

technical guidance for developers

industrial and commercial developments



total **utility**
connections

In the case of a gas emergency call 0800 111 999

contents

This guide is here to help you prepare for the installation of the gas network on your development and how to do so in a correct and safe manner.

Please remember we are a heavily regulated industry, and the instructions in this document need to be followed in order for the installation of your network to go smoothly and safely.

Please follow the approved gas design we provide for you. This will be specific to your development and all design changes require approval including changes to pipe routes and meter box locations.

If you have any queries at all please contact our team on 029 2132 0350 or construction@tucltd.co.uk

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If you smell gas at any time you must report immediately to the national emergency number: 0800 111 999

general advice

Commencing Work

When you are ready for us to start our installation you can request this Service Delivery team:

calloffs@tucltd.co.uk

or

029 2132 0350

Lead Times

Our lead times will be subject to approvals from both the network owner and local highways (unless all works are within the site boundary) before we can start. We will advise of specific mobilisation timescales on acceptance and at your pre-start meeting.

Metering

If we have included the meter installation(s) in your proposal you will need to have a supply contract in place with your supplier before a meter can be installed.

Meter installations will be arranged for the week following the completion of the service installation, unless we advise you otherwise.

Gas Design

We will provide you with an approved gas design which will contain full details of the installation to your property/development. Please ensure that any civils work that is your responsibility is carried out in accordance with the route shown on the design, as any amendments may require a re-design which could incur additional charges.

We will discuss any issues with pipe routes and/or termination points at your pre-start meeting.

Handling of Pipe

Mains pipe will generally be delivered directly to site in coils or straight lengths. Individual smaller coils are generally capable of being handled manually, however larger coils will require mechanical handling using soft straps.

The handling of straight pipe lengths requires some expertise, especially once any pipe packs have been unbound. We will move individual pipe lengths from the storage point to the construction location. Pipe ends must be left sealed to prevent the ingress of any materials or liquids.

Meter kiosks will be delivered directly to site, please ensure that these are handled and stored carefully as they cannot be installed should there be any damage to them.

