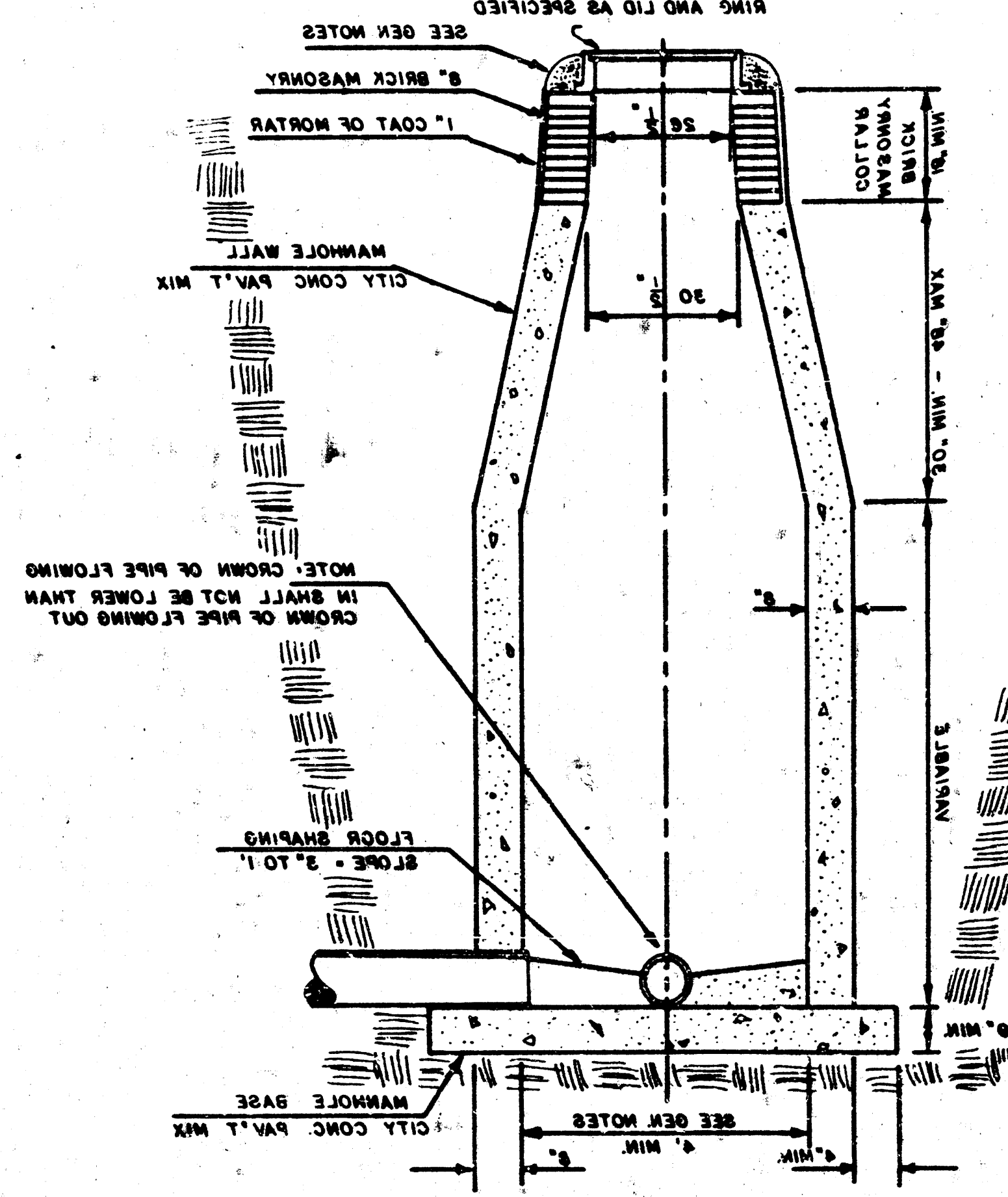
SEWER APPURTENANCES DETAILS

ADOPTED AS STANDARD DESIGN

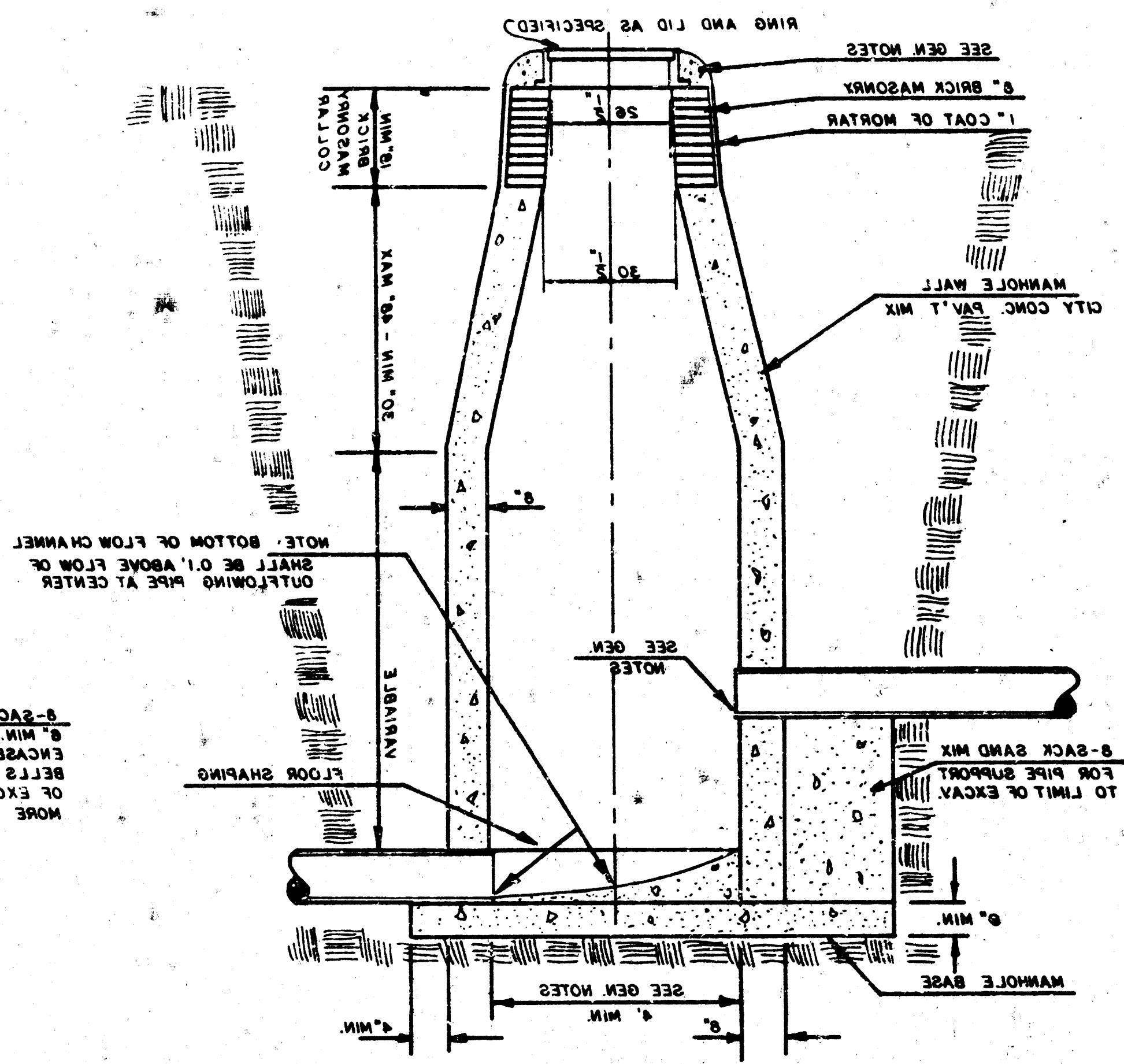
BY

