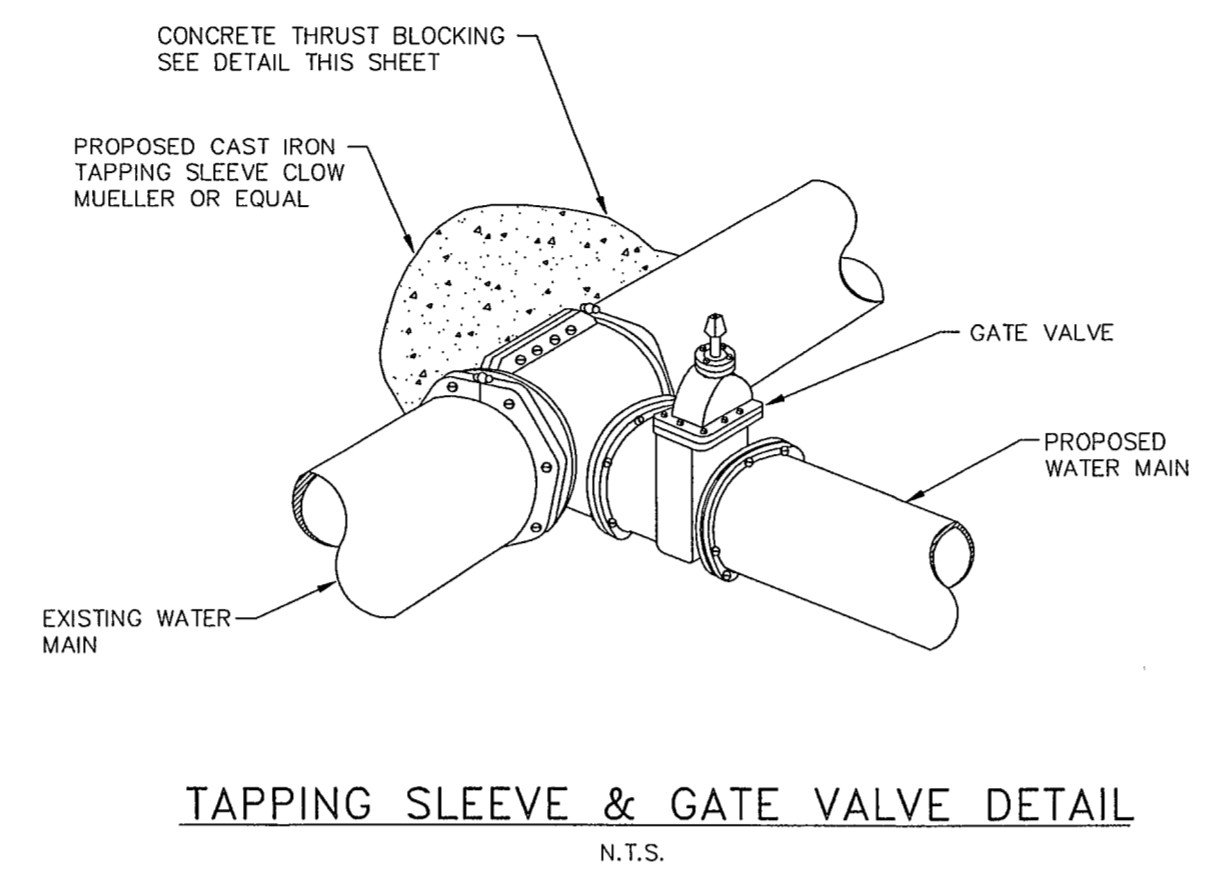
