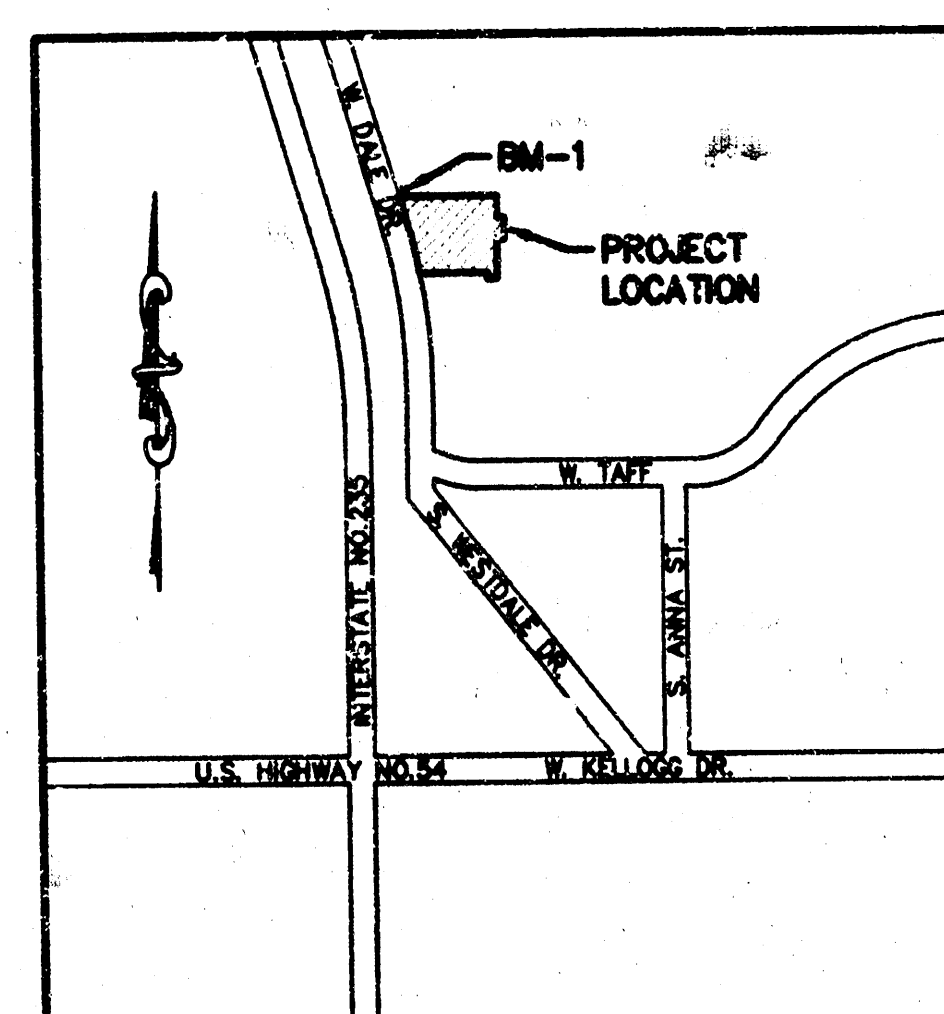


PRIVATE PROJECT NO:1277PPS (607861)

1. TITLE SHEET
2. GENERAL LAYOUT PLAN
3. LINE "A" - PLAN & PROFILE
4. DETAIL SHEET
5. DETAIL SHEET

NO.	ITEM	UNITS	PROPOSED	AS-BUILT
1.	REMOVALS	L.S.	1	
2.	CONNECT TO EXISTING MANHOLE	EA.	1	
3.	INSTALL STANDARD MANHOLE OVER EXIST. LINE	EA.	1	
4.	TYPE "P" STANDARD MANHOLE	EA.	2	
5.	EXTRA DEEP MANHOLE	V.F.	2	
6.	8" PVC PIPE (SDR 35)	L.F.	438.8	



VICINITY MAP:
NOT TO SCALE

CONSTRUCTION NOTES

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE CITY OF WICHITA, KANSAS STANDARD ENGINEERING PRACTICES, SECTION 801 AND 804.

- THE UTILITIES AS SHOWN ON THESE DRAWINGS WERE DEVELOPED FROM THE BEST INFORMATION AVAILABLE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE.
- THE CONTRACTOR SHALL PROVIDE AT LEAST ONE (1) CHEMICALLY-TREATED PORTABLE TOILET UNIT, "SATELLITE" AS MANUFACTURED BY THE SATELLITE CORPORATION, OR EQUAL, FOR EVERY 20 WORKMEN ON THE JOB SITE. (IN NO CASE SHALL LESS THAN ONE (1) BE PROVIDED). THE UNIT(S) SHALL REMAIN ON THE SITE DURING ALL ACTIVE PHASES OF CONSTRUCTION OF THE SANITARY SEWERS. THE CONTRACTOR SHALL ENFORCE THE USE OF THE FACILITIES BY ALL PERSONNEL AT THE SITE. THE UNIT SHALL BE OBSCURED FROM PUBLIC VIEW TO THE GREATEST EXTENT PRACTICABLE.
- THE CONTRACTOR SHALL OBTAIN ALL END OF STUB LINE ELEVATIONS AND LOCATIONS AND SHALL SUBMIT A COPY OF SAME TO CONSTRUCTION INSPECTOR PRIOR TO PROJECT ACCEPTANCE.
- ALL TRENCHES SHALL BE BACKFILLED IN UNIFORM LIFTS NOT TO EXCEED 24 INCHES IN DEPTH. EACH LIFT SHALL BE COMPACTED TO THE REQUIRED DENSITY PRIOR TO THE NEXT LIFT BEING PLACED. OUTSIDE THE AREAS TO BE PAVED, THE BACKFILL MATERIAL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AND UNDER AREAS TO BE PAVED, THE BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE PLUS OR MINUS 2% COMPACTION TESTS SHALL BE TAKEN AT EACH PAVEMENT CROSSING AND AT LOCATIONS DESIGNATED BY THE ENGINEER. TESTS TAKEN ONLY AT THE TOP OF THE TRENCH SHALL NOT BE ACCEPTED BY THE ENGINEER. ALL TRENCH BACKFILL WHICH DOES NOT MEET THE REQUIRED DENSITY SHALL BE RE-EXCAVATED AND RE-COMPACTED UNTIL THE REQUIRED DENSITY IS OBTAINED. COPIES OF ALL COMPACTION TEST REPORTS SHALL BE PROVIDED TO THE ENGINEER AND TO THE CITY PRIOR TO FINAL ACCEPTANCE OF THE MAINLINE BY THE CITY WATER AND SEWER DEPARTMENT.
- THE DENSITY AND MOISTURE TEST SHALL BE TAKEN ON EVERY LIFT AT EVERY CROSSING. THERE MUST BE A MINIMUM OF TWO (2)-PASSING TESTS PER LIFT AT LOCATIONS TESTS SHALL BE RUN FOR DENSITY AT REGULAR INTERVALS (125 FEET) AND AS REQUIRED BY THE CITY INSPECTOR. COPIES OF PROCTOR AND DENSITY TEST SHALL BE SENT TO KAW VALLEY ENGINEERING AND THE CITY INSPECTOR.
- NO BACKFILL SHALL BE PLACED AROUND OR OVER ANY EXISTING STRUCTURE UNTIL THE CONCRETE HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND CAN SUFFICIENTLY SUPPORT THE LOAD OF BACKFILL MATERIAL.
- NO ROCK LARGER THAN SIX INCHES MAXIMUM DIMENSION SHALL BE PLACED WITHIN TWO FEET OF THE TOP OF THE PIPE. NO ROCK GREATER THAN ONE FOOT SHALL BE PLACED IN ANY EXCAVATION AS A BACKFILL.
- ALL 6" STUBS ARE TO BE SCHEDULE 40 PVC AND INSTALLED AT A MINIMUM 2% SLOPE. UNLESS NOTED OTHERWISE.
- AN INSPECTOR FROM KAW VALLEY ENGINEERING SHALL BE PRESENT ANYTIME THAT WORK IS PERFORMED ON THIS PROJECT.
- THE EXISTING MAIN CAN NOT BE REMOVED FROM SERVICE UNTIL THE CITY OF WICHITA HAS APPROVED THE RELOCATION. SEWAGE FLOW MUST BE MAINTAINED AT ALL TIMES.

1. CITY OF WICHITA - DEPARTMENT OF WATER AND SEWER	(316) 268-4504
2. SOUTHWESTERN BELL TELEPHONE	(316) 636-9349
3. WEST STAR ENERGY	(800) 794-4780
4. KANSAS GAS SERVICE	(800) 794-6101
5. ELECTRIC - KANSAS GAS AND ELECTRIC	(316) 383-8600

1. BM--1: BASE OF THE LIGHT POLE BEING NORTH 09°48'01" EAST, A DISTANCE OF 165.08 FEET FROM THE NORTHWEST CORNER OF THE SUBJECT PROPERTY.
ELEV.=117.36

2. BM--2: CITY OF WICHITA, HEADWALL EAST END OF BRIDGE, CENTER LINE OF MAPLE ST. INTERSECT HOOVER.
ELEV.=132.53



CALL BEFORE YOU
DIG - DRILL - BLAST!
800-344-7233
(DIG-SAFE)
(316) 687-3753
(FAX)

KANSAS ONE CALL SYSTEM, INC.