City of Wichita, Kansas

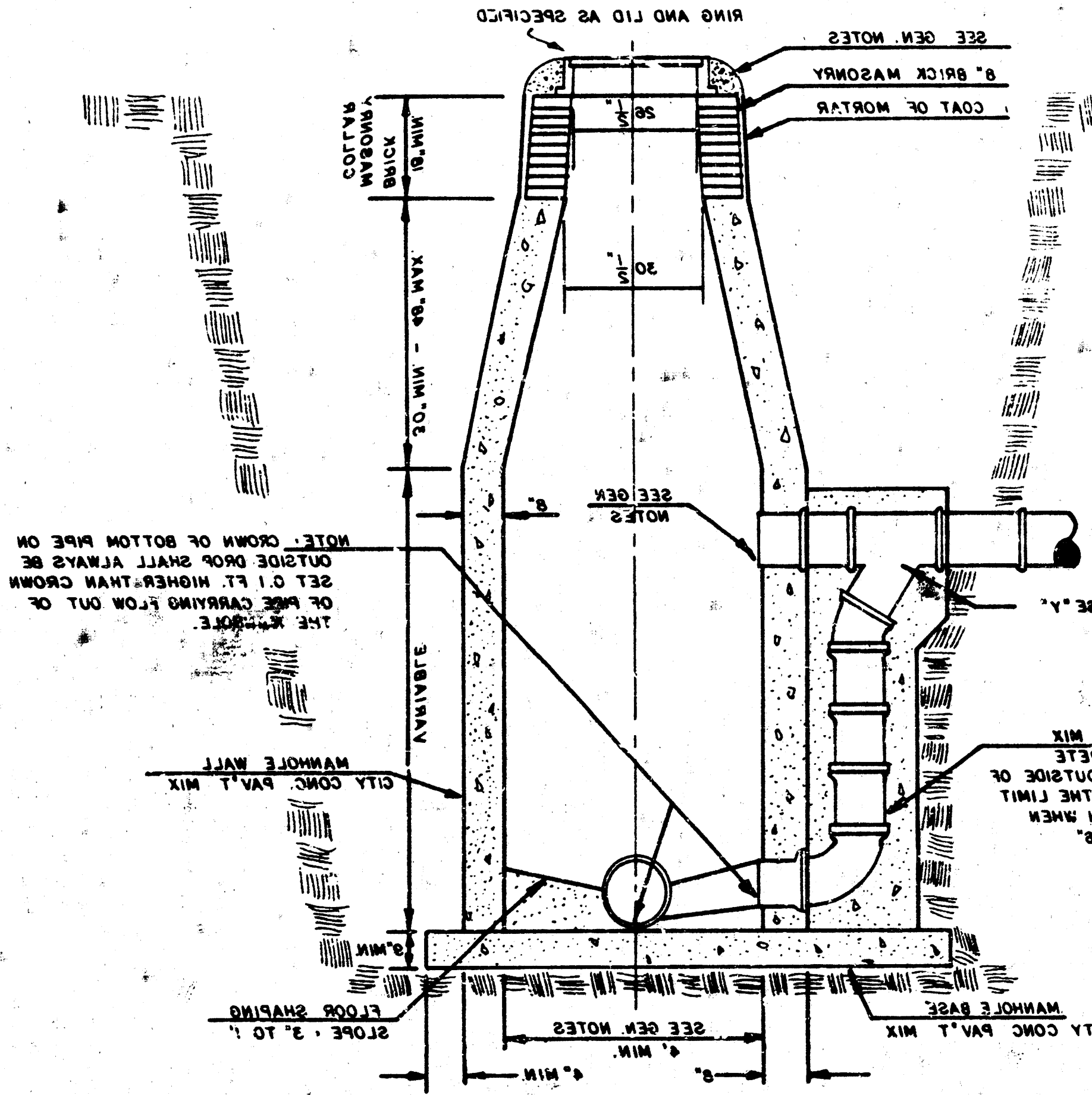
STANDARD MANHOLE TYPE "C"



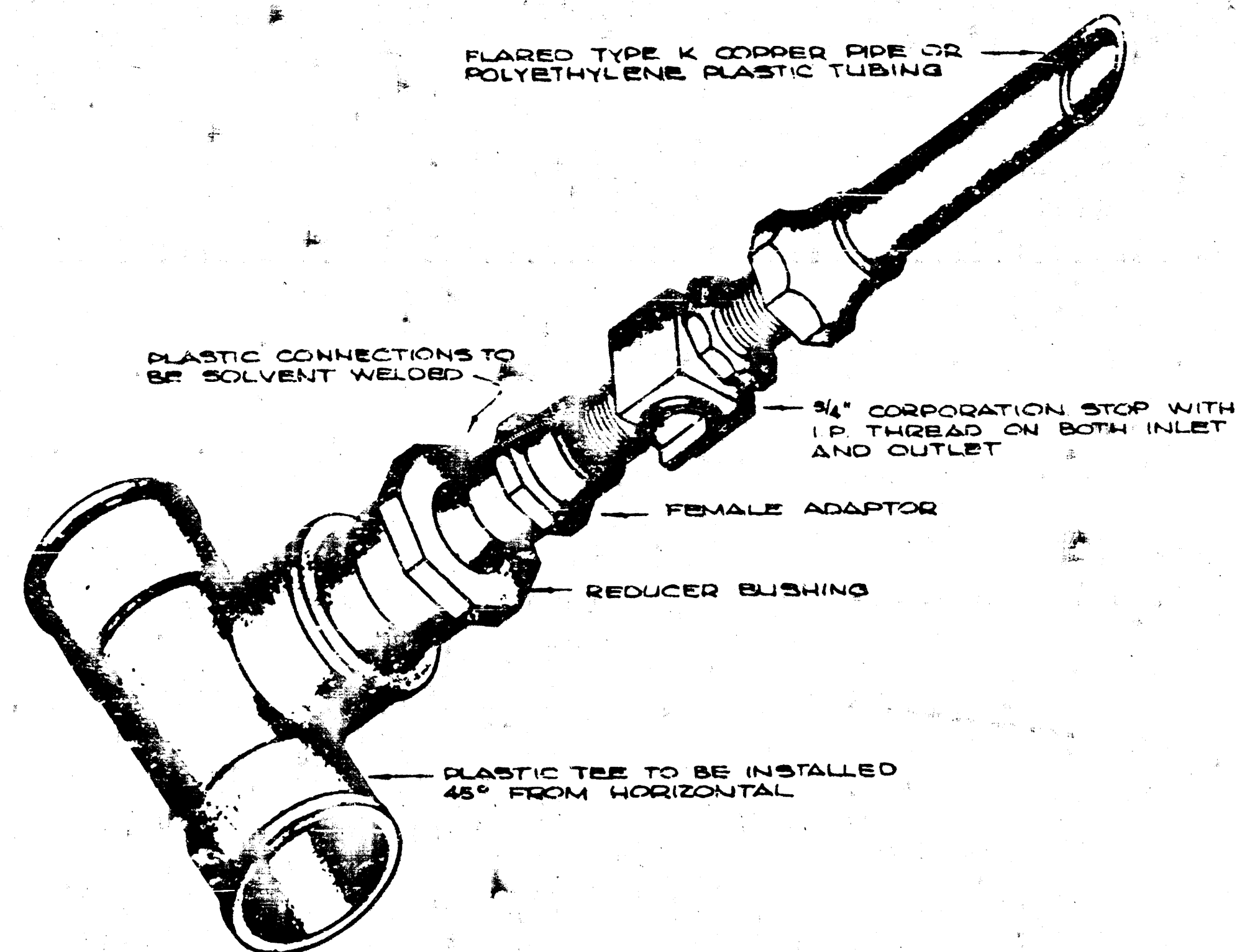
INSIDE DROP MANHOLE TYPE "C"



