

## Shaik Shafi

---

**From:** esp@safedigs.co.uk  
**Sent:** 16 June 2021 16:19  
**To:** Shaik Shafi  
**Subject:** ESP Utilities Group Plant Affected Notice LSBUD Ref. 22423513 Email 1 of 2  
**Attachments:** 9101751-Proposal01-NGG-rev01.PNG; 9101751-Aslaid01-NGG-rev01.PNG

16/06/2021

LinesearchbeforeUdig Ref: 22423513  
Your Ref: RFB/SAS/6678/03

Dear Sir/Madam,

Further to your enquiry received on 16/06/2021 03:15:36 PM please find attached the ESP Utilities Group (ESP) response to your enquiry.

If your proposed work site was found to be in the vicinity of ESP plant, project drawing as laid extracts for these sites are enclosed (not to scale) for your information which show the approximate location of the ESP gas/electric network close to the area of interest.

As your plans for the proposed work develop you are required to keep ESP regularly updated about the extent and nature of your proposed works in order for us to fully establish whether any additional precautionary or diversionary works are necessary to protect our gas network.

Arrangements can be set in place so that one of our representatives can meet on site (date to be agreed) and we will be happy to discuss the impact of your proposals on the gas network once we have received the details.

ESP are continually constructing new gas and electricity networks and this notification is valid for 90 days from the date of this letter. If your proposed works start after this period of time, please re-submit your linesearchbeforeUdig enquiry.

The attached files are in PDF format, to view them you will need Adobe Acrobat Reader(R). You can download it free of charge from <http://get.adobe.com/reader>

