**Plumbing and Drainage II**

1. Cold water systems work and maintenance
2. Hot water systems work and maintenance
3. Locating the main components of domestic plumbing systems
4. Maintaining the system of pipes, tanks, fittings, and other apparatus
5. Sanitary drainage system
6. Vents and venting systems
7. Storm drainage systems
8. Layout and terminology of wastes and drains

**Cold Water Systems Work**

**Public Water Mains:**

a) Service mains shall be of adequate size to give the required rate of flow.

b) The mains shall be divided into sections by making loop system and with the provisions of valves.

c) To avoid dead ends, the mains shall be arranged in a grid formation or in a network.

d) Where dead ends are unavoidable, a hydrant shall be provided to act as a wash‐out

e) The wash‐out valve shall not discharge directly into a drain or sewer, or into a manhole or chamber directly connected to it; an effectively trapped chamber shall be interposed, into which the wash‐out shall discharge.

f) Air valves shall be provided at all summits, and wash‐out at low points between summits.

g) The cover for the mains shall be at least 900 mm under roadways and 750 mm in the case of footpaths.

h) The mains shall be located sufficiently away from other service lines like electric and telegraph cables to ensure safety or suitable protective measures shall be accorded to the mains.

**Interconnection Pipes from Water Main**

a) The communication pipe between the water main and the stop‐cock at the boundary of the premises shall be laid by the Authority.

b) Connections up to 50 mm diameter may be made on the water main by means of screwed ferrules, provided the size of the connections does not exceed one‐third the size of the water main. In all other cases, the connection shall be made by a T‐branch off the water main.

c) As far as practicable, the communication pipe and the underground service pipe shall be laid at right angles to the main and in approximately straight lines to facilitate location for repairs.

d) Every communication pipe shall have a stopcock and meter inserted in it.