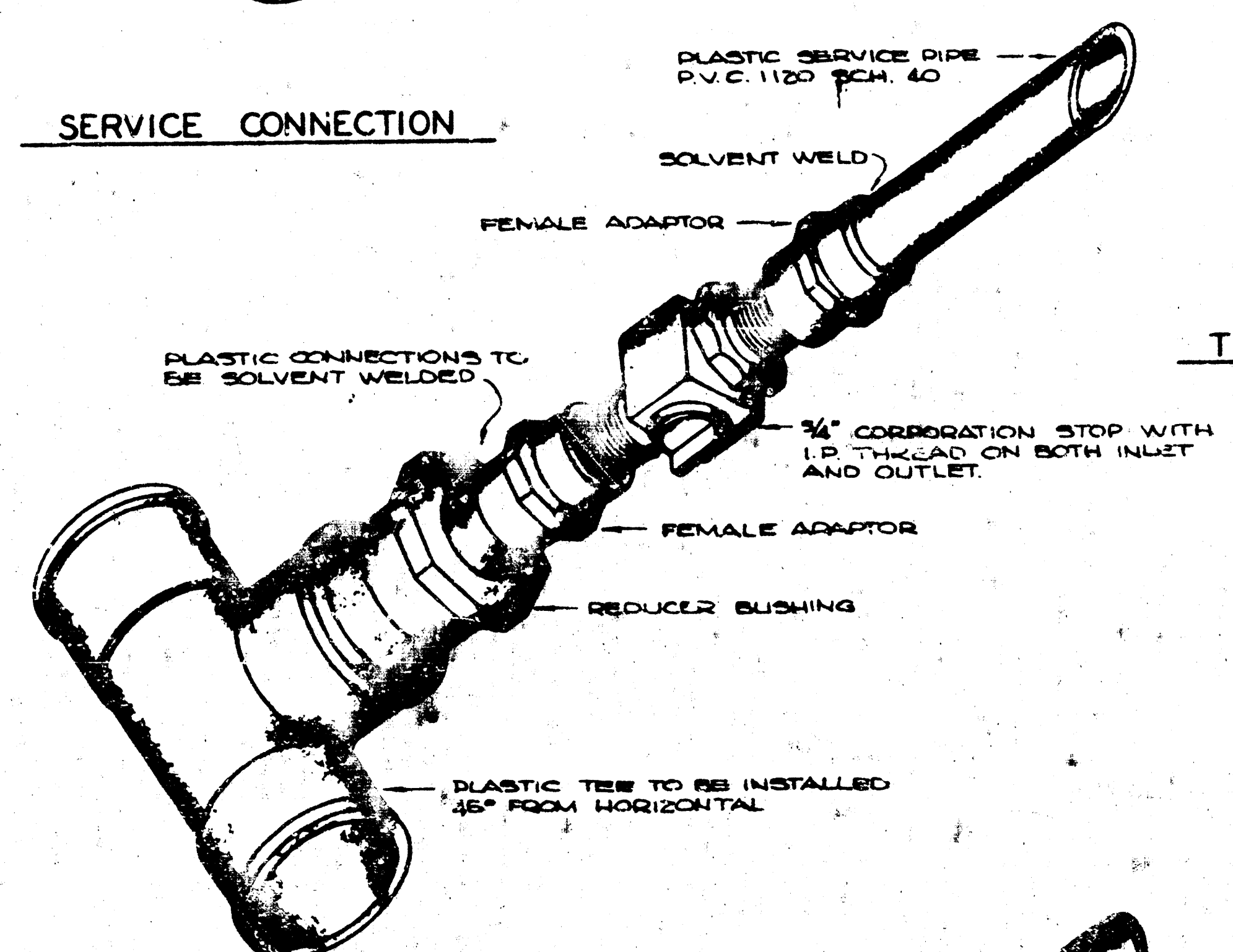
OUTSIDE DROP MANHOLE TYPE "C"



