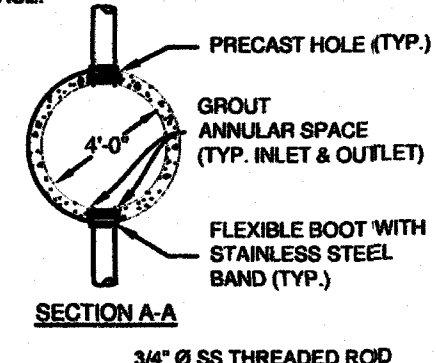


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- Diagram illustrating the connection between a precast pile and a pile cap, labeled **SECTION A-A**.
- PRECAST HOLE (TYP.)**: Indicated at the top of the pile cap.
 - GROUT ANNUAL SPACE (TYP. INLET & OUTLET)**: Indicated in the annular space between the pile cap and the pile.
 - 4'-0"**: Dimension indicating the diameter of the pile cap.
 - FLEXIBLE BOOT WITH STAINLESS STEEL BAND (TYP.)**: Indicated at the bottom of the pile cap.
 - SECTION A-A**: The section line.
 - 3/4" Ø SS THREADED ROD**: Dimension indicating the diameter of the pile.

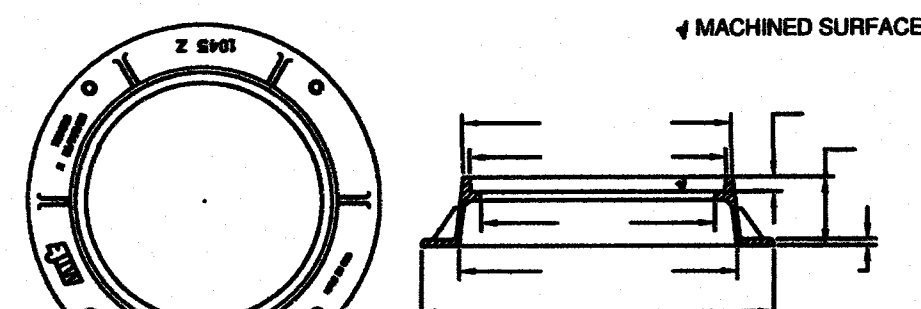


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**4' STANDARD MANHOLE
FOR PIPE 15" OR SMALLER
(FOR DEPTHS UP TO 15 FEET)**

08/01/1

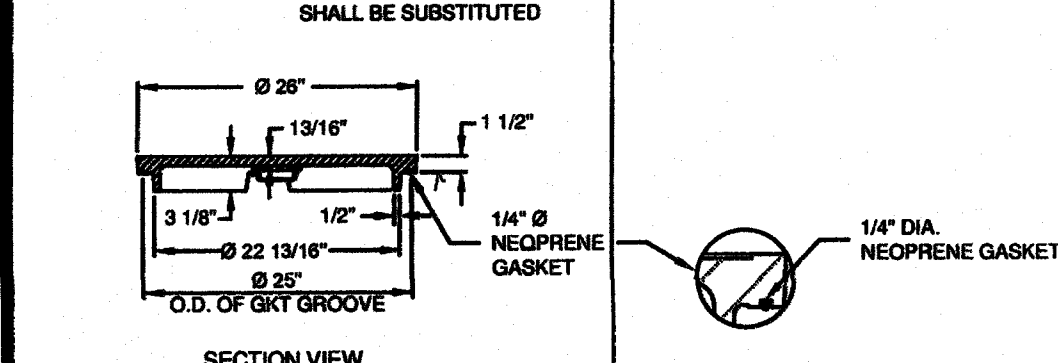
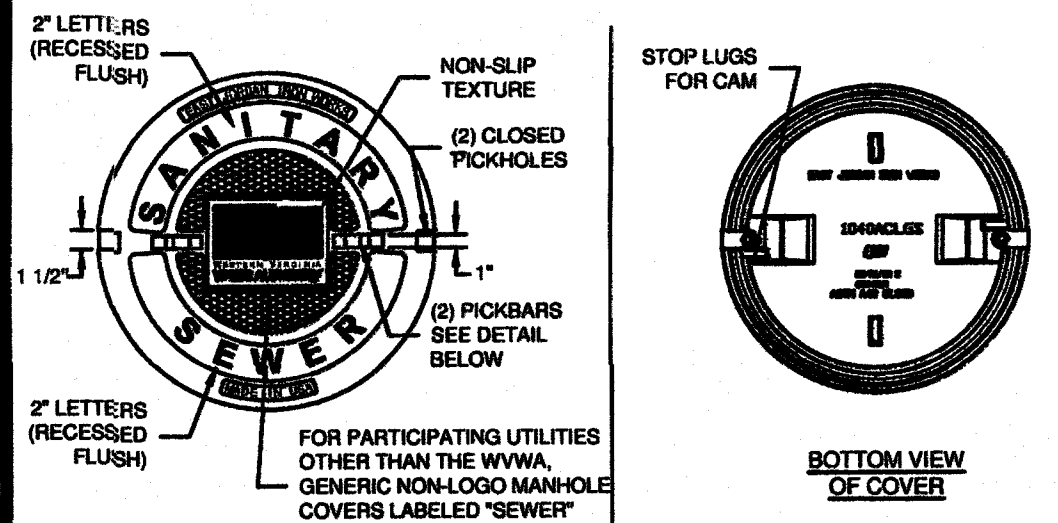
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- 3/4" STAINLESS STEEL THREADED ROD AND NUTS (4 TYP.)
- SECURE NUT
- 1/4" MIN.

