



LECTURE-VII SEWERAGE

BUILDING SERVICES-II (PLUMBING)

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It refers to the system of pipes, pumping stations and treatment facilities that collect and treat sewage.

SEWERAGE |

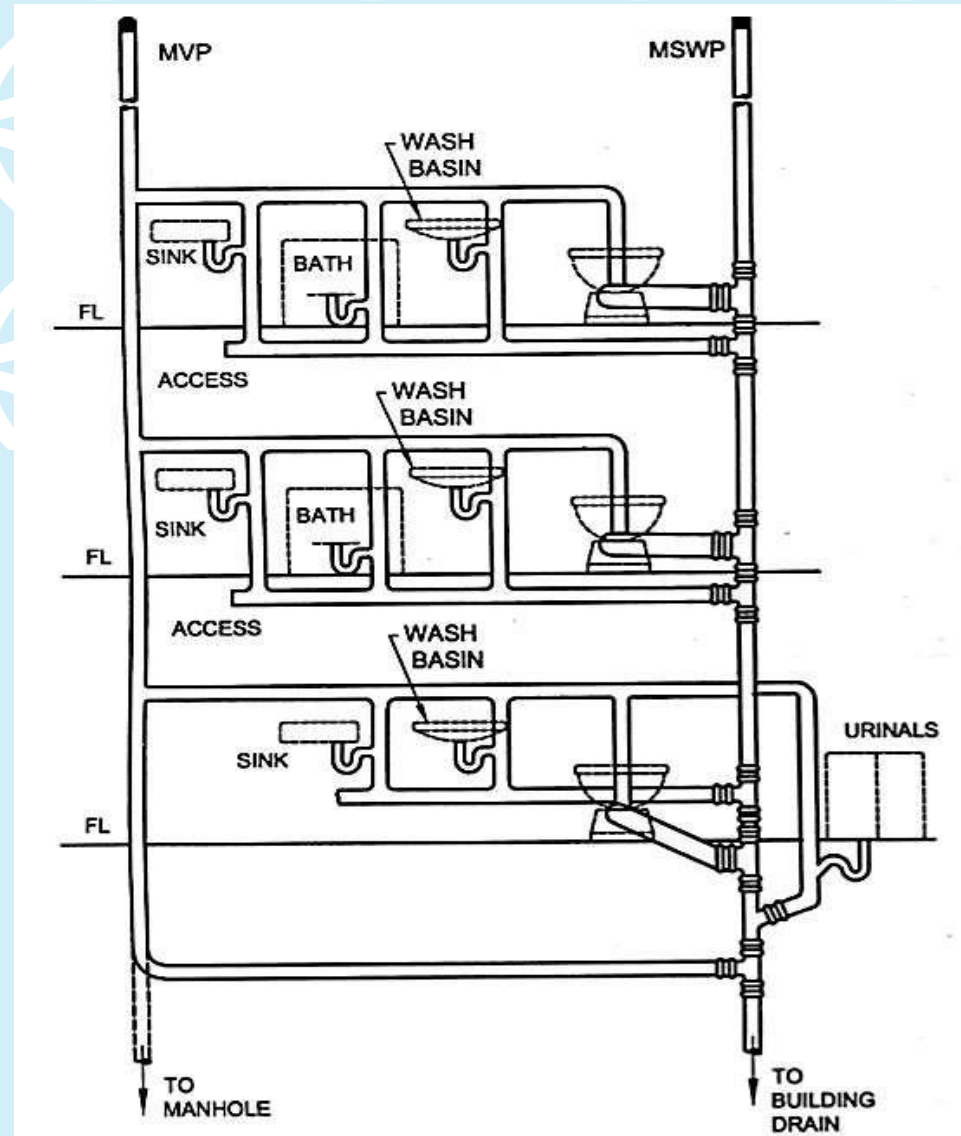
SYSTEMS OF SEWERAGE AT UNIT LEVEL

There are mainly four different types of systems depending upon the number of pipes, which are used for the transport of refuse (waste) from the sanitary fitting to the house drain.

