



UK POWER SOLUTIONS

The Utility Connection Company

DEVELOPERS GUIDE (GAS)

CONFIDENTIAL - Revision 1.0

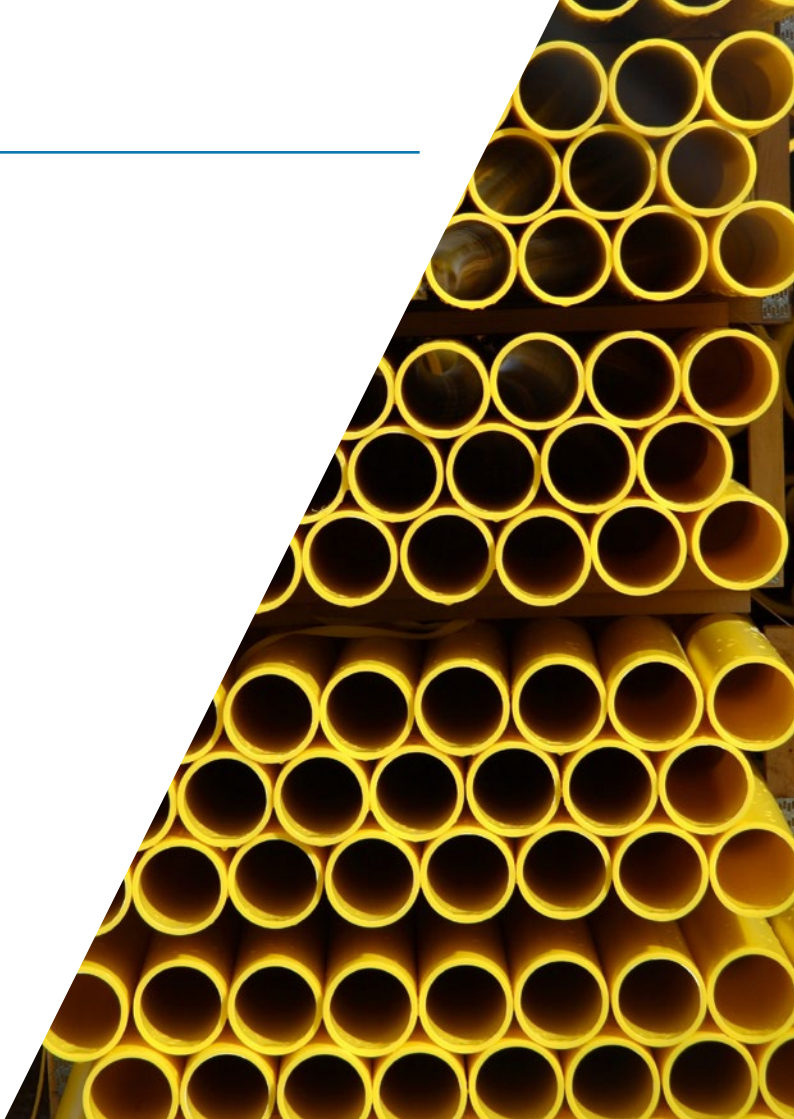
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Introduction & Process

UK Power Solutions aim to provide the highest standard of customer service throughout the entire connection process providing the customer with a single point of contact at every stage of the project.

We will be installing the gas distribution infrastructure to ensure the new supplies you have requested are installed/commissioned to the required metering points. Once this infrastructure has been commissioned it will then become fully owned and maintained by the adopting Network Operator.

An approved design will be provided for you which will have been validated by the adopting Network Operator. It is essential that the elements of the installation that you are responsible for are

installed to the exact specification required on the design, failure to adhere to this could result in the commissioning of the new infrastructure being delayed and/or incurring additional costs, something we are very keen to avoid.

Finally, if there is any part of this project that you are unsure, unhappy or really pleased about, please don't hesitate to contact us. In addition, we will also provide you with details of our Area Construction Manager should you wish to escalate any queries.



Smell Gas? To report a gas or carbon monoxide emergency, or if a pipeline is struck (even if no gas leak has occurred) call the **National Gas Emergency Service 24 hours a day on 0800 111 999.**

Responsibilities

The below table clearly defines who is responsible for the various tasks required for the installation of the gas services on your site, these may vary slightly if specifically requested at quotation stage. Please check your proposal to confirm or call your Project Manager to discuss.