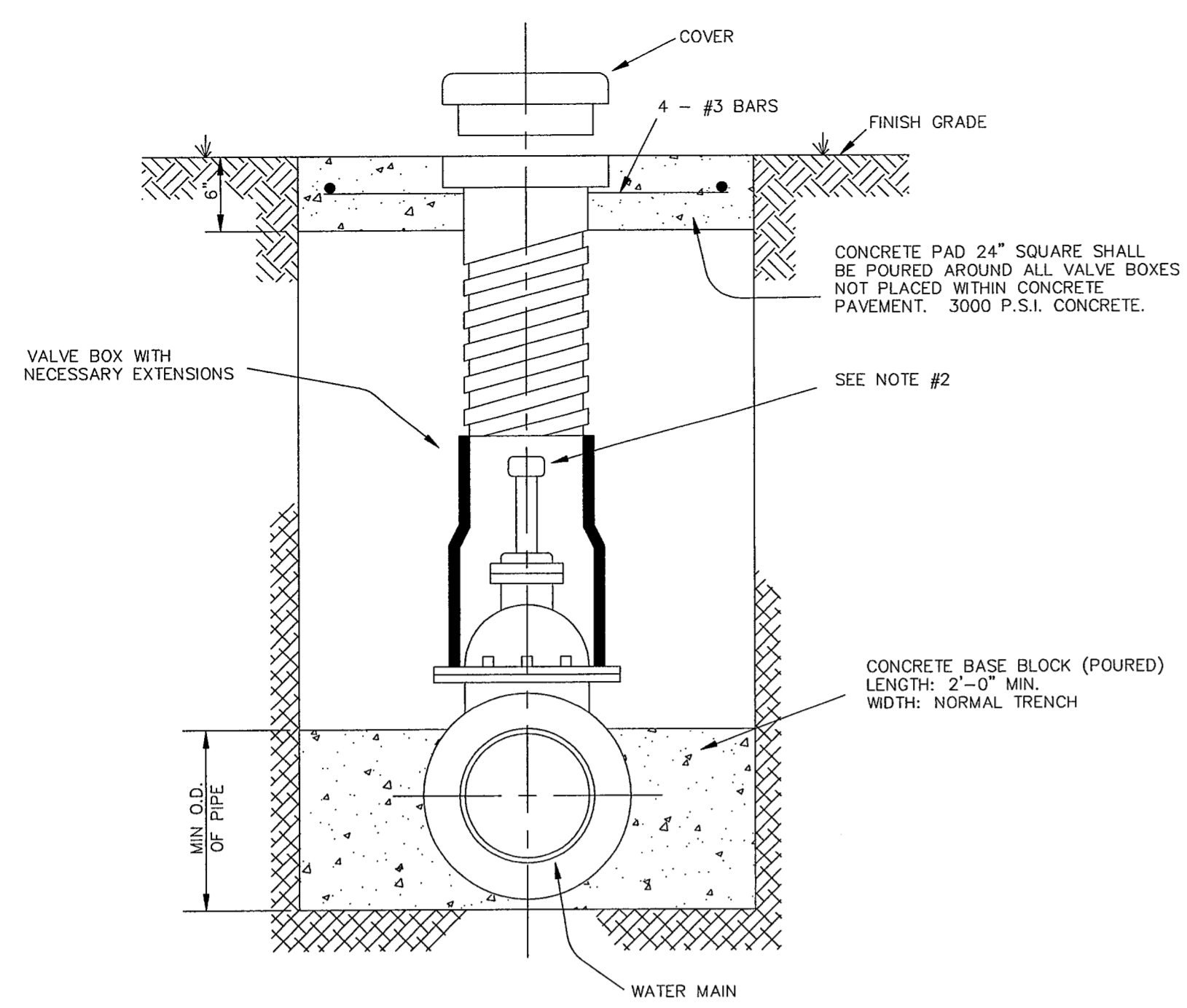
