



Utility Search Report (Electricity)

For the following location:

Growing Concerns Garden Centre, 2 Wick Lane,
Tower Hamlets, Greater London, E3 2NA

Client:

Caroline Walker

Co-ordinates:

536905.000,184116.200

Reference:

EMS00347/1953602

Search Date:

11/03/2015

Thank you for your Utility Search Report order. You have selected one of several report options developed to suit the specific needs of our different customers. The range comprises:

Utility Essentials

The Utility Essentials report gives visibility of the 5 key services – Gas, Electric, Water, Sewage and British Telecom, supplied for areas of up to 25 hectares. The Essentials report is ideal for remote sites where only the main utilities providers are likely to be present or projects where the aim is merely to check the availability of the main utilities e.g. in the planning stages of a new development. All available information is collated and delivered as a single report in 5 working days with any outstanding information being delivered as soon as it is available.

Utility Premium

The Utility Premium report provides comprehensive information about all services affecting your site, including: Gas and Oil Pipelines; mains Water and Sewerage; Telecoms and fibre-optic cables; and transportation networks. This report is ideal when comprehensive information is required for your site, ensuring you are managing your risk and avoiding expensive delays. Supplied for areas of up to 25 hectares, all available information is gathered, collated and supplied as a single report within 10 working days, with any outstanding information being delivered as soon as it is available. Please note, a search of Vtesse Networks Ltd is not included in this report. If you require a Vtesse Networks Ltd search this is available through our Utility Singles Telecoms report.

Utility Fast-track

The Utility Fast-track report delivers all the information of a Premium report (Gas and Oil Pipelines; mains Water and Sewerage; Telecoms and fibre-optic cables; and transportation networks) but with all available supplier responses being collated in a report and delivered to you within 5 working days, with any outstanding information being delivered as soon as it is available. Please note, a search of Vtesse Networks Ltd is not included in this report. If you require a Vtesse Networks Ltd search this is available through our Utility Singles Telecoms report.

Utility Singles

Our Utility Singles reports enable you to request data for a single utility type. You can order Gas, Water & Sewerage, Electricity or Telecoms as an individual search. This is a cost-effective way to obtain relevant information if you only need to check the availability/position of a particular utility in order to plan a new development or make changes to an existing development. Supplied for areas of up to 25 hectares*, all available information is gathered, collated and supplied as a single report within 10 working days, with any outstanding information being delivered as soon as it is available.

*Telecom report with Vtesse is limited to a maximum radius of 250m.

UTILITY REPORT CONTENT & INFORMATION

1 Purpose of Utilities Report

The Utilities Report is intended to be for project planning and feasibility only. It is not suitable to be used for construction or excavation purposes. The existence of utilities on the plans does not imply that they are suitable in size, capacity, type or location for the project purpose. The Utility Companies should be contacted directly for clarification in this regard.

2 Compilation of the Utilities Report

The Utilities Report is a compilation of Utility Company record plans. These are obtained via application to the Utility Companies following a geographic search to determine which Companies are in a given area. The data is provided by the Utility Companies in a variety of formats including faxed plans, pdf files, digital drawing files and paper drawings. They are all converted to pdf files for inclusion in the report. The quality of the plans therefore varies. A quality assured process is followed for each report. This requires that it is checked at different stages during the process before being subjected to a final assessment prior to issue.

3 Limitations and Accuracy of the data

Each Utility Company has its own disclaimer statement in respect of the information they provide. They do not guarantee or provide a warranty for the data. The Utility Company disclaimers should be referred to when considering the accuracy and completeness of the data. Generally the plans provided are for guidance only and are not guaranteed to be up to date or to be a complete record of the Utility Company plant in a given area.

Some Utility Companies only show main utilities. Therefore service pipes or cables may not be shown on the plans but they may be present on the site.

Some Utility Companies state that the utilities may deviate from the route and position shown on the plans.

Due to the time delay between installation of, or repair or upgrading of utilities and the subsequent updating of the Utility Companies plans, it should be noted that there could be utilities present that are not shown on the plans.

The user shall make further enquires and investigations to satisfy himself as to the adequacy of the plans and position of the utilities. The exact position of the utilities should be verified by the use of suitable detecting devices and safe digging practices in accordance with HS(G)47. Further advice on the location of the utilities should be requested from the owner.