DICK'S SPORTING GOODS
200 INDUSTRY DRIVE
RIDC PARK WEST
PITTSBURGH, PA 15275

CONTACT : JEFF TARRIS
(412) 809-0100

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED, AND THESE PLANS PREPARED, IN ACCORDANCE WITH THE DESIGN CRITERIA OF THE CITY OF WICHITA AND KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT.

I FURTHER CERTIFY THAT KAW VALLEY ENGINEERING, INC. HAS BEEN RETAINED TO COMPLETE AS-BUILT DRAWINGS FOR THIS PROJECT.

CHARLES H. GREENE
KANSAS PROFESSIONAL ENGINEER
NO. 8192

APPROVED AS NOTED:
By CITY ENGINEER OF WICHITA

SANITARY SEWERS VRH 9/25/02

STORM SEWER _____

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 THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

12/10/02
DATE

2/28/03 RAL
PDF

DICK'S SPORTING GOODS
4600 WEST KELLOGG DRIVE
WICHITA, KANSAS

SANITARY SEWER PLANS

SANITARY SERVICE

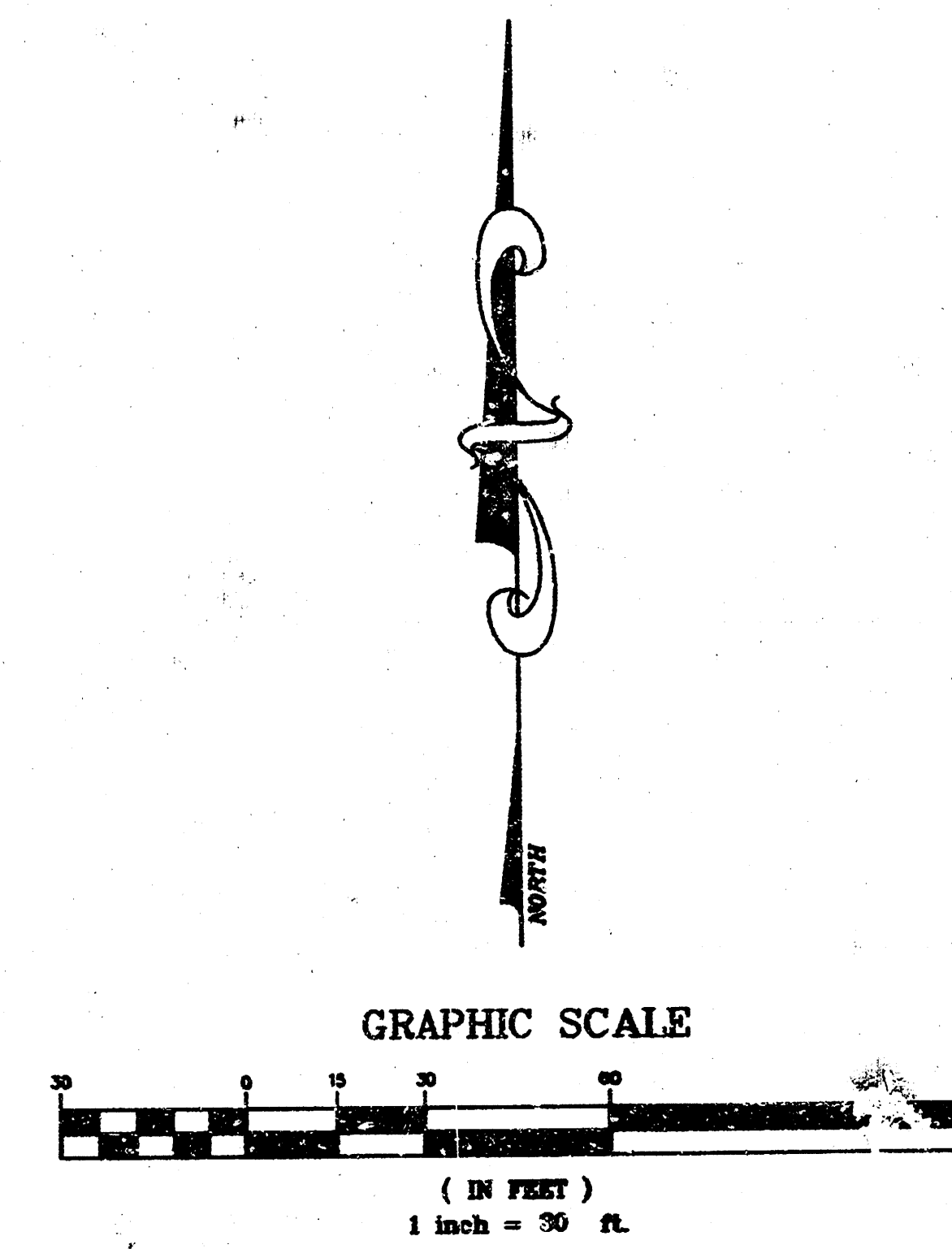
PROJ. NO.	C0200938	
DATE	08/19/02	
DESIGNER	MTA	
DRAWN BY	JCS	
CFN	01-ST5	RE
SHEET	1 OF 5	

14700 W. 114TH TERRACE
LENEXA, KANSAS 66215
913-894-5150 FAX 913-894-5977
E-MAIL lx@kvwg.com
WEB SITE www.kvwg.com

KAW VALLEY ENGINEERING, INC. -- CONSULTING ENGINEERS
2044 L Street S.E.
Wash. D.C. 20002

\\land Projects\CO2_0938\Design\SANITARY\01-15.dwg, layout1, 09/20/2002 02:36:20 PM, 1:1, ACA

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.



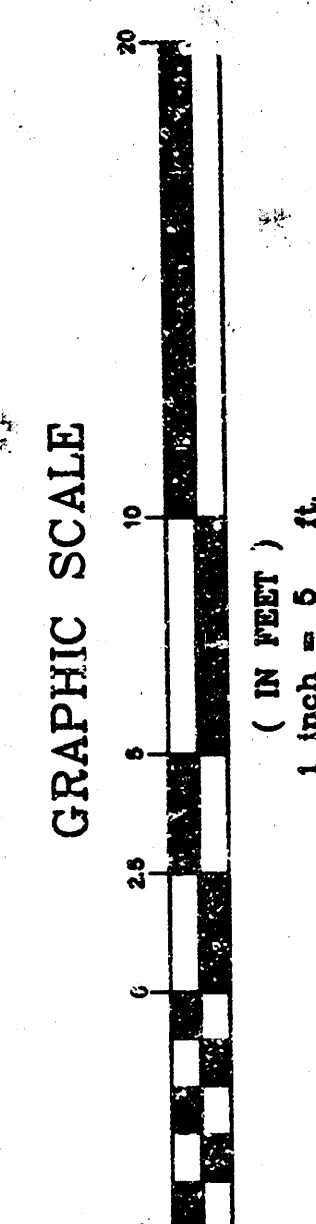
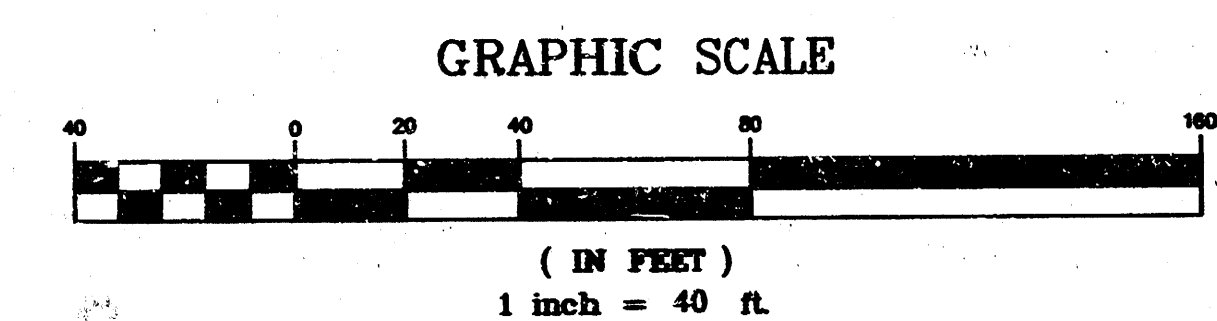
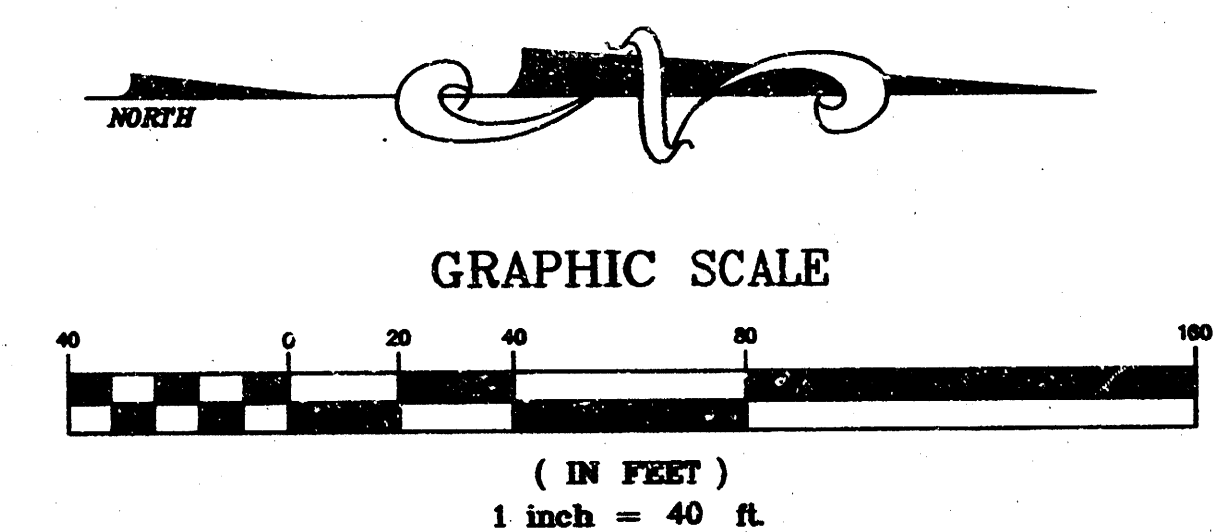
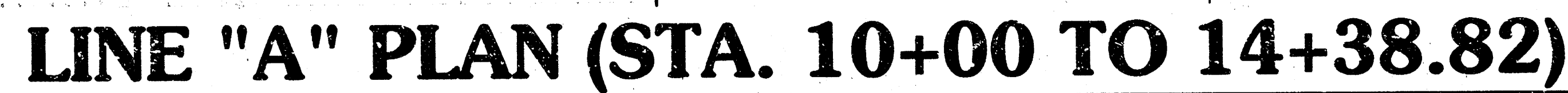
PUE PROPOSED PUBLIC UTILITY EASEMENT

