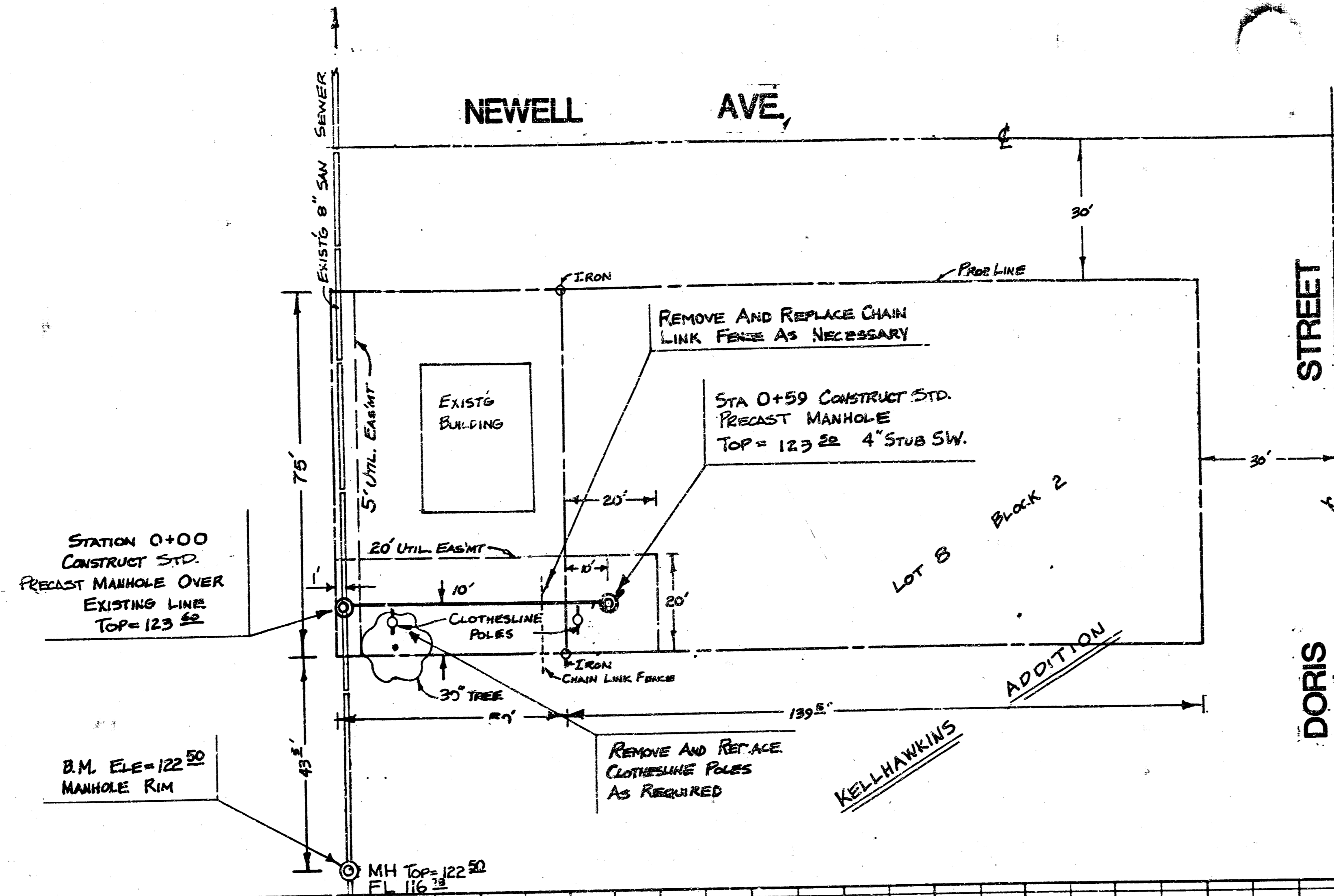


PLAN SURVEYED BY DATE
 NOTE BOOK NO. OF WAY CHECKED NO.
 BY

PROFILE SURVEYED BY DATE
 NOTE BOOK NO. OF WAY CHECKED NO.
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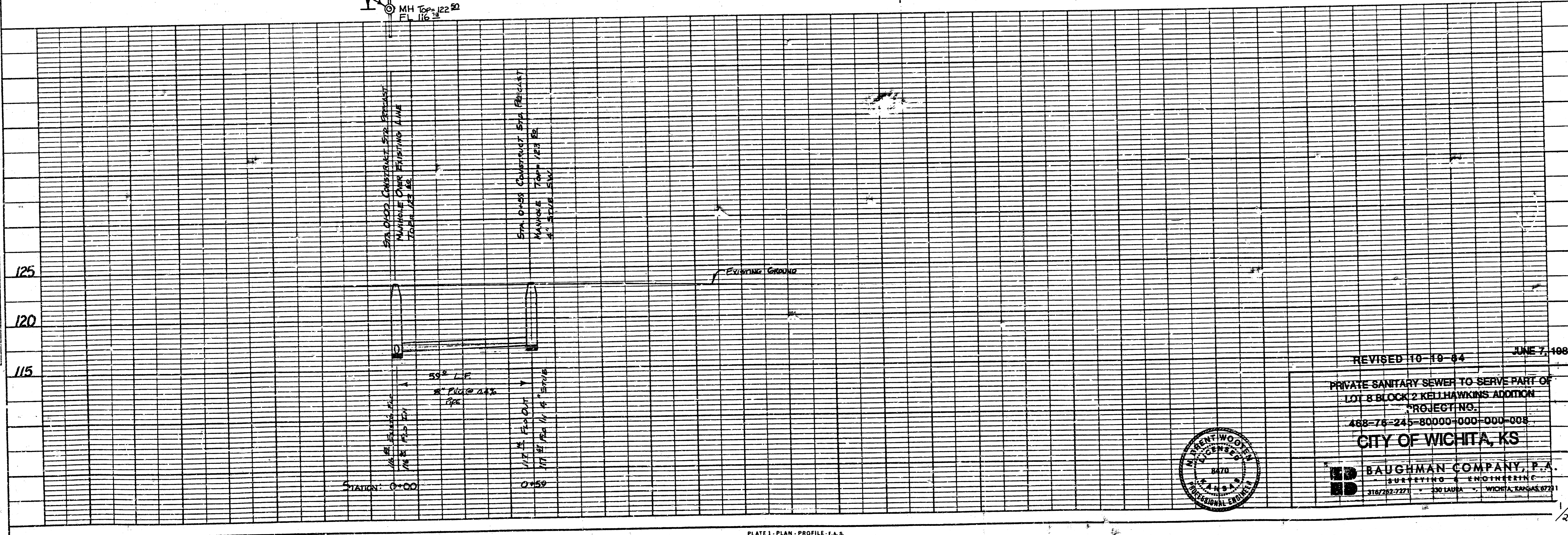


SCALE: 1" = 20' PLAN
 1" = 20' PROFILE HORIZ
 1" = 5' PROFILE VERT

10-19-84

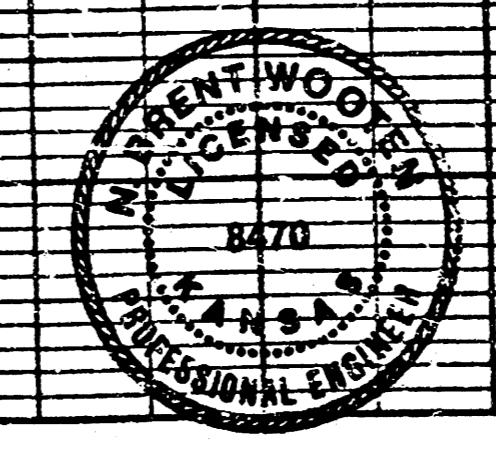
APPROVED AS NOTED
 By CITY ENGINEER OF WICHITA
 Sanitary Sewers _____
 Storm Sewers _____
 Driveway Approaches _____

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 prepare the City of Wichita for all costs of inspection.



REVISED 10-19-84 JUNE 7, 1984

PRIVATE SANITARY SEWER TO SERVE PART OF
 LOT 8 BLOCK 2 KELLHAWKINS ADDITION
 PROJECT NO.
 468-76-245-80000-000-000-008
 CITY OF WICHITA, KS



BAUGHMAN COMPANY, P.A.
 SURVEYING & ENGINEERING
 316/262-7271 • 300 LAUREL • WICHITA, KANSAS 67211

GENERAL NOTES

CONCRETE USED IN CONCRETE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. ALL INSIDE SURFACES OF THE MANHOLE WALL WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE PROTECTED BY COATING SUCH SURFACES WITH TWO COATS OF SERIES 66 HI-BUILD EXPOLINE AS MANUFACTURED BY TENACOR OR APPROVED EQUAL. EACH COAT SHALL HAVE A DRY FILM THICKNESS OF BETWEEN 4 TO 6 MILS. SUCH COATING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASE. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. REINFORCING STEEL SHALL BE PLACED 3" ABOVE THE BOTTOM OF THE MANHOLE BASE.

PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE ENCASED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE ENCASEMENT SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. ENCASEMENT SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLATNESS OF THE JOINT. COST OF ENCASEMENT WITHIN MANHOLE EXCAVATION OF TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

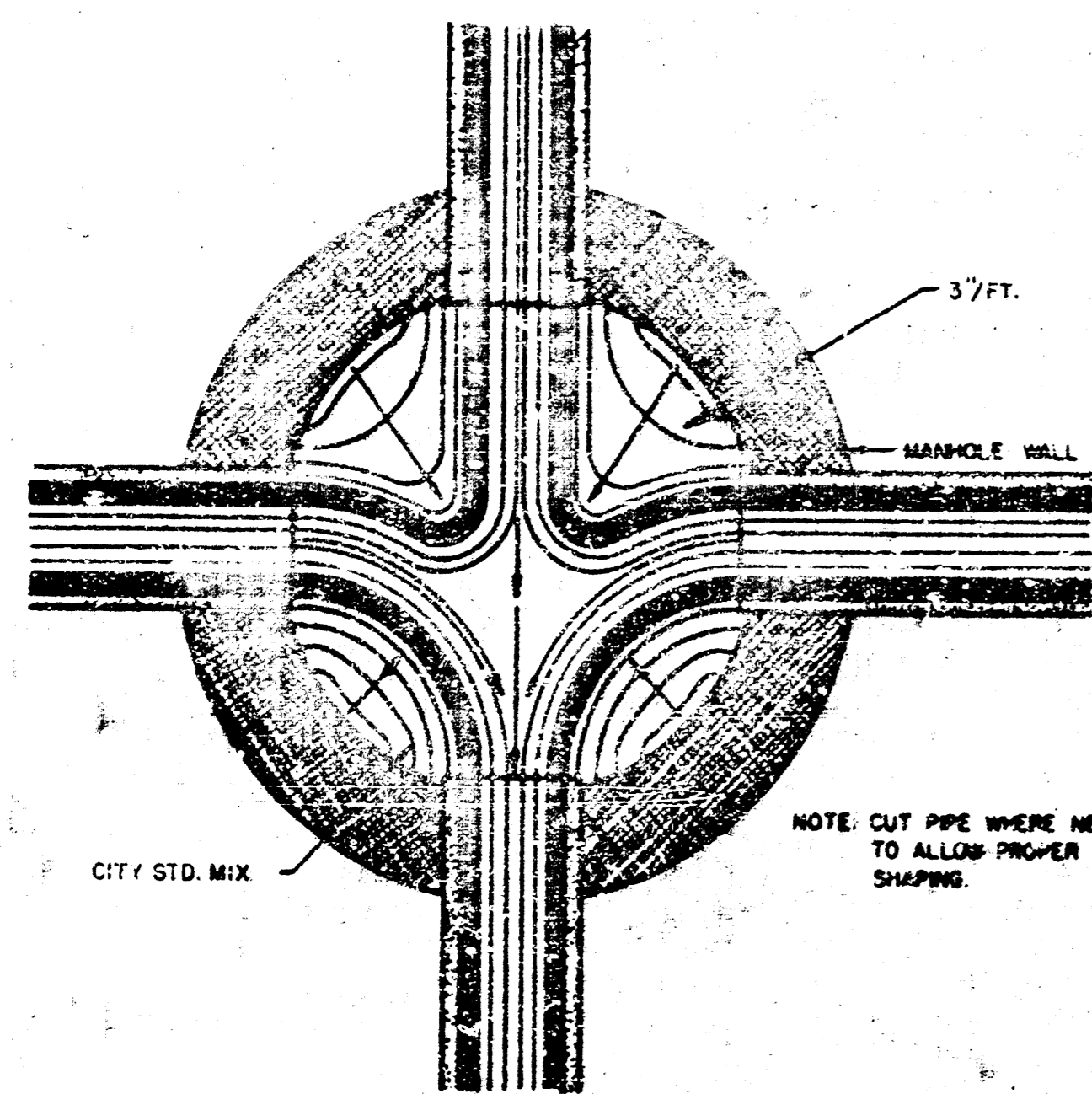
ALL PIPE GROUTING SHALL BE DONE WITH NON-METALIC SHRINKAGE CORRECTING GROUTS SUCH AS MASTER BUILDER'S "EMBECCO 713" SET PRODUCTS INC. "SET"; OR AN APPROVED EQUAL. THE GROUTED INLET PIPE CONNECTION SHALL BE SEALED ON THE EXTERIOR WITH BITUMASTIC SUPER SERVICE BLACK AS MANUFACTURED BY KOPPERS, TARMASTIC 103 AS MANUFACTURED BY UNITED STATES STEEL, 450 HEAVY TENEMECOL AS MANUFACTURED BY TENEMEC OR AN APPROVED EQUAL. APPLICATION SHALL CONFORM TO MANUFACTURER'S REQUIREMENTS.

THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWER FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWINGS. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.

