

**WATER METER (DOUBLE-CHECK) BOX**

When a meter must be located in a traffic area, it will be enclosed in a concrete meter box with a cast iron lid #T36. If necessary, a concrete pad will be poured under the box to take the traffic load.

All meter boxes will be located at a finished grade with the meter top not lower than six (6) to twelve (12) inches below the finished grade. To prevent the inflow of mud and silt into the box, a minimum of eight (8) inches of washed pea gravel will be placed under the meter inside of the meter box.

Double-check valves must be installed on all water lines and should be installed in the same manner as is required for water meters. They must be located in a separate box with a minimum of an eighteen (18) inch nipple between the water meter and the double-check.

A deposit is required on all meters in the Town of Addison. This deposit is to be made by the party responsible for the water bill.

**WATER TAP AND INSTALLATION SPECIFICATIONS**

Contractors or plumbers will be responsible for all taps and materials.

Prior to the actual tap, the Utilities Division will be called to locate the water line, inspect the tapping procedures and supervise the backfill operations. The Utilities Department telephone number is 450-2873.

On taps up to 1 1/2", the following materials will be used:

1. Double strap bronze tapping saddle (Mueller-CC threads).
2. Mueller Corporation stop #H-15000.
3. Tapping saddle and corporation stop to be poly-wrapped prior to backfill.
4. Six (6) inches of cushion sand to be put around main tap and copper line.
5. Copper type "K" soft with flared fittings.
6. Mueller #14255 angle curb stop.
7. Badger or Hersey meter. All meters must have a test port for testing the accuracy of the water meter.
8. Meter box to be concrete meter box. All meter flanges to be brass and flange bolts to be stainless steel.
9. Box to be set at finished grade level.
10. Backflow preventor or double check assembly installed in same manner as required for water meters.

For 1 1/2" to 2" taps, use compression angle curb stop Mueller #14277 with locking wing and Muller compression corporation (Mueller-CC threads) #15013.

Taps over 2": tapping sleeve Mueller #H-615  
tapping valve Mueller #H-667

**RESIDENTIAL  
WATER TAPS & SERVICE**

The Town of Addison's policy regarding water taps is as follows:

Contractors and/or plumbers are responsible for all taps, copper line to meter, flanged-flare type angle curb stop, meter, setting a box large enough to have access to the entire meter, including flanges and curb stop. No hand valves will be allowed on inlet side of meter.

All materials will be provided by the contractor, including double check assembly after all meters. All materials must conform to the town specifications. Meters will be set at the property line out of the flow of vehicles or parking spaces. The meter box will be concrete with reader lid and the meter shall be easily accessible for future repairs. Depth of the meter is to be between six (6) inches and twelve (12) inches from the top of the meter to the top of the meter box. The meter must be a Badger or Hersey, straight-read register, measuring in gallons. All meter flanges shall be brass and all meter flange bolts will be stainless steel.

**Backfill:**

The tapping saddle and corporation stop must be polywrapped (8 mil) and sand placed on the pipe to a depth of six (6) inches to twelve (12) inches deep by hand shovels only. No backhoes. The rest of the backfill may be done by machine, with material free of rocks and clods exceeding three (3) inches in diameter.

**CAUTION:**

If a tap is made and backfilled without an inspector present, it will have to be exposed by the contractor so it may be inspected by the town.