0	15/10/02	INITIAL AS-BUILT SUBMITTAL
REV	DATE	DESCRIPTION

CHC	FLB	MTA
DSN	DWN	CHK

1277 PPS

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.



NOTE:
CONTRACTOR TO CAREFULLY EXCAVATE
AND VERIFY DEPTH AND LOCATION OF KV POWER.

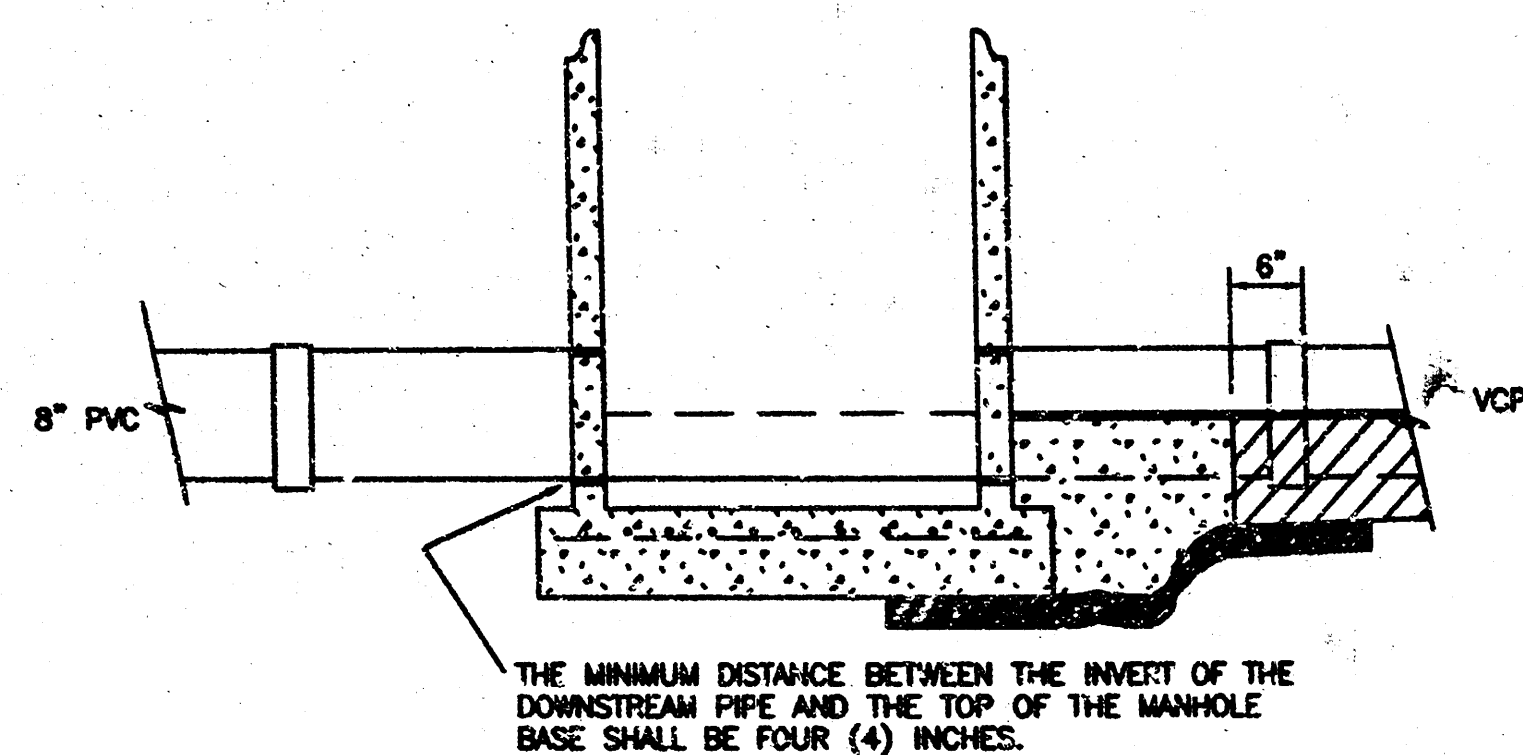


 DICK'S SPORTING GOODS 4600 WEST KELLOGG DRIVE WICHITA, KANSAS	SANITARY SEWER PLANS - AS-BUILT LINE "A" DI AN AND PROFILE	PROJ. NO. C0200938		14700 W. 114TH TERRACE OVERLAND PARK, KS 66215 913-881-7400 E-MAIL: info@kve.com WEB SITE: www.kve.com		AS-BUILT/CLEAN-OUT INITIAL AS-BUILT SUBMITTAL	M/A C/D R/S M/A	DSN DWN CHK
		DATE 05/19/02						
		DESIGNER CBO						
		DRAWN BY JOS						
C/N 03-SSPP	REV 1							

DICK'S SPORTING GOODS
4500 WEST KELLOGG DRIVE
WICHITA, KANSAS

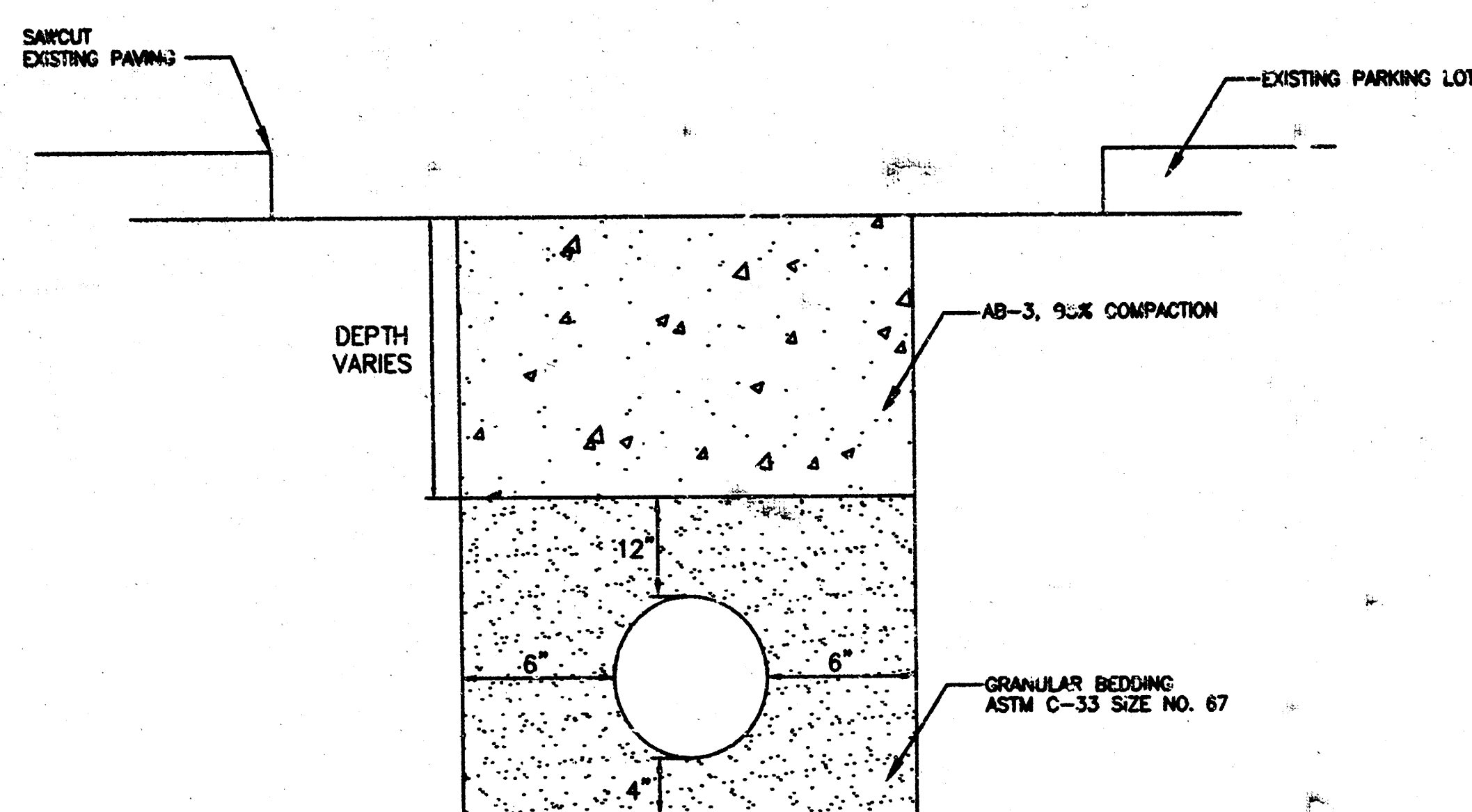
PROJ. NO.	C02D0938
DATE	08/19/02
DESIGNER	CHG
DRAWN BY	JOS
CFN	03-SSPP
SHEET	3 OF 5