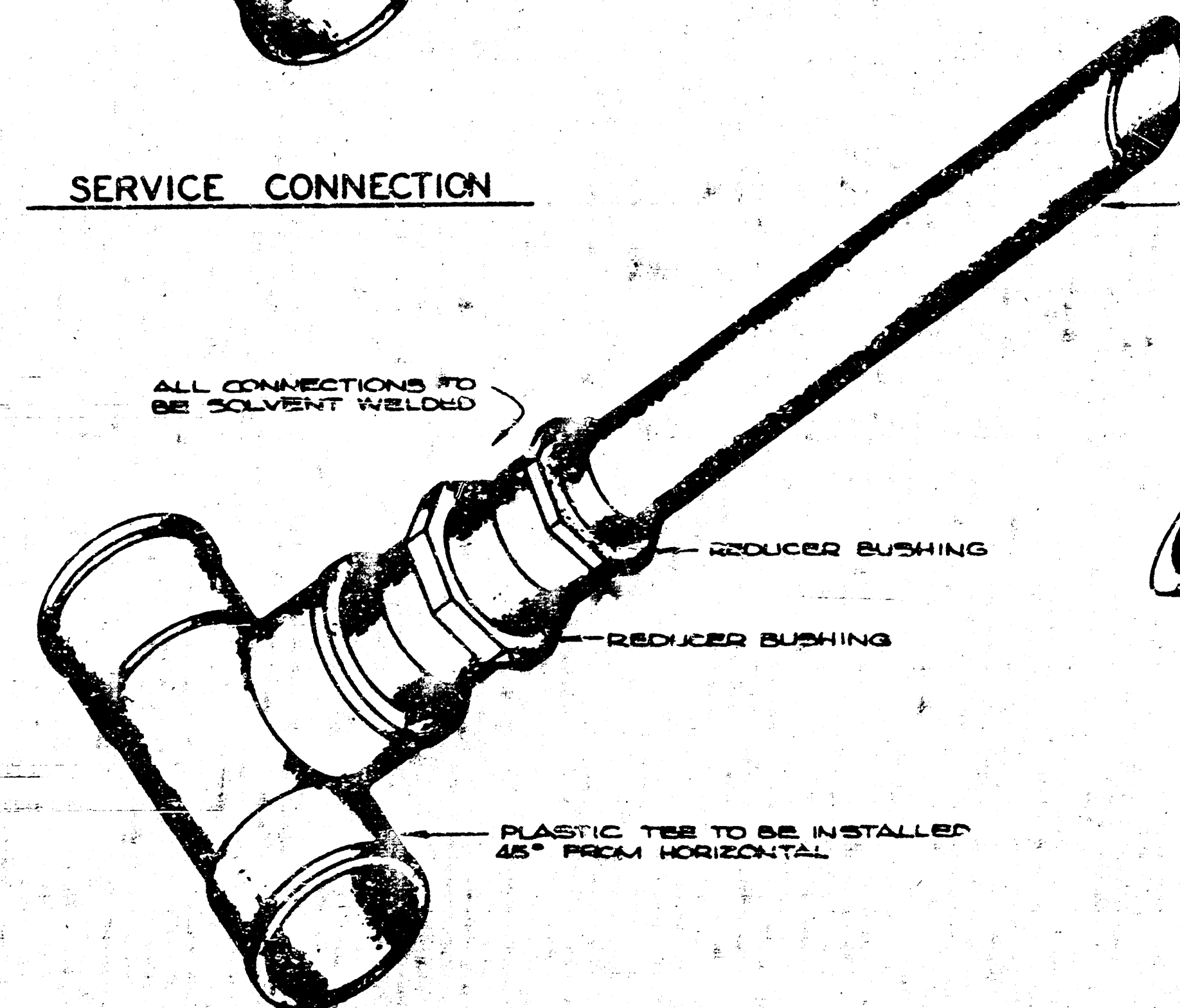
- GENERAL NOTES
1. MORTAR USED IN MASONRY CONSTRUCTION SHALL BE TYPE S MORTAR. THE MORTAR SHALL BE APPLIED TO THE SURFACE OF THE MASONRY IN A MANNER WHICH WILL INSURE A FULL JOINT. THE MORTAR SHALL BE APPLIED TO THE SURFACE OF THE MASONRY IN A MANNER WHICH WILL INSURE A FULL JOINT.
 2. THE MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR MASONRY. THE MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR MASONRY.
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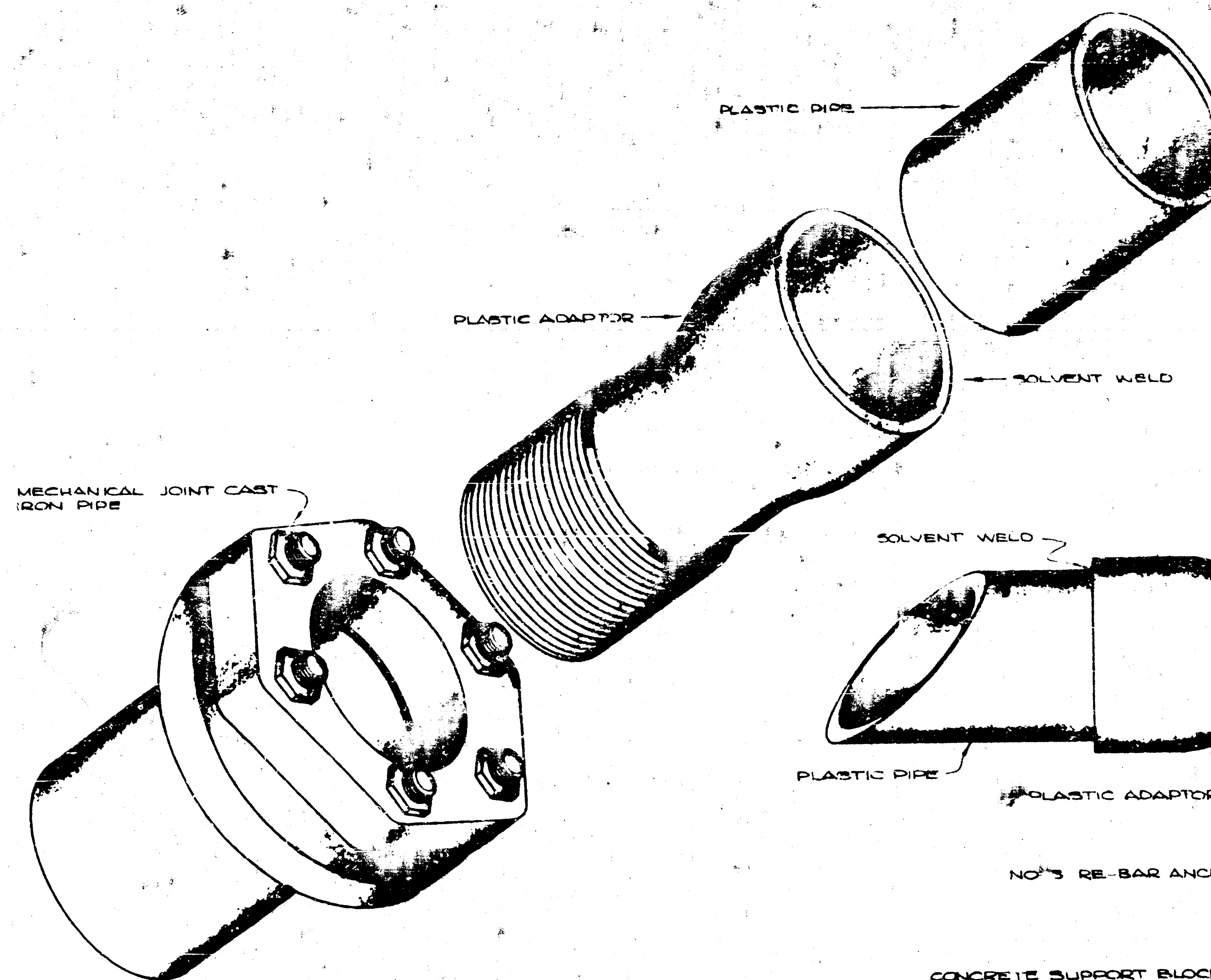
SERVICE CONNECTION