TAP FEES:	3/4" = \$50.00
	1" = \$100.00
	1 1/2" = \$150.00
	2" = \$400.00
	4" = \$600.00
	6" = \$800.00

**PVC (Sewer) Pipe**

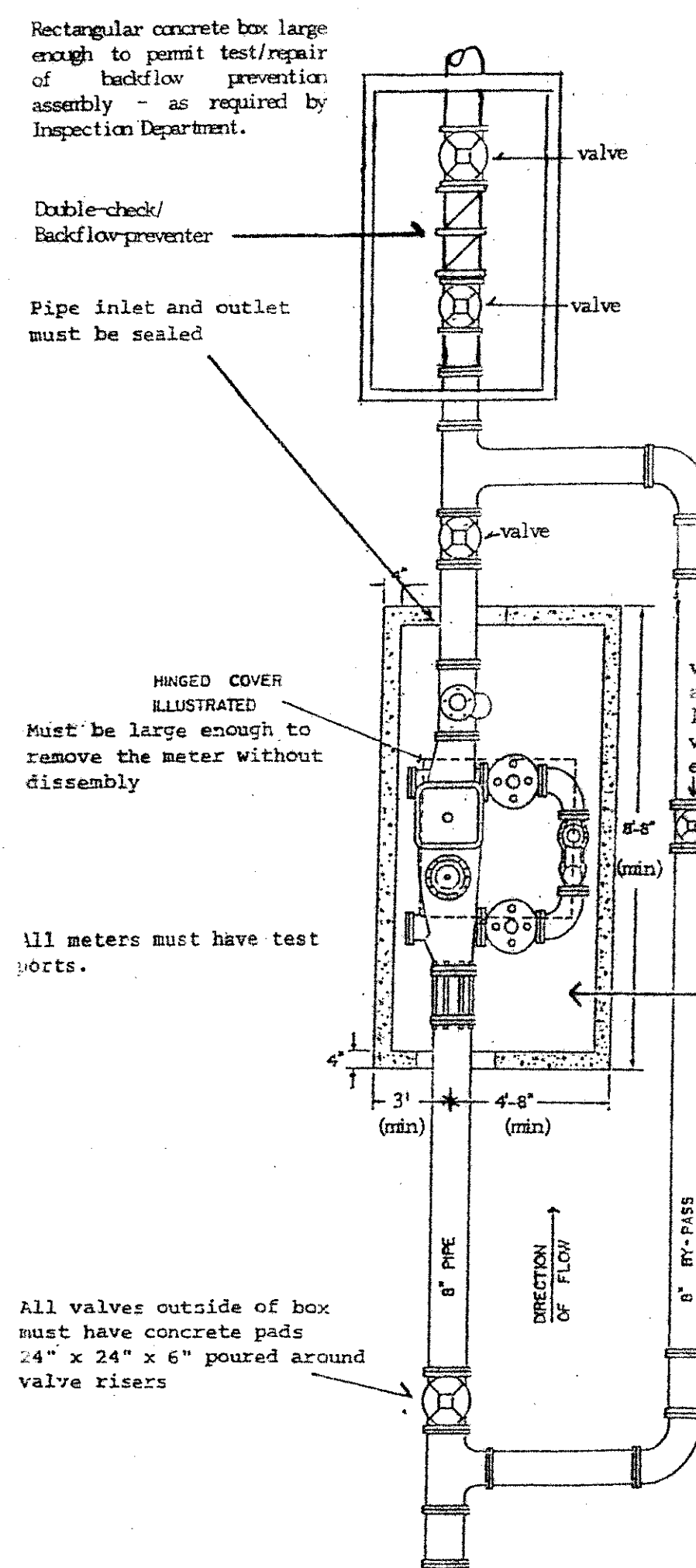
PVC pipe and fittings shall meet the extra strength requirements of ASTM specifications D3034, SDR 35. Pipe shall have integral wall bell and spigot joints.

**Joints** - Joints for the PVC pipe and fittings shall be compression rubber gasket joints. The bell shall consist of an integral wall section with factory installed ring securely locked in bell groove to provide positive seal under all installation conditions.

**Fittings** - Fittings and accessories shall be manufactured and furnished by the pipe supplier and have bell and/or spigot configuration identical to that of the pipe.

**Connections at Manholes** - Asbestos cement sleeves with rubber ring joint will be used at manhole walls to provide positive water tight connections. Manholes are to be poured in place. Six (6) sack concrete mix. Forms must be in place after pour for four (4) hours. Manhole steps are required.

