

Soils and Wastes Typical Details

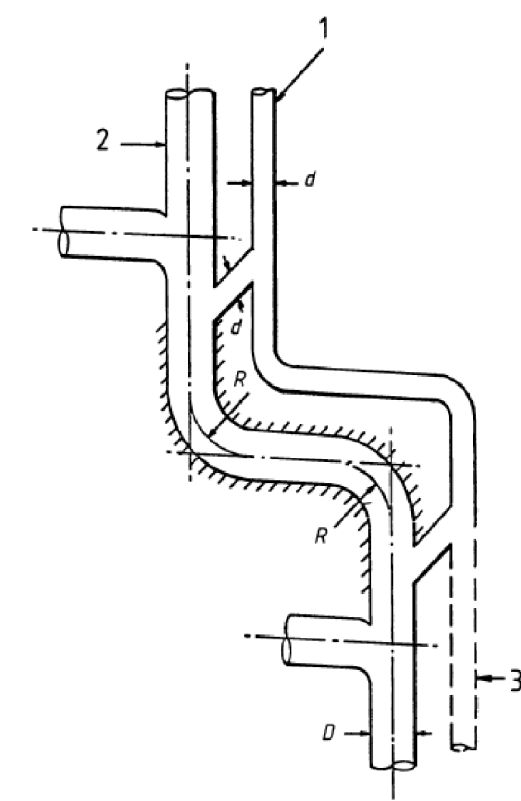
Minimum Branch Pipe Size

Type of Appliance	SIZE (mm)
Wash Hand Basin	32
Sink	40
Janitorial Sink	40
Bath	40
Shower	40
Urinal (Bow)	40
Urinal Slabs	65
Washing m/c / Dishwasher	40
Dental chair	40
Fresh water fountain	32
Ice machine	32
Dental suction machine	40

Pipework Gradients

Diameter (mm)	Main Drain 80% Gradient	Branch Drain 40% Gradient
75	1:60	1:30
110	1:80	1:40
160	1:120	1:60
225	1:180	1:90