SERVICE CONNECTION

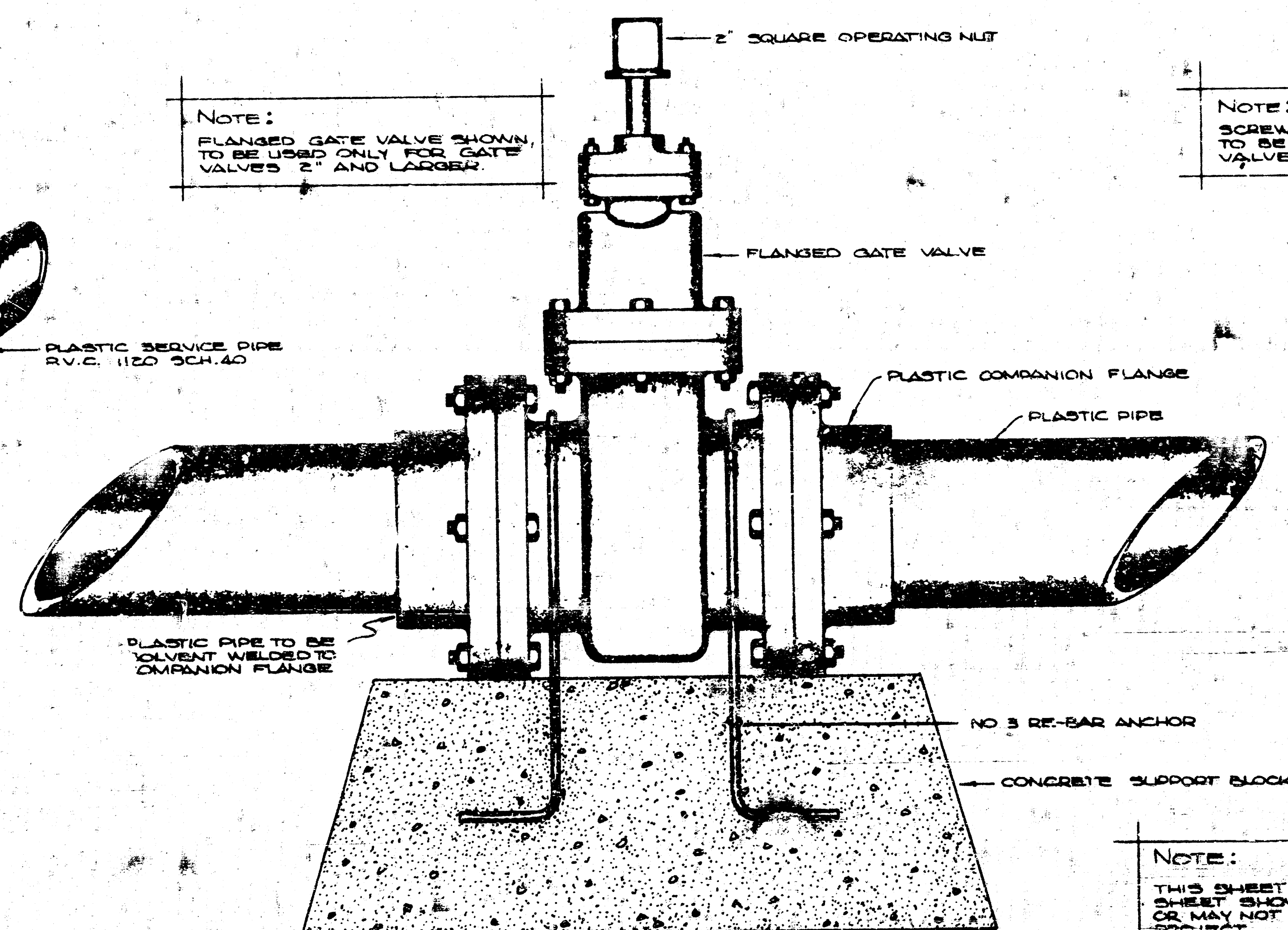


SERVICE CONNECTION



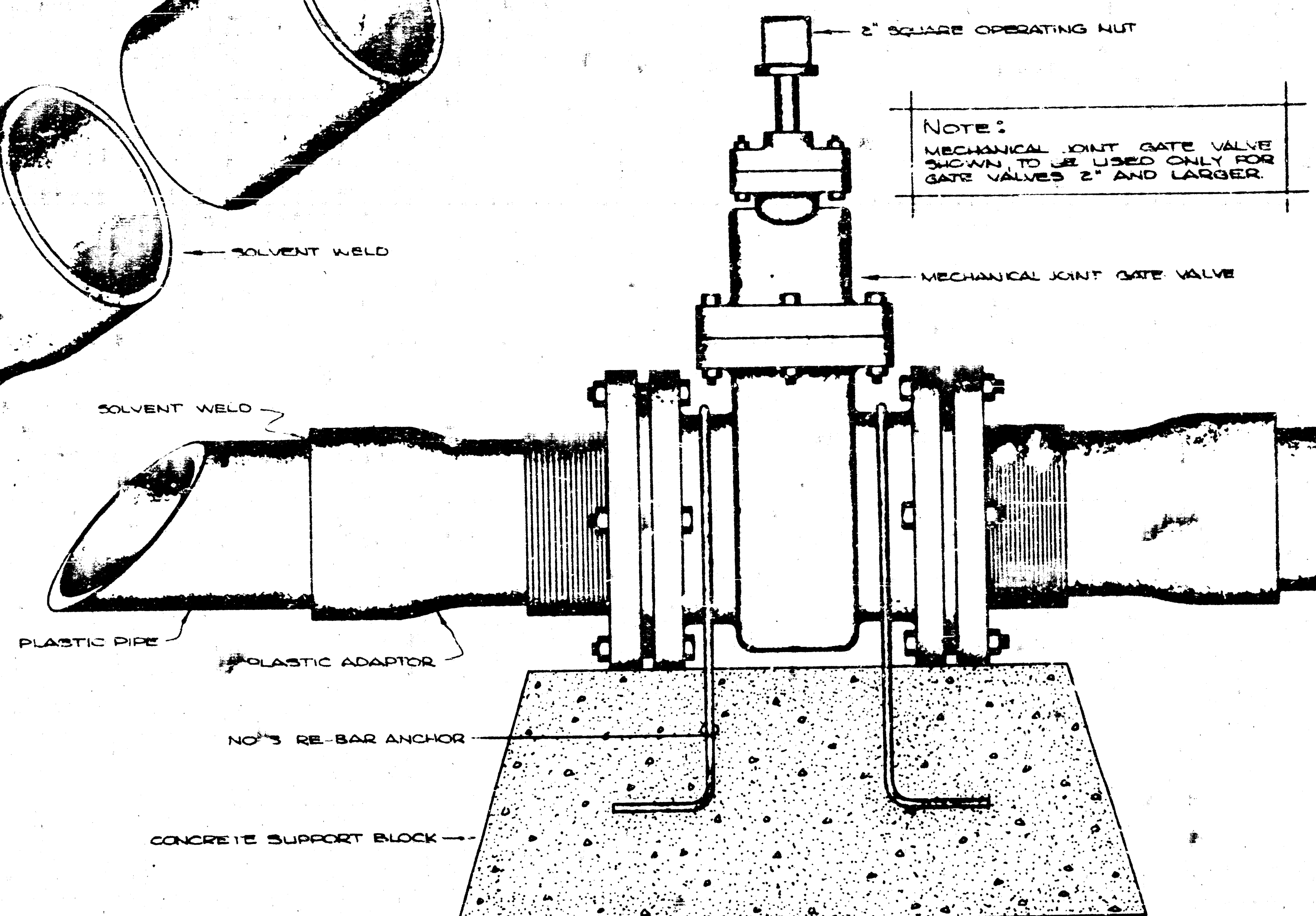
TYPICAL MECHANICAL JOINT C.I.P. TO PLASTIC PIPE

NOTE:
FLANGED GATE VALVE SHOWN,
TO BE USED ONLY FOR GATE
VALVES 2" AND LARGER.



