

The diagram illustrates a manhole assembly installed in a trench. The components are labeled as follows:

- CI CAP
- 6" VALVE BOX
- MJ VALVE
- MJ ANCHOR COUPLING

MATERIALS LIST

- 1—MJ GATE OR BUTTERFLY
- 1—MJ ANCHOR COUPLING
- 1—6" VALVE BOX
- CONCRETE SUPPORT BLOCK
- FULL WIDTH OF THE TRENCH

CI CAP

6" VALVE BOX

MJ VALVE

2' OF DI CL SJ PIPE

MATERIALS LIST

1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)

1- 6" VALVE BOX

2'- DI CL SJ PIPE

CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

A cross-sectional diagram of a trench box installation. The trench box is shown as a vertical structure with a top flange and a bottom flange. A side operator is positioned on the left side of the box. The box is filled with a material, and a brick pier is shown at the bottom left corner. The trench box is installed in a trench, with the trench bottom and water main indicated. The distance from the side operator to the trench bottom is labeled 'X'.

Labels in the diagram include: Side Operator, Water Main, Trench Bottom, Brick Pier As Required, and X.

- ### NOTES
1. This detail covers Butterfly Valve installation, inclusive, regard—less of type of pipe or joint used. Larger lines to be detailed on plans.
 2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.
 3. Conc. Support Block to be full width of trench.

Technical Drawing of a Drinking Fountain Assembly

Annotations:

- MOST DEPENDABLE DRINKING FOUNTAIN MODEL #410 DB OR APPROVED EQUAL.
- ACCESS DOOR
- 4-STAINLESS STEEL ALLEN HEAD 1/4 X 20
- ACCESS DOOR
- SLOPE TO DRAIN
- VALVE BOX, SHUT OFF VALVE DRAIN VALVE FOR DRAIN DOWN
- SLOPE TO DRAIN
- ROUND C.I. COVER W/2" RECESSED LIFT RINGS.
- MATCH FINISH GROUND
- STEEL SUPPORT IN CONCRETE
- 1-2" PVC DRAIN TO DRY WELL
- 1/2" NYLON REINFORCED TUBING WATER SUPPLY (NOTE: FLUSH SUPPLY LINES BEFORE HOOK-UP)
- SLOPE LINE BACK TO VALVE BOX.
- ROUND CONC. VALVE BOX. SIZE 18" DIA. MIN.
- PEA GRAVEL
- TO DRINKING FOUNTAIN
- INSULATE AND WEATHER PROOF PIPE AND VALVES.
- 36" MIN.
- 3"
- 4" MIN.
- DRAIN VALVE

NOTES:

1. MEETS ADA REGULATIONS.
2. DO NOT SCALE DRAWINGS.
3. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
4. RUN WATER SUPPLY LINE IN PVC CONDUIT, FROM PEDESTAL TO VALVE BOX FOR FUTURE ACCESSIBILITY & MAINTENANCE.
5. SHOWN WITH VALVE BOX WITH CUT OFF VALVE AND LOW POINT DRAIN.

Diagram illustrating the proposed valve installation. The diagram shows a horizontal pipe section with a vertical branch. The vertical branch is labeled "PROPOSED VALVE". The horizontal pipe is labeled "CIMJ TEE". The vertical branch is connected to the horizontal pipe via an "ANCHOR COUPLING". A "GATE VALVE CIMJ PLUG" is shown on the right side of the horizontal pipe. A note indicates: "NOTE: THRUST BLOCKING TO REMAIN CLEAR OF BOLTS AND M.J. ACCESSORIES".

MATERIALS LIST

CAST IRON OR BUTTERFLY VALVE (AS PER PLAN)
CAP WHEN NECESSARY
PIPE BOX
PIPE (BID WITH PIPE)
REINF. BARS
CONCRETE SUPPORT BLOCK SHALL BE
BOTH OF THE TRENCH