4 Completeness

Whilst every effort is made to locate all Utility Companies in a given area, due to the sensitive or restrictive nature of certain sites, the existence of redundant utilities, the emergence of new companies and the combining of, takeover or sale of existing Companies, we cannot guarantee to provide details on all utilities in a given area.

5 Date

Due to the Utility Companies plans being regularly changed and updated, the Utility Report is only valid at the time of production.

6 Liability

For the reasons given in 1 – 5 above neither emapsite Ltd nor Technics Group Limited (trading name of Subtechnics Limited) can accept any liability for or offer any guarantees for the report or the content. No representation is made by either emapsite Ltd and/or Technics Group Limited as to the accuracy, completeness, sufficiency or otherwise of this report.

7 Copyright

The copyright of the Utilities Report remains with Technics Group Limited and may not be copied nor communicated using any method either in whole or in part without the prior written consent of Technics Group Limited.

8 Assignment

The Utility Report cannot be assigned to any other party without the prior written consent of Technics Group Limited.

Terms and Conditions

The Terms and Conditions should be read in conjunction with the 'Report Content & Information' sheet. The content of the 'Report Content & Information' sheet forms part of the Terms and Conditions.

1. Disbursements

- 1.1. Several Utility Companies charge for either searching to determine if they have any plant or for providing plans. These charges are included in the cost of Utility Essentials, Utility Premium and Utility Fast-track Reports, and are not charged as extra. Utility Singles Reports do not include disbursement charges and these will be charged as extra to the client at cost. The client will be made aware of any applicable charges prior to finalisation of purchase.
- 1.2. The Utility Companies that make a charge or the charges themselves may be changed or updated without notification to the client.

2. Turnaround times

- 2.1. Whilst every effort is made to produce the reports as quickly as possible we are reliant on the Utility Companies to provide us with the plans and/or data. Depending on the product purchased, generally reports are completed within approximately 5 to 15 working days.
- 2.2. No guarantees can be made regarding the time taken to complete the report.

3. Limitation of Liability

- 3.1 Technics Group Ltd (trading name of Subtechnics Limited) and/or emapsite Ltd will make all reasonable endeavors to provide the Utility Report within the stated time period and shall not be liable for any delay arising because of any act, omission or delay of any Utility Company.
- 3.2 The Utility Companies have no liability to Technics Group Ltd and/or emapsite Ltd in relation to the provision of information, plans and/or data or the omission of or to provide such information, plans or data. Therefore Technics Group Ltd and/or emapsite Ltd shall have no liability to a Client for the information, plans and data contained in a Utilities Report.
- 3.3 Technics Group Ltd and/or emapsite Ltd shall have no liability in relation to any Utilities Report for loss or damage arising in relation to loss of profits, loss of business, loss of use, costs, damages, charges or expenses.

4. Cancellation Policy

- 4.1. We are unable to cancel the order once finalised.

5. Force Majeure

Technics Group Ltd and/or emapsite Ltd will have no liability to the Client if it is prevented from or delayed in performing its obligations in connection with producing the Utilities Report by any act, event, omission, accident or incident beyond its reasonable control. These include but are not limited to:- any form of industrial dispute, strike or lock-out, breakdown or failure of a utility service or transport network, act of God, war, riot, civil commotion, malicious damage, accident, incident, breakdown of plant, machinery or electronic system, fire or flood.

