02.7.2 - The hydraulic design of pipe size shall be based on the Colebrook-White formula using the charts for roughness coefficient K.
Reinforced Concrete Pipe...........K = 0.6
UPVC Plastic..............................K = 0.015
Clay........................................K = 0.15

02.7.3 - The maximum and minimum velocity for full pipe flow shall be 4.5 m/s and 0.75 m/s respectively.

02.7.4 - The pipe sizes shall have a minimum capacity designed for a storm event of average recurrence interval as outlined in 02.2.3.

02.7.5 - The pipe types and classes must comply with the following requirements:
   a) Low density residential must be in accordance with "AS1254:2010 PVC-U Pipes and Fittings for Stormwater and Surface Water Applications"
   b) Commercial, industrial, medium and high density residential applications must be in accordance with "AS1260:2009 - PVC-U Pipes and Fittings for Drain, Waste and Vent Applications."

02.7.6 - The minimum pipe class to be used is:
   a) Steel reinforced concrete pipe, Class 2
   b) Fibre reinforced concrete pipe, Class 4
   c) Precast reinforced concrete pipe, Complying with AS4058:2007
   d) U.V. plasticised polyvinyl chloride (UPVC) for roof drainage and sewer, Class SN6
   e) Flexible stormwater pipe, Class SN8 (AS5065:2005)
Alternative pipe material subject to satisfactory demonstration that the proposed alternative material will meet the performance requirements with regard to the design, installation and maintenance for the design life.

02.7.7 - Depth of Cover to Pipes:
   a) Minimum pipe cover for polyvinyl chloride (PVC) pipelines vary for different locations and loadings. Minimum covere is set out in the technical manual and must be in accordance with "AS2032:2006 - Installation of PVC Pipe Systems."
   b) Pipe bedding and cover requirements for steel reinforced concrete pipe (RCP) or fibre reinforced concrete pipe (Fibre RCP) shall be determined from the Concrete Pipe Association or "AS3725:1989 - Loads on buried Concrete Pipes."
The required bedding and minimum cover to pipes shall be in accordance with the manufacturer's recommendations.

02.7.8 - The minimum pipe size for the main drainage system shall be 300mm in diameter.

02.7.9 - Pipe diameters along a main drain shall not decrease in the downstream direction irrespective of steeper grades.