Tasks	Customer	UKPS
Request call off of service connections from UKPS	✓	
Provision of Meter Point Reference Numbers (MPRN's)		✓
Excavation and reinstatement of onsite pipe trenches	✓	
Supply and installation of onsite ducting and draw cord	✓	
Supply of meterboxes, preformed bends & gas warning marker tape		✓
Installation of meterboxes, preformed bends & gas warning marker tape	✓	
Excavation of onsite joint bays	✓	
Supply and installation of gas pipe		✓

Materials

Mains Pipe - We will arrange for the mains pipe to be delivered ready for our teams to install. Please take care of delivered pipe as if any pipes have cuts or scratches to a depth greater than 10% of their wall thickness then they must be discarded.

Requesting Works

Once the main supply has been installed onto your site you will be able to call off any remaining mains pipe installation and service connections in line with your requirements.

Lead times for calling off work are:

- Mains pipe installation - 20 working days
- Service connections - 15 working days
- Work in public highway - 40 working days

Gas mains pipe installation should be requested through your Dedicated Project Manager.

Responsibilities (cont.)

Gas Service connections should be requested via the UKPS plot Call Off team by simply filling out the Service “Connection Request Form” (Page 14) and either faxing it to **0845 2577 106** or emailing the form to plotcalloff@ukpowersolutions.co.uk.

Please be aware that the below requirements need to have been met prior to our site attendance to ensure the works can be completed without aborted visits.

- Premises are watertight and lockable
- Meter boxes/positions are installed and complete
- Final Ground Lines and Levels are determinable
- Excavations are suitable and safe
- Scaffolding has been removed from our work area
- Ducting has been installed to the correct specification and position

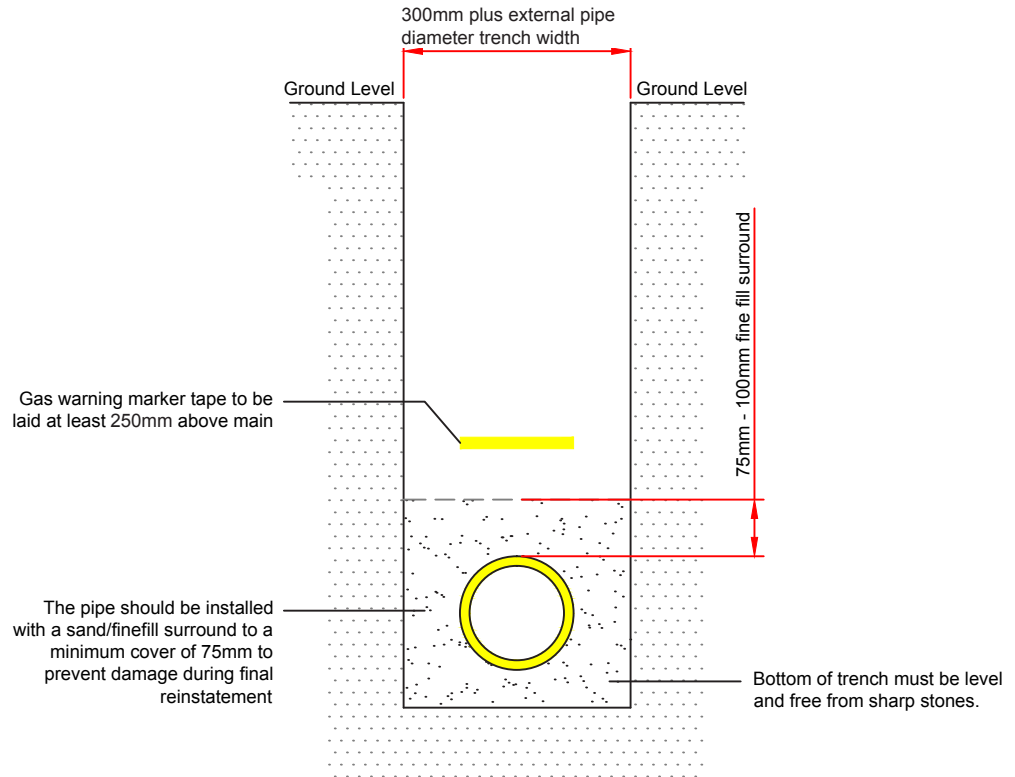
A photograph of a construction site fence. The fence is made of metal mesh. A yellow sign with black text reads 'Construction site'. Below it, a blue sign with white text reads 'Keep out'. The background shows a blurred construction site with a red and white striped barrier and some equipment.