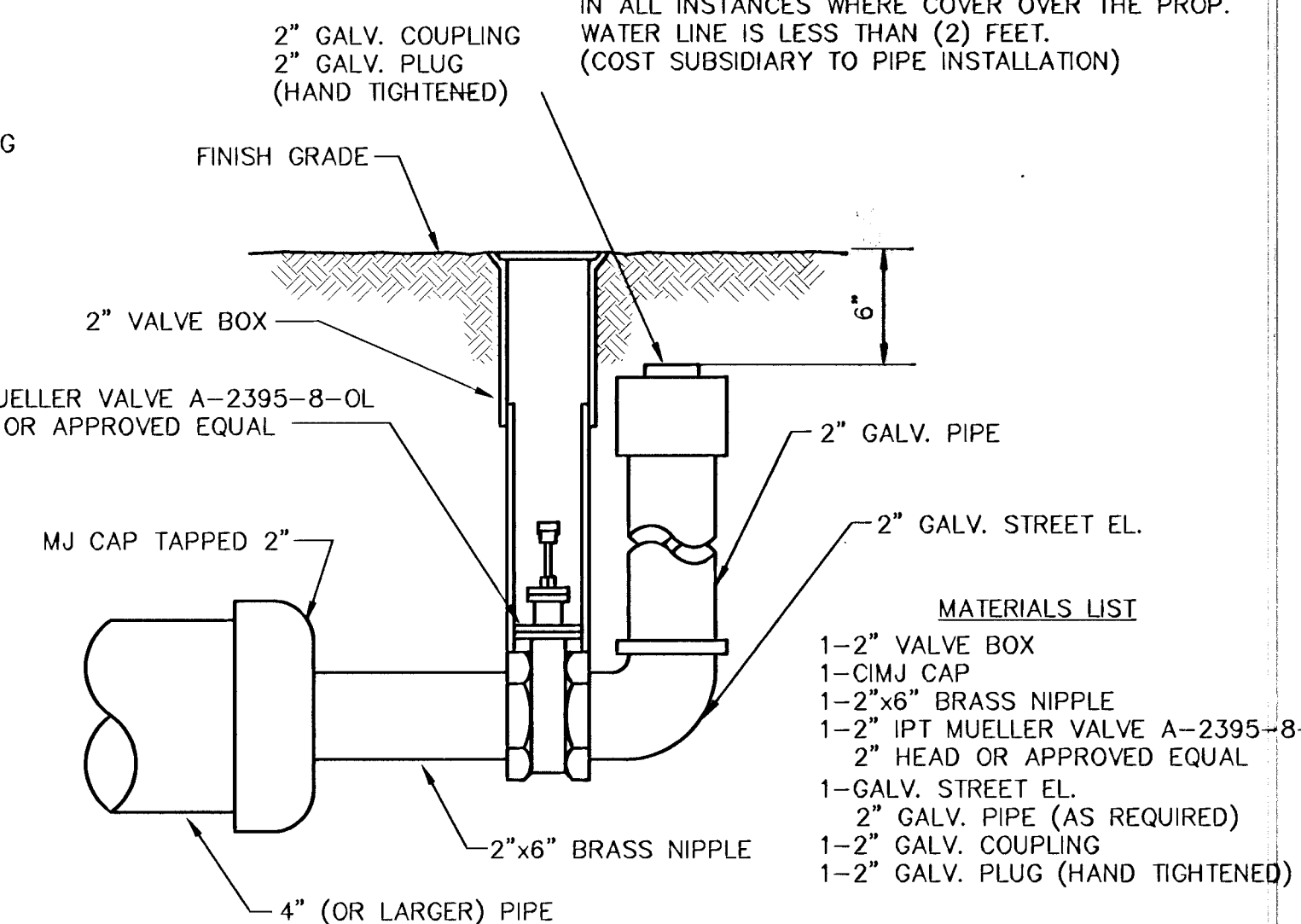
The diagram is a cross-sectional view of a pipe installation. A horizontal pipe is shown with a vertical section cut through its center. The pipe is labeled '20" PIPE (MIN.)'. The pipe is supported by a 'CONCRETE BLOCK' at the bottom. The block is embedded in 'UNDISTURBED SOIL', which is indicated by a hatched pattern. The pipe is surrounded by 'SAND ENCASEMENT', shown as a layer of sand above the concrete block. The diagram also shows the 'PIPE BOX' and 'CAP WHEN NECESSARY' at the top of the pipe. The 'CONCRETE BLOCK' is shown with vertical reinforcement bars (REINF. BARS) extending upwards into the pipe. The 'SAND ENCASEMENT' is shown as a layer of sand above the concrete block. The 'UNDISTURBED SOIL' is shown as a hatched area below the sand encasement.

THRUST AT VALVES	
VALVE	THRUST AT 150 #/in ²
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

- Notes:
1. Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
 2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
 3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

Diagram illustrating the minimum clearance requirements for a water main crossing a road. The road width is 2'-0" (MIN.). The water main width is 10'-0" (MIN.). The water main is 5' from the road edge on both sides. The water main is labeled "WATER MAIN".

2" GALV. COUPLING	MINIMUM PROTECTIVE FILL SHALL BE PROVIDED
2" GALV. PLUG	IN ALL INSTANCES WHERE COVER OVER THE PROP.
	WATER LINE IS LESS THAN (2) FEET.
	(COST SUBSIDIARY TO PIPE INSTALLATION)



THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
405 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4500
(316) 268-4114 FAX

STANDARD WATER ASSEMBLY DETAILS

M. E. LINDEBAK P.E. - CITY ENGINEER

PROJECT NUMBER
390-140

OCA NO.
785-008

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SHEET CU 503 / 50