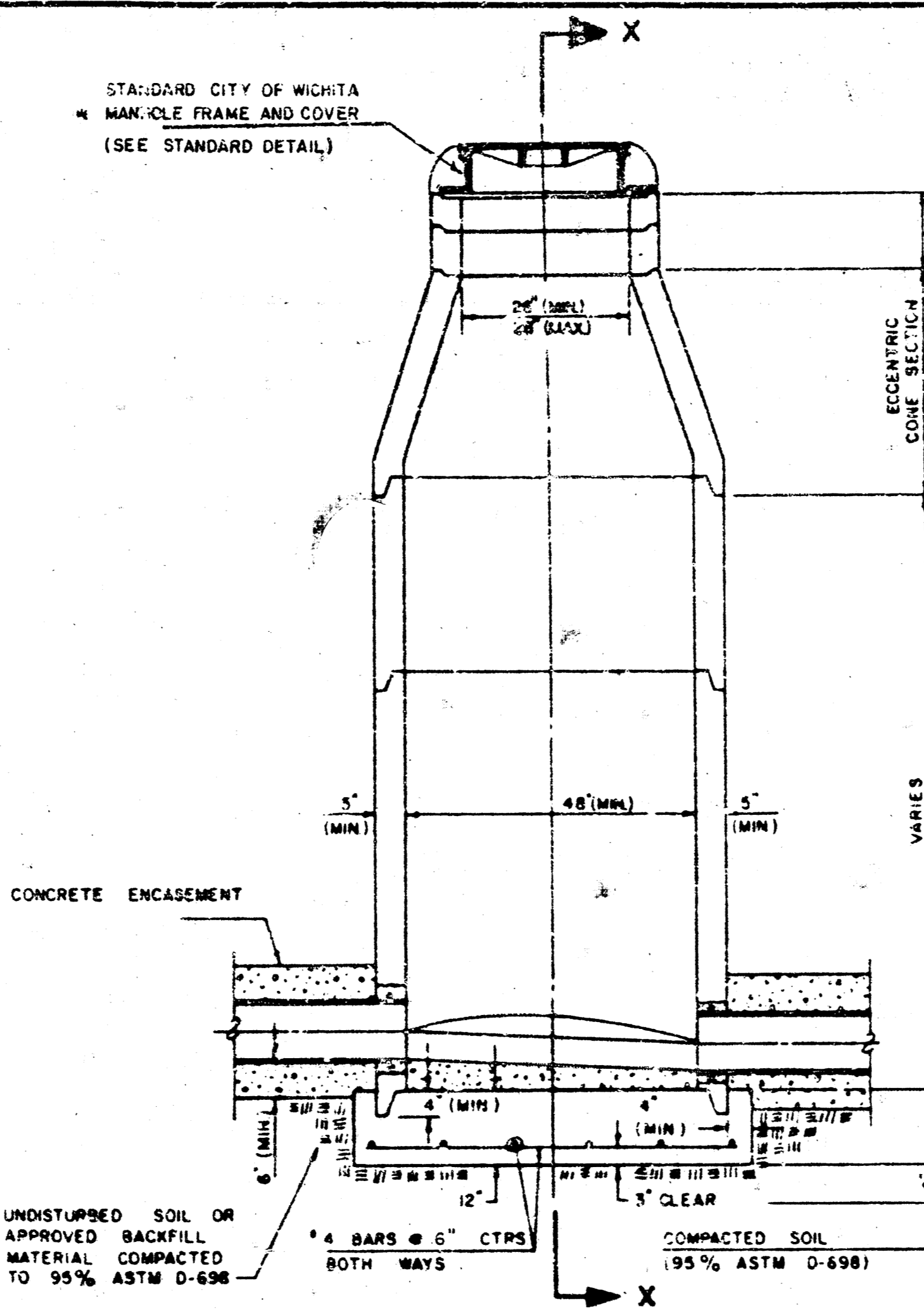
MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.

THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

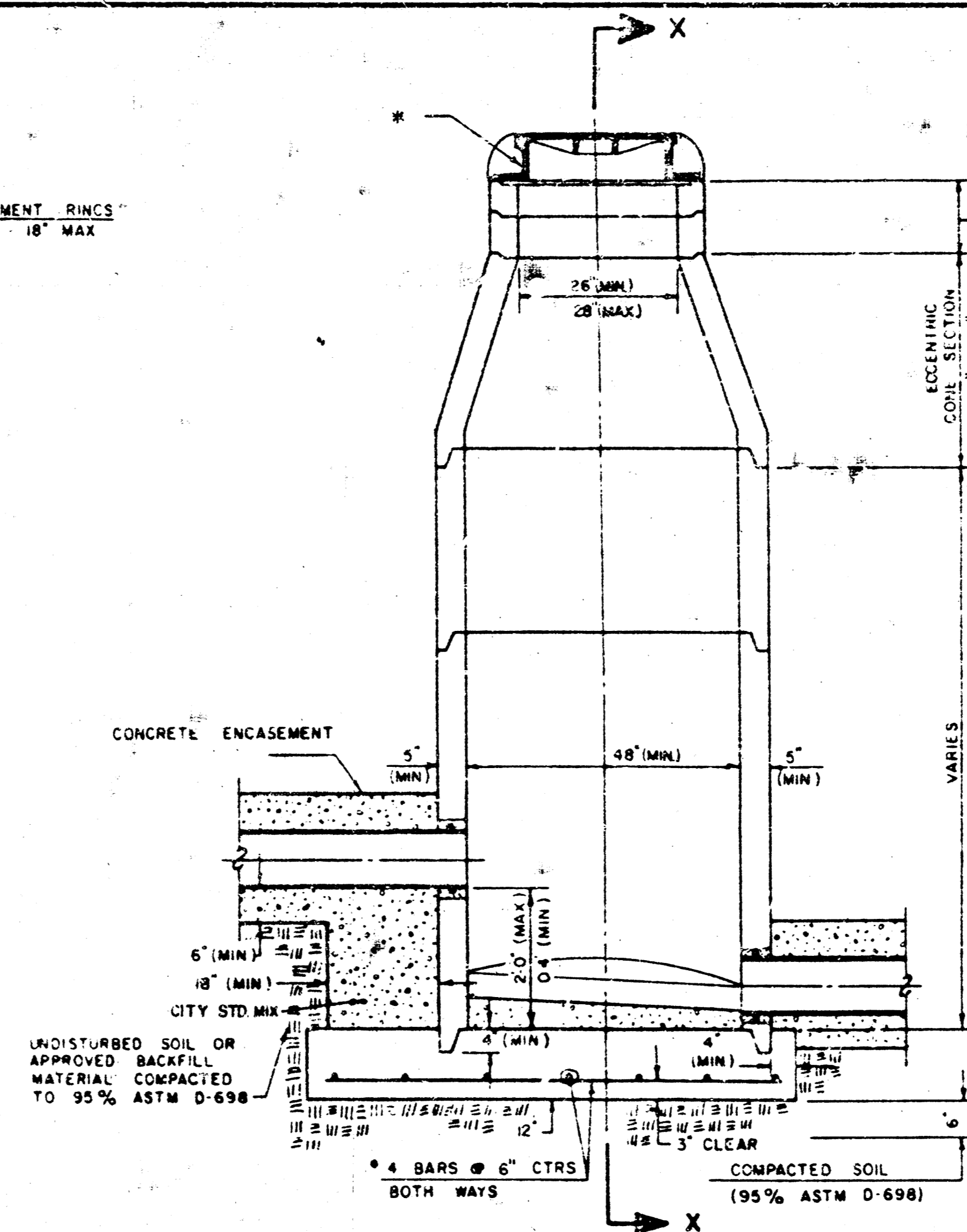
BUTYL-RUBBER JOINT SEALER SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.