**WATERTIGHT
MANHOLE FRAME**

01/01/



BOLT-DOWN MANHOLE COVER

01/01/

-

SANITARY SEWER LATERAL

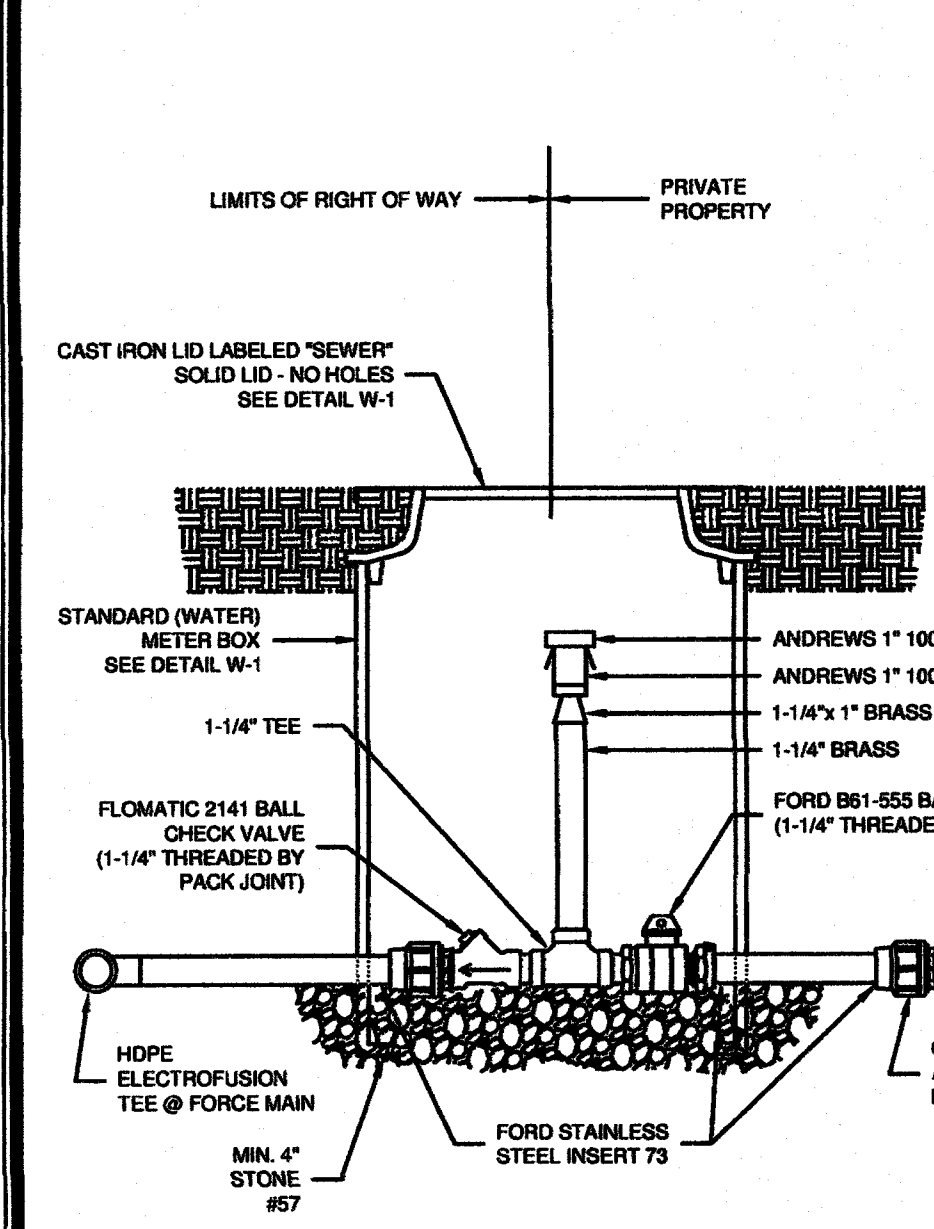
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- Diagram illustrating the components and specifications of a manhole assembly:
- CAST IRON LID LABELED "SEWER" SOLID LID - NO HOLES SEE DETAIL W-1
 - STANDARD WATER METER BOX SEE DETAIL W-1
 - ANDREWS 1" 100-DL AL
 - ANDREWS 1" 100-F-AL
 - 1" BALL CHECK
 - 1" BRASS BALL VALVE
 - 2" X 1" BRASS NIPPLE
 - 2" THREADED PACK JOINT
 - 3,000 PSI CONCRETE 6" MIN.
 - FUSED 90° BEND OR TEE IF IN-LINE
 - HIDE FORCE MAIN