Yours sincerely,

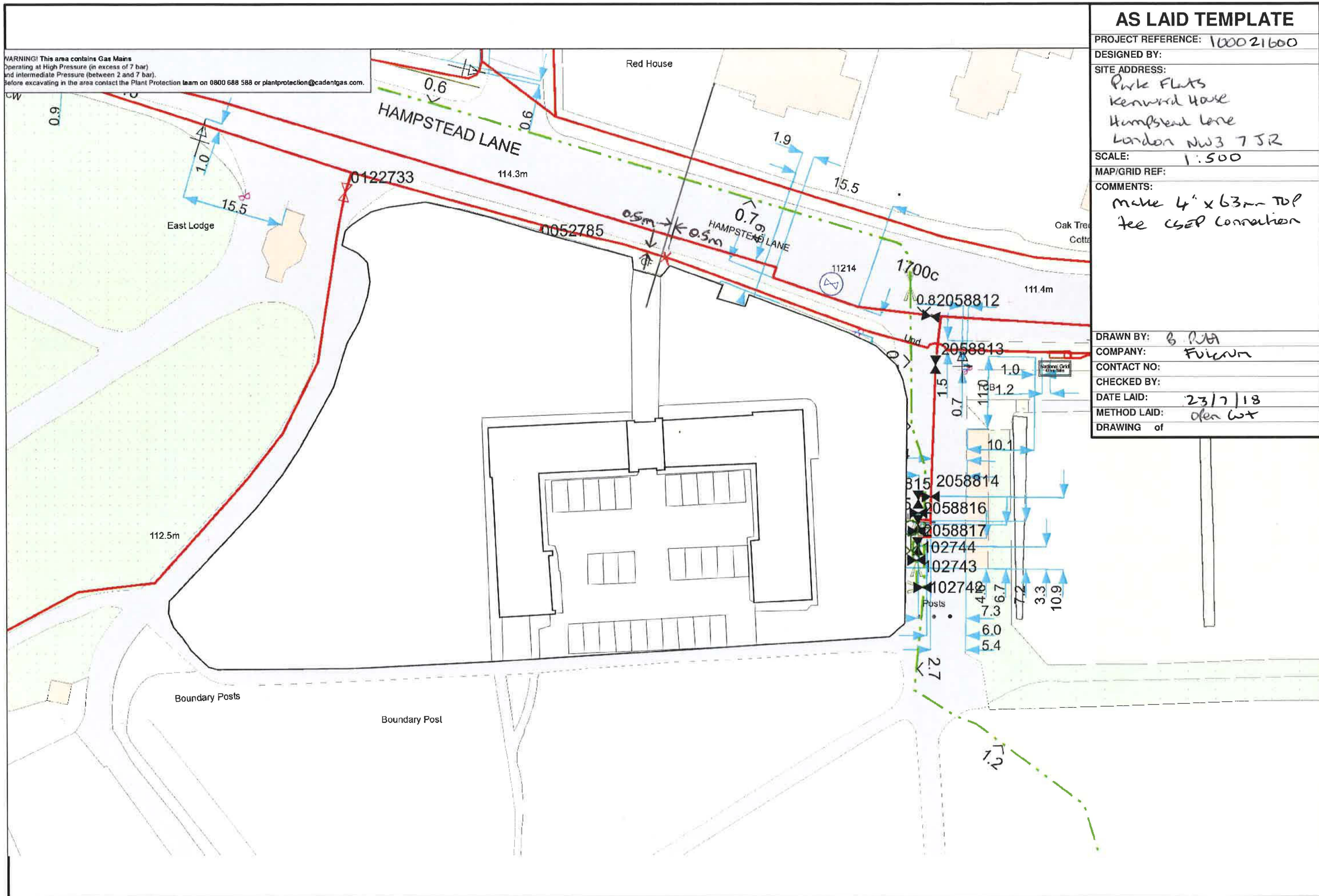
ESP Utilities Group Ltd

ESP Utilities Group Ltd can be contacted at:

Office Address: Bluebird House, Mole Business Park, Leatherhead, Surrey, KT22 7BA

Office Tel: 01372 587500; email: [PlantResponses@espug.com](mailto:PlantResponses@espug.com)

This DBYD response for Sequence Number 352351130 is comprised of a total of 2 emails to be delivered. This email is part 1 of 2.



5078193 / 9101751  
Kenwood House  
Hampstead Lane  
London  
NW3 7JR

Connect to existing 4" CI LP  
main (220000659649)  
E527248, N187572

|                             |
|-----------------------------|
| DesignedBy- Ross Wigfield   |
| CheckedBy- Louise Rushworth |



TABLE 4. DEPTH GUIDELINES FOR PIPE INSTALLATIONS

All trenches to be avoided in accordance with IG/TD/3 [Material] and IG/TD/4 [Service]

| Location Of Service             | Minimum Depth Of Cover |
|---------------------------------|------------------------|
| Curbsideways                    | 750mm                  |
| Paved footways                  | 600mm                  |
| Verge                           | 750mm                  |
| Open fields & Agricultural land | 1100mm                 |
| Other Private Ground            | 600mm                  |

All ducting [Paved] must conform to BS4963, be Yellow in color, convulsed and be wrapped

MINIMUM PROXIMITY DISTANCES FOR PIPE INSTALLATIONS

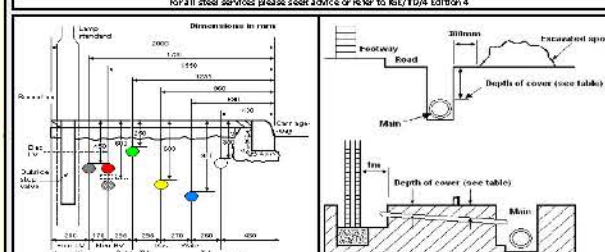
The permit table provides listed to normally occupied buildings vary depending on the size, material and operating pressures shown in the table below.

All permit holders are provided in accordance with IG/PTD/3 (Main) and IG/PTD/4 (Service)

| PE Matio - KGE/D/3 Edition 5 |                              |                                             |                   |                   |                   |
|------------------------------|------------------------------|---------------------------------------------|-------------------|-------------------|-------------------|
| Type<br>or<br>Matio          | Diameter<br>or<br>Matio (mm) | Minimum Bulding Proximity Distance (Metres) |                   |                   |                   |
|                              |                              | <=75mm                                      | >75 mm<br><=2 bar | >2 bar<br><=5 bar | >5 bar<br><=1 bar |
| PE                           | up to 125mm                  | 0.25                                        | 2                 | 4                 | 6                 |
|                              | 125mm to 355mm               | 1                                           | 2                 | 4                 | 6                 |
|                              | 355mm to 500mm               | 1                                           | 2                 | 4                 | 8                 |
|                              | 500mm to 1000mm              | 1                                           | 5                 | 15                | 15                |