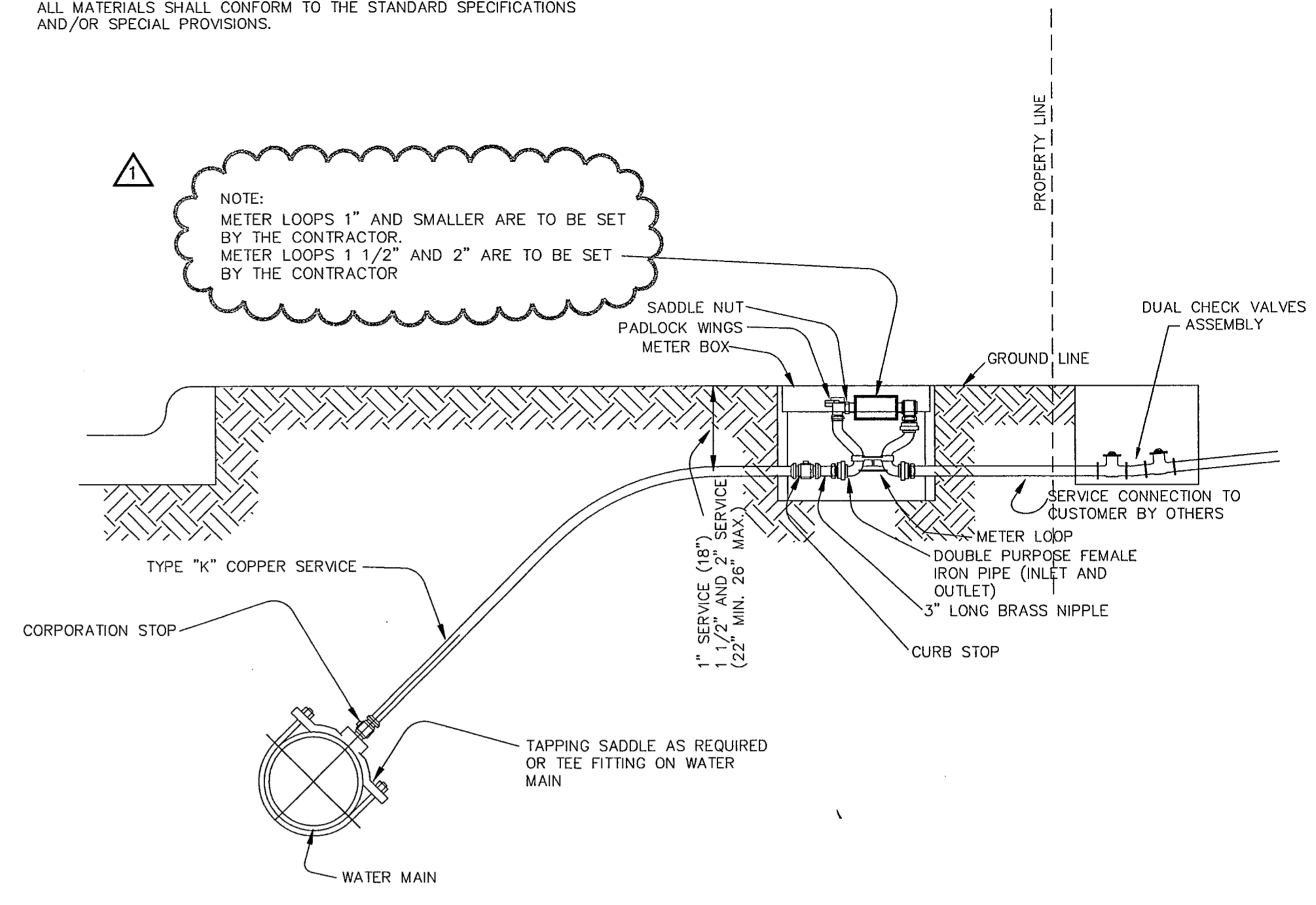