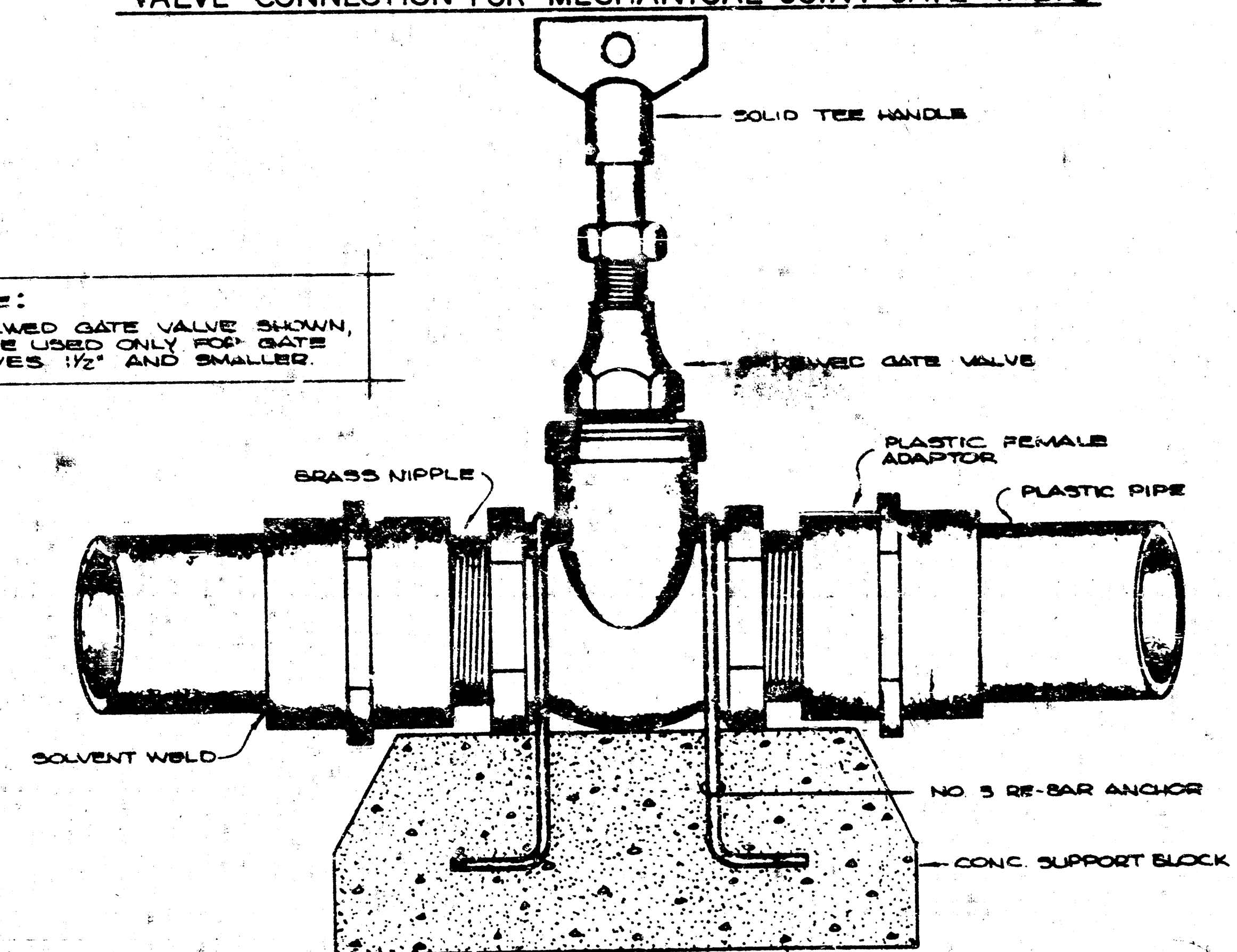
VALVE CONNECTION FOR FLANGED GATE VALVE

NOTE:
THIS SHEET IS A STANDARD DETAIL
SHEET SHOWING DETAILS WHICH MAY
OR MAY NOT BE INCLUDED ON A SPECIFIC
PROJECT.



VALVE CONNECTION FOR MECHANICAL JOINT GATE VALVE

NOTE:
SCREWED GATE VALVE SHOWN,
TO BE USED ONLY FOR GATE
VALVES 1 1/2" AND SMALLER.