| Steel Matrix - KS/10/3 edition 5 |                               |                                             |                    |                  |
|----------------------------------|-------------------------------|---------------------------------------------|--------------------|------------------|
| Type Of Matrix                   | Wall Thickness Of Matrix (mm) | Minimum Bulding Proximity Distance (Metres) |                    |                  |
|                                  |                               | >75mm bar                                   | >75mm bar <= 2 bar | >2 bar <= 16 bar |
| Steel                            | 1<= 9.5                       | 0.25                                        | 1                  | 3                |
|                                  | 9.52 < 11.81                  | 0.25                                        | 1                  | 3                |
|                                  | 11.81 < 14.13                 | 0.25                                        | 1                  | 3                |

| F5services - K127/4 Edition 4 |       |                |                             |
|-------------------------------|-------|----------------|-----------------------------|
| Site (km)                     | <75 m | >75m and <2 km | >2 km                       |
| 15m m to 140m m               | 0.25  | 3              | Refer to GIS / G17 Approval |
| 140m m to 250m m              | 1     | 3              | Refer to GIS / G17 Approval |
| 250m m to 315 m               | 1     | 3              | Refer to GIS / G17 Approval |
| 315 m to 355 m                | 1     | 4              | Refer to GIS / G17 Approval |
| 355 m to 400m m               | 1     | 4              | Refer to GIS / G17 Approval |
| >400 m                        | 1     | 5              | Refer to GIS / G17 Approval |



Maths on this project are designed to the latest edition of ISE LT/DT/3  
 Science on this project are designed to the latest edition of ISE LT/DT/4  
 All other Domestic Science will be installed within a series of lockable boxes  
 Main floor systems on this project are designed to the latest edition of ISE LT/5  
 u6 low pressure meters are redesigned and installed to comply with BS6600 - 1  
 u6 Medium pressure meters are redesigned and installed to comply with BS6600 - 2  
 u36 meters or greater are designed and installed to the latest edition of ISE LT/6/- ISE LT/5/8  
 Ventilation and air ducts are re classification for meter rooms and air ducts are in accordance with

|                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Install new 63mm PE LP mains and 11x new 32mm PE LP services terminating in Uni-boxes with 3/4" ECV's.</p> <p>Fulcrum to install new U6 meters.</p> <p>Fulcrum to excavate in public only.</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