| NO. | DATE | REVISION | APPROV. |
|-----|---------|-------------------|---------|
| 1 | 2/06/02 | PER ADDENDUM No.2 | BRG |
| 2 | | | |
| 3 | | | |



NOTE:
DOMESTIC WATER SERVICES SHALL NOT BE CONNECTED TO FIRE HYDRANT LINES.
ALL MATERIALS SHALL CONFORM TO THE STANDARD SPECIFICATIONS
AND/OR SPECIAL PROVISIONS.

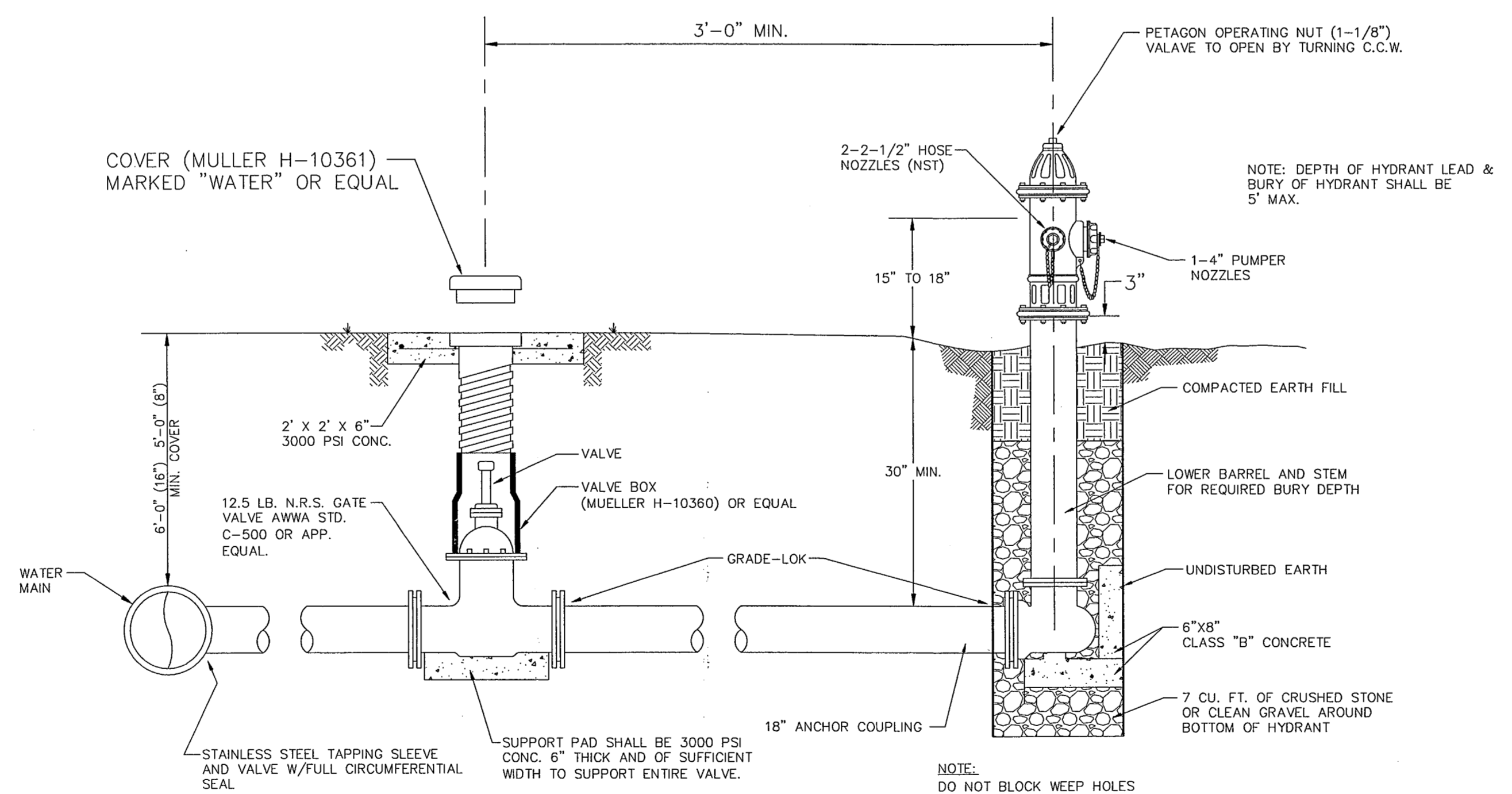


- NOTE:
- GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-509-80 OR LATEST. ALL VALVE SHALL BE "MUELLER OR APPROVED EQUAL."
 - A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE THAT OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4 FEET OF VALVE BOX LID. MANUFACTURED VALVE STACK DUCTILE IRON PIPE TO BE USED FOR EXTENSION GREATER THAN 4'-0". BELL END OF STACK TO BE FITTED OVER VALVE. VALVE AND VALVE STACK ARE TO BE POLYWRAPPED.
 - VALVE SHALL BE OF DUCTILE IRON WITH RUBBER ENCAPSULATED DISK. BODY BOLTS SHALL BE STAINLESS STEEL OF SAME SIZE ON EACH VALVE.
 - ALL VALVE COVERS SHALL BE MARKED "WATER".
"V" SYMBOL POINTING TOWARDS THE VALVE LOCATION.

NOTE:
THE MUELLER "CENTURIAN" OR EQUAL, IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

GENERAL INSTALLATION NOTES:
WATER METER SHALL BE PLACED IN CENTER OF LOT WITH THE SANITARY SEWER HOUSE CONNECTION TO BE LOCATED 10 FEET DOWNSTREAM. ALL TAPS SHALL BE MADE AT A 45° ANGLE TO THE CENTERLINE OF THE PIPE.
THE CONTRACTOR SHALL SET THE METER BOX IN ALL CASES.
