


<h1>POLICY MANUAL</h1>	Date Adopted: December 7, 1959
Classification: PIPELINE DESIGN STANDARDS	Date Last Amended: 03/08/82; 05/24/00 03/14/01; 04/24/19
Subject: Limitation on Direct Connections Below Top of Curb Elevations	Approved By: 

I. Policy:


Pursuant to consideration of the Koekig and Koekig Report, the economics Report of the Stanford Research Institute, the “Nolte Report,” costs and benefits associated with various alternative standards, and the input of impacted agencies and citizens, the Board of Directors adopted as the District pipeline design standard, the modified four year (two year) rainfall event. This standard provides for storm water accumulation to the top of curb at the low inlet during the peak of the two-year rainfall event, with the pipeline system’s hydraulic grade line design calculations to include 12" of freeboard below the design event elevation.

Pursuant to action by the Board of Directors on March 8, 1982, the pipeline design standard was modified to add a 20% supplemental capacity in all as yet non-constructed pipelines serving non-commercial, non-industrial areas, and a 10% supplemental capacity in such commercial and industrial area pipelines.

II. Policy Exception: Direct Connections to Pipeline System Below the Top of Curb Elevations

It is the policy of the Board of Directors to permit direct connections to the pipeline system below the top of curb elevations only when the following criteria are satisfied:

- A. The site to be served by such direct connection is designated for and constructed for industrial or open space land use.
- B. The connection permitted subject to this Policy exception shall not create a public health or safety exposure not fully re-mediated by the project design.
- C. The area to be inundated below the top of curb contains no structures, improvements or other assets which would be damaged from inundation associated with normal operation of the pipeline system.
- D. The inundation occurring as a result of such below grade connection shall not exceed a depth which would otherwise require safety fencing pursuant to City and County Ordinances, without approval of said City or County.

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- E. The Board of Directors makes a specific determination as to each requested application of this Policy exception that unique and special physical or economic circumstances warrant this exception and that the requisite conditions of approval have been satisfied except as provided in Paragraph H hereof.

- F. The owners of the property seeking the exemption shall provide to the District a recorded covenant, attached to the property, granting to District (a) a satisfactory hold harmless and indemnification; (b) an easement covering all areas of potential inundation below the top of curb; and (c) providing to the District a surety to terminate and re-mediate at the owner's sole expense, to the District's basic pipeline standard, the connection constructed pursuant to this Policy exception, when directed to do so by the District or the Regional Water Quality Control Board, or other appropriate governmental authority.

- G. The connections installed below the top-of-curb elevation shall be fitted with a valve acceptable to the District to minimize back flow onto the site; and shall be equipped with a physical control devise acceptable to the District to entrap spills of hazardous materials so as to prevent entry into the pipeline system.

- H. The District Engineer-Assistant General Manager shall have the authority to approve without Board review direct connections determined to be consistent with this Policy and which meet the following criteria: (1) an on-site landscape area in which the maximum elevation depth is no more than eighteen inches below the lowest adjoining street; (2) existing parking lot and drive areas, provided the water depth will not be deeper than one foot as measured relative to the lowest adjoining street; and (3) depressed loading docks when an automated backflow valve and a manual shut off valve are placed in line between the depressed dock and public drainage system.