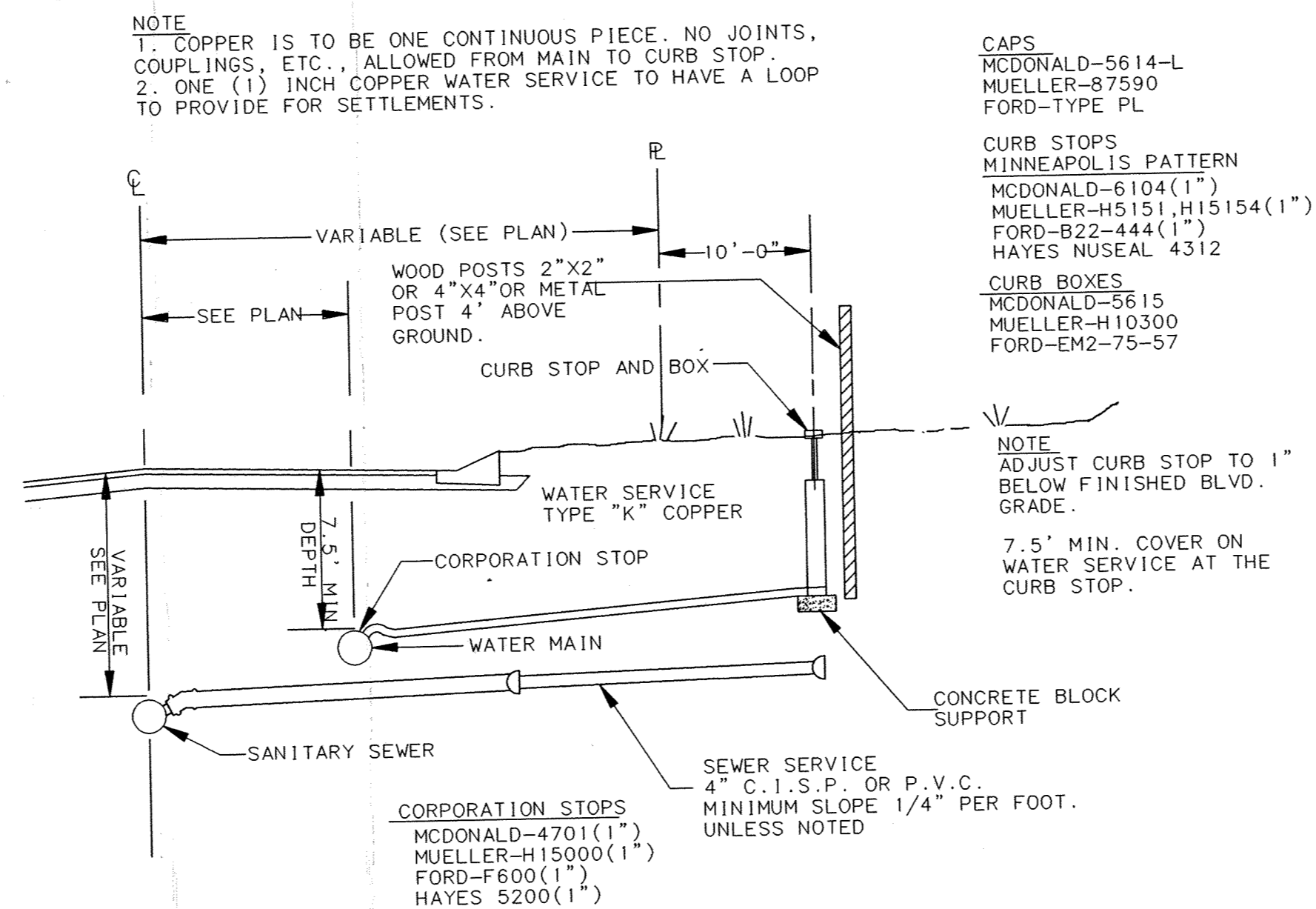