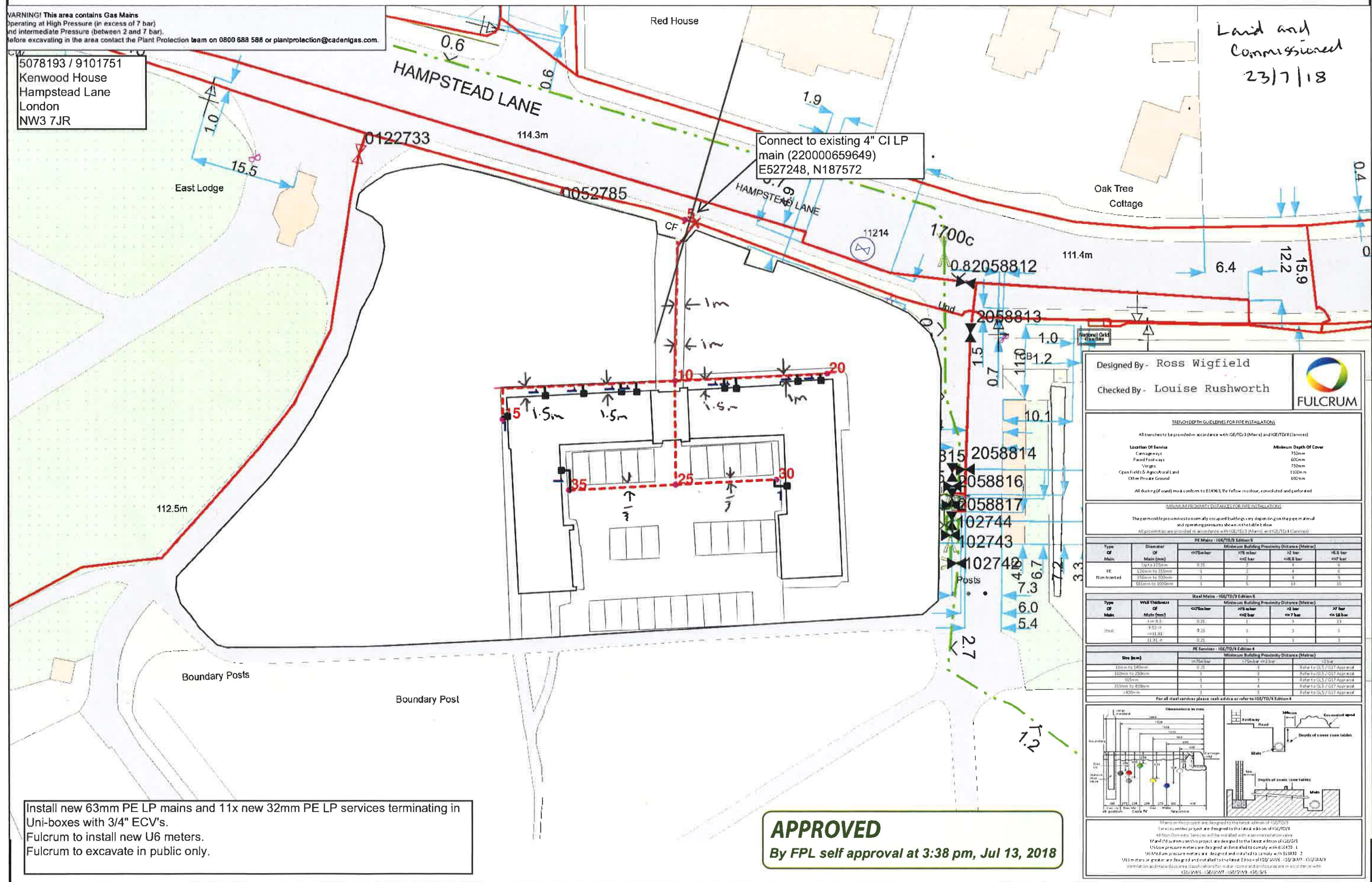
**APPROVED**

By FPL self approval at 3:38 pm, Jul 13, 2018

**WARNING! This area contains Gas Mains**  
Operating at High Pressure (in excess of 7 bar)  
and Intermediate Pressure (between 2 and 7 bar).  
Before excavating in the area contact the Plant Protection team on 0800 688 588 or plantprotection@cadentgas.com.

5078193 / 9101751  
Kenwood House  
Hampstead Lane  
London  
NW3 7JR

Land and  
Commissioned  
23/7/18



Designed By - Ross Wigfield  
Checked By - Louise Rushworth

**FULCRUM**

**TRENCH DEPTH GUIDELINES FOR PIPE INSTALLATIONS**  
All trenches to be provided in accordance with IGE/TD/3 (Mains) and IGE/TD/4 (Services)

| Location Of Service             | Minimum Depth Of Cover |
|---------------------------------|------------------------|
| Carriageways                    | 750mm                  |
| Paved Footways                  | 600mm                  |
| Verges                          | 750mm                  |
| Open Fields & Agricultural Land | 1000mm                 |
| Other Private Ground            | 600mm                  |

All ducting (if used) must conform to BS4963, be yellow in colour, convoluted and perforated

**MINIMUM PROXIMITY GUIDELINES FOR PIPE INSTALLATIONS**  
The permissible proximity to normally occupied buildings varies depending on the pipe material and operating pressures shown in the table below  
All proximities are provided in accordance with IGE/TD/3 (Mains) and IGE/TD/4 (Services)

| Type Of Main | Diameter Of Main (mm) | Minimum Building Proximity Distances (Metres) |         |         |          |
|--------------|-----------------------|-----------------------------------------------|---------|---------|----------|
|              |                       | 0.75 bar                                      | 1.0 bar | 1.6 bar | 16.0 bar |
| PE           | 150mm to 225mm        | 0.75                                          | 1       | 2       | 4        |
|              | 225mm to 315mm        | 1                                             | 2       | 4       | 8        |
|              | 315mm to 400mm        | 1                                             | 2       | 4       | 8        |
|              | 400mm to 600mm        | 1                                             | 2       | 4       | 8        |
| Steel        | 150mm to 225mm        | 0.75                                          | 1       | 2       | 4        |
|              | 225mm to 315mm        | 1                                             | 2       | 4       | 8        |
|              | 315mm to 400mm        | 1                                             | 2       | 4       | 8        |
|              | 400mm to 600mm        | 1                                             | 2       | 4       | 8        |