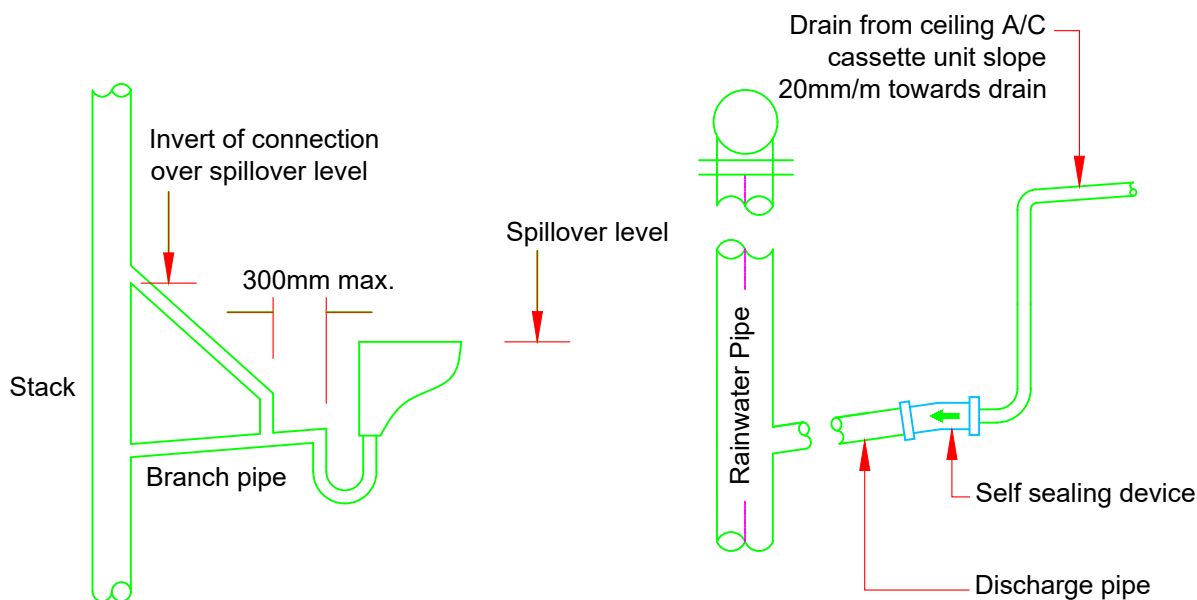
Typical Discharge Stack Offset Detail



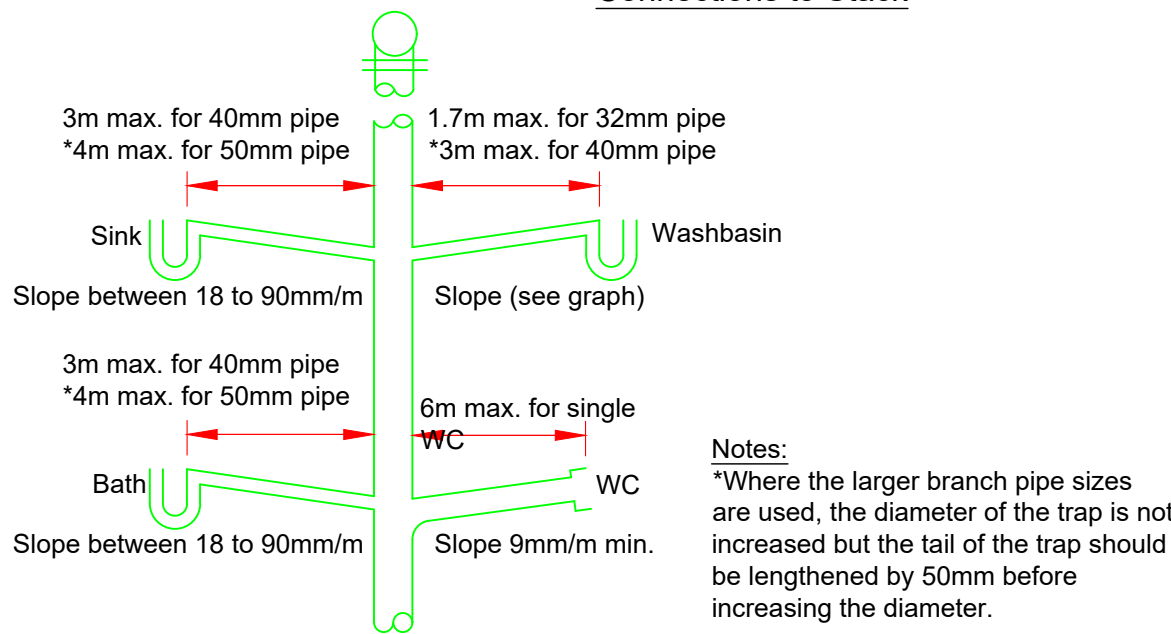
Legend:

- Ventilation stack to atmosphere (or connected to stack vent)
- Discharge stack
- For ventilated system sized R is as large as possible (ID x 2min)
d = D/2, or for ventilated system if larger than D/2