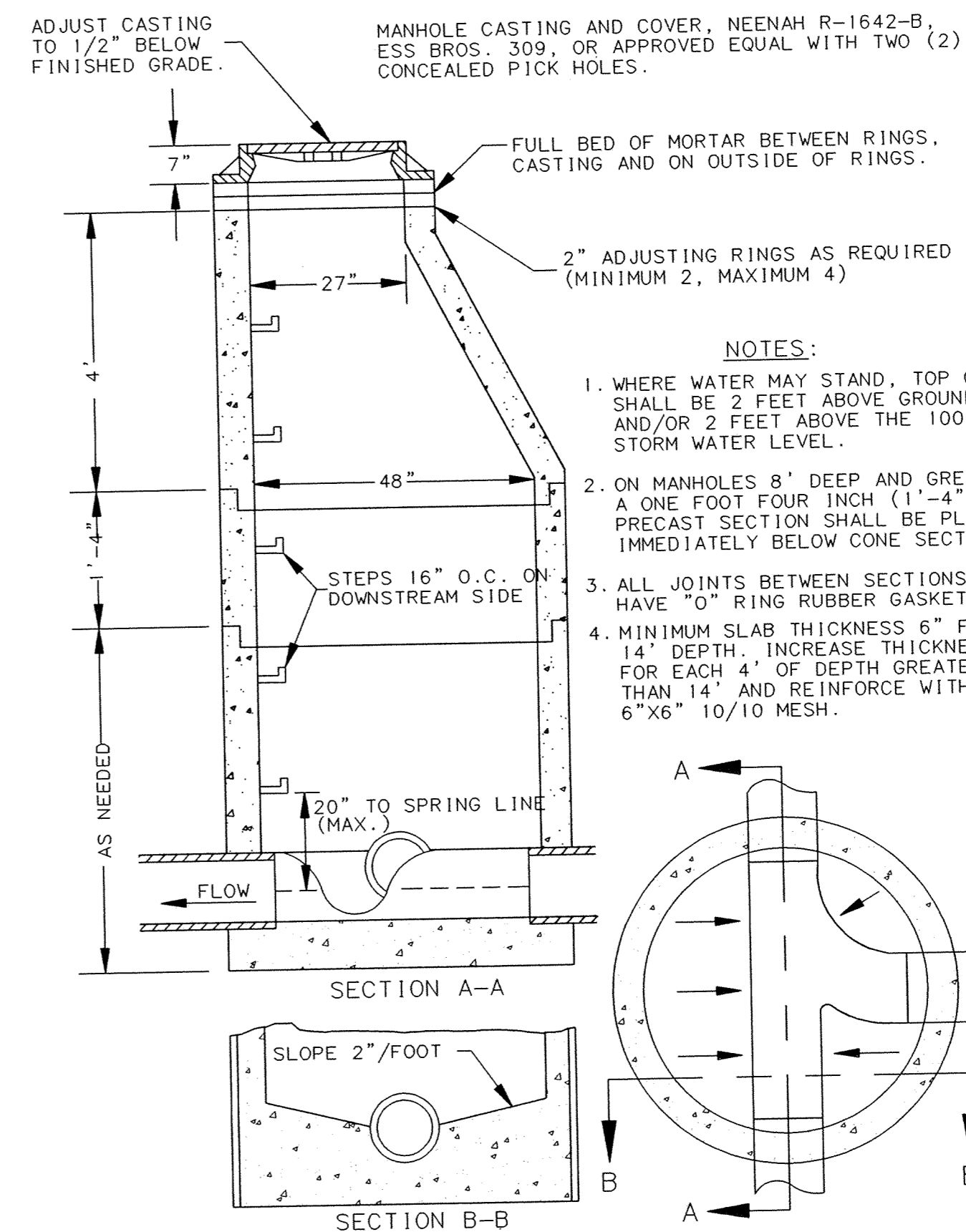