Construction site
Keep out

Excavation for mains pipes

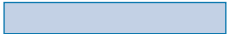





UK Power Solutions is responsible for laying all mains in trenches (unless otherwise stated) to the following minimum depths, using the diagram opposite as a guide:

Minimum depth of cover for mains pipes	
Road and vehicular/ pedestrian access	750mm
Footpath	600mm
Verges	750mm
Open fields and agricultural land	1100mm

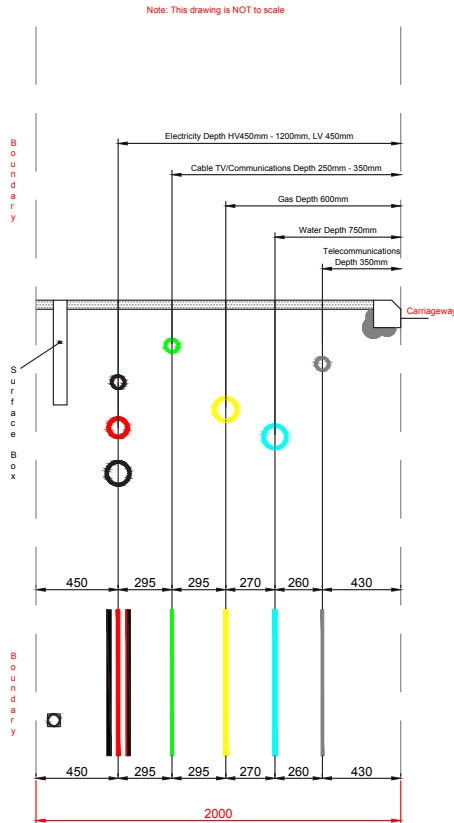


For trench with multiple utilities gas pipe must be minimum 250mm from all other pipes and cables

Minimum excavation requirements

Minimum excavation requirements to support connections. Excavation base to be 150mm below pipe				
Connection type	Applicable mains diameters	Excavation size	Additional bell hole in middle in direction of offtake	Excavation shape
End on connection (Note: the excavation dimension is for the live main to be exposed)	≤180mm mains diameter	2.1m x 0.7m	n/a	
	250/315mm diameter	3.3m x 0.9m	n/a	
Insert Tee	≤180mm mains diameter	7.3m x 0.7m	1m x 0.7m	
	250/315mm diameter	10.6m x 0.9m	1m x 0.9m	
Branched offtake	≤180mm mains diameter	1.5m x 0.7m	1m x 0.7m	
	250/315mm diameter	1.5m x 0.9m	1m x 0.9m	

Utility pipe and cable positions



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

Depth of cover required in a Carriageway or Verge is 750mm with proximities to other utilities remaining as per the diagram.

The gas network design will be discussed at the pre-start meeting. If you have any subsequent problems or queries, please contact your Project Manager who will be happy to advise and help resolve any issues.

Please also note that a minimum 250mm clearance must be achieved from the gas main to all other utilities.



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Service positions and routes

All services must be laid individually and perpendicular to the building taking the shortest route practicable to the main, unless otherwise indicated.

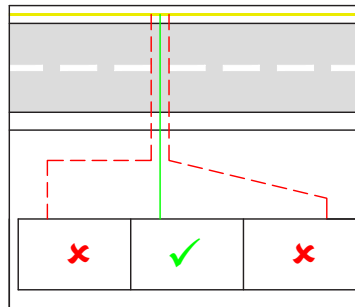
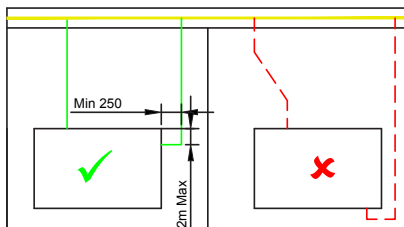
Positions

The position of the meter must be on the wall of the property facing the parent main, or, where it is required, on the side of the property no more than 2m down the gable. Meters cannot be installed to the rear of the property.