| Type Of Main | Wall Thickness Of Main (mm) | Minimum Building Proximity Distances (Metres) |         |         |          |
|--------------|-----------------------------|-----------------------------------------------|---------|---------|----------|
|              |                             | 0.75 bar                                      | 1.0 bar | 1.6 bar | 16.0 bar |
| Steel        | 9.5 to 11                   | 0.75                                          | 1       | 2       | 4        |
|              | 11 to 13                    | 0.75                                          | 1       | 2       | 4        |
|              | 13 to 15                    | 0.75                                          | 1       | 2       | 4        |

| Size (mm)      | Minimum Building Proximity Distances (Metres) |         |         |          |
|----------------|-----------------------------------------------|---------|---------|----------|
|                | 0.75 bar                                      | 1.0 bar | 1.6 bar | 16.0 bar |
| 150mm to 225mm | 0.75                                          | 1       | 2       | 4        |
| 225mm to 315mm | 1                                             | 2       | 4       | 8        |
| 315mm to 400mm | 1                                             | 2       | 4       | 8        |
| 400mm to 600mm | 1                                             | 2       | 4       | 8        |

For all steel services please refer to IGE/TD/4 Edition 4

**APPROVED**  
By FPL self approval at 3:38 pm, Jul 13, 2018

Notes on this project are designed to the latest edition of IGE/TD/4  
All Main Services shown on this project are designed to the latest edition of IGE/TD/4  
All Low pressure services are designed to the latest edition of IGE/TD/4  
All Medium pressure services are designed to the latest edition of IGE/TD/4  
All High pressure services are designed to the latest edition of IGE/TD/4  
All services are designed to the latest edition of IGE/TD/4

---

**PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK IN THE VICINITY OF UNDERGROUND GAS PIPES**

**ADVICE TO SITE PERSONNEL**

**MANAGEMENT NOTE**

Please ensure that a copy of this note is read by your site management and to your site operatives.

Early consultation with ESP Utilities Group prior to excavation is recommended to obtain the location of plant and precautions to be taken when working nearby.

This Guidance Note should be read in conjunction with the Health and Safety Executive guidance HSG47 "Avoiding danger from underground services".

---

**Introduction**

Damage to ESP Utilities Group's plant can result in uncontrolled gas escapes which may be dangerous. In addition these occurrences can cause expense, disruption of work and inconvenience to the public.

Various materials are used for gas mains and services. Cast Iron, Ductile Iron, Steel and Plastic pipes are the most widely found. Modern Plastic pipes are either bright yellow or orange in colour.

Cast Iron and Ductile Iron water pipes are very similar in appearance to Cast Iron and Ductile Iron gas pipes and if any Cast Iron or Ductile Iron pipe is uncovered, it should be treated as a gas pipe. ESP Utilities Group do not own any metallic gas pipes but their gas network infrastructures may be connected to Cast Iron, Ductile Iron or Steel pipes owned by Distribution Network Operators.

The following general precautions apply to Intermediate Pressure (2-7barg MOP), Medium Pressure (75mbarg-2barg MOP), Low Pressure (up to 75mbarg MOP) and other gas mains and services likely to be encountered in general site works and are referred to within this document as '**pipes**'.

**Locating Gas Pipes**

It should be assumed when working in urban and residential areas that gas mains and services are likely to be present. On request, ESP Utilities Group will give approximate locations of pipes derived from their records. The records do not normally show the position of service pipes but their probable line can be deducted from the gas meter position. ESP Utilities Group's staff will be pleased to assist in the location of gas plant and provide advice on any precautions that may be required. The records and advice are given in good faith but cannot be guaranteed until hand excavation has taken place. Proprietary pipe and cable locators are available although generally these will not locate plastic pipes.

**Safe working Practices**

**To achieve safe working conditions adjacent to gas plant the following must be observed:**

Observe any specific request made by ESP Utilities Group's staff.

