

The solution to this problem is to have the connection cleaned and/or televised. If cleaning does not remove the blockage a point repair will have to be performed. Older homes with clay pipe have this problem due to poor joints between the pipes. The following could be done to prevent a blockage:

A. Sewer Cleaning

In many cases, periodic cleaning is all that is needed to control root growth and reduce the likelihood of blockage.

B. Copper Sulfate Treatment

Many homeowners have had good results by flushing a small quantity of copper sulfate crystals down the sewer at regular intervals. The copper sulfate reduces the rate of growth without harming the trees. Although this treatment may not eliminate root growth, it often increases the interval between cleanings.

CONCLUSION

This brochure was intended to provide a basic understanding of how basement flooding can occur and the possible solutions to prevent it. Since every home is different it would not be practical to discuss all the various types of scenarios in depth. A professional consultation would be recommended prior to any major work associated with basement flooding.

APPENDIX

The following appendix has some additional useful information:

Interior Sump Pump Detail with Gravity Tie Disconnect

Exterior Sump Pump Detail with Gravity Tie Disconnect

Exterior House Plumbing

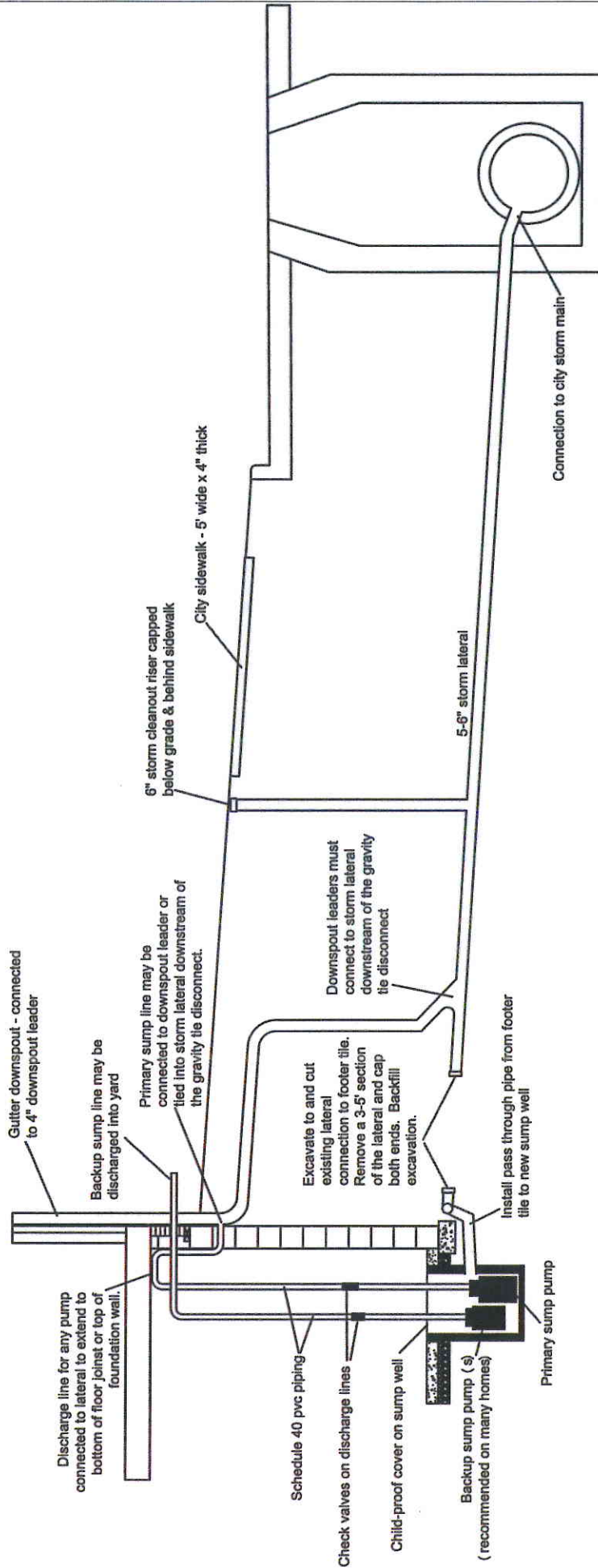
Clean Check Backwater Valve

Canplas Backwater Valve

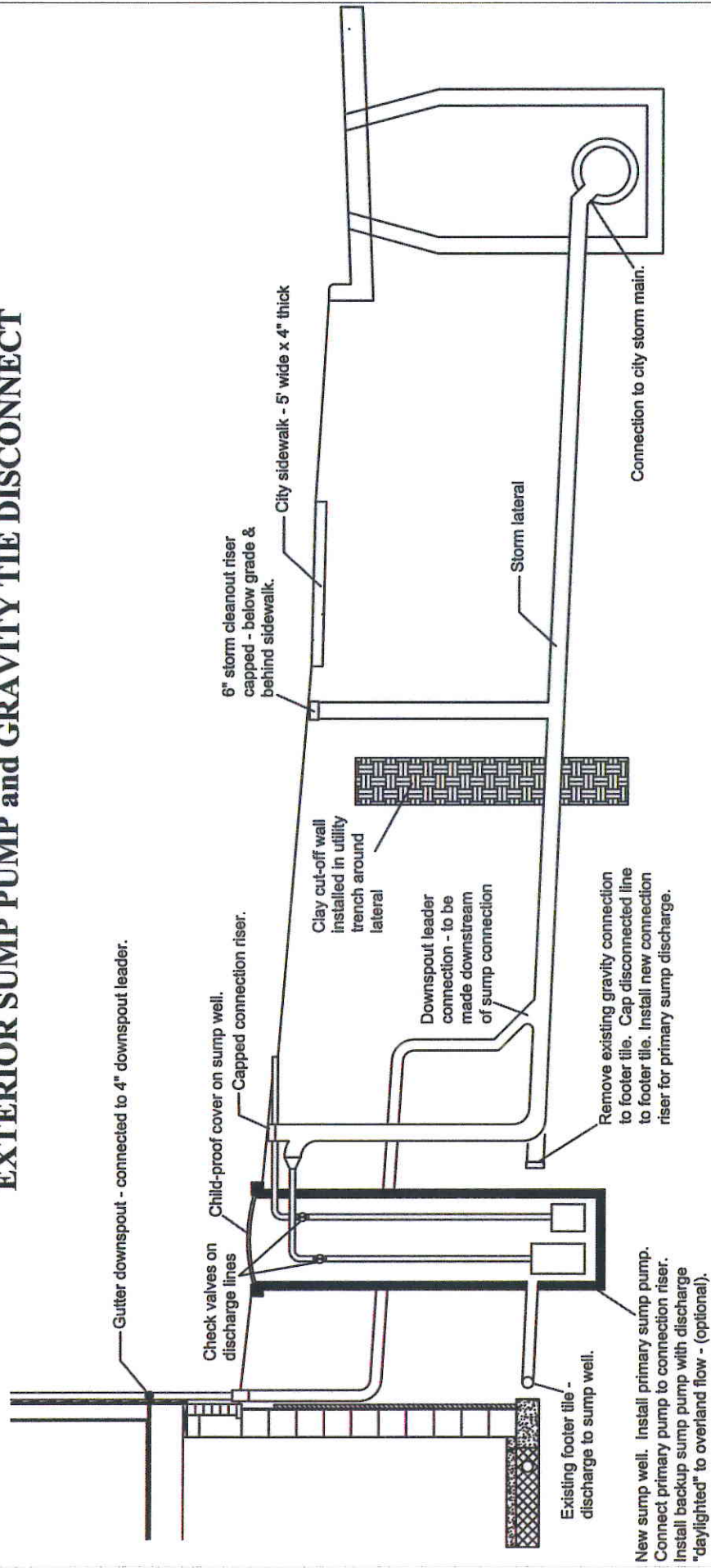
Backwater Installation Valve Detail

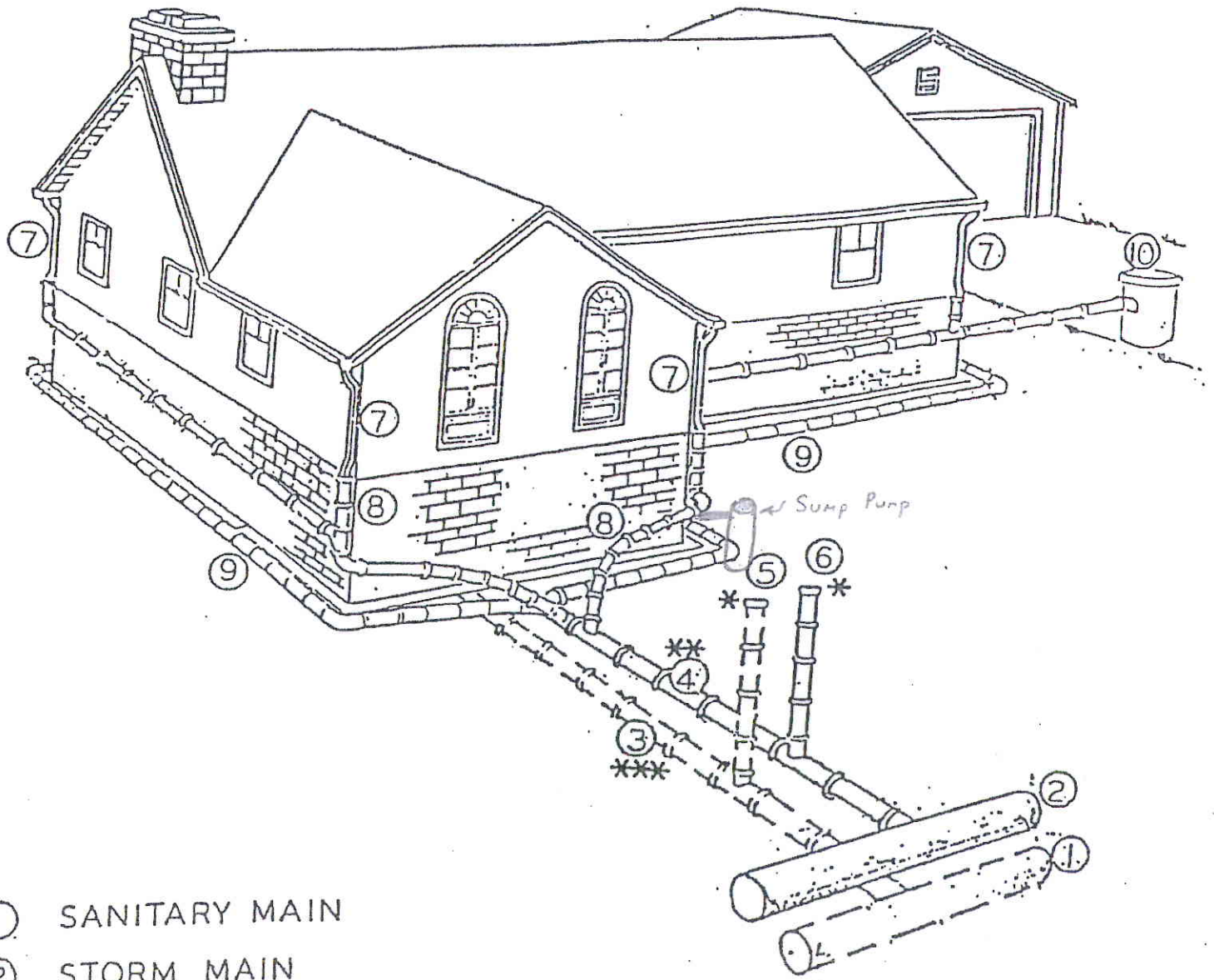
Foundation Detail with Flashing

INTERIOR SUMP PUMP and GRAVITY TIE DISCONNECT



EXTERIOR SUMP PUMP and GRAVITY TIE DISCONNECT





- ① SANITARY MAIN
- ② STORM MAIN
- ③ SANITARY HOUSE CONNECTION
- ④ STORM HOUSE CONNECTION
- ⑤ SANITARY TEST TEE
- ⑥ STORM TEST TEE
- ⑦ DOWNSPOUT
- ⑧ DOWNSPOUT DRAIN
- ⑨ FOOTER DRAIN TILE
- ⑩ DRIVEWAY CATCH BASIN