FORCE MAIN FLUSHING ASSEMBLY

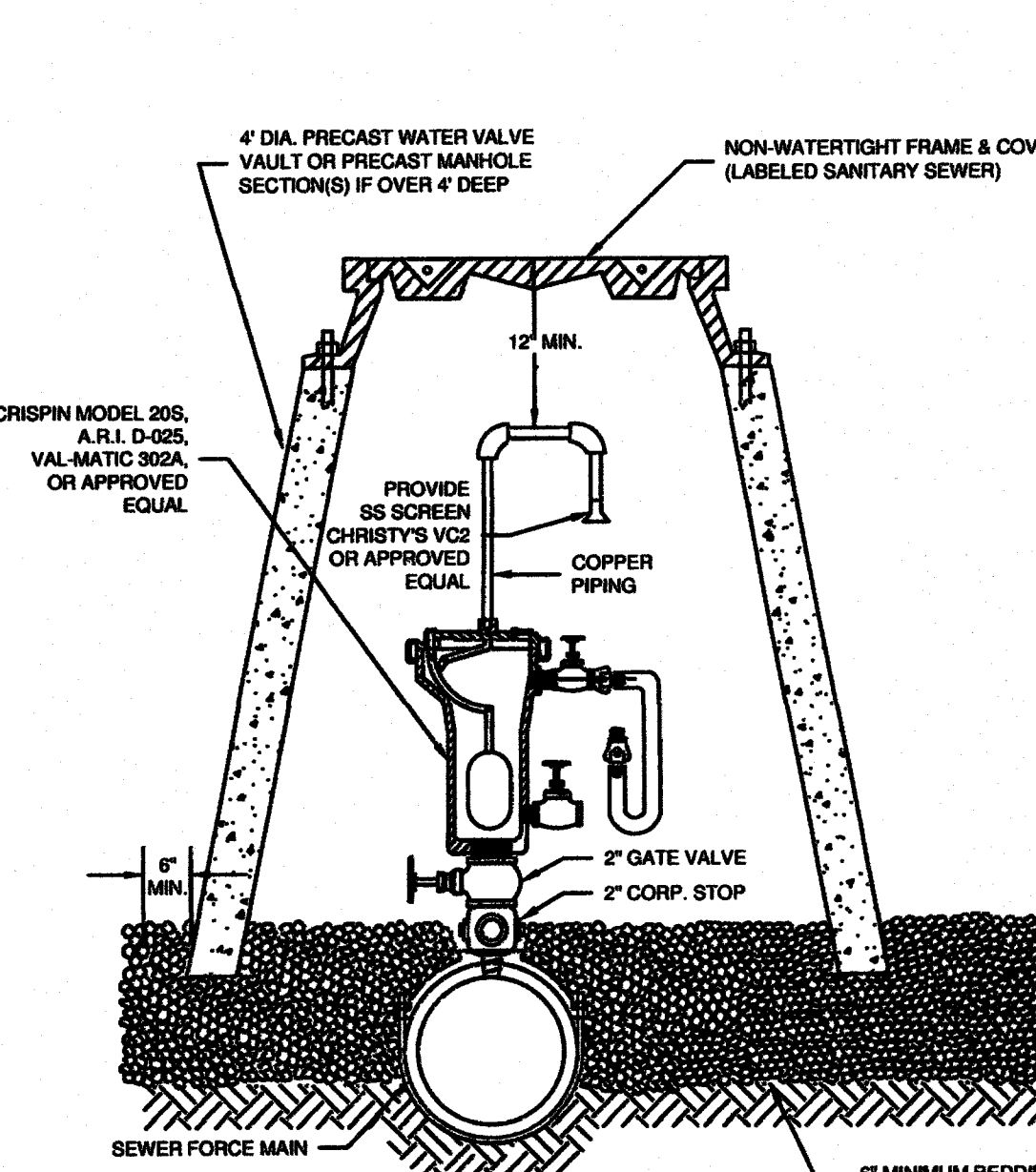
01/01/

1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.



PRESSURE LATERAL ASSEMBLY

1



**AUTOMATIC AIR/VACUUM
RELEASE ASSEMBLY FOR USE C
SEWER FORCE MAIN**

Age Group	Percentage of Respondents
18-29	85%
30-49	80%
50-69	75%
70+	70%

SEWER DETAILS

[illegible]

Designed:	
Drawn:	AAS
Checked:	WNR
Approved:	WNR
Date:	11-11-16
Project:	