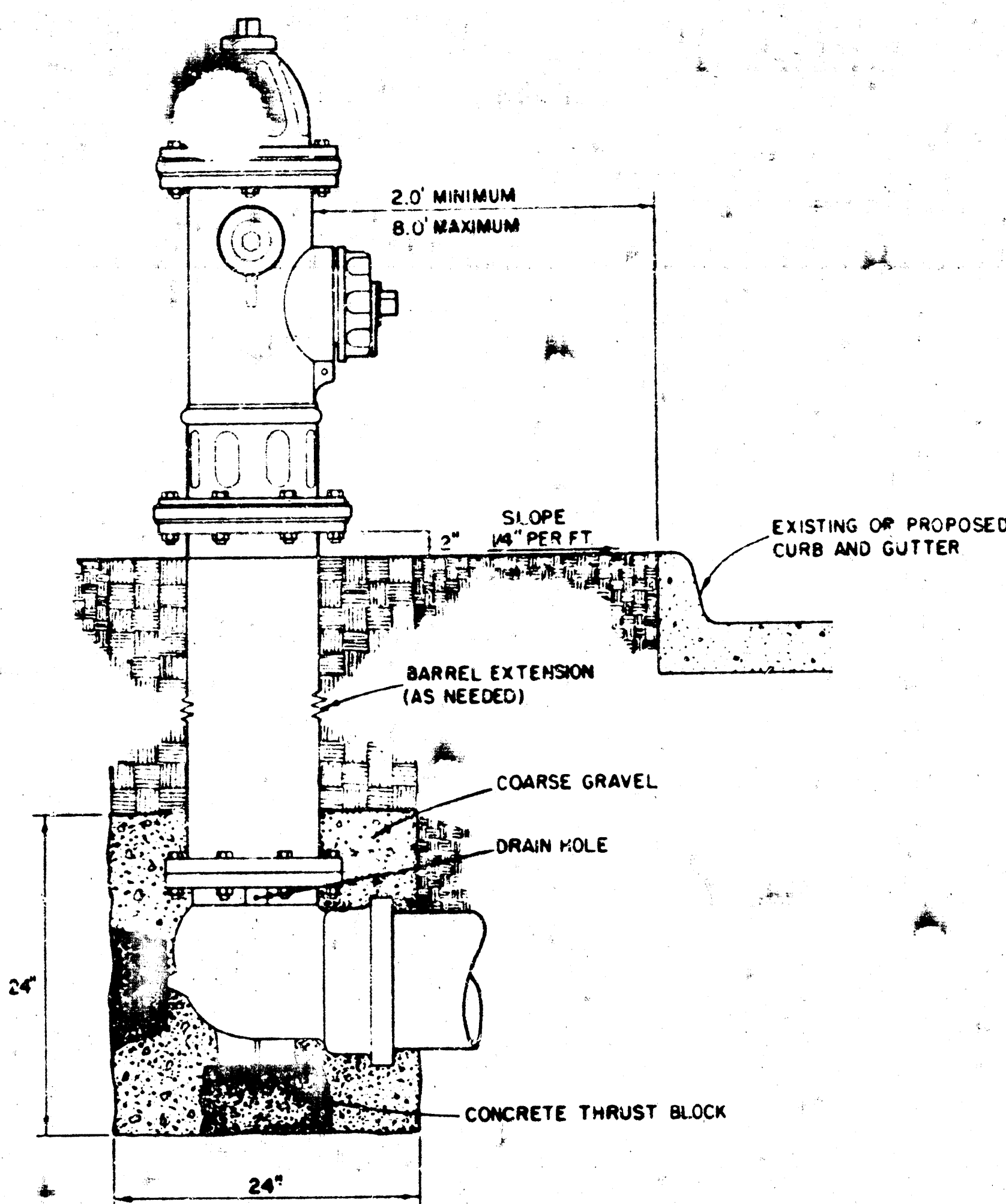


VALVE CONNECTION FOR SCREWED GATE VALVE

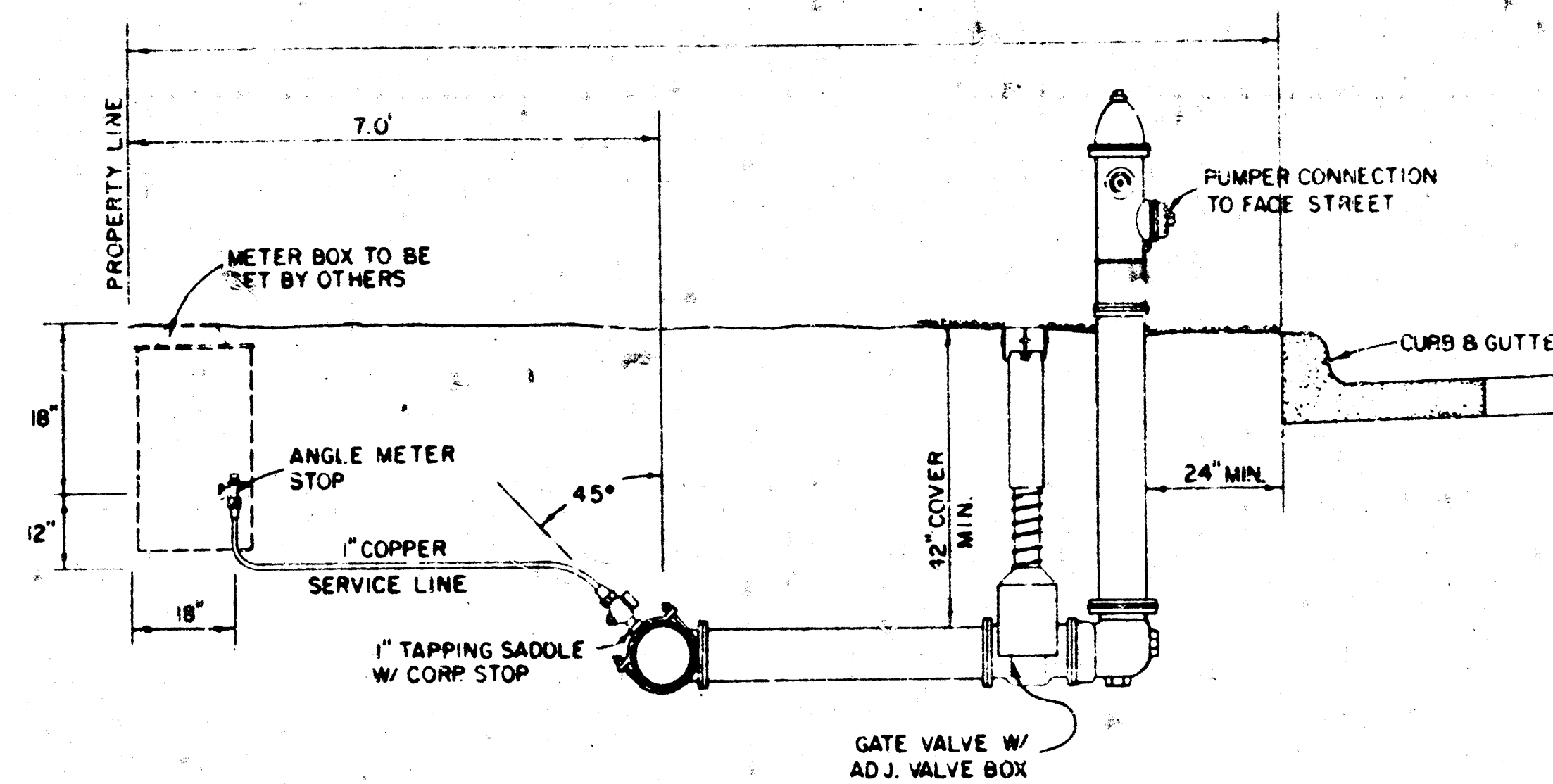
NOTE:
MECHANICAL JOINT GATE VALVE
SHOWN TO BE USED ONLY FOR
GATE VALVES 2" AND LARGER.

REISS & GOODNESS ENGINEERS
2160 WEST 21ST STREET
WICHITA, KANSAS 67204
(316) 532-0283

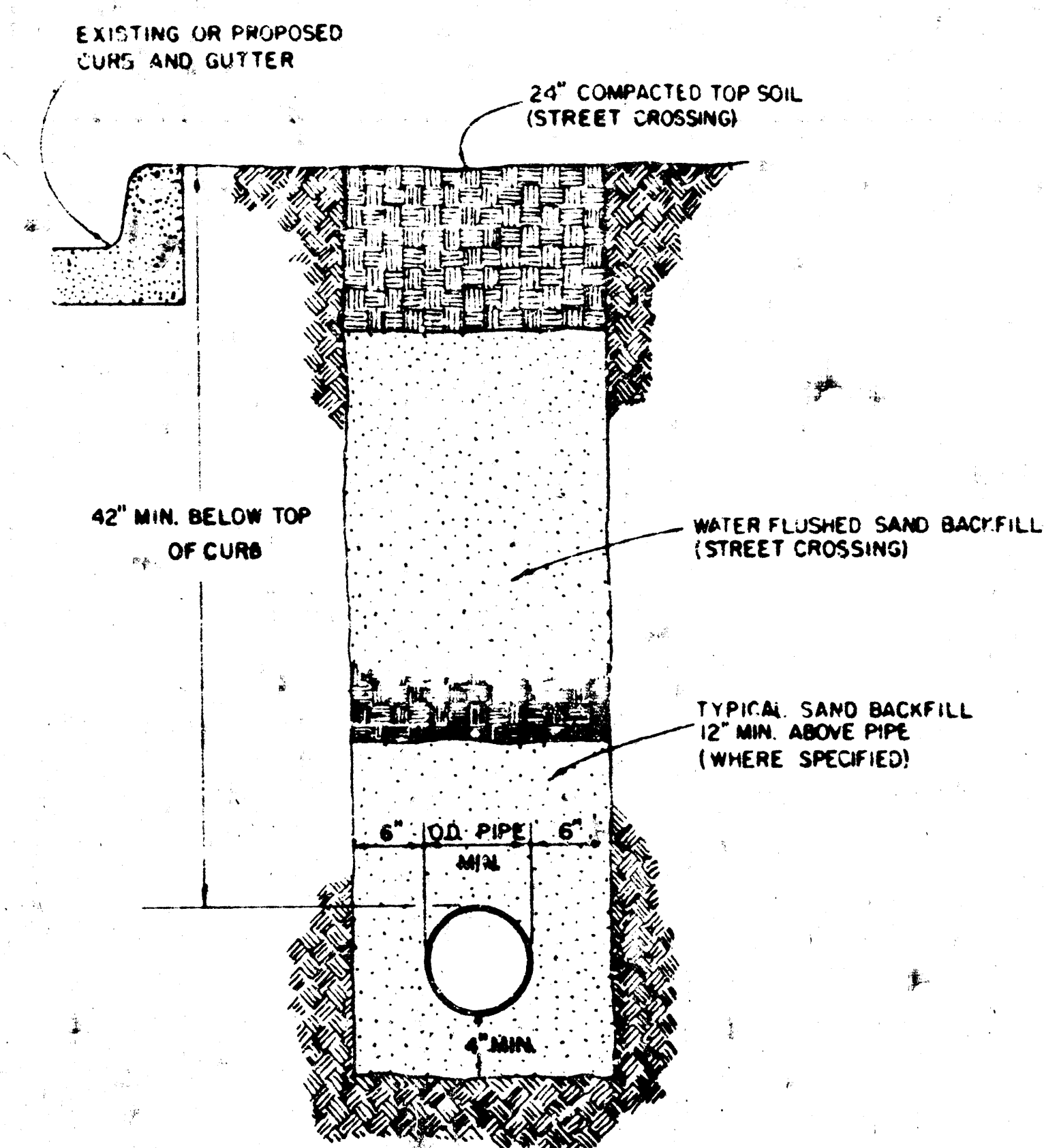
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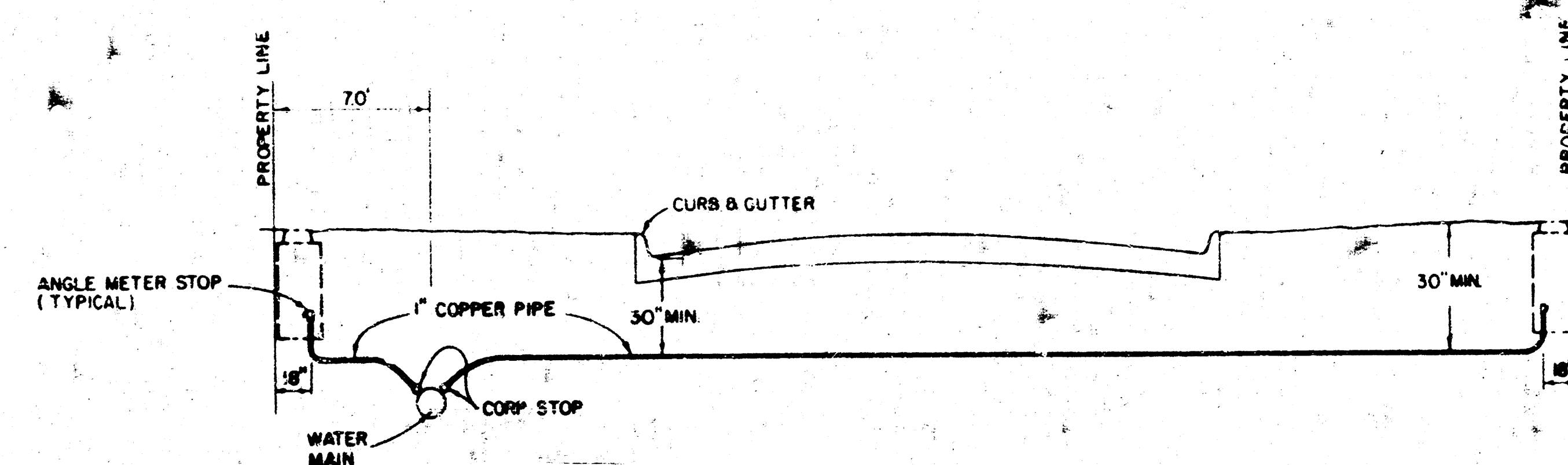
FIRE HYDRANT SETTING DETAIL