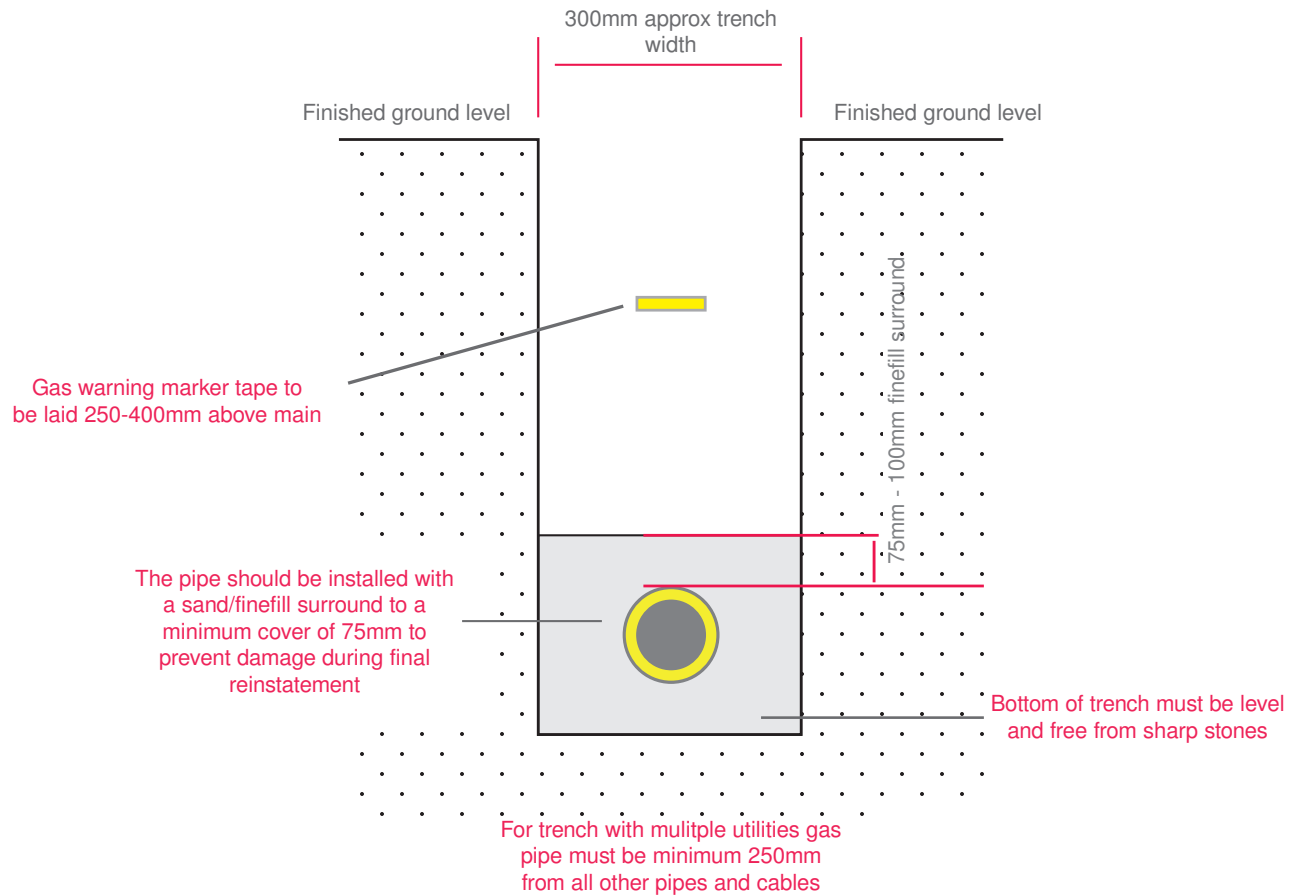
excavation for gas pipes

Responsibility for excavation can be found in your gas proposal and will be confirmed at your pre-start meeting.

Gas mains and service pipes are laid to the following minimum depths (to the top of the pipe), using the diagram opposite as a guide:

Total Utility Connections must lay all pipes, if any are laid by others then they will have to be removed and replaced.

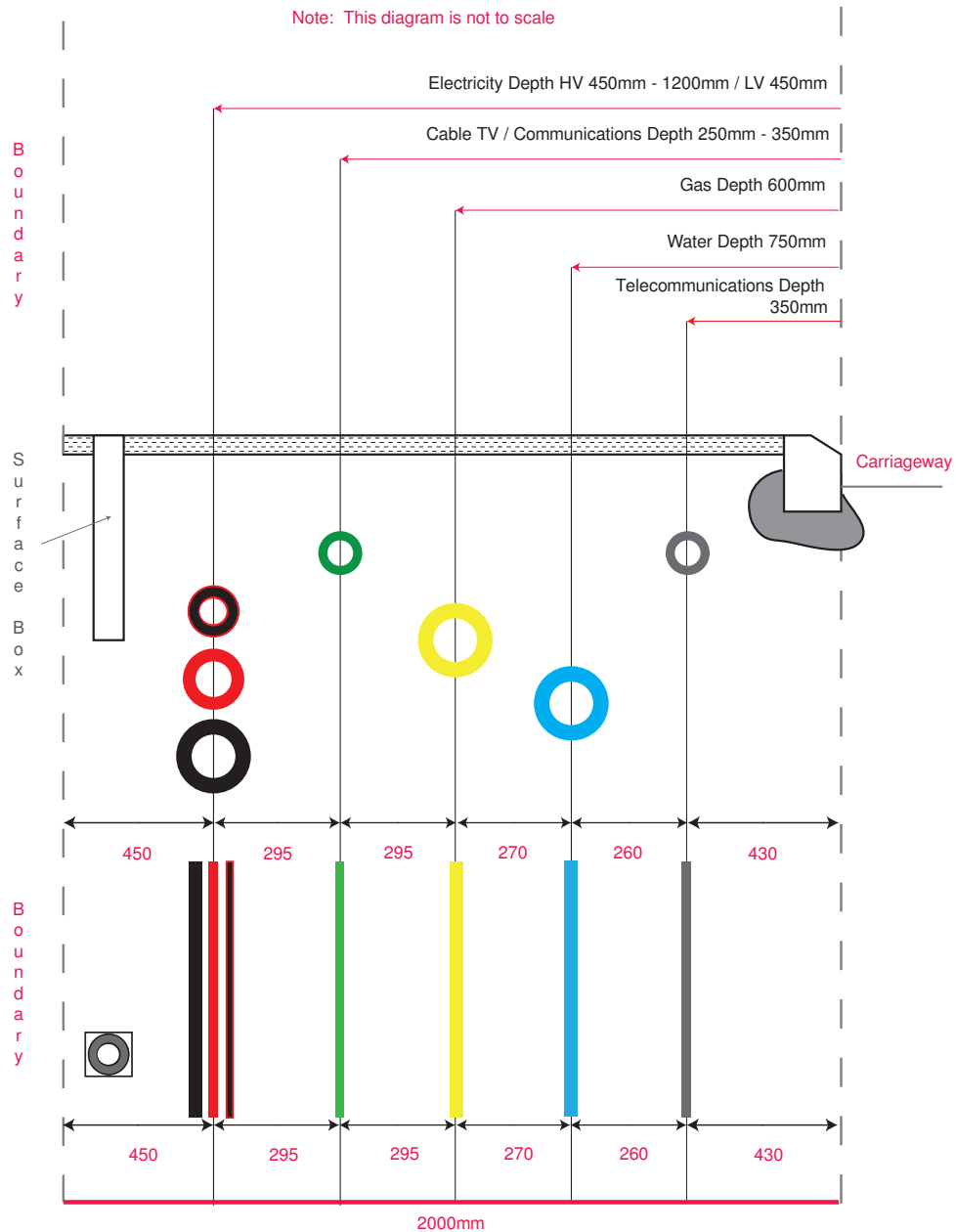
Recommended depth of cover for mains pipes (depths shown are to finished ground level)	
Road and vehicular/ pedestrian areas	750mm
Footpath	600mm
Verges	750mm
Open fields and agricultural land	1100mm