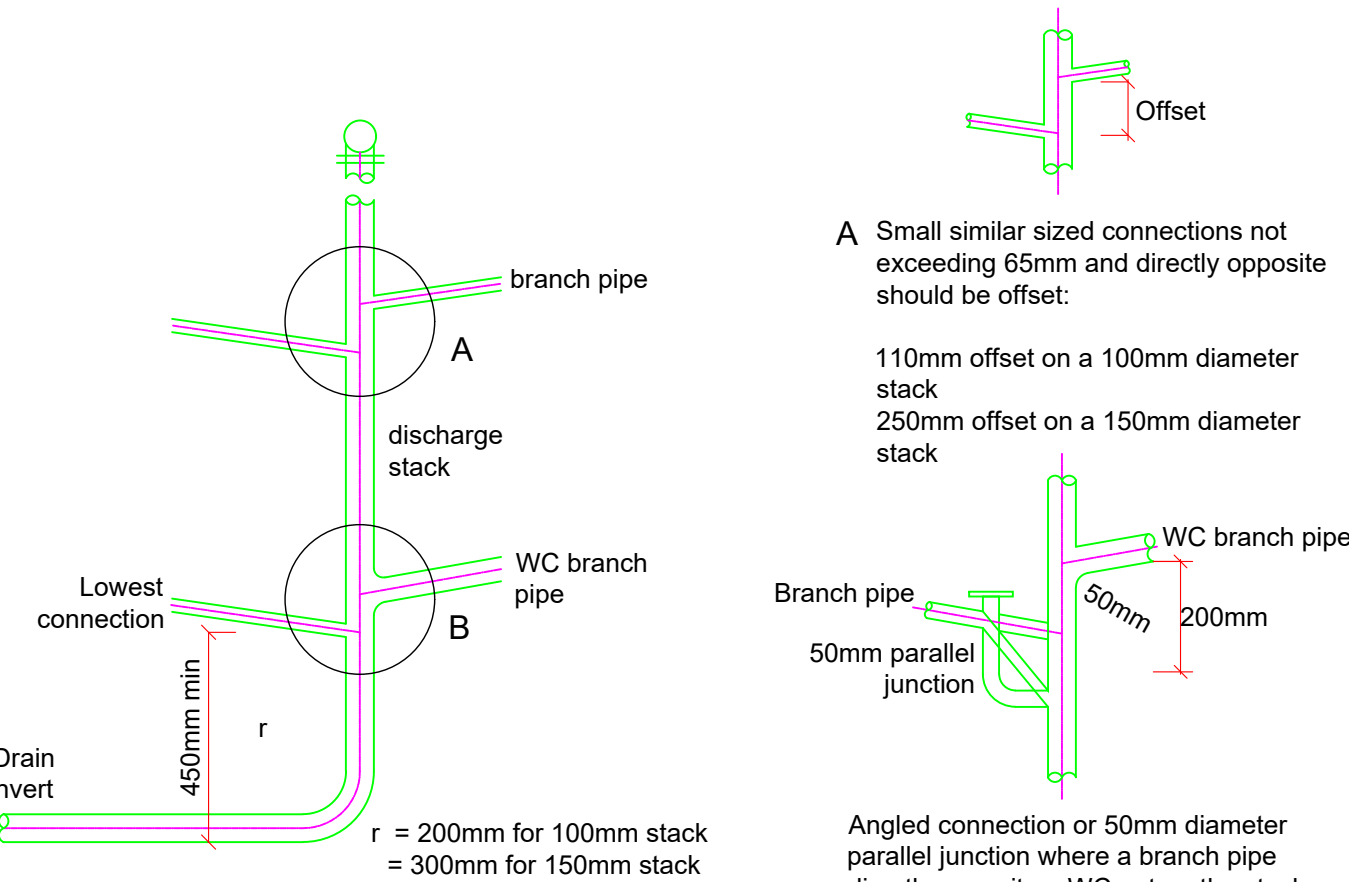
Note 1: No branch connections in shaded area unless vented.
Note 2: Offsets above highest branch connections do not require venting