1277 PPS

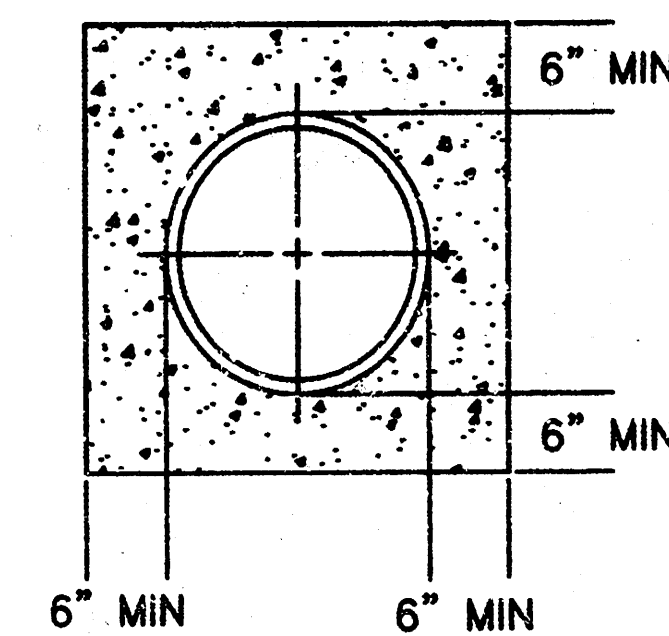


MANHOLE BASE SECTION
N.T.S.

- NOTES:
- 1ST JOINT OF PIPE SHALL BE EMBEDDED IN CONCRETE TO WITHIN 6" OF THE FIRST JOINT FOR RCP & VCP.
 - IF FLEXIBLE OR SEMI-FLEXIBLE PIPE IS USED, A FLEXIBLE WALL CONNECTOR MUST BE USED.

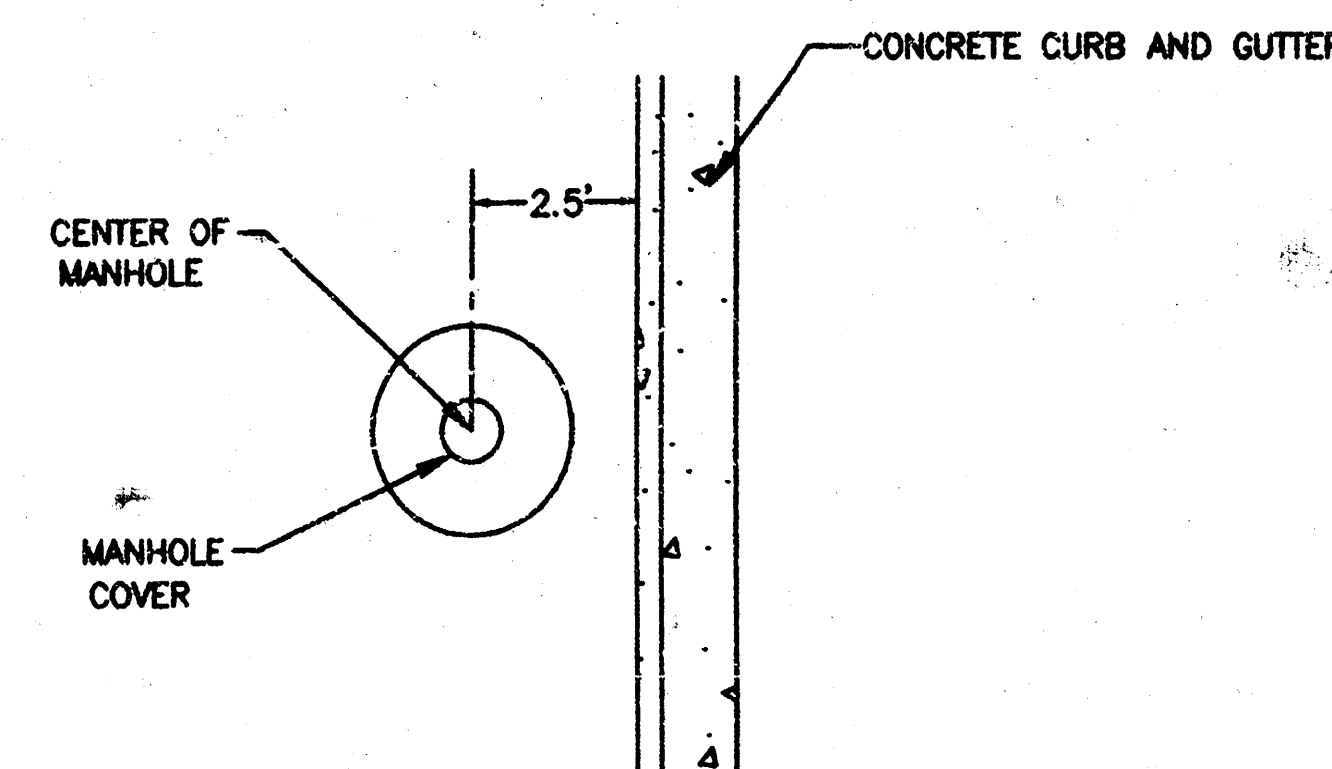


TRENCH DETAILS
N.T.S.

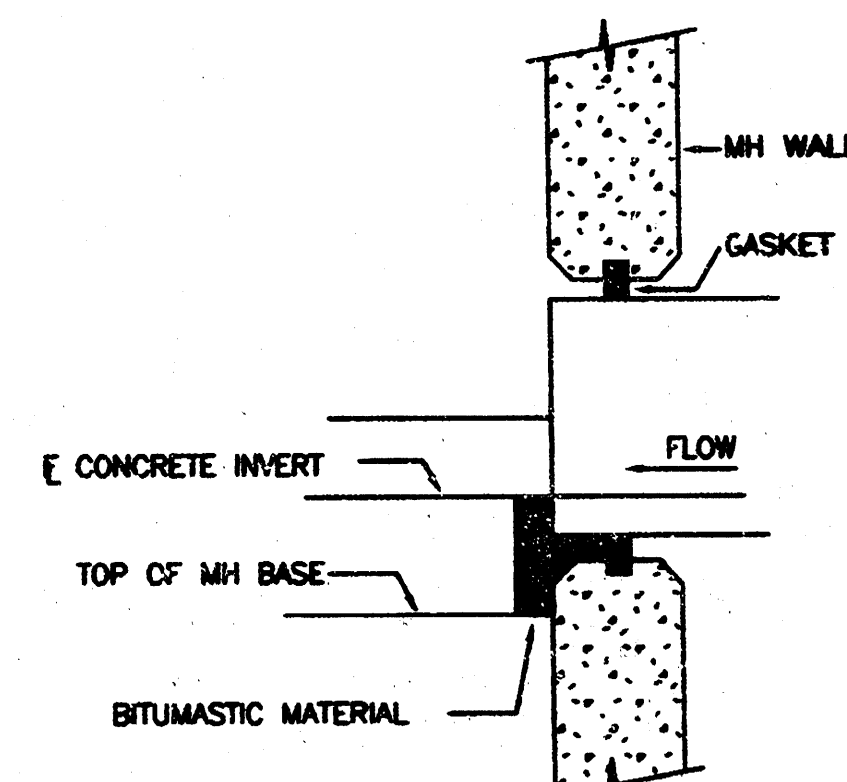


ENCASEMENT SHALL BE NON-REINFORCED CONCRETE, CLASS A (7 SACK) MIX. SECTION TO BE ENCASED SHALL BE SUPPORTED ON CONCRETE BRICKS.