If you feel you cannot achieve the requirements, please contact your Project Manager.

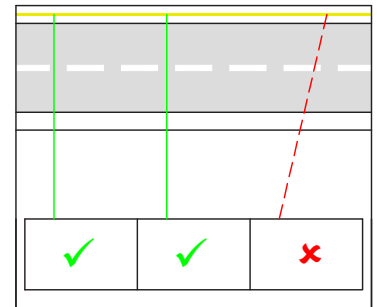
Routes

The service pipe must not be installed in any land other than that of the property it is supplying or public/shared driveway. Where a service is required to cross the road to a main on the opposite footpath, it must be laid in an individual road crossing (it is acceptable to install ducts for these road crossings as required). We will try to minimise this as much as possible during the design stage.

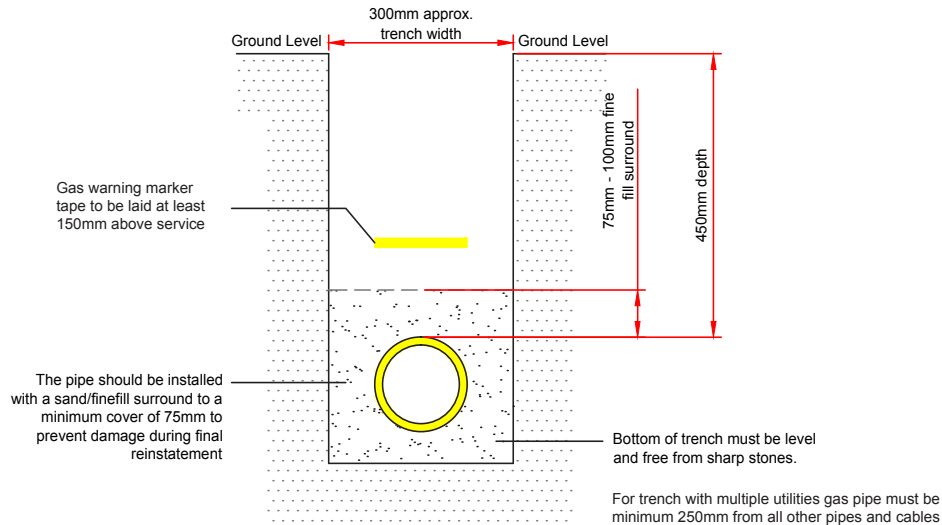


Examples of service routes where road crossings required.

Note: Drawings are NOT to Scale



Service pipe trenches



Your responsibilities:

Ensure a minimum of 75mm of fine fill material around the service pipe.

Place marker tape above fine fill

Provide and install yellow perforated ducts (to BS4962) for road crossings

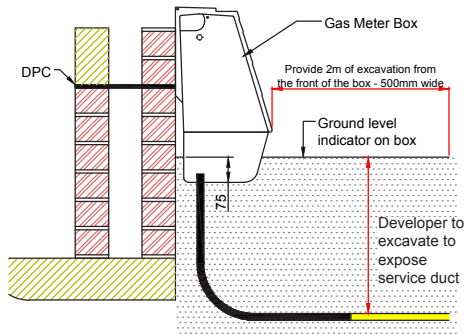
Excavate at meter positions and to soft fill over gas main

Install meter boxes and doors/lids

Minimum depth of cover for service pipes:

Private Ground = 375mm
Footpath/Highways = 450mm

Meter box installation



Unibox

Fitted at ground level submerged into the ground by 75mm or fixed onto the wall ensuring the ground level is as per indicator on the box.

Must be a minimum 150mm away from any air bricks.