Branch Ventilation Pipes

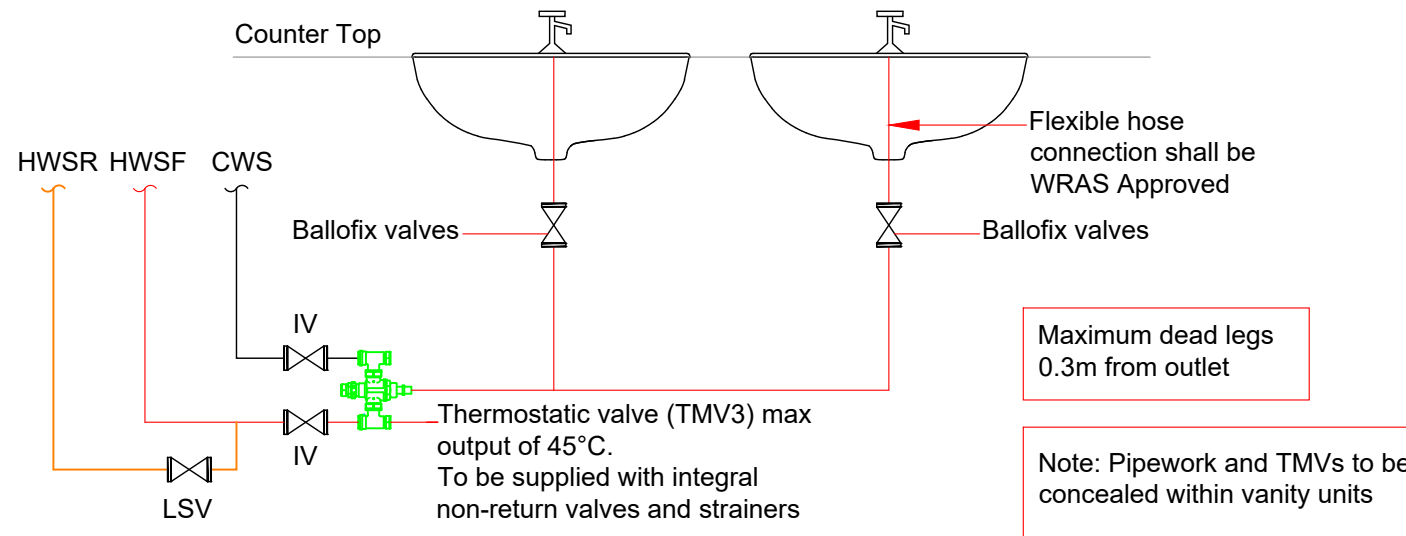
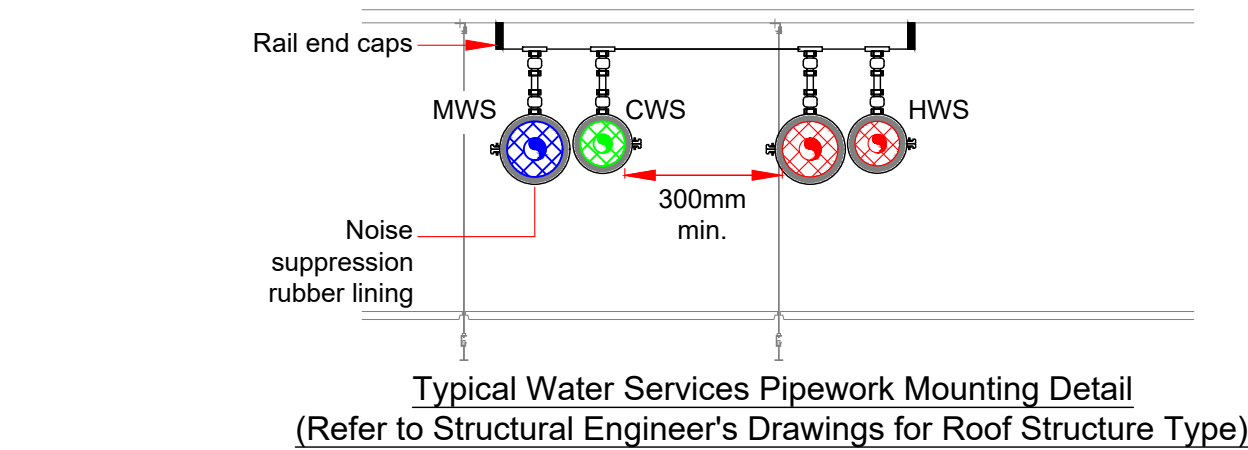