TYPICAL SERVICE & FIRE HYDRANT LOCATION

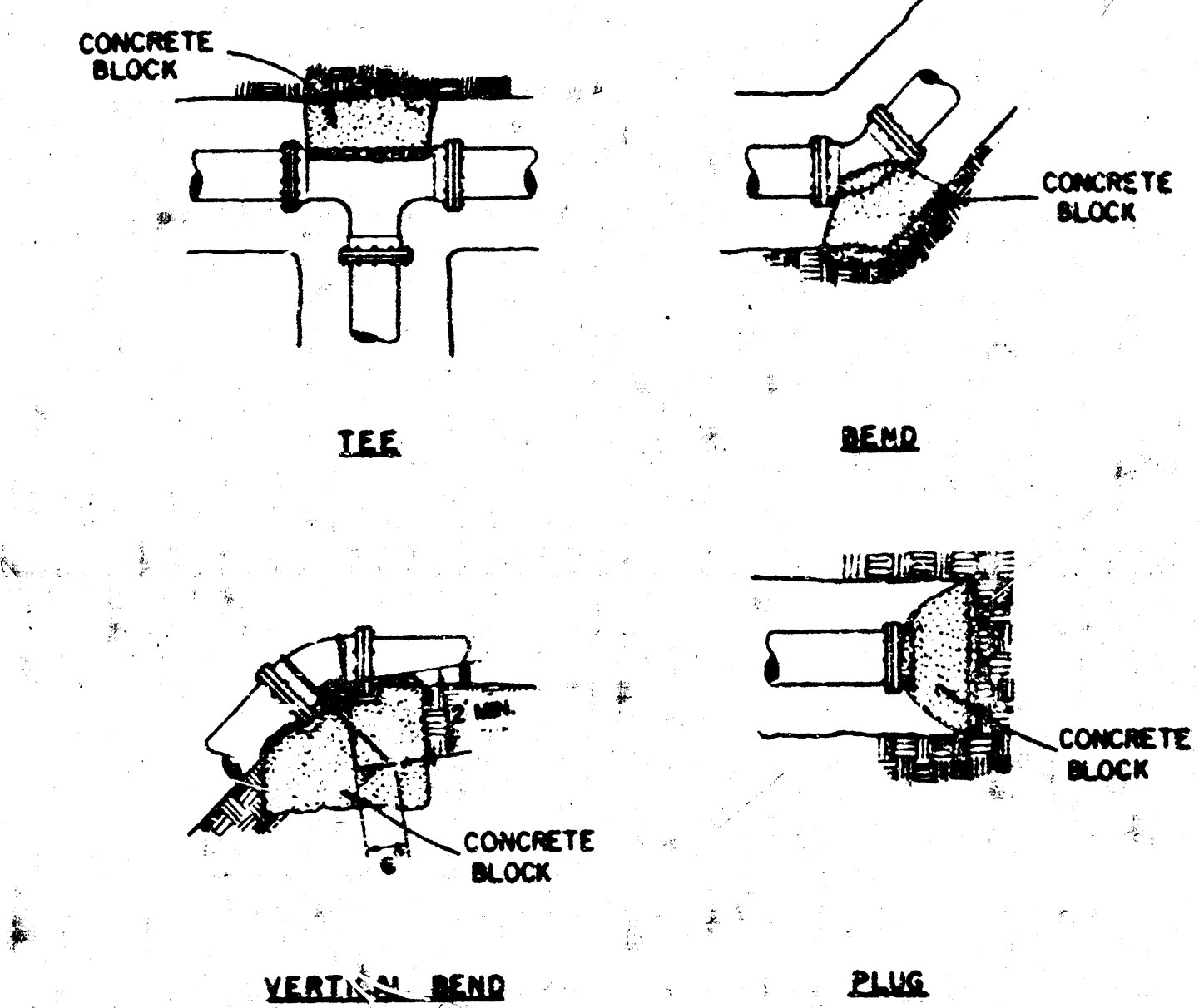


TRENCH DETAIL



TYPICAL SERVICE INSTALLATION

NOTE
TRENCH TO BE FILLED WITH FLUSHED AND VIBRATED SAND TO WITHIN 12" OF FINISHED GROUND ELEVATION OR TO PAVEMENT BASE UNDER PAVEMENT.



PIPE SIZE	THRUST AT FITTINGS IN TONS (AT 150° / IN. P.)					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
8"	2.8	3.95	2.15	1.09	.55	2.8
10"	4.9	6.95	3.75	1.90	.96	4.5
12"	11.4	16.1	8.75	4.45	2.23	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.1	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

THRUST BLOCKS

REISS & GOODNESS ENGINEERS
2100 WEST 31ST STREET
WICHITA, KANSAS 67204
(316) 838-0225