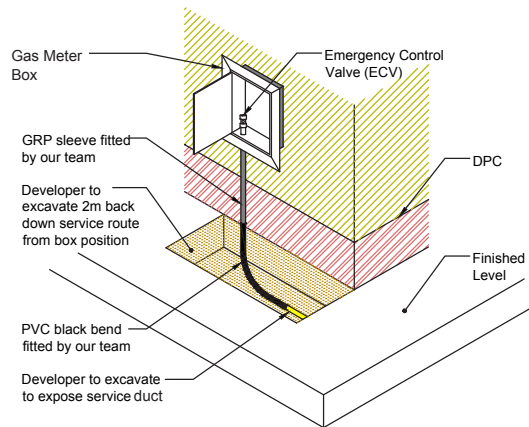
Ensure box is supported following installation.

Fit meter box lid.

Route outlet pipe through right hand side of box.

Make continuity bond to outlet.

Provide 2m of excavation from the front of the box, 500mm wide,



Flush Fit or Bolt On

Fix meter box to wall

Fit meter box door

Securely fit spigot outlet to prevent passage of gas into property

The meter installer will seal the route of the outlet pipework and label the meter accordingly

General Advice

Sealing of outlets

The meter installer will fit the meter and label accordingly. It is your responsibility to ensure that the meter box outlet spigot or any through-wall sleeve carrying the meter outlet pipework is correctly sealed to prevent the passage of gas into the property.

Failure to do this is a breach of the Gas Safety (Installation and Use) Regulations.

Handling of Pipe

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

The handling of straight pipe lengths requires some expertise, especially once any pipe packs have been unbound.

UK Power Solutions will move individual mains pipe lengths from the storage point to the construction location.

Electrical Cross Bonding

An electrical cross bonding wire (where required) should be connected to the gas meter outlet in accordance with IEE Regulations. When the bonding wire enters a built-in box from the rear it must pass through the outlet installation pipe spigot and be contained within the seal.

The box must not be broken to accommodate the bonding wire.



Please remember that you are not permitted to lay any gas pipe. This must be done by one of our qualified installers.

General Advice (cont.)

Ducts

Yellow perforated rigid plastic ducting (complying with BS4962) can be used for perpendicular road crossings only and will be discussed at your pre-start meeting.

It is your responsibility to supply ducts and install to the correct specification (ensuring minimum depth is achieved) otherwise we may not be able to lay pipe through incorrectly laid ducts.

Gas marker tape must be laid at least 250mm above mains ducts & 150mm above service ducts.

Gas Pipe External Diameter	Duct Internal Diameter
32mm	60mm
63/90mm	150mm
125/180mm	225mm
250mm	350mm

If you need any further help or information, please contact your Project Manager or our team on **0845 257 7105**



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Plot Connection Request

E-Mail: plotcalloff@ukpowersolutions.co.uk

Tel: 0845 2577 105

Fax: 0845 2577 106

	For UKPS Use Only
	PCO/

Date of Request:	UKPS Project No:	
Site Name:	Site Contact:	
Site Address:	Email:	Fax No:
Tel No:		

PLEASE NOTE: A minimum of **15 working days notice** for service connections is required and a minimum of 5 plots to be connected per visit. In the event of a cancellation/postponement a minimum of **5 days notice** is required.

A separate connection request form is required for each proposed date and a new connection request form is required for any amendments to booking. Site will be required to sign off any aborted works in the box below.

The requested connections works will not take place until the below requirements of the adopting network owner have been met prior to our site attendance:

- Premises are watertight and lockable
- Meter boxes/hockey sticks/preformed bends are fixed
- All excavations are suitable and safe
- Expose a minimum of 1.2m of main for service joining
- Final ground lines and levels are appropriate
- Ducting/containment has been installed to the correct specification and position

Proposed Date:				For UKPS Use Only		
				Confirmed Date:		
Plot Number	Electric (tick)		Gas (tick)		Site Agent to Print and Sign for Aborted works	
	Outside Meter Box	Internal Light	Meter Box	Internal Ground		
				Comments		

Contacts

Project Manager:

Mobile:

Office:

Email:

Connections Co-ordinator:

Mobile:

Office:

Email:

Regional Construction Manager:

Mobile:

Office:

Email:



UK POWER SOLUTIONS

The Utility Connection Company

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