- NOTES:**
1. FIRE HYDRANTS SHALL BE PAINTED RED AT THE FACTORY.
 2. TOP OF FIRE HYDRANT DESIGN ELEVATION SHALL BE 2.5' ABOVE FINISHED BOULEVARD GRADE.
 3. THRUST BLOCKING MAY ALSO BE REQUIRED IN CUL-DE-SACS.
 4. HYDRANT TO BE RODDED TO THE VALVE VALVE TO BE RODDED TO THE TEE

3 HYDRANT & GATE VALVE INSTALLATION

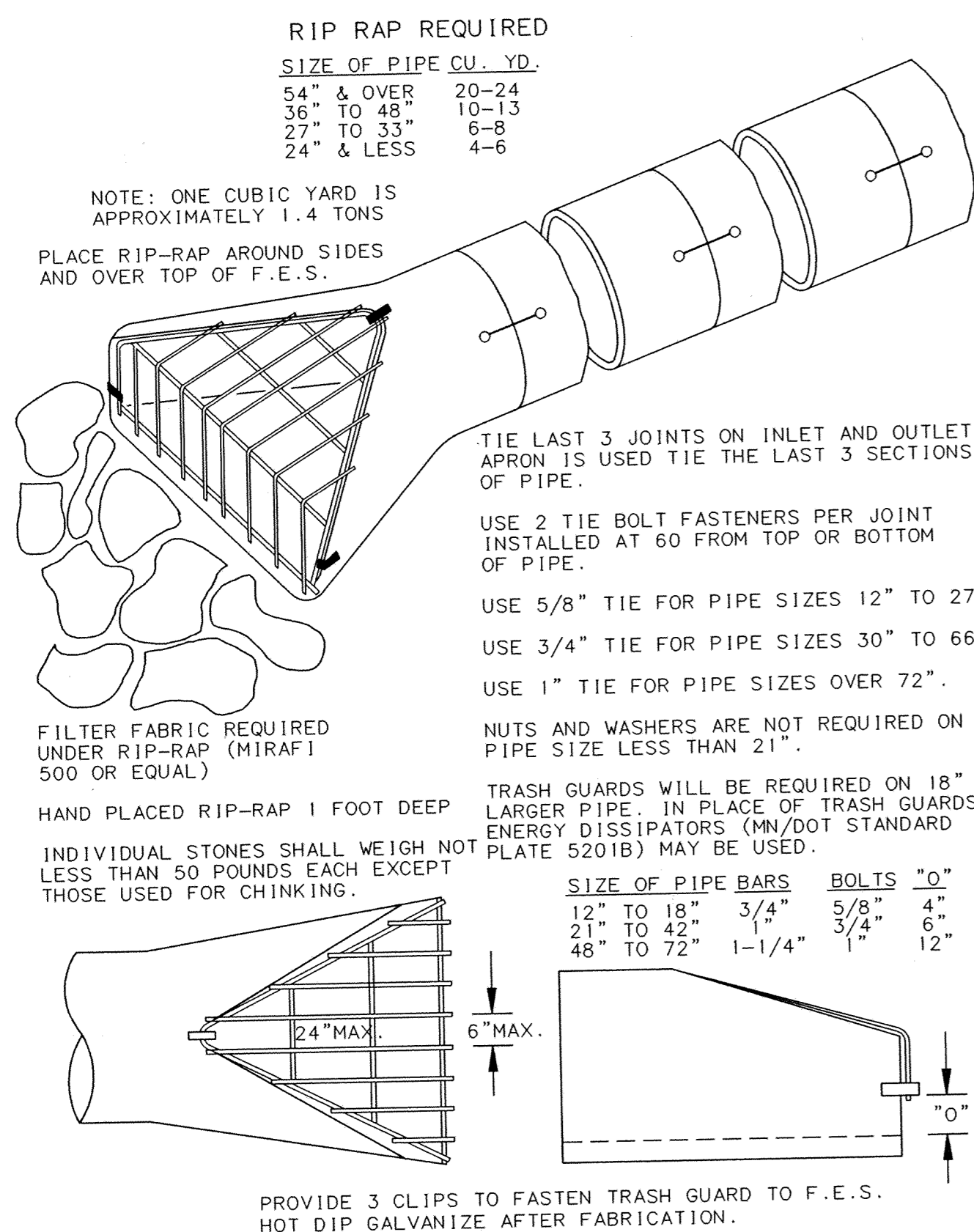


2 SEWER AND WATER SERVICE CONNECTION

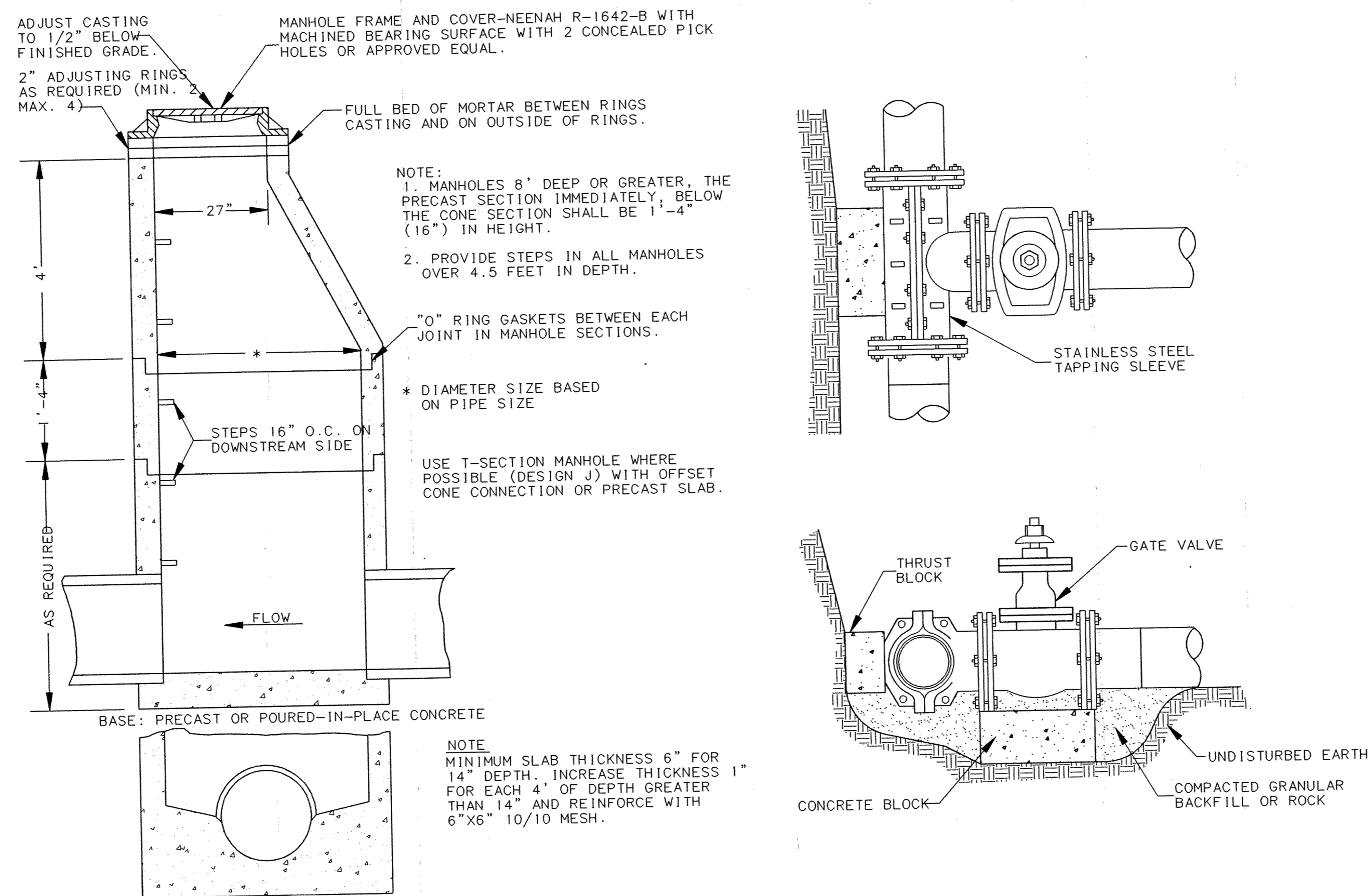


- NOTES:**
1. WHERE WATER MAY STAND, TOP OF MH SHALL BE 2 FEET ABOVE GROUND, AND/OR 2 FEET ABOVE THE 100 YEAR STORM WATER LEVEL.
 2. ON MANHOLES 8" DEEP AND GREATER A ONE FOOT FOUR INCH (1'-4") PRECAST SECTION SHALL BE PLACED IMMEDIATELY BELOW CONE SECTION.
 3. ALL JOINTS BETWEEN SECTIONS SHALL HAVE "O" RING RUBBER GASKETS.
 4. MINIMUM SLAB THICKNESS 6" FOR 14' DEPTH, INCREASE THICKNESS 1" FOR EACH 4' OF DEPTH GREATER THAN 14' AND REINFORCE WITH 6"x6" 10/10 MESH.

