

Drainage Criteria Manual

1.2.4.E - Drainage System

3.

(c) Access/drainage easements and access drives are required for those detention, retention and water quality facilities for single-family or duplex residential development and/or for such facilities that will be maintained by the City. Access drives shall have a longitudinal slope not to exceed 15%, a transverse slope not to exceed 5%, no vertical grade break greater than 12%, no vertical curve with grade change greater than 1% per horizontal foot, a centerline turning radius of no less than 50 feet, and a minimum width of 12 feet. The access drive shall include a means for equipment to turn around when located more than 200 feet from a paved public roadway. Access drives shall be cleared, graded and stabilized with stones in accordance with Figure 1-2 in Appendix D of this manual Standard Detail 662S-2, Pond Maintenance Road Typical Cross Section.

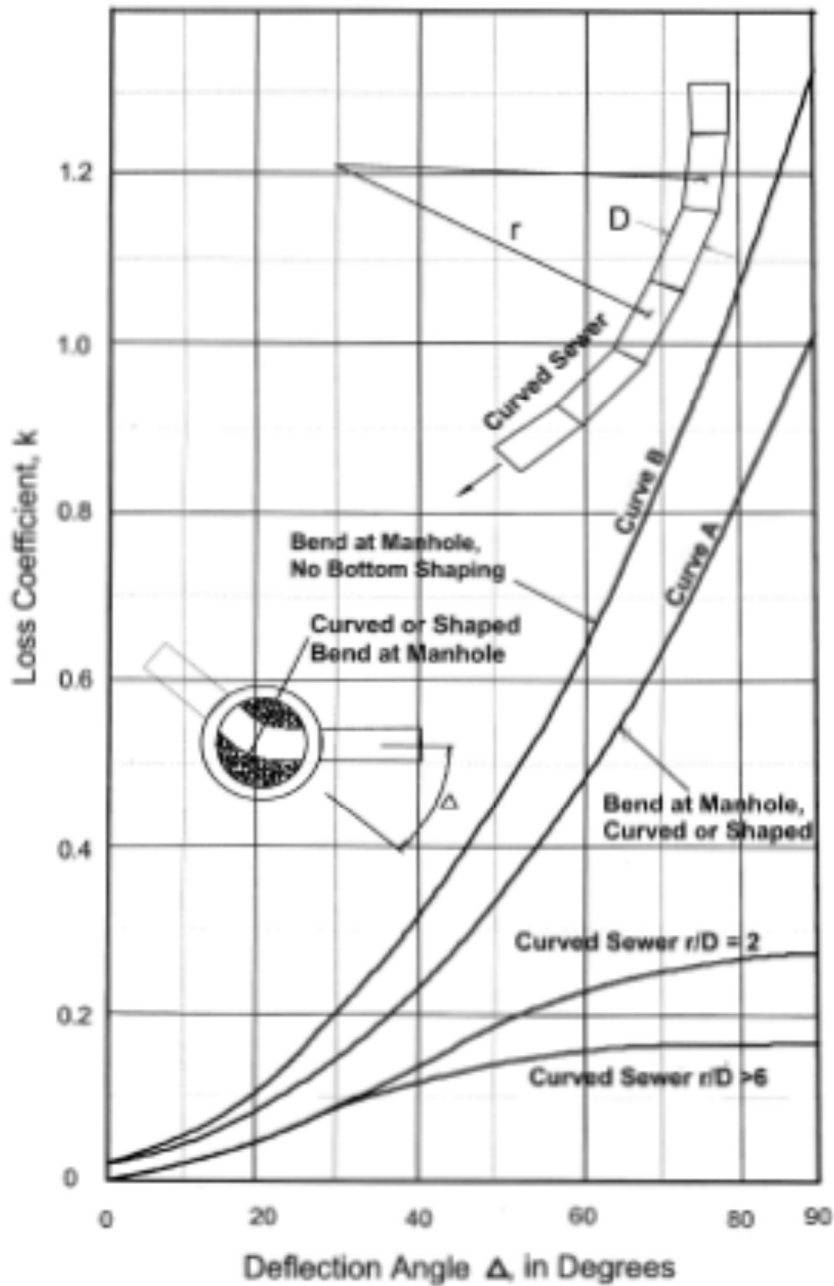
10. Points of access to water quality and detention facilities for single-family or duplex residential development and/or for such facilities that will be maintained by the City shall have a standard City of Austin Type II concrete driveway approach and curb cut on the abutting street. A pipe gate is required at the end of the driveway at the ROW limits. See Figure 1-3 in Appendix D of the Drainage Criteria Manual for details in accordance with Standard Detail 662S-1, Pond Pipe Gate At Ramp Detail.