6. Governing Law

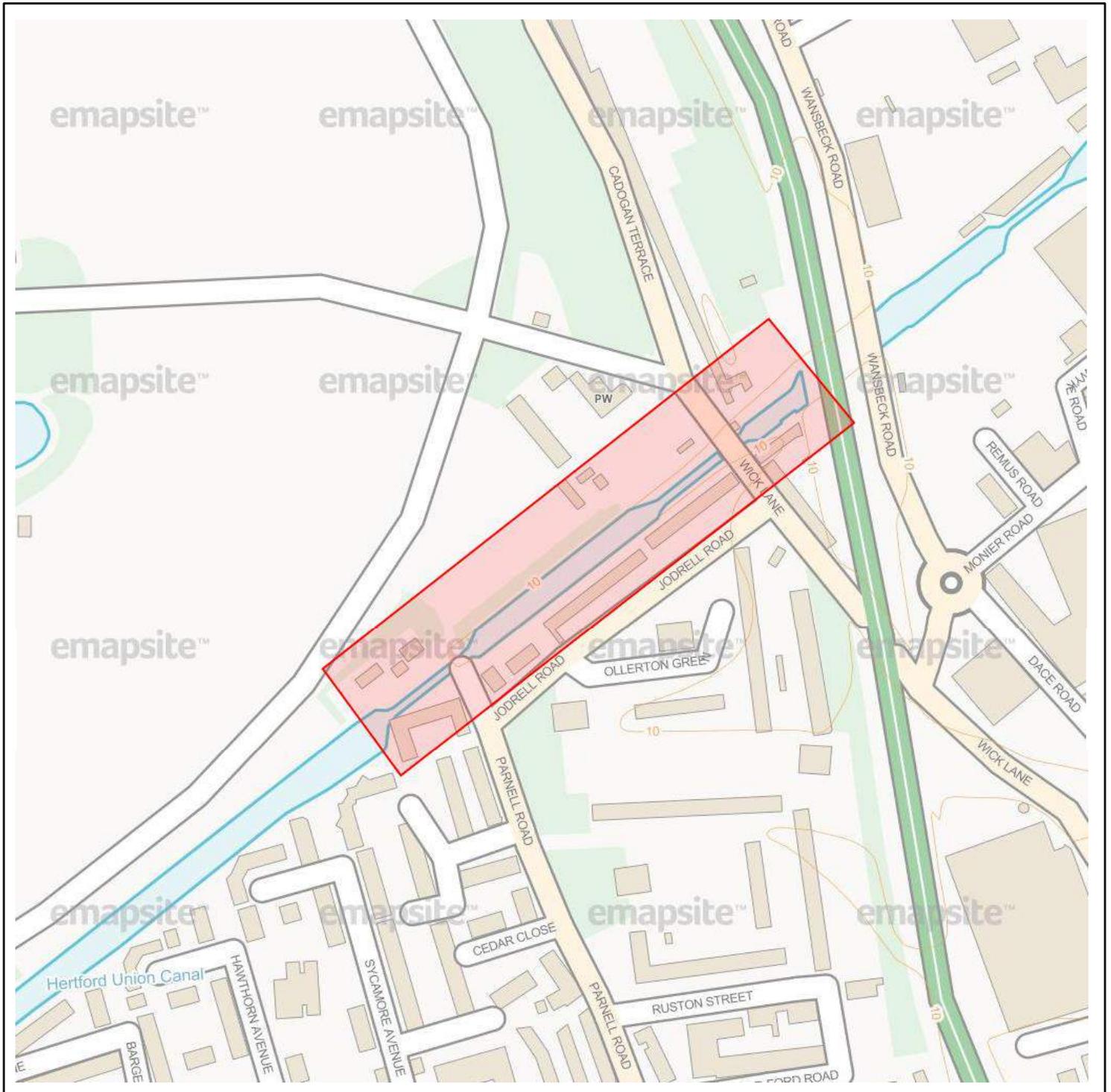
The Governing Law and Jurisdiction of these Terms and Conditions, any Contract or Agreement are governed by and construed in accordance with the laws of England and Wales. The courts of England and Wales shall have non-exclusive jurisdiction to settle any dispute or claim that arises out of or in connection with these Terms and Conditions, any Contract or Agreement.

Our Ref

GRS00347/GS-1953602

Grid Reference

OSGB: 536905.000,184116.200



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The representation of a road, track or path is no evidence of a right of way.

The representation of features as lines is no evidence of a property boundary.

Utility Company Underground Services Results Schedule

Your Ref 1953602

Our Ref: EMS00347

Address: Growing Concerns Garden Centre, 2 Wick Lane

Grid Reference: 536905.000,184116.200

Post code: E3 2NA

Author: Stephen Sawyer

Search Date: 11/03/2015

| Utility Company | Responses | Outcome |
|---------------------|-----------|--------------|
| Electricity | | |
| UK Power Networks | 31 | Affected |
| National Grid UK | 8 | Affected |
| Energetics | 1 | Not Affected |
| ESP Utilities Group | 3 | Not Affected |
| GTC Pipelines | 3 | Not Affected |

Electricity

Mr. Stephen Sawyer
Technics Group
Technics House
Merrow Business Centre
Merrow Lane
Guildford
GU4 7WA

Our Ref: 2015/2181896
Your Ref: GRS00347
12/03/2015

Dear Sir/Madam

GROWING CONCERNS GARDEN CENTRE 2, WICK LANE, LONDON, E3 2NA

Thank you for your letter of 11/03/2015 in which you asked if there are any electric lines and/or electrical plant belonging to UK Power Networks (LPN) plc ("UK Power Networks") within land referred to by your enquiry. Unfortunately I have not been able to determine the specific site to which your enquiry relates. I have thus provided records for the land to which I believe your enquiry may refer. If the records provided do not relate to the land to which you had intended to refer please resubmit your enquiry, showing the relevant land edged red on a plan which clearly shows the entirety of the land for which you require copies of our records. It will help me to identify the land to which your enquiry relates if you could also provide me with a copy or page from an A to Z map, showing both the land itself and the area in which it is located.