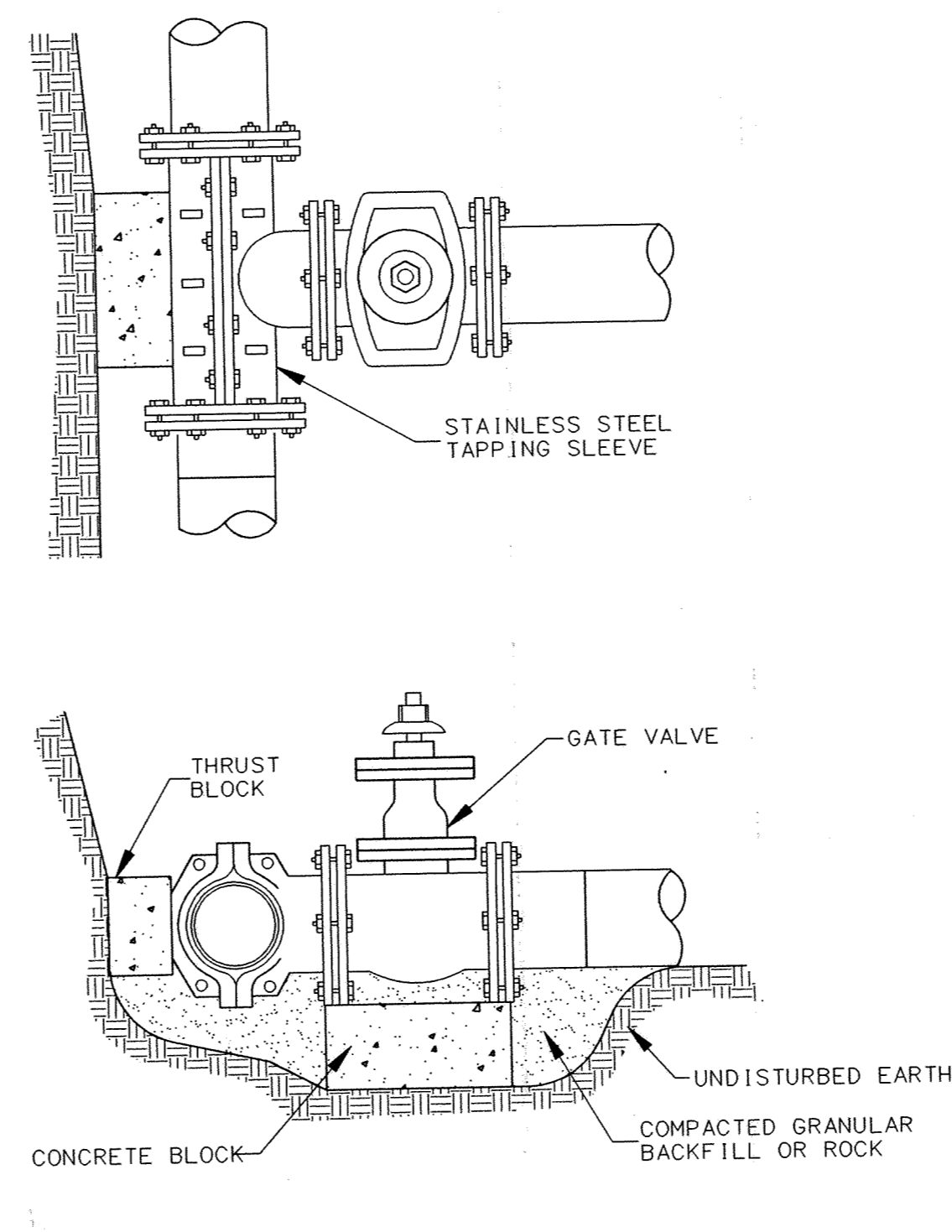
1 STANDARD SANITARY SEWER MANHOLE



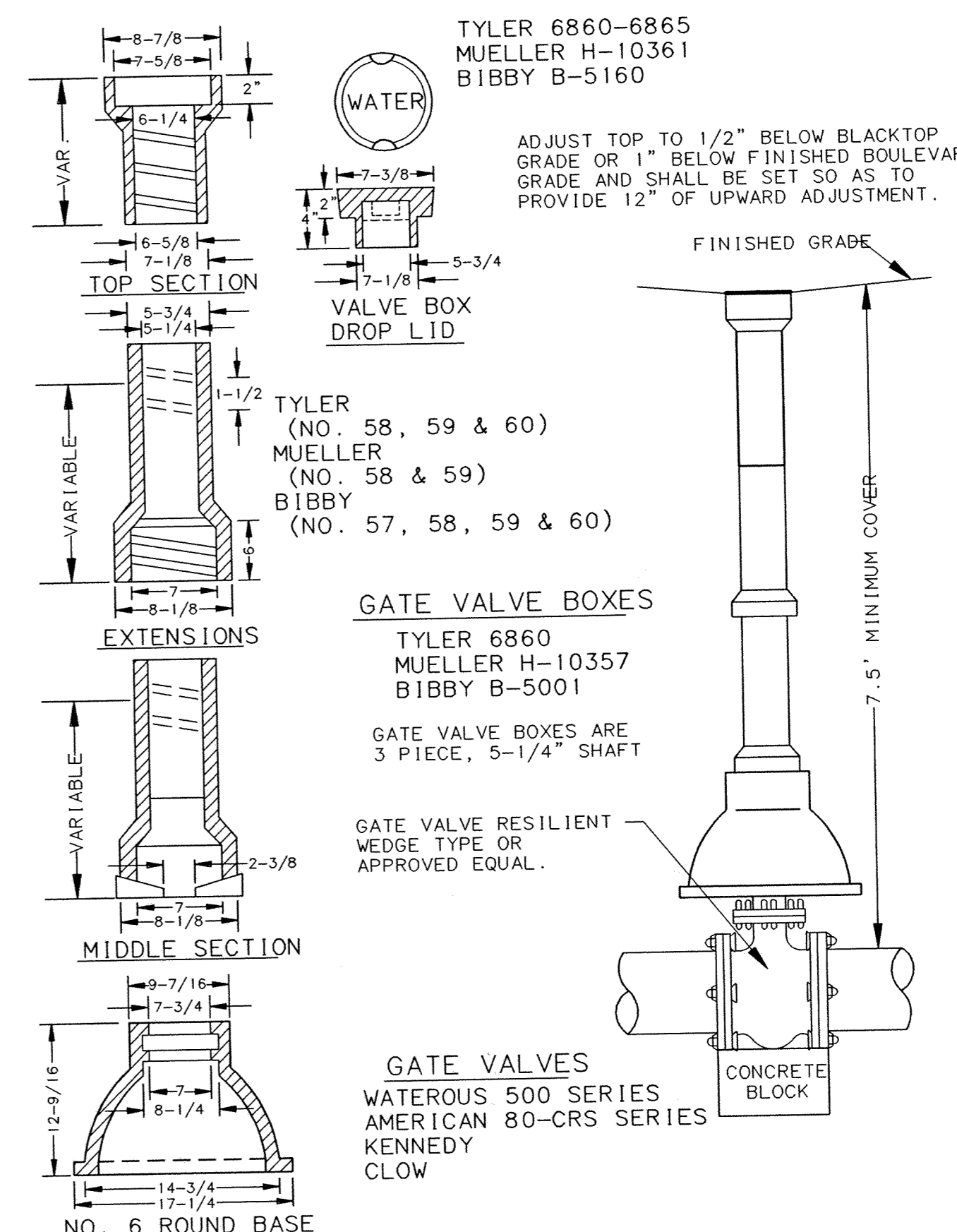
7 FLARED END SECTION WITH TRASH GUARD



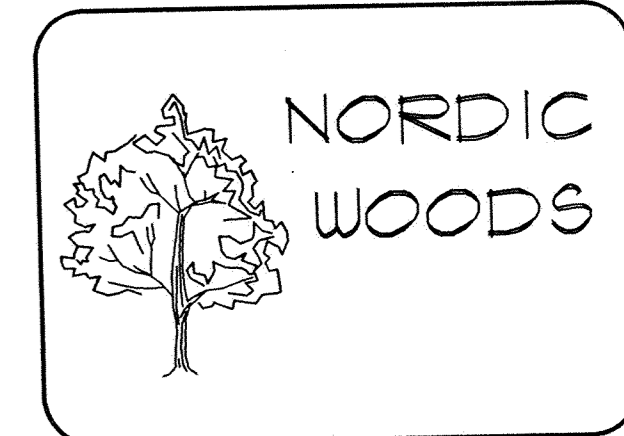
6 STORM SEWER MANHOLE (DEEP)



5 WATERMAIN WET TAP



4 GATE VALVE & BOX INSTALLATION



CITY OF ELK RIVER MINNESOTA

OWNER/DEVELOPER RICHARD LUND 3075 COON RAPIDS BLVD. COON RAPIDS, MINNESOTA 55433

SHEET INDEX

SHEET	TITLE	REV.
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C43	195TH AVE. NORTH	
C44	BOSTON STREET	
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C91	DETAIL SHEET	
C92	DETAIL SHEET	
C93	BOOSTER STATION DETAIL	

DATE | **REVISION**

7-3-96	CITY COMMENTS
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CERTIFICATION:
I hereby certify that this plan was prepared by me, or under my direct supervision, and that I am a duly registered Professional Engineer under the laws of the state of MINNESOTA.
Stephen H. Johnston
Stephen H. Johnston
Registration No: 18915 Date: 5-15-96

Landform
Engineering Company
901 Twelve Oaks Center 16500 Wayzata Boulevard
Wayzata, Minnesota 55391 (612)475-3272

DATE: 5-15-96
FILE NAME: C902NUILDUG
PROJECT NO. HC95004

DETAIL SHEET
C9.1