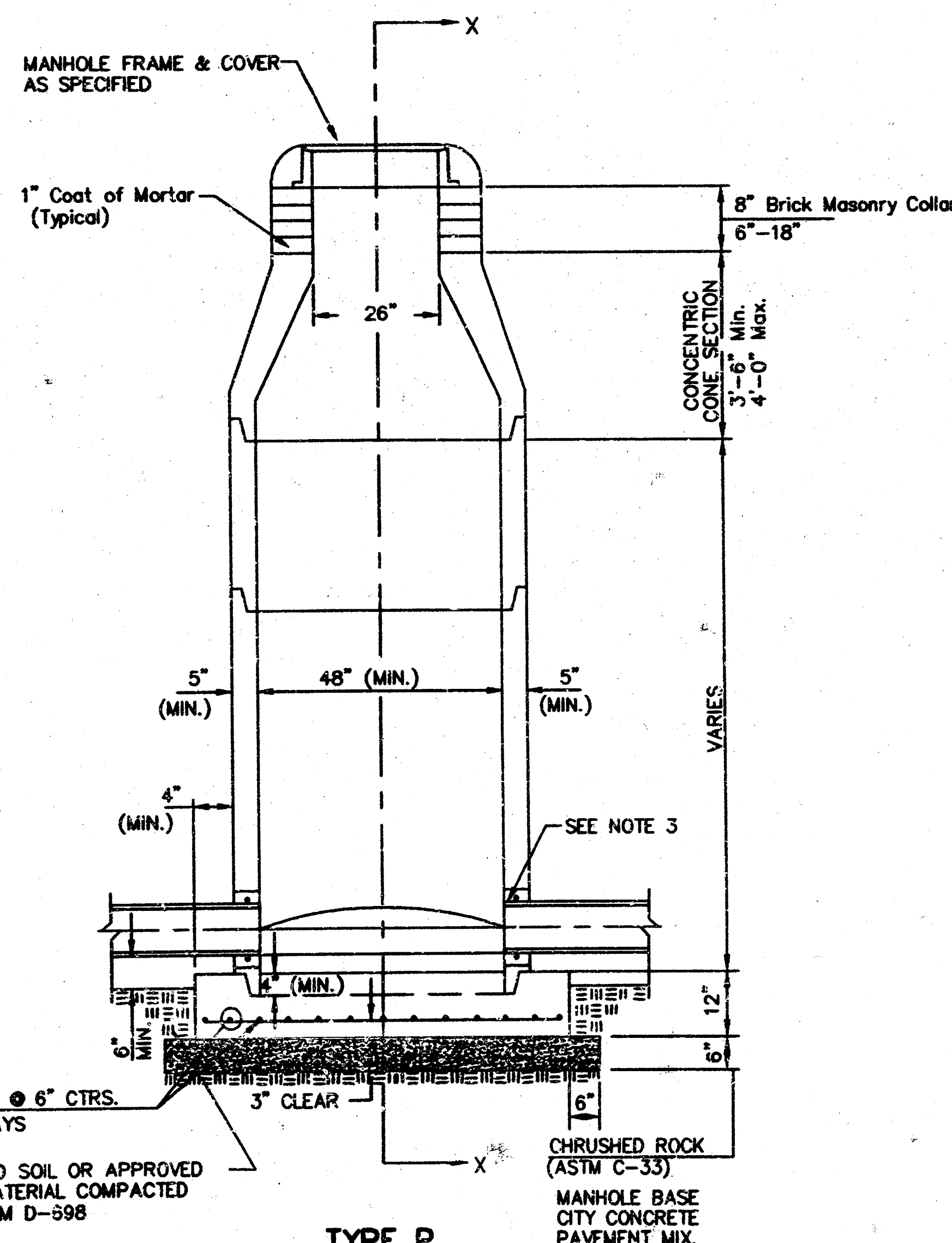
CONCRETE ENCASEMENT
N.T.S.



MANHOLE PLACEMENT DETAIL
N.T.S.



FLEXIBLE WALL CONNECTION
N.T.S.



**TYPE P
STANDARD MANHOLE**
MH A2, MH A3

- GENERAL NOTES
1. PRECAST MANHOLE NOTES

ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.

NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.

APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER PIPE SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.

ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS THEMEC SERIES 66 H-BUILD EPOXYLINE, DRY THICKNESS OF 3 MILS (MIN.).

EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.

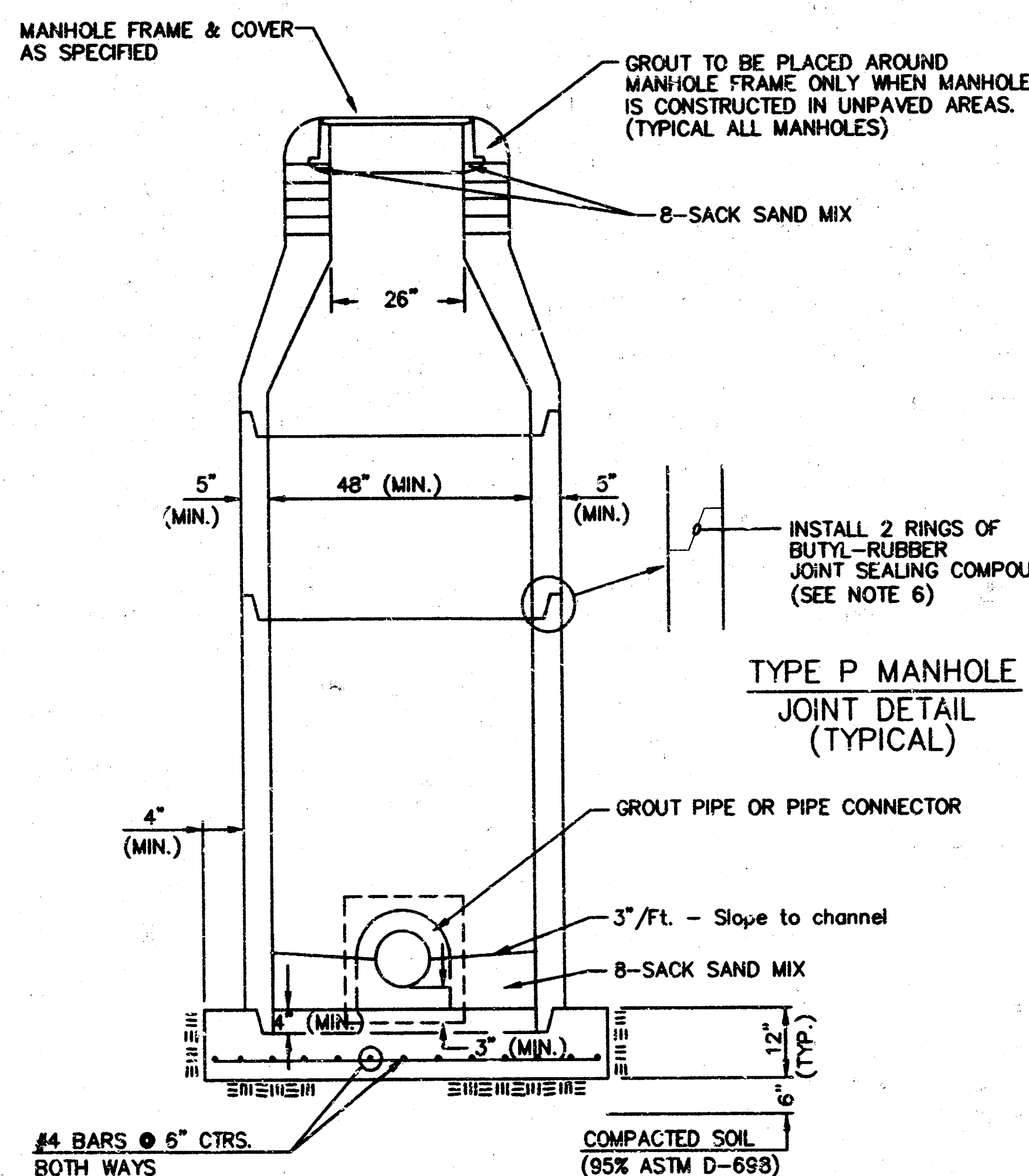
JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUIV.

PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.

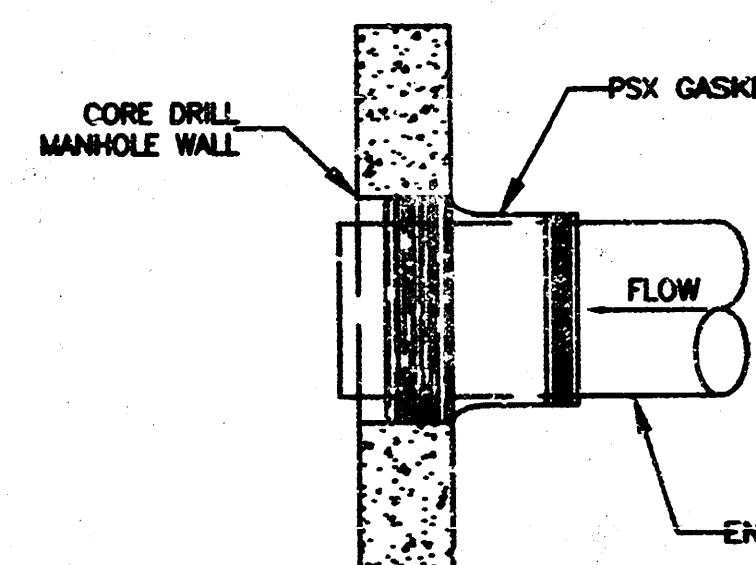
TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOWLINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.

LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.

MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE 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 AD MIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4". MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5". COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.



**SECTION X
(TYPICAL)**



CONCRETE MANHOLE ADAPTER
N.T.S.
(USE FOR PIPES ENTERING EXISTING MANHOLE WALLS)

DICK'S SPORTING GOODS
4600 WEST KELLOGG DRIVE
WICHITA, KANSAS

**SANITARY SEWER PLANS
DETAIL SHEET**

PROJ NO.	C0200938
DATE	08/19/02
DESIGNER	CHG
DRAWN BY	JS
CHECKED	CHG
SHEET	4 OF 5



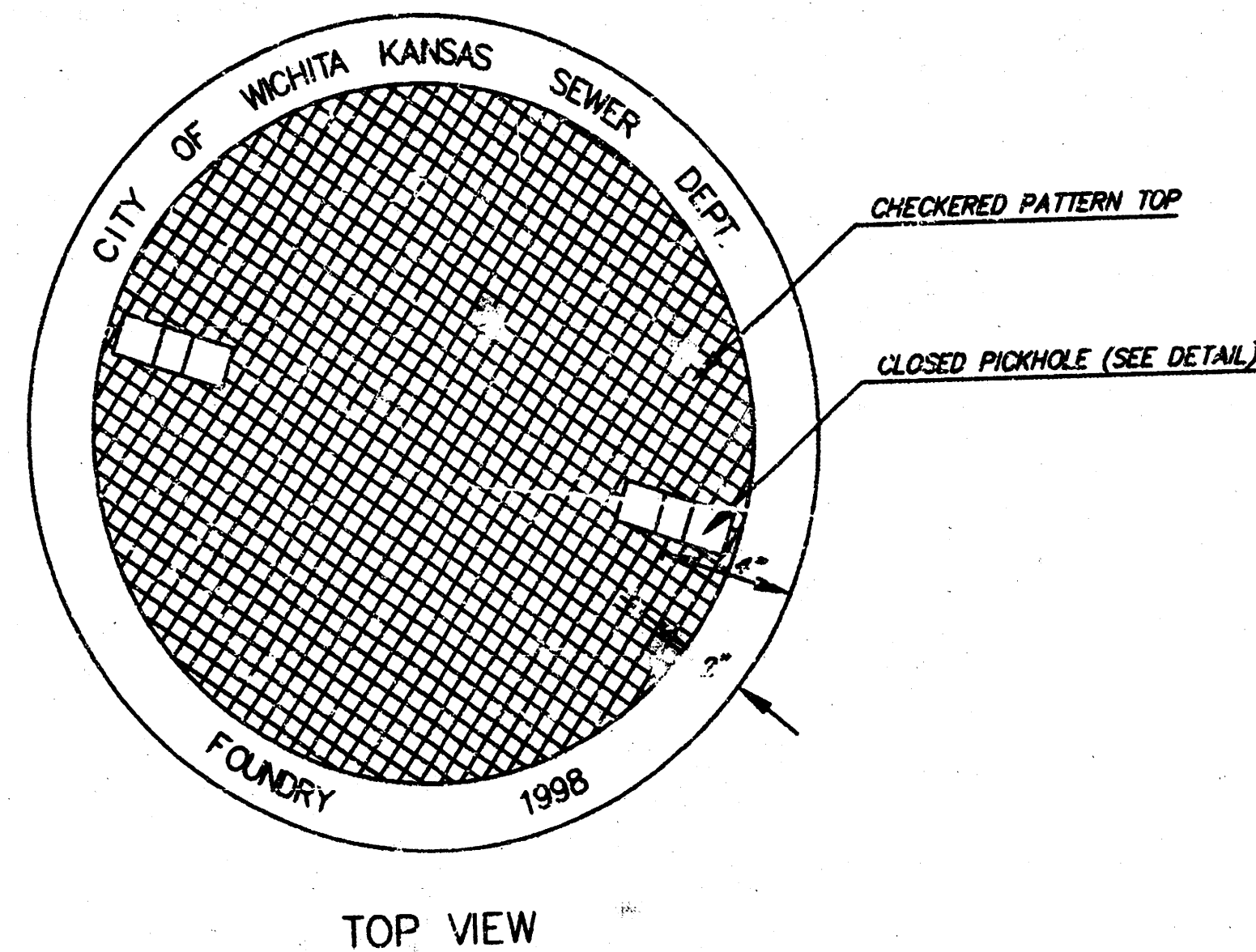
KAW VALLEY ENGINEERING, INC. - CONSULTING ENGINEERS
Office: Junction City, Mo. Kansas City, Mo. Lenexa, Mo.



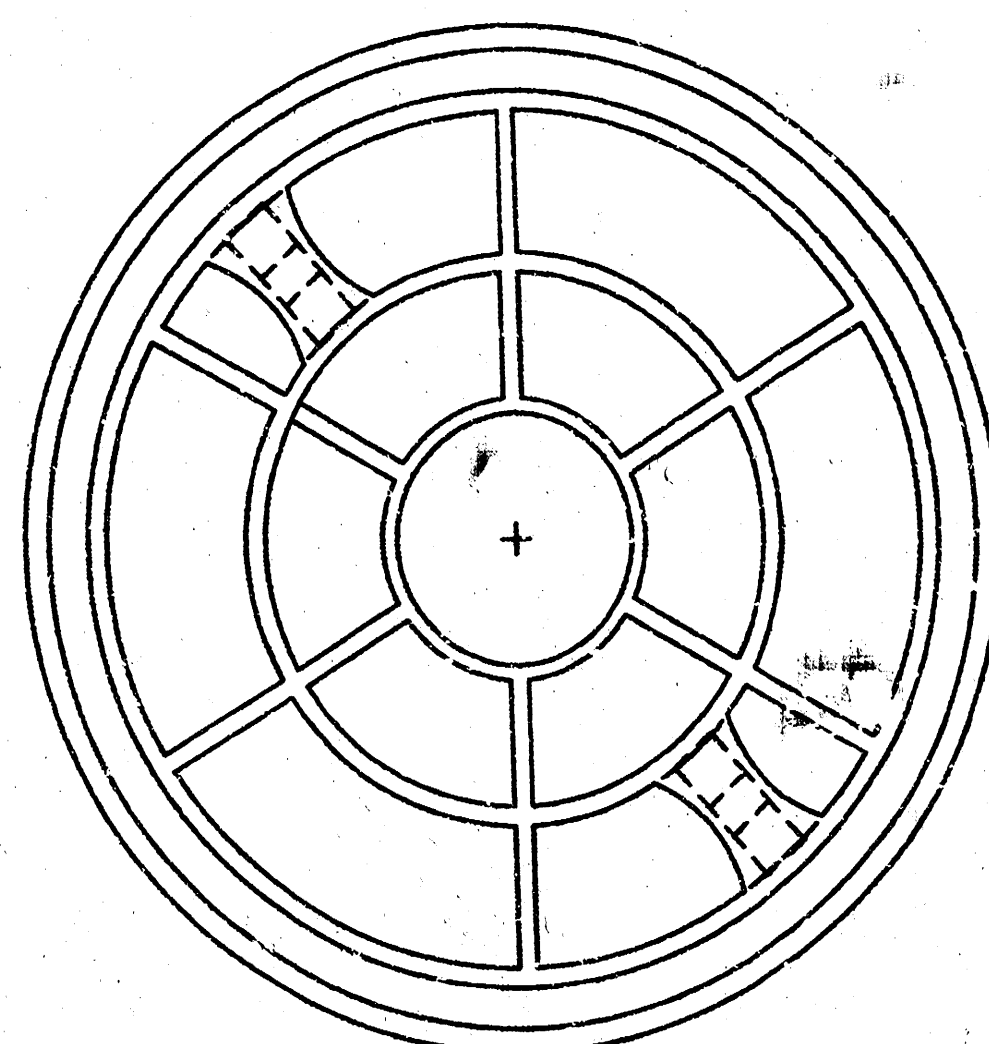
KAW VALLEY ENGINEERING, INC. - CONSULTING ENGINEERS
Office: Junction City, Mo. Kansas City, Mo. Lenexa, Mo.