Gas pipes must be located by hand digging before mechanical excavation. Once a gas pipe has been located, mechanical excavation must proceed **with care**. A mechanical excavator must not in any case be used within 0.5 metre of a gas pipe and greater safety distances may be advised by ESP Utilities Group depending on the mains maximum operating pressure (MOP).

Where heavy plant may have to cross the line of a gas pipe during construction work, the number of crossing points should be kept to a minimum. Crossing points should be clearly indicated and crossings at other places along the line of the pipe should be prevented.

Where the pipe is not adequately protected by an existing road, crossing points should be suitably reinforced with sleepers, steel plates or a specially constructed reinforced concrete raft as necessary. ESP Utilities Group staff will advise on the type of reinforcement necessary.

No explosives should be used within 30 metres of any gas pipe without prior consultation with ESP Utilities Group.

**ESP Utilities Group must be consulted prior to carrying out excavation work within 10 metres of any above ground gas installation.**

Where it is proposed to carry out piling or boring within 15 metres of any gas pipe, ESP Utilities Group should be consulted prior to the commencement of the works.

Access to gas plant must be maintained at all times during on site works.

---

#### **Proximity of Other Plant**

A minimum clearance of 300 millimetres (mm) should be allowed between any plant being installed and an existing gas main to facilitate repair, whether the adjacent plant be parallel to or crossing the gas pipe. No apparatus should be laid over and along the line of a gas pipe irrespective of clearance.

No manhole or chambers shall be built over or around a gas pipe and no work should be carried out which results in a reduction of cover or protection over a pipe, without consultation with ESP Utilities Group.

#### **Support and Backfill**

Where excavation of trenches adjacent to any pipe affects its support, the pipe must be supported to the satisfaction of ESP Utilities Group and must not be used as an anchor or support in any way. In some cases, it may be necessary to divert the gas pipe before work commences.

Where a trench is excavated crossing or parallel to the line of the gas pipe, the backfill should be adequately compacted, particularly beneath the pipe, to prevent any settlement which could subsequently cause damage to the pipe.

In special cases it may be necessary to provide permanent support to the gas pipe, before backfilling and reinstatement is carried out. Backfill material adjacent to gas plant must be selected fine material or sand, containing no stones, bricks or lumps of concrete, etc., placed to a minimum depth of 150mm around the pipes and well compacted by hand. No power compaction should take place until 300mm of selected fine fill has been suitably compacted.

If the road construction is in close proximity to the top of the gas pipe, a "cushion" of selected fine material such as sand must be used to prevent the traffic shock being transmitted to the gas pipe. The road construction depth must not be reduced without permission from the local Highway Authority.

No concrete or other hard material must be placed or left under or adjacent to any Cast Iron pipe as this may cause fracture of the pipe at a later date.

Concrete backfill should not be used closer than 300 mm to the pipe.

#### **Damage to Coating**

Where a gas pipe is coated with special wrapping and this is damaged, even to a minor extent ESP Utilities Group must be notified so that repairs can be made to prevent future corrosion and subsequent leakage.

#### **Welding or "Hot Works"**

When welding or other "hot works" involving naked flames are to be carried out in close proximity to gas plant and the presence of gas is suspected, ESP Utilities Group must be contacted before work commences to check the atmosphere. Even when a gas free atmosphere exists care must be taken when carrying out hot works in close proximity to gas plant in order to ensure that no damage occurs.

Particular care must be taken to avoid damage by heat or naked flame to plastic gas pipes or to the protective coating on other gas pipes.

#### **Leakage from Gas Mains or Services**

If damage or leakage is caused or an escape of gas is smelt or suspected the following action should be taken at once:

- ❖ Remove all personnel from the immediate vicinity of the escape;
- ❖ Contact the National Gas Emergency Service on: **0800 111 999**;
- ❖ Prevent any approach by the public, prohibit smoking, extinguish all naked flames or other source of ignition for at least 15 metres from the leakage;
- ❖ Assist gas personnel, Police or Fire Service as requested.

**REMEMBER - IF IN DOUBT; SEEK ADVICE FROM ESP UTILITIES GROUP.**

**ESP Utilities Group can be contacted at:**

**Office Address:** Bluebird House, Mole Business Park, Leatherhead, Surrey, KT22 7BA

**Office Tel:** 01372 587 500; **Fax:** 01372 377 996