Unvented Branch Connections to Stacks



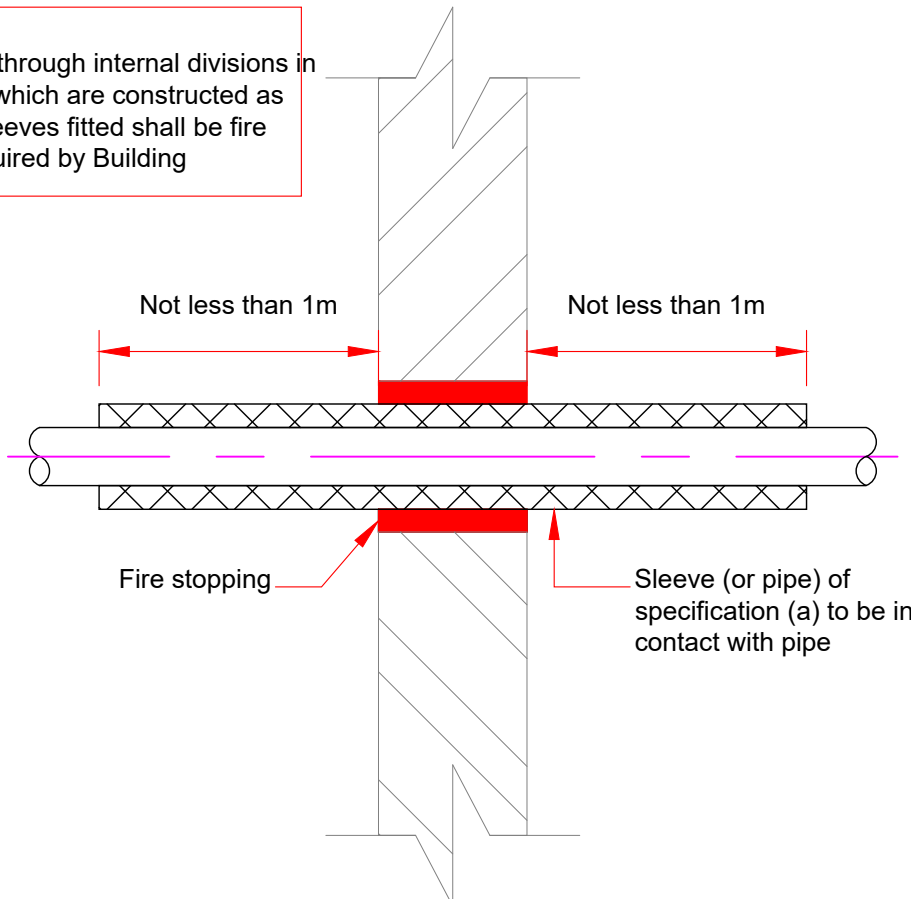
Branch Connections to Stacks

Water Services Typical Details

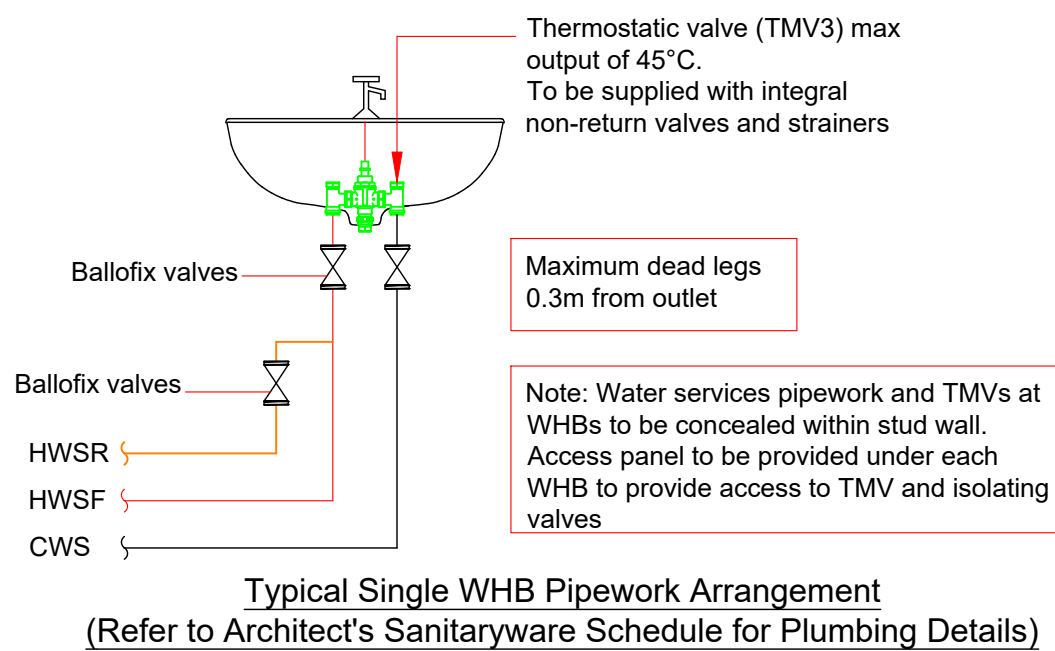


Typical Double WHB Pipework Arrangement
(Refer to Architect's Sanitaryware Schedule for Plumbing Details)

Note:
Where pipes pass through internal divisions in the building fabric which are constructed