REV	DATE	DESCRIPTION	CHG	DSN	DWN	CHK
0	12/10/02	INITIAL AS-BUILT SUBMITTAL				

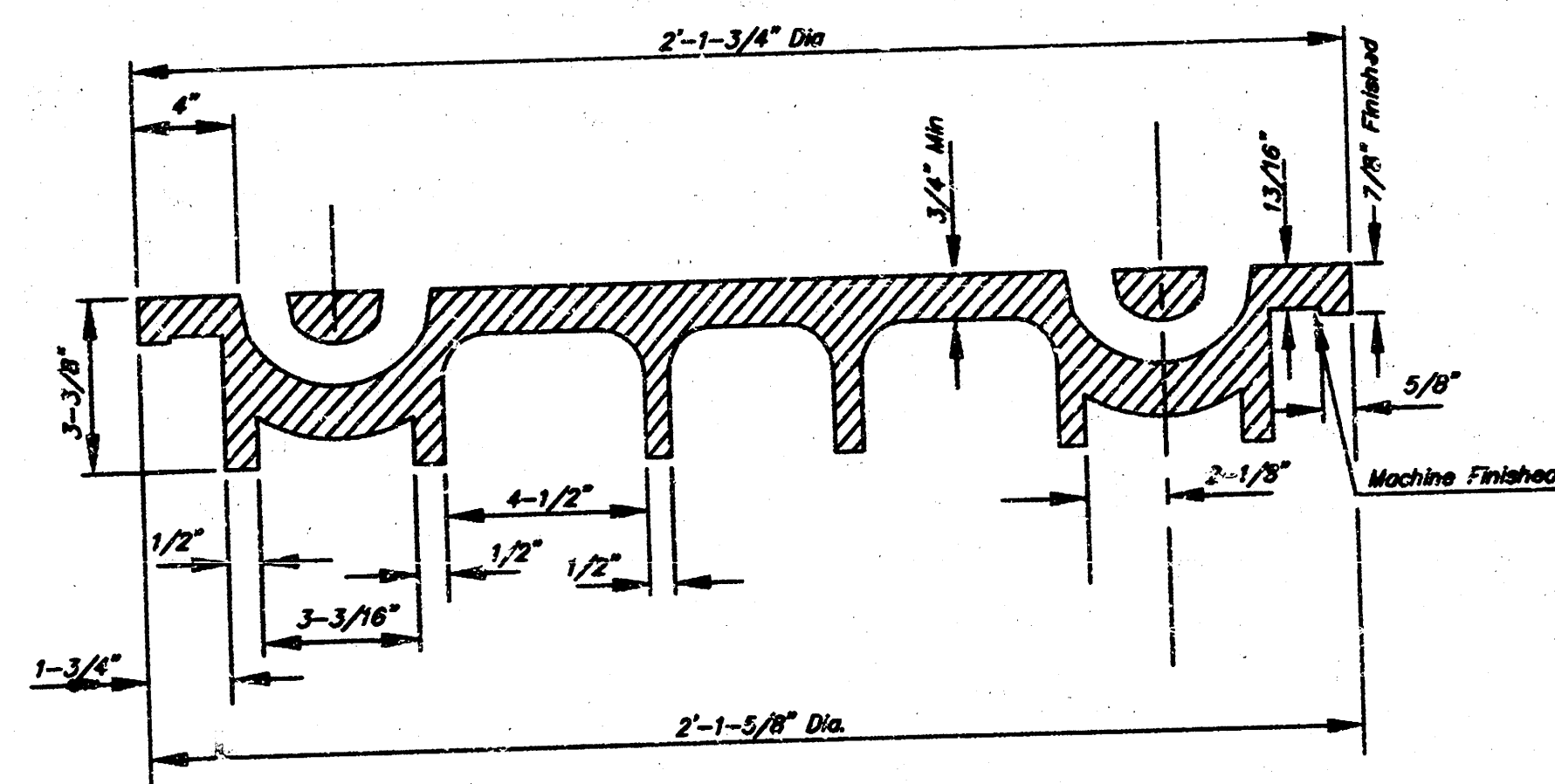
MANHOLE COVER
Weight = 180 Lbs.



TOP VIEW

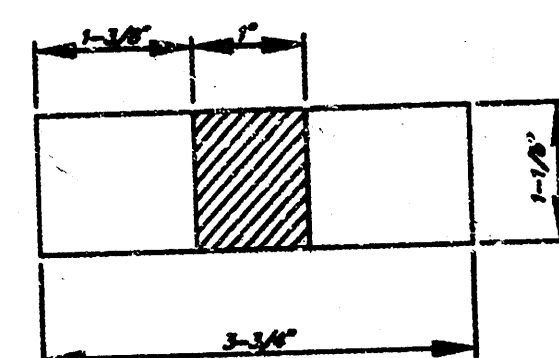


BOTTOM VIEW

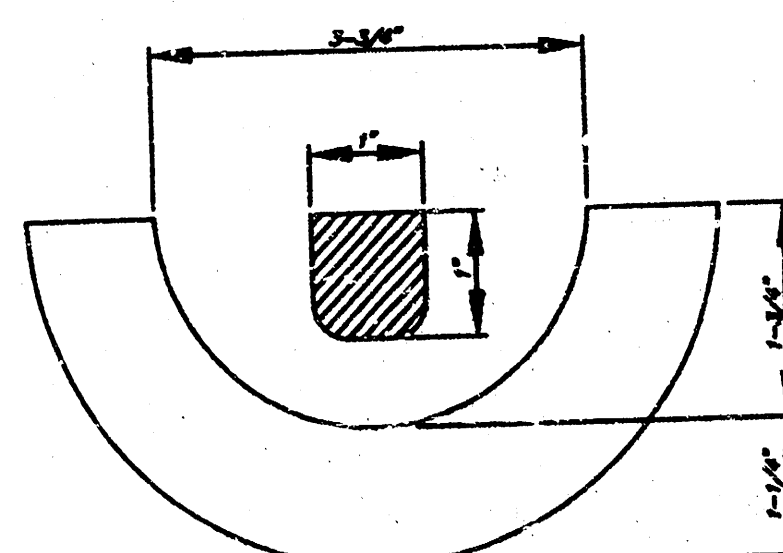


SECTION VIEW

PICKHOLE DETAIL



TOP VIEW



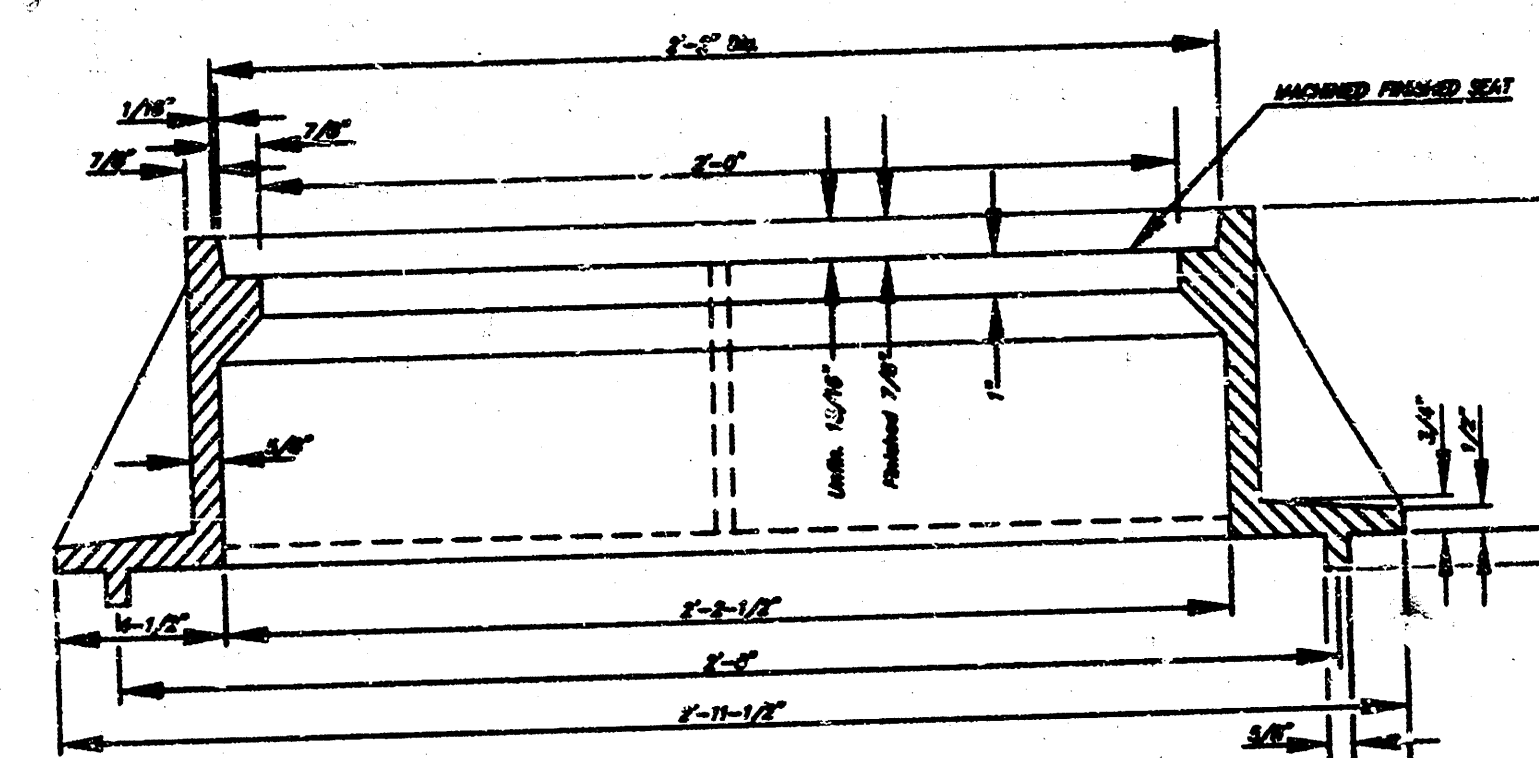
SECTION VIEW

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 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.
2. MANHOLE CASTINGS SHALL WEIGH A MINIMUM OF 180 POUNDS ON THE SOLID COVER AND 240 POUNDS ON THE MANHOLE RING. THIS IS A TOTAL OF 420 POUNDS ON A RING AND COVER SET. CASTINGS WEIGHING LESS THAN THE MINIMUM SPECIFICATIONS WILL NOT BE ACCEPTED.
3. 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.
4. 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\"/>