THE METER BOX SHALL BE SET WITHIN THE RIGHT-OF-WAY OR A DEDICATED UTILITY EASEMENT. IN ALL CASES THE METER BOX SHALL BE PROTECTED FROM VEHICULAR TRAFFIC.
SEE SHEET NOS. 2 OF 3 AND 3 OF 3 FOR METER ASSEMBLY APPROVED MATERIAL LIST.

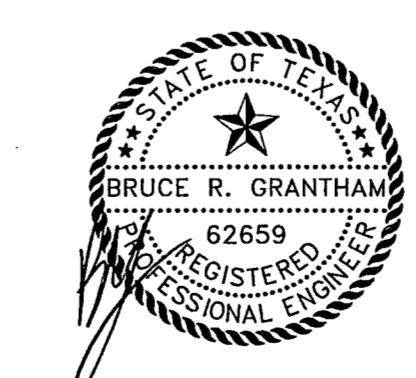
TYPICAL VALVE SETTING AND BOX
N.T.S.



VALVE BOX DETAIL
N.T.S.

FIRE HYDRANT INSTALLATION
N.T.S.

- GATE VALVES AND VALVE BOXES:
- REFER TO SPECIFICATION #GV-95.1
 - VALVE BOXES SHALL BE CAST IRON AND SHALL BE OF SUFFICIENT LENGTH AND DIAMETER TO OPERATE ALL VALVES BURIED IN THE GROUND. COVERS SHALL BE MARKED "WATER" THE BOXES SHALL REST ON THE VALVE AND BE ADJUSTED SO THAT THE COVER MAY BE SET FLUSH WITH THE FINISHED GRADE.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:
BRUCE R. GRANTHAM
ON 02/14/02
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

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|---|---------------------|--|
| DATE: DECEMBER, 2001 | SCALE: NOT TO SCALE | JOB NO.: 00-249 |
| DRAWN: GBW | DESIGN: BRG | REVIEWED: JFW |
| DWG: 249DETAIL-WATER | | |
| ARAPAHO ROAD PHASE II | | |
| STANDARD CONSTRUCTION DETAILS | | |
| WATER - SHEET 1 OF 2 | | |
| TOWN OF ADDISON | | |
| Grantham, Burge & Waldbauer Engineers, Inc. | | SHT. W-4 OF W-5 |
| 1919 S. SHILOH ROAD, SUITE 530, L.B. 27 GARLAND, TEXAS 75042 | | (972) 840-1916 (TEL) (972) 840-2156 (FAX) |