as fire barriers, the sleeves fitted shall be fire sleeves where required by Building Regulations



Pipes Penetrating a Compartment Wall or Floor (Sleeving)



Typical Single WHB Pipework Arrangement
(Refer to Architect's Sanitaryware Schedule for Plumbing Details)

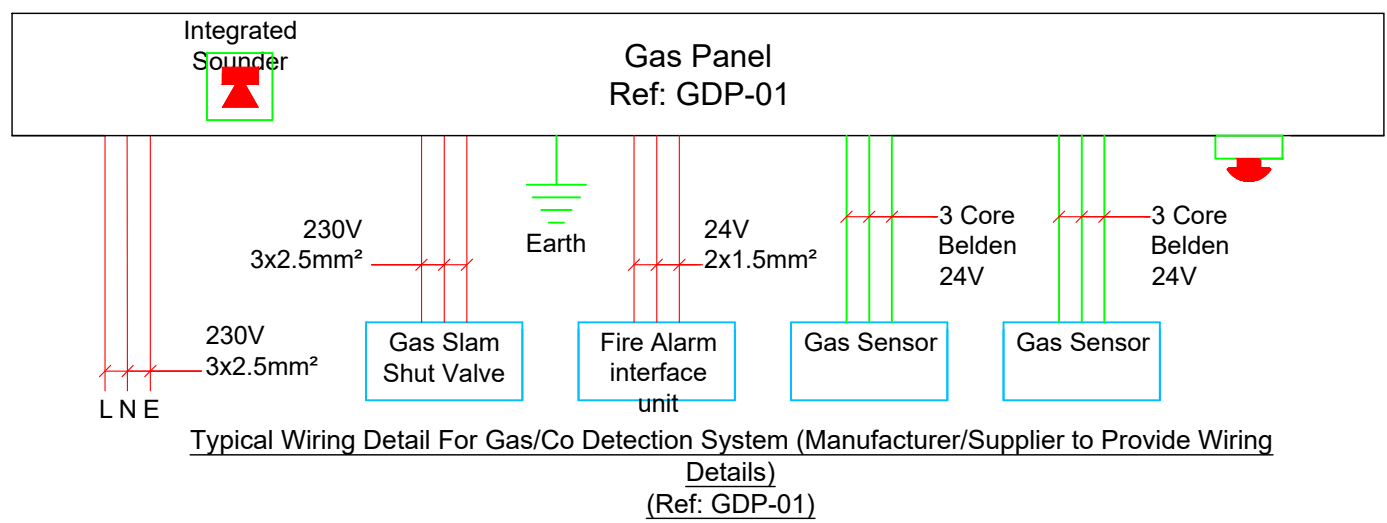
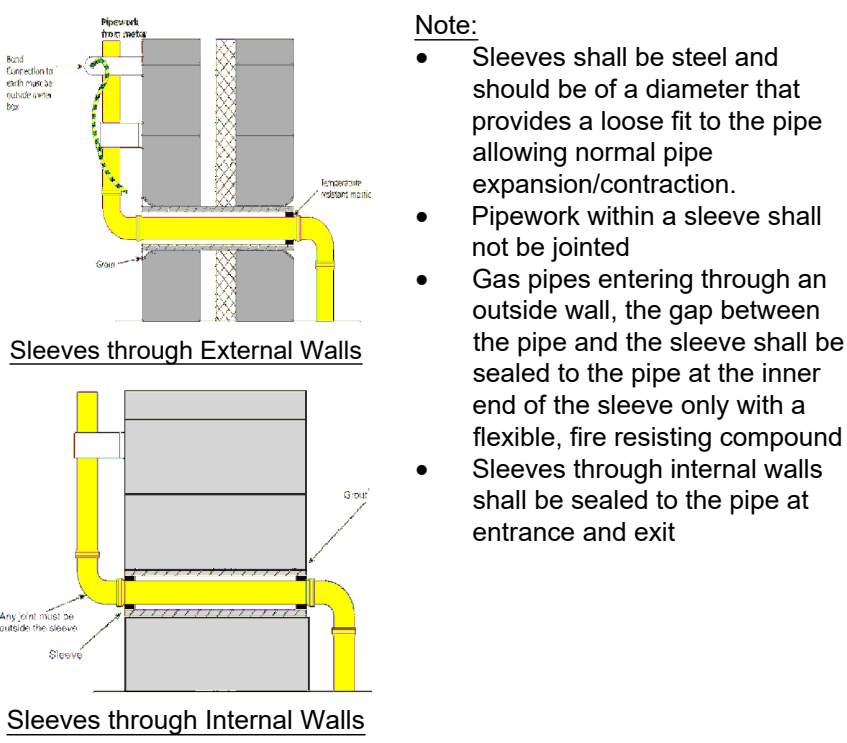
Gas Services Typical Details