Subject to the above, I enclose a copy of UK Power Networks record of its electric lines and/or electrical plant at the site. If the records provided do not relate to the land to which you had intended to refer please resubmit your enquiry.

This information is made available to you on the terms set out below.

- 1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.**
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. **Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise how for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.**
4. The information about UK Power Networks electrical plant and/or electric lines provided to you belongs to and remains the property of UK Power Networks. You must not alter it in any respect.
5. **The information provided to you about the electrical plant and/or electric lines depicted on the plans may NOT be a complete record of such apparatus belonging to UK Power Networks. The information provided relates to electric lines and/or electrical plant belonging to UK Power Networks that it believes to be present but the plans are NOT definitive: other**

electric lines and/or electrical plant may be present and that may or may not belong to UK Power Networks.

6. **Other apparatus not belonging to UK Power Networks is not shown on the plan. It is your responsibility to make your own enquiries elsewhere to discover whether apparatus belonging to others is present. It would be prudent to assume that other apparatus is present.**
7. You are responsible for ensuring that the information made available to you is passed to those acting on your behalf and that all such persons are made aware of the contents of this letter.
8. Because the information provided to you may **NOT** be accurate, you are recommended to ascertain the presence of UK Power Networks electric lines and/or electrical plant by the digging of trial holes. **Trial holes should be dug by hand only.**

Excavations must be carried out in line with the Health and Safety Executive guidance document HSG 47. We will not undertake this work. A copy of HSG 47 can be obtained from the Health and Safety Executives website.

All electric lines discovered must be considered LIVE and DANGEROUS at all times and must not be cut, resited, suspended, bent or interfered with unless specially authorised by UK Power Networks.

The electric line and electrical plant belonging to UK Power Networks remains so even when made dead and abandoned and any such electric line and/or electrical plant exposed shall be reported to UK Power Networks.

Where your works are likely to affect our electric lines and/or electrical plant an estimate of the price of any protective /diversionary works can be prepared by UK Power Networks Branch at Metropolitan House, Darkes Lane, Potters Bar, Herts. , EN6 1AG, telephone no. 0845 2340040

- 9 **Any work near to any overhead electric lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.**

The GS6 Recommendations may be purchased from HSE Books or downloaded from the Energy Networks Association's website.

If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to avail yourself of this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday, Public and bank holidays excepted.

10. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by telephone at the number below providing:
 - your name, address and telephone number; and
 - the date, time and place at which such damage was caused; and

- a description of the electric line and/or electrical plant to which damage was caused; and
- the name of the person whom it appears to you is responsible for that damage; and
- the nature of the damage

Telephone 0800 780078 (24 Hours).

12. The expression “UK Power Networks” includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.

IF YOU DO **NOT** ACCEPT AND/OR **DO NOT** UNDERSTAND THE TERMS OF USE SET OUT IN PARAGRAPHS 1 TO 12 INCLUSIVE ABOVE YOU MUST NOT USE THE PLANS AND RETURN THEM TO ME.

I would remind you that work adjacent to electric lines and/or electrical plant represents a serious risk to health and safety and as such should feature amongst the items you have assessed in your workplace risk assessment and method statement.

I shall be pleased to supply you with further assistance if you require it.



Printed On : 12/03/2015
 Plot Description:
 Map Centre : TQ57845W



For details of our cables please visit:
<http://www.ukpowernetworks.co.uk/underground-services/underground-cables/>