**Stiffness** - Minimum pipe stiffness at 5% deflection shall be 46 (Forty-six) for all sizes when calculated in accordance with ASTM D-2412.

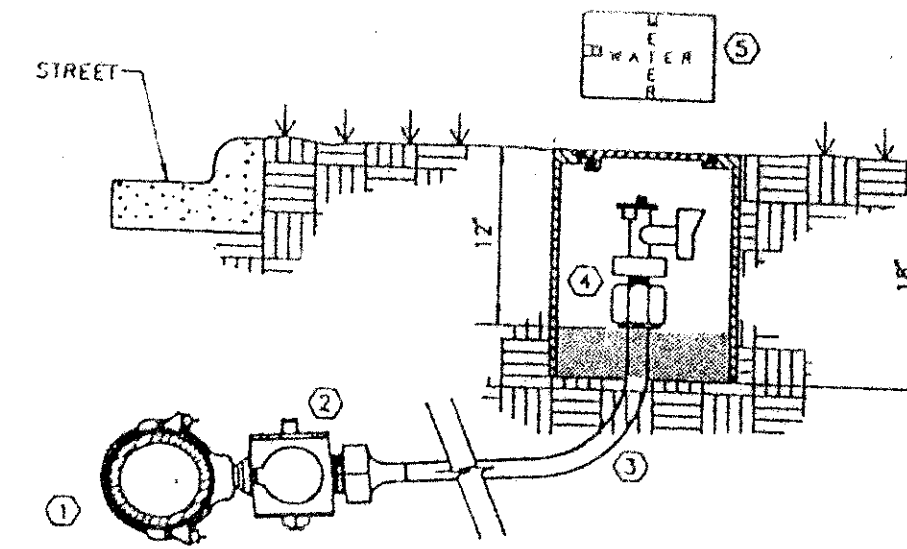


**NOTES:**

1. Pipe and meter size shall be as determined by owner; on approval of Building Inspection and Fire Inspection. Plans must be prepared by a registered professional engineer. Installation is by other than City forces.
2. Vault shall be behind curb and/or walkway and out of vehicular traffic.
3. The doors to the pit shall be of the "Bilco" type, but not necessarily that brand. They shall be aluminum, spring-assisted, and lockable.
4. Meter shall be mounted level in all directions, and should have at least eight diameters of straight pipe at inlet end.
5. All valves shall be resilient seal or resilient wedge type.
6. All fittings outside of vault shall be wrapped with 8 mil. poly.
7. Meter flange bolts and nuts shall be stainless steel.
8. Meter shall rest 1 ft. above floor of vault with the supports placed under the flanges.



02/22/94



- 1. Double strap bronze saddle with C.C.W. threads (Mueller only).
- 2. Corporation stop with C.C.W. threads (Mueller-compression only).
- 3. 1" type "K" soft copper with no splices.
- 4. 90 degree curb stop with lock wing (Mueller-compression only).
- 5. Meter box concrete or metal shell construction with reader lid.

**WATER & SEWER SPECIFICATIONS**

**PVC (WATER) Pressure Pipe**

The PVC pipe shall be SDR-18. Dimensions Class 150. The pipe shall meet or exceed requirements of AWWA C-900-75. PVC pipe with cast iron outside dimensions and with rubber ring joints. PVC water pipe shall be listed by Underwriters Laboratories and approved for use in cities and towns of Texas by the State Board of Insurance. The rigid PVC pipe shall bear the seal of approval (or "NSF" mark) of the National Sanitation Foundation Testing Laboratory for potable water pipe. Provisions must be made for contraction and expansion at each joint with a rubber ring and an integral thickened bell as part of each joint. Pipe and fittings must be assembled with a non-toxic lubricant. Pipe shall be made from NSF approved Class 12454-A or B PVC Pipe Compound conforming to NSF resin specification D1784.

**Joints and Fittings** - Fittings shall be mechanical joint or rubber ring slip joint cast iron fittings. All cast iron fittings will be polywrapped (8 mil.).