Please note sand bed is required prior to pipe being laid

Once pipe laid sand surround must be in place prior to pressure testing and commissioning

utility pipe and cable positions

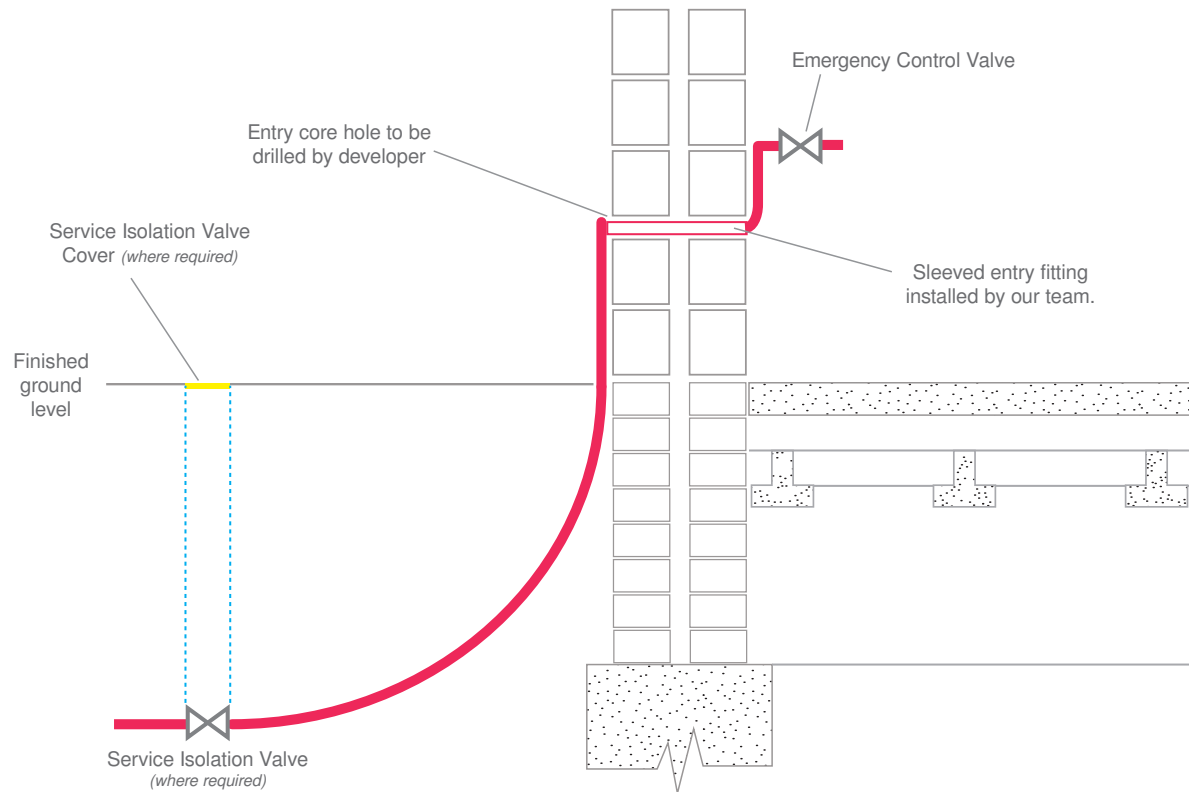


The diagram opposite illustrates the recommended positioning for new utility apparatus in a 2m footway.

If you think there may be a problem with the positioning of our network on your development then please contact us and we will be happy to advise and help resolve any issues.

internal meter positions

If there is a requirement for a meter to be positioned internally, the gas will enter the building using a type of specialist pre-formed entry. The commonly accepted method for entering a building is above ground. You will be responsible for providing the core hole, the location and the size of which will depend on the size of the incoming pipe, which will be detailed on the approved gas design.



Typical Above Ground Entry

Other methods of building entry can be used in certain circumstances e.g. for basement meter positions, information on this will be bespoke to the development, as will the method of ventilation. We will provide full details on the approved design and at the pre-start meeting.

internal meter positions

For internal meter locations there are certain criteria to be met to ensure that the installation adheres to regulations, we will discuss these with you at your pre-start meeting and will include:

Ventilation

An internal meter is required to be positioned in such a location that in the instance of a leak from the service valve or meter, any escaping gas can ventilate direct to outside air.

The size of the ventilation required will be in relation to the size of the floor area of the room/housing:

Ventilation through 2 walls = 2% of floor area

Ventilation through 1 wall = 3% of floor area

Ventilation is required at high and low level and cannot be via mechanical means.

Meter Rooms

There are several regulatory requirements that need to be adhered to with regard to internal meter positions which include, but are not limited to:

An internal room housing a meter will need to be sealed to prevent passage of gas into any other rooms or parts of the building.

The door to the room cannot open onto a sole means of escape.

The incoming service must terminate as soon as is reasonably practicable within the room.

Standard hazardous zones in relation to other equipment should be checked to ensure necessary separation of plant.