Note:
Prior to running pipework below suspended floors, a visual inspection should be carried out to note the position of any electrical cables, junction boxes and ancillary equipment, in order to safely route the gas pipes.

Where pipes are not separated by electrical insulating material, they shall be spaced as follows:

- At least 150 mm away from electricity meters and associated excess current controls, electrical switches or sockets, distribution boards or consumer units;
- At least 25mm away from electricity supply and distribution cables.

Note:
All gas pipework must be colour coded bright yellow (yellow ochre, 08 C 35, BS 4800) and marked along its entire length with the word "GAS"



Typical Wiring Detail For Gas/Co Detection System (Manufacturer/Supplier to Provide Wiring Details)
(Ref. GDP-01)

- Notes:
- These drawings are indicative only and are only provided to give a general overview of plant locations.
 - Contractor to liaise with mechanical contractor for obtaining full points schedule indicating all plant and associated contracts and detailing plant electrical loads and wiring requirements.
 - Final positions of all plans and controls to be agreed between mechanical and electrical contractors before commencing 1st fix works.
 - The Contractor shall refer to the Architectural and Structural Engineer's drawings, issued with the Main Contractors tender pack, to determine:
 - Form of construction of floor, walls and roof;
 - Ceiling void depths;
 - Floor to ceiling heights;
 - Floor, wall and ceiling finishes.

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P01	17/09/26	TENDER ISSUE	ML	ML
REV	DATE	DESCRIPTION	DRAWN	CHECKED

DO NOT SCALE

This drawing is representative only.
To be read in conjunction with Architects drawings.

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PROJECT:

**CAVAN INSTITUTE
CATHEDRAL ROAD
DRUMALEE, CO. CAVAN**

TITLE:

**MECHANICAL TYPICAL DETAILS
SHEET 1 OF 2**

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TENDER