**Pipe Bedding**

Bedding material for water and sewer pipe shall be sand. Sand shall be placed six (6) inches below the pipe, six (6) inches each side of the pipe and six (6) inches above the pipe. Sand must be free of clods or lumps exceeding three (3) inches.

**Tracer**

The No. 12 plastic coated copper wire shall be placed in the trench over all water lines. The wire will be tied to all valves and fire hydrants and attached directly to the top of pipe and extending to six (6) inches above finished grade along the outside of all valve stacks and fire hydrants.

**Fire Hydrants**

Fire hydrants will be Mueller Centurion Model, 200 psi rated with two and one half (2 1/2) inch hose nozzles and a four (4) inch stem connection. Threads will be national standard. Fire hydrants shall be located as shown on the plans and shall be set truly vertical with the base resting upon a stone or concrete slab four (4) inches thick and approximately twelve (12) inches square. The base of the hydrant shall be surrounded by not less than two (2) cubic feet of clean crushed stone or gravel, size one (1) inch to two (2) inches. Pipe joints shall be made as specified for pipe laying. The hydrants shall be carefully and substantially blocked against firm trench walls with concrete of 3,000 psi concrete.

All materials must conform to the Town's specifications:

- A. Meters will be set within the utilities easement and out of the flow of vehicles or parking spaces, when possible. When a meter must be located in a traffic area, it will be enclosed in a concrete meter box with a cast iron lid. If necessary, a concrete pad will be poured under the box to take the traffic load.
- B. Meter boxes will be located in finish grade with the meter top not lower than six to twelve inches below the finish grade.
- C. To prevent the inflow of mud or silt into the box a minimum of six inches of pea gravel will be placed under the meter inside the meter box.
- D. Meter boxes shall be of concrete or corrugated metal with a reader lid and large enough that the curbstop, meter, and meter nuts are easily accessible for future repairs.
- E. Meters shall be Badger or Hersey, straight-read register, measuring in gallons.
- F. Double check valves shall be installed on all water services after the meter and accessible for repairs.
- G. A deposit is required on all meters. This deposit is to be made by the party responsible for the water bill.

**SEWER TAPS**

The Town of Addison will make all four (4) to six (6) inch taps. The plumber will be responsible for exposing the sewer line. The line should be fully exposed for a minimum length of thirty-six (36) inches and two-thirds (2/3) of the diameter. To get a tap, call the Sewer Division at least one day in advance. If it is raining or a holiday, the taps will be made on another day. All water must be pumped out of the hole at the time the tap is being made. Taps are to be on a 45 degree angle, and a double clear-out at the property line must be S.D.R. 35 P.V.C.

**BACKFILL:**

The plumber shall extend his yard line to the tap on grade no higher than twelve (12) inches above the tap. Prior to any tap being backfilled, the town shall be called for an inspection and shall supervise the backfill operation. The tap and exposed yard line will be backfilled with sand to a level of twelve (12) inches above the pipe. This portion of the backfill will be done by hand shovels only! No backhoes. After the hand operation, the remainder of the trench can be machine filled with select fill material. No rocks or clods over three (3) inches in diameter.

**CAUTION:**

If you backfill the tap without an inspector on location, you will be required to dig it up for an inspection.

**FEE:**

The fee for a four (4) inch sewer tap is \$110.00.  
The fee for a six (6) inch sewer tap is \$120.00.  
The fee for an eight (8) inch sewer tap is \$160.00.

**TOWN OF ADDISON**  
WATER AND SEWER  
GENERAL NOTES  
**CELESTIAL PLACE**  
ADDISON / DALLAS, TEXAS

FOR :  
**ALLEGIANCE GROUP, INC.**

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DALLAS, TEXAS 75206

BY :  
**DAL-TECH ENGINEERING INC**

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DALLAS, TEXAS 75342  
PH. (214)553-5500