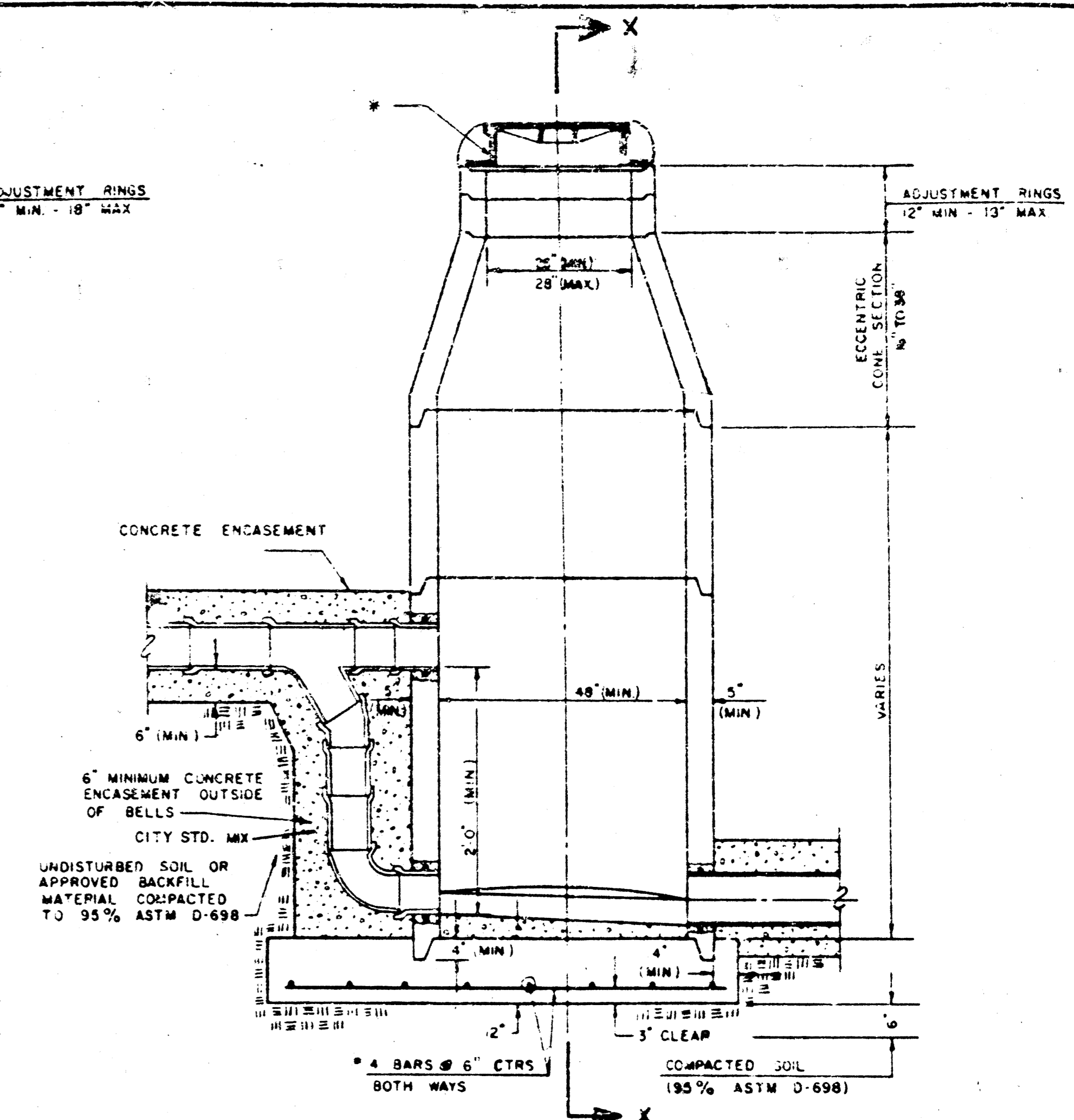
TYPICAL MANHOLE FLOOR SHAPING



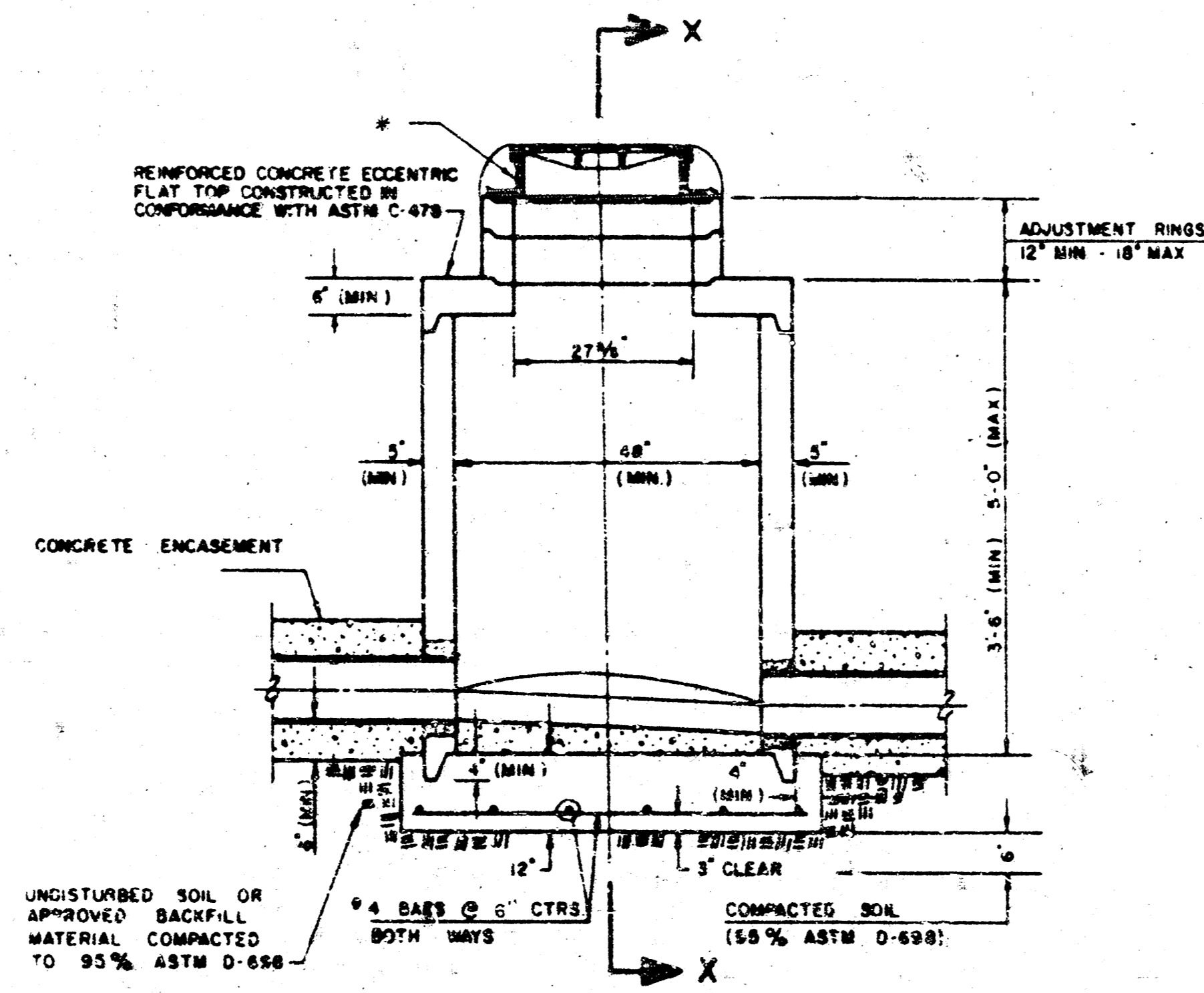
PRECAST STANDARD MANHOLE



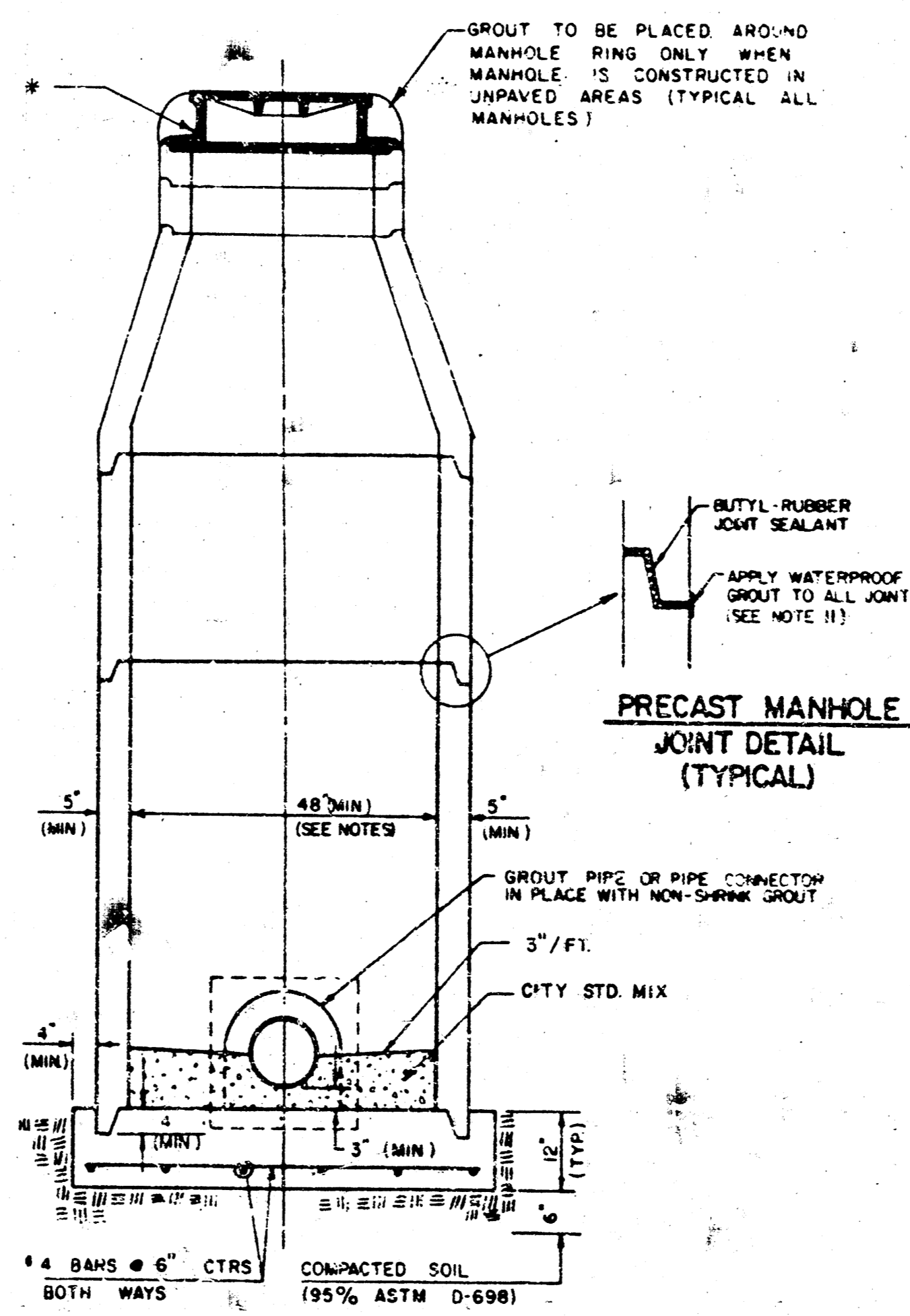
PRECAST INSIDE DROP MANHOLE



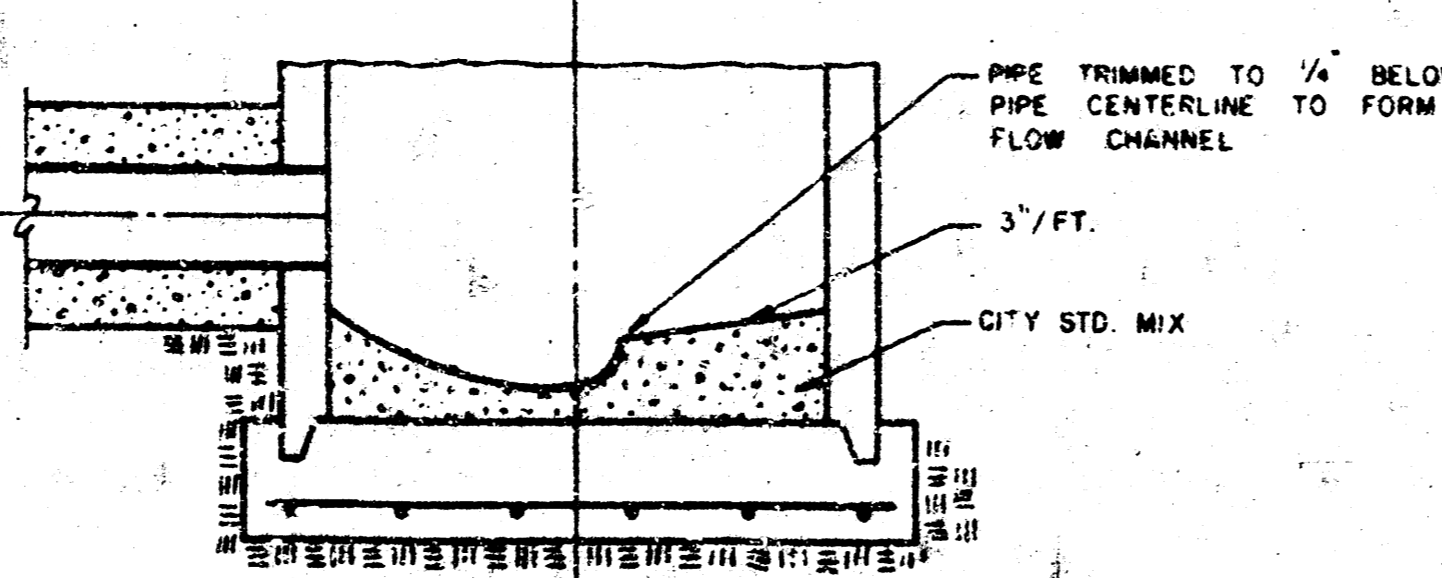
PRECAST OUTSIDE DROP MANHOLE



PRECAST SHALLOW MANHOLE



SECTION X (TYPICAL)



SECTIONAL ELEVATION - INVERT

PRECAST MANHOLE NOTES

1. IN THE OPINION OF THE ENGINEER, THE MANHOLE COVERING APPEARS TO BE THE STANDARD CITY OF WICHITA MANHOLE COVER. INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING IS REQUIRED IN ALL MANHOLE BASES.
3. APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM D-1855 SHALL BE INSTALLED AROUND THE JOINTS OF THE MANHOLE WALLS WHEN THE COMPLETE PIPE AND COVER IS USED.
4. PIPE JOINTS SHALL BE PROVIDED BY PIPE SUPPLIER WHEN MANHOLE.
5. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
6. TOP OF MANHOLE FLOOR SHALL BE AT LEAST 1/4" ABOVE FLOOR OF THE LOW LINE OF THE OUTFLOW PIPE TO MAINTAIN SUFFICIENT MINIMUM THICKNESS OF MANHOLE BASE.
7. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF THE SPECIFICATIONS.
8. CONCRETE FOR MANHOLE BASES SHALL BE AS SPECIFIED IN THE SPECIFICATIONS.
9. PRECAST MANHOLES SHALL BE SET AT LEAST 4" ABOVE THE MANHOLE BASE.
10. MANHOLES WITH PIPE SIZES LARGER THAN 12" SHALL HAVE 1" INSIDE DIAMETER MANHOLE.
11. WATERPROOF GROUT FOR PRECAST JOINTS SHALL BE PREPARED WITH THE PROPORTIONS LISTED BELOW, ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS IF APPROVED BY THE ENGINEER.

NO.	REVISION	BY	DATE

MATERIAL	PARTS BY WEIGHT
PORTLAND CEMENT	1.0
WATER	0.45
SAND	2.0

DETAIL
PRECAST CONCRETE MANHOLE
 CITY OF WICHITA, KANSAS

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