12. ~~Section 1.6.3.B of the ECM shall apply to all drainage facilities for single family or duplex residential development and/or for such facilities that will be maintained by the City.~~ Environmental Criteria Manual Section 1.6.3 shall apply to all Stormwater Control Measures (SCMs), detention, and retention facilities and their appurtenances.

16. ~~Signs stating "Stormwater Facility - No Vehicles Allowed. No Dumping. Violators will be prosecuted. For information call the City of Austin." Signs are required on each side of a single-family residential, duplex residential, and/or City-maintained stormwater pond control measure. See in accordance with Standard Detail 662S-3 - Storm Water Facility Sign.~~

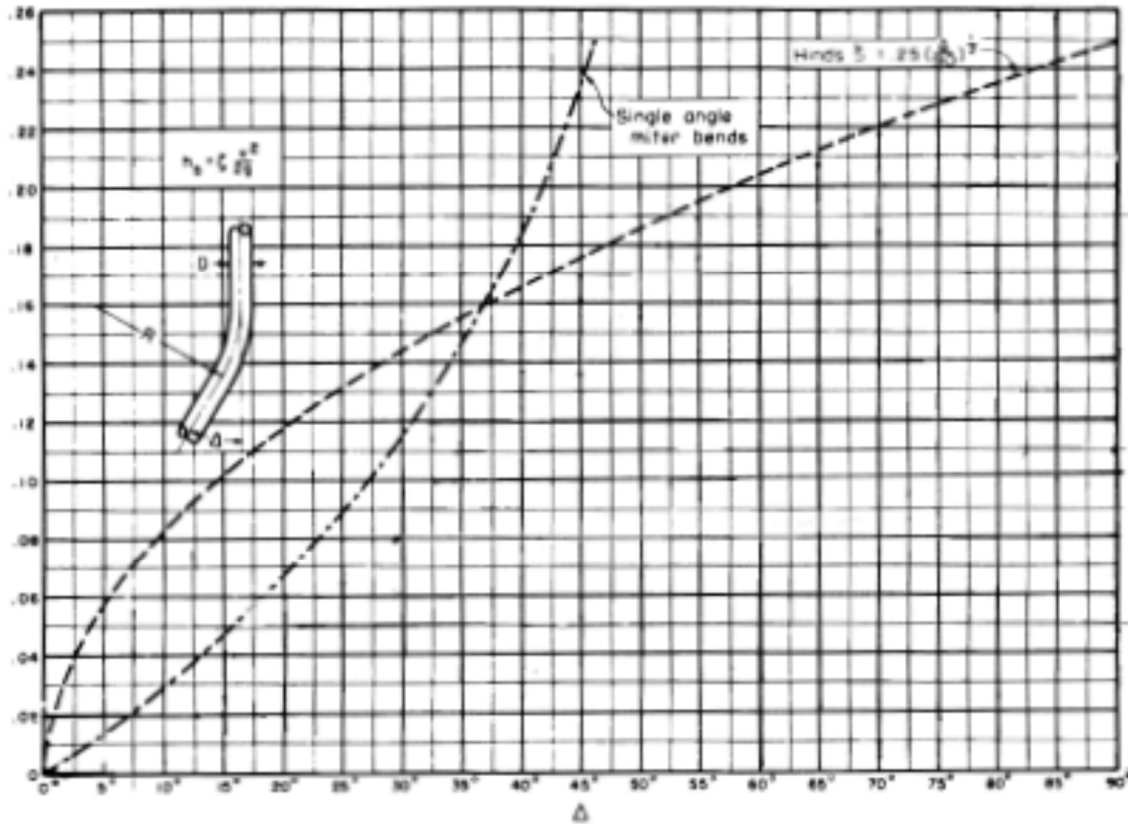
8.5.0 - DETENTION BASIN MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS

Refer to Section ~~1.6.3.C of the Environmental Criteria Manual~~ and 1.2.4. For subsurface ponds
see Environmental Criteria Manual Section 1.6.2(E).



Headloss Coefficient for Cases 2 and 7
 Source: Urban Storm Drainage Criteria Manual
 Volume 1
 Urban Drainage and Flood Control District
 Denver, Colorado
 June 2001, Revised April 2008

Fig. 5-1



Headloss Coefficient for Case 5
 Source: Design of Small Canal Structures
 U.S. Bureau of Reclamation
 Denver, Colorado
 1978

Fig. 5-2