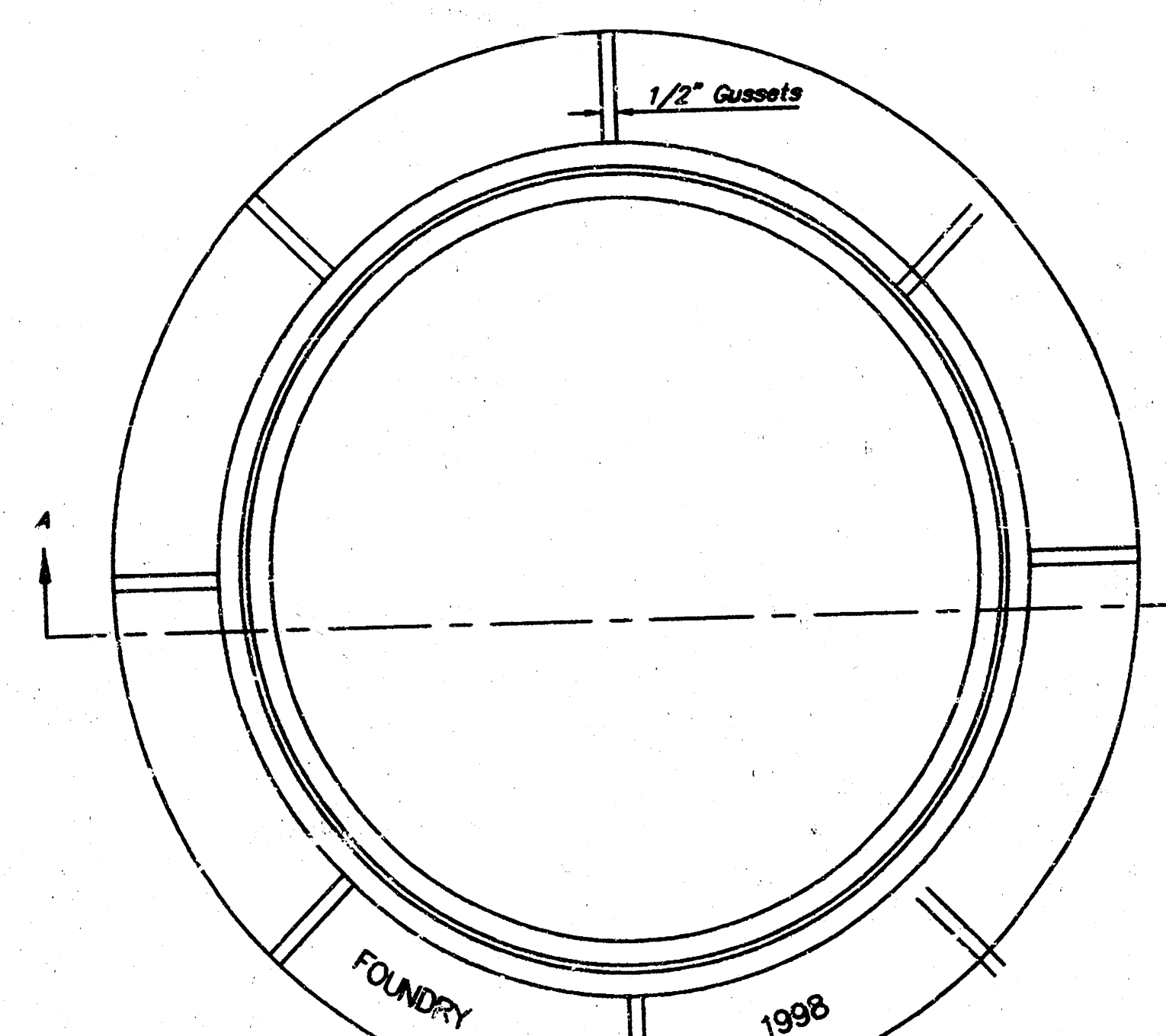
MANHOLE FRAME AND COVER DETAIL

ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

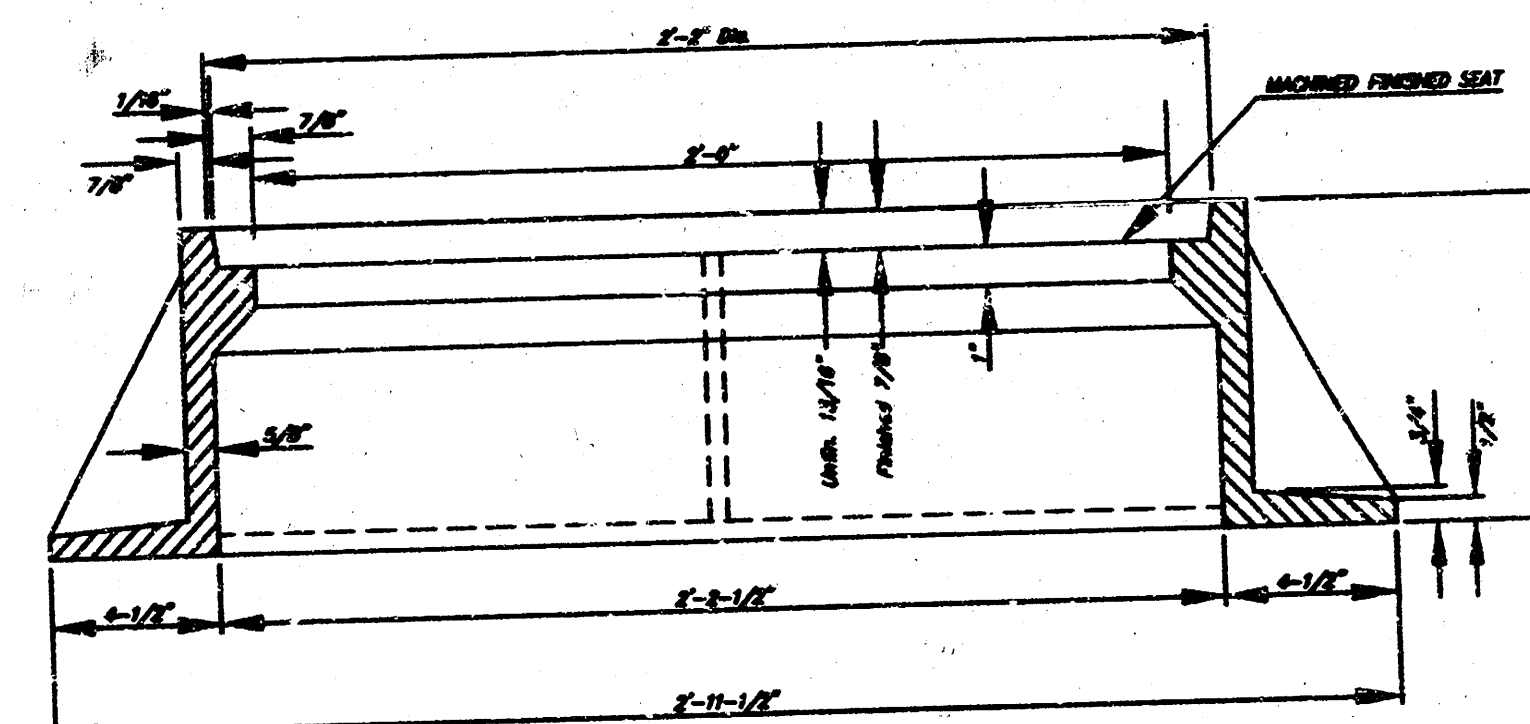


SECTION A-A
MUD RING

MANHOLE FRAME
Weight = 240 Lbs.



TOP VIEW



SECTION A-A

DICK'S SPORTING GOODS
4600 WEST KELLOGG DRIVE
WICHITA, KANSAS

PROJ NO
00000000
DATE
08/19/02
DESIGNER
HTA
DRAWN
HTA
CHECKED
HTA
BY
0

SANITARY SEWER PLANS - AS-BUILT
DETAIL SHEET

14700 W. 114TH TERRACE
LENEXA, KANSAS 66215
913-884-5977
WWW.KVE.COM



KAW VALLEY ENGINEERING, INC. CONSULTING ENGINEERS
Office: 14700 W. 114th Terrace, Lenexa, KS 66215



REV DATE DESCRIPTION
0 12/10/02 INITIAL AS-BUILT SUBMITTAL

DSN DWN CHK
0 0 0