* - DIVISION BETWEEN CITY RESPONSIBILITY & PROPERTY OWNER'S RESPONSIBILITY

** ALL OUTSIDE DRAINS SHOULD BE CONNECTED

*** ALL INSIDE DRAINS SHOULD BE CONNECTED

BACKWATER VALVE-OPTION 1

Clean Check[®]

Stops Sewage Backups

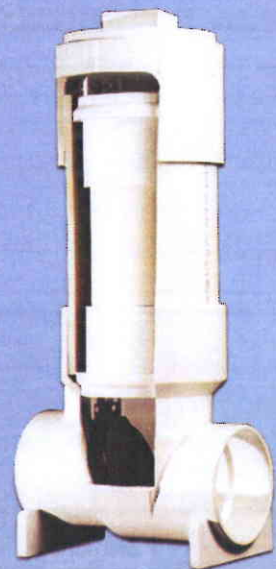
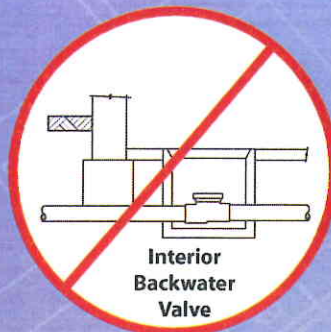
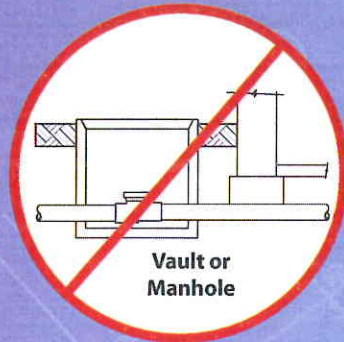
Clean Check[®] is a simple but revolutionary extendable backwater valve that eliminates the need for expensive and unsightly manholes regardless of the burial depth.

- Easy to perform maintenance & inspection from ground level
- “Hands-off” cleaning
- Meets all model construction and plumbing codes

NO costly manhole - direct bury up to 12 feet.

NO more backwater valves indoors which could be hidden by cabinets, stairwells, or floor coverings.

NO more sewer gas or mess into the building during maintenance inspection.

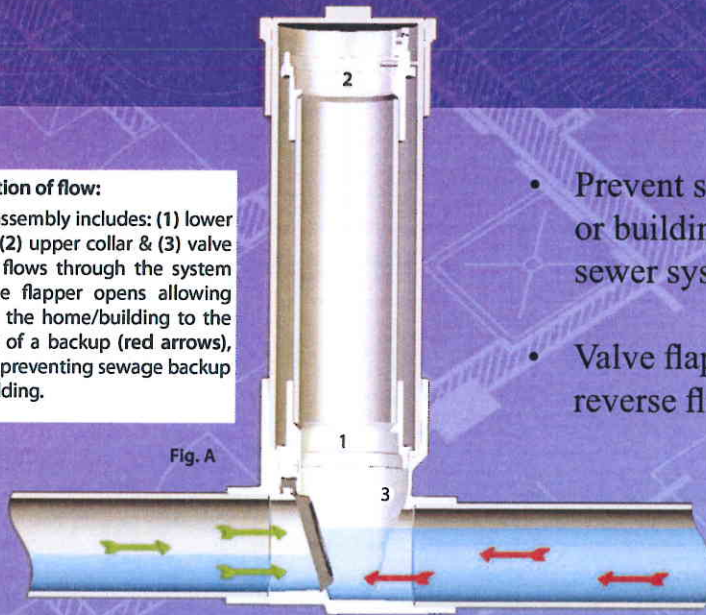


Ground Level Access



(Fig. A) Demonstration of flow:

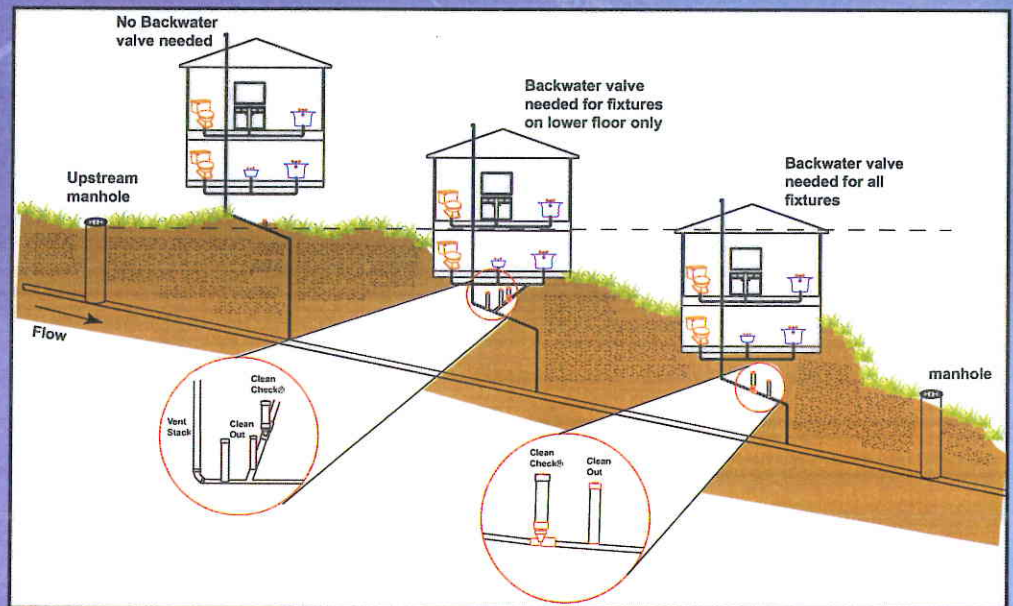
The Clean Check® assembly includes: (1) lower collar with flapper, (2) upper collar & (3) valve body. When water flows through the system (green arrows), the flapper opens allowing waste to flow from the home/building to the sewer. In the event of a backup (red arrows), the flapper will seal preventing sewage backup into your home/building.



- Prevent sewage backup into a residence or building as a result of a plugged sewer system.
- Valve flapper seals the system, blocking reverse flow.

- The unique design allows accessibility at any burial depth, thus eliminating the need for vaults or manholes, it is direct buried using a riser pipe and standard cleanout plug.

- Backwater valves are required under the model code when the flood level rim of the lowest fixture in a structure is below the first upstream manhole cover and they must be accessible for inspection and service.



- Complies with the requirements of IAPMO/UPC, ICC, IPC and CSA Standards.

Code	Description	Qty. per Case
Clean Check - ABS		
96903	3" ABS	6
96904	4" ABS	6
96913	3" ABS w/adaptor & plug	4
96914	4" ABS w/adaptor & plug	4
Clean Check - PVC		
96923	3" PVC	6
96924	4" PVC	6
96926	6" PVC	3
96933	3" PVC w/adaptor & plug	4
96934	4" PVC w/adaptor & plug	4



RectorSeal®
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 FAX 713-263-7577 800-441-0051
 www.rectorseal.com



ES
 ICC ESR-1148
 IPC (International Plumbing Code)
 IRC (International Residential Code)

All replacement parts including the flapper are individually available.