1. One-pipe system
2. Two-pipe system
3. Partially ventilated one-pipe system
4. Single stack system

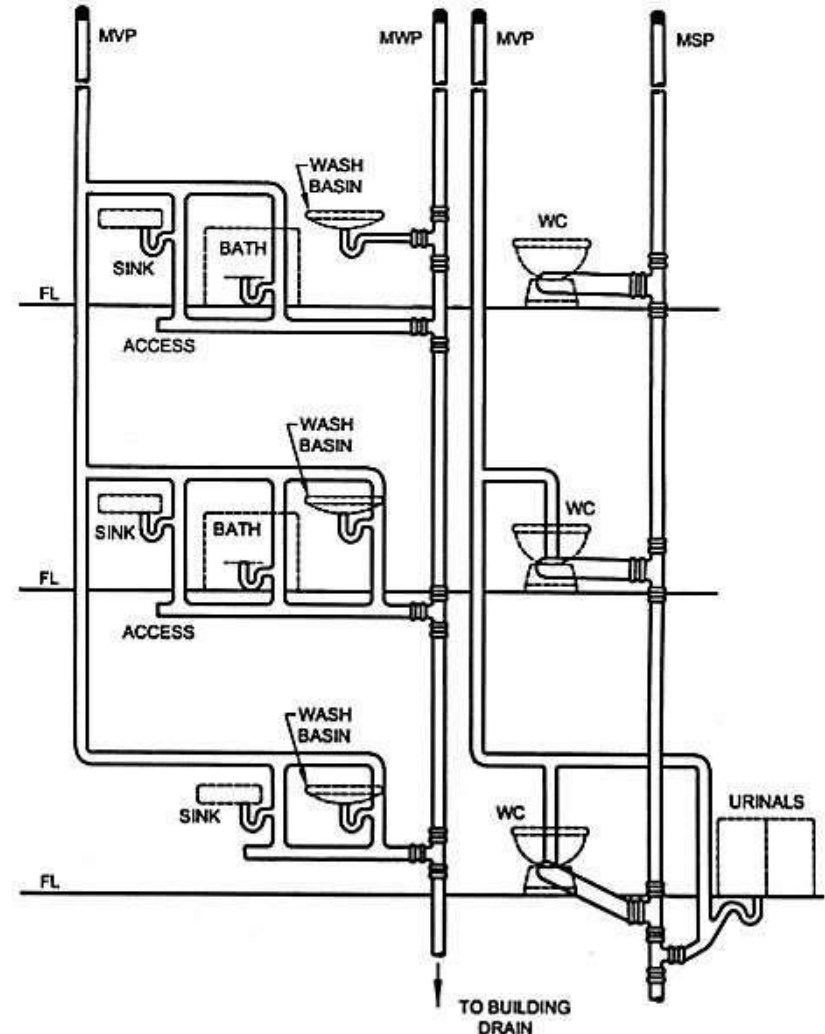
ONE-PIPE SYSTEM

- This type of system contains single Main Soil & Waste pipe which carries the waste from WC's, Urinals, Sinks, WB's, Floor drains, Showers etc.
- One vent pipe is also provided in this system which provides ventilation to all the fittings.



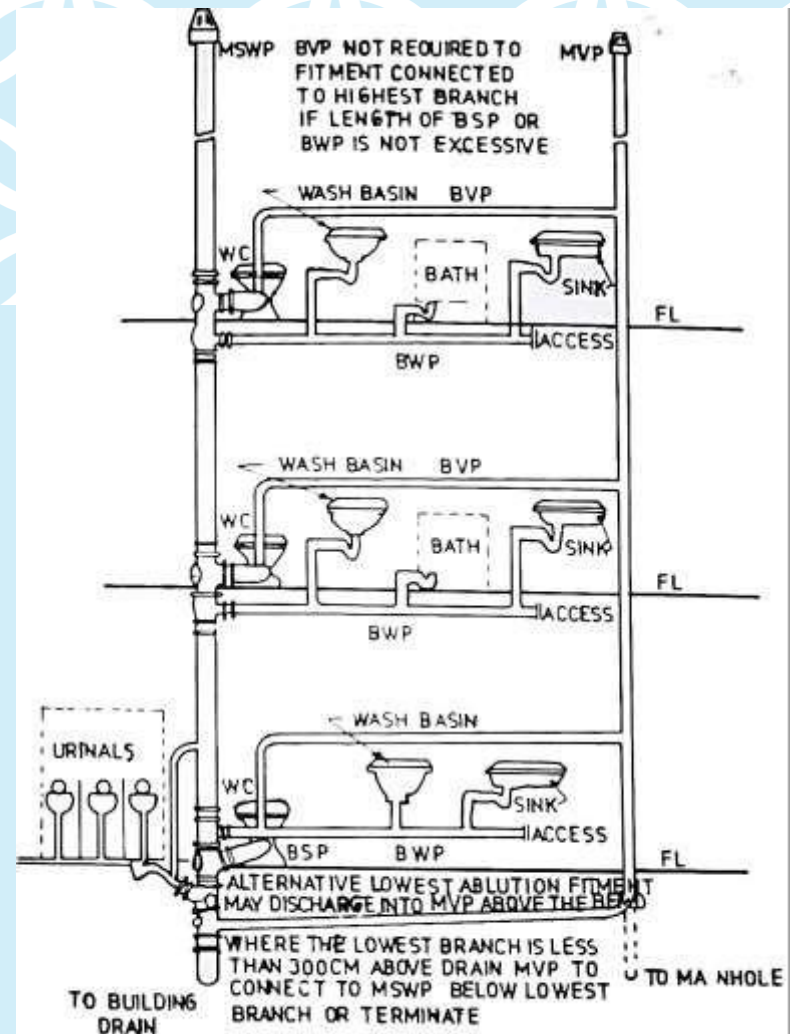
TWO-PIPE SYSTEM

- This type of system contains two vertical pipes main soil pipe and main waste pipe which carries the waste from WC's, Urinals and waste water from Sink, wash basins and showers respectively.
- Also these two pipes are separately connected by vent pipes for the ventilation of the system.



PARTIALLY VENTILATED ONE-PIPE SYSTEM

- This system is similar to the one-pipe system and contains only one Main soil and waste pipe for the transport of refuse (waste) from all the sanitary fittings.
- This is called partially ventilated because vent pipe is provided for the traps of soil fittings i.e. WC's and urinals.



SINGLE-STACK SYSTEM

- In this system, there is a single vertical Pipe which is used as Soil cum waste Pipe and also acts as a vent pipe for Soil fittings.
- This is the most economical of all the systems but in this systems all the traps should have a minimum water seal of 75 mm so that it doesn't break due to siphonic action.