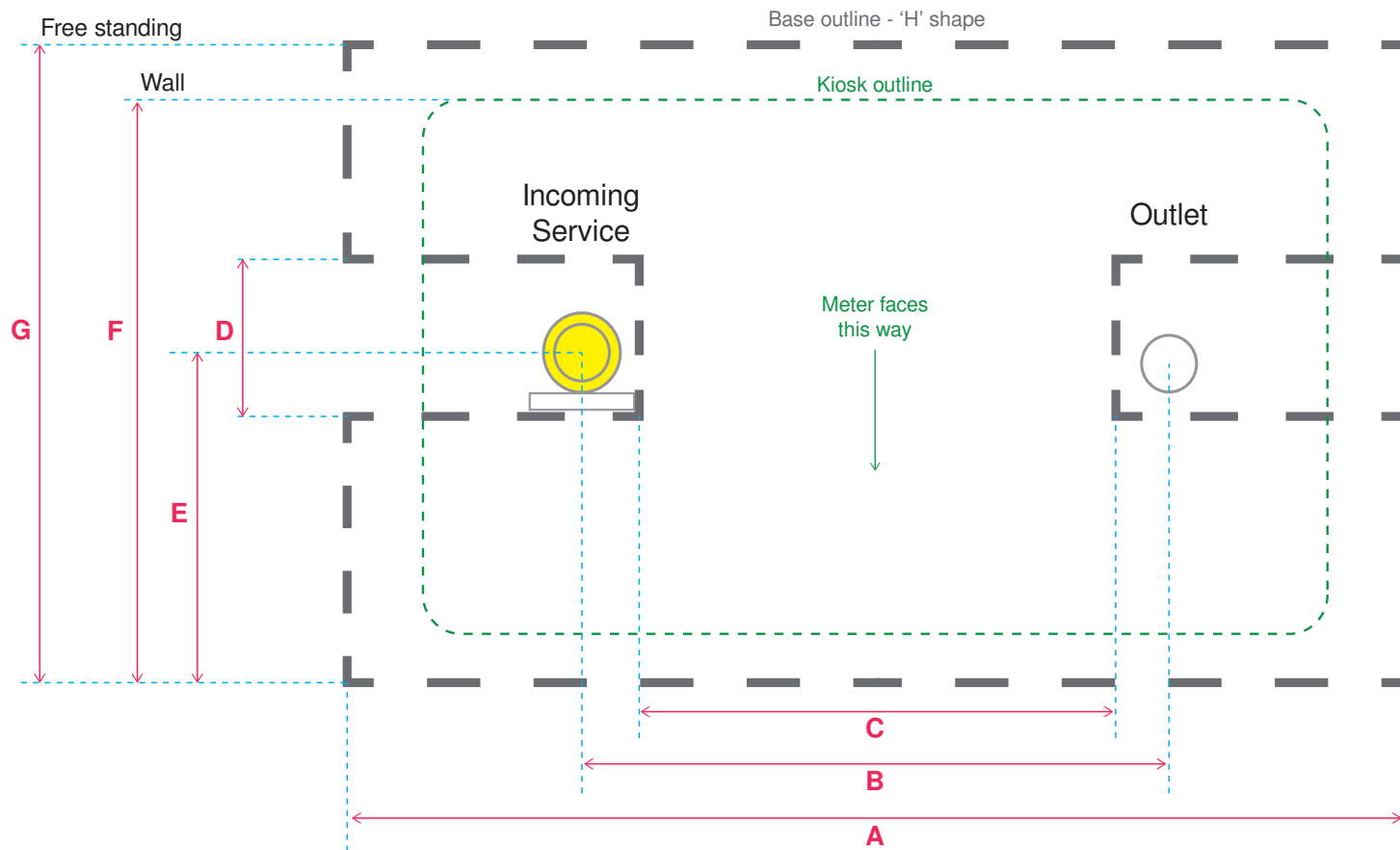
We will provide full details on the approved gas design or via specialist documents that may relate to your installation.

Please note that meter rooms will need to satisfy all requirements prior to live gas being brought into the room.

external meter position in kiosk

An external meter will be housed in an appropriate kiosk relevant to the size of the meter required, details of which will be on the gas design. Responsibility for the supply of the kiosk and concrete base will be contained within your accepted Gas Proposal.

The table on the next page indicates the concrete base dimensions against the letters shown on the diagram below. The kiosk size being installed at your development will be detailed in your proposal and on the approved design.



external meter position in kiosk

Base dimensions - use in conjunction with diagram on previous page

Dimension (mm) / Kiosk Size	A	B	C	D	E	F	G
GC2	900	520	450	150	325	525	600
GC4	1200	760	630	150	375	675	750
GC4+	1400	800	700	200	475	875	950
GC5	1675	1125	900	200	570	875	950
GC6	1800	1200	1000	200	620	975	1050
GC7+	1800	installation specific	1000	200	installation specific	975	1050
GC8	2700	installation specific	1740	300	installation specific	installation specific	1520

Some smaller commercial installations may use domestic sized meters and meter boxes, details of which can be found in our Domestic Technical Guidance document which we will provide for you.

Larger meter installations may be installed in larger bespoke housings for which we will provide you with full specifications. All meter housings are typically constructed of Glass Reinforced Plastic, should you wish to construct your own out of brick or similar material we can advise you on the requirements for this at the pre-start meeting or upon request.

If you need any assistance or further information on the content of this document, please contact your Project Manager or our team on 029 2132 0350

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