BACKWATER VALVE-OPTION 2

canplas

PRICE LIST USP-107 SPECIALTY PLUMBING PRODUCTS

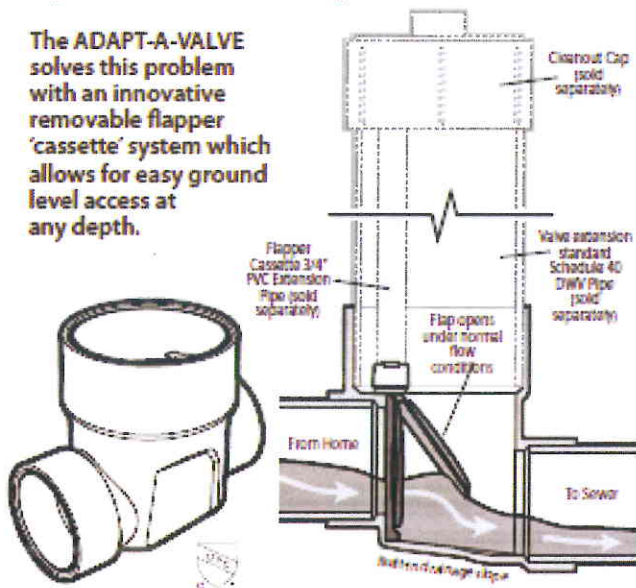
MARCH 29, 2010

NEW! **MAINLINE**

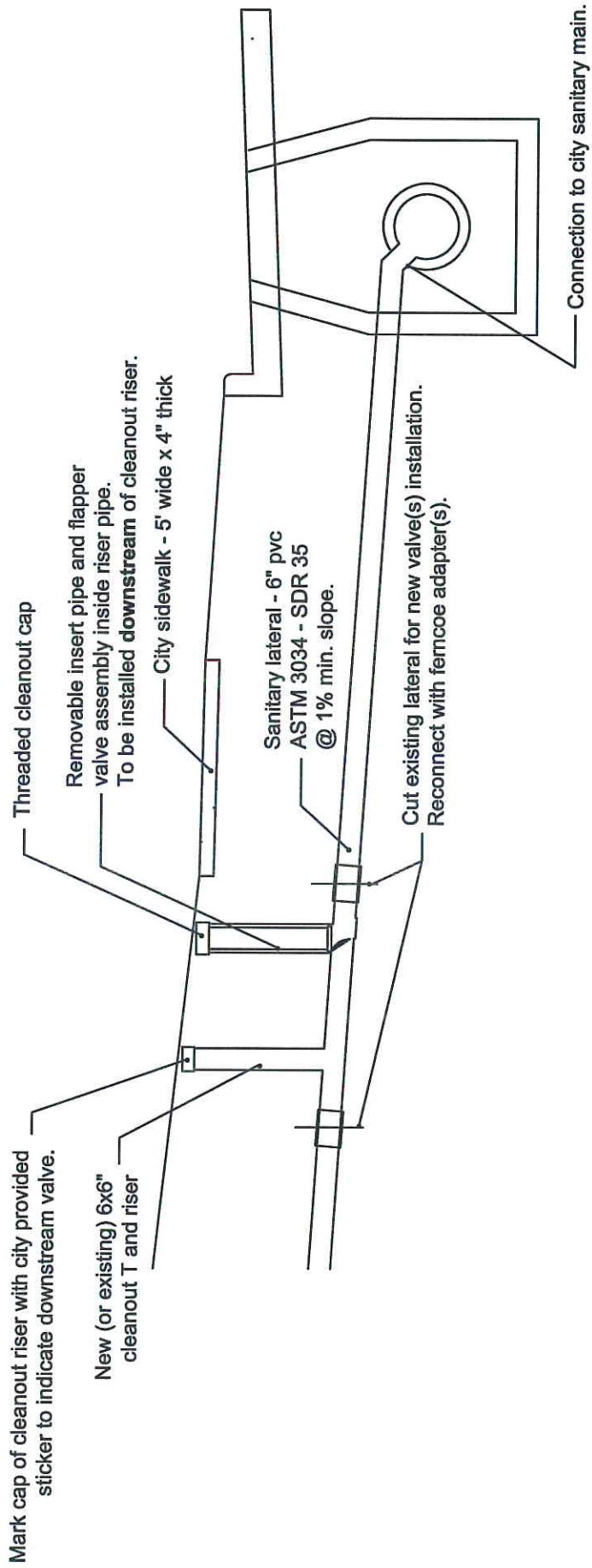
EXTENDABLE **ADAPT-A-VALVE** *Backwater Valves*™

The plumbing code states that a Backwater Valve must be accessible for maintenance and servicing. The traditional way of accomplishing this for in-ground installations was to build a large concrete pit with an access lid, which was a very expensive and time consuming.

The ADAPT-A-VALVE solves this problem with an innovative removable flapper 'cassette' system which allows for easy ground level access at any depth.



SANITARY BACKWATER VALVE INSTALLATION



NOTE: Horizontal scale of drawing shortened for illustration.

FOUNDATION DRAIN AND DAMP-PROOFING REQUIREMENTS

Sheet Metal Flashing Detail