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts
 Depth normally 750mm cover in carriageway & 600mm cover in footway.
 Before digging within one metre of these cable routes Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.
N.B. THRUST BOMBS OR HOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the original handbooks may have been altered since the apparatus was installed.
 2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been determined.
 4. It must be assumed that there is a service cable in each property, lamp column and street sign etc.
 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
 6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plants more than 3 months after the issue date for excavation.
UK Power Networks
 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
 2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
 3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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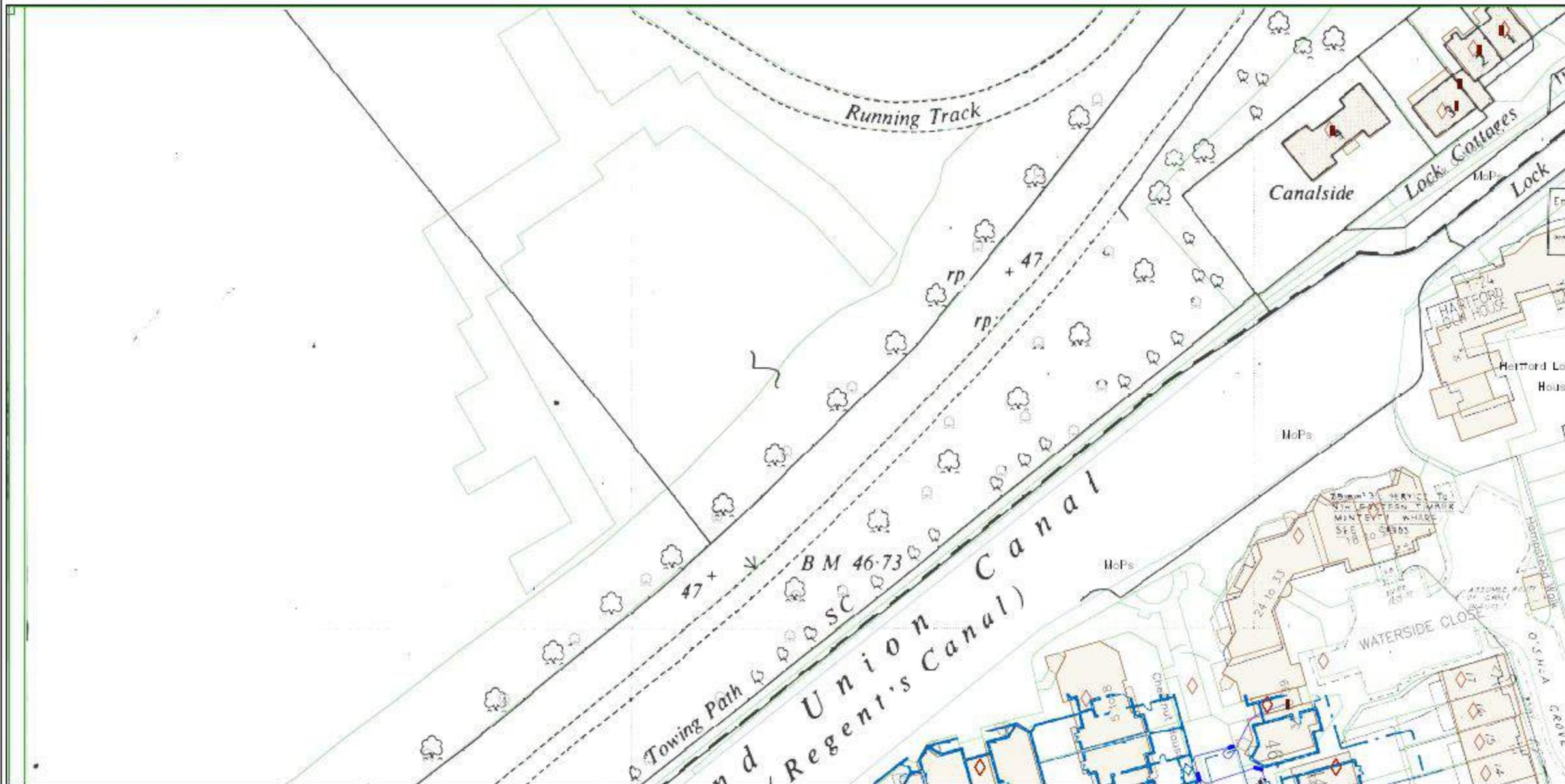
ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK! PHONE 0800 056 5866
BIG-BENCY - If you damage a cable or line
 Phone 0800 780 0780 (24hrs) UK-BNLY

These basic safety precautions are explained in detail in the HSE booklet H5(417) - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Plotted On: 12/03/2015



Plot Description:

Map Centre: TQ3083NE



PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 volts
 Depth normally 750mm cover in cartilageway & 600mm cover in footway.
 Before digging within one metre of these cables notify Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.
NEVER THRUST BORDERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the ground landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been identified.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be open to all people working near UK Power Networks plant & equipment. Do not use plans more than 3 months after the issue date for excavation.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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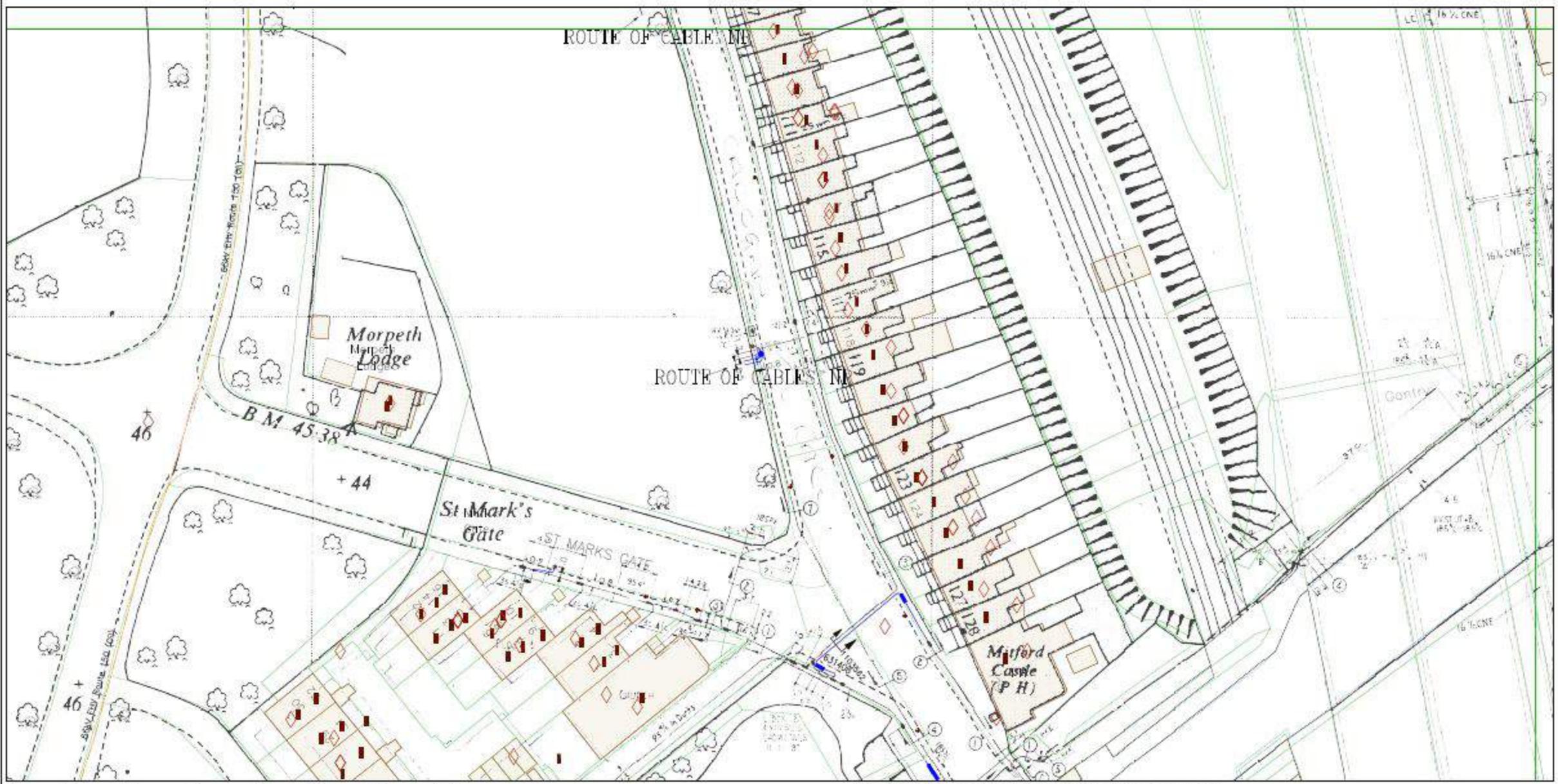
ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locating tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK PHONE 0800 056 5866
BIG-ENERGY - If you damage a cable or line
 Phone 0800 780 0780 (24hrs) UK-ONLY

These basic safety precautions are explained in detail in the HSE booklet HSG47 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Filed On : 12/03/2015
 File Description :
 Map Centre : TQ3684SE



For details of our cables please visit:
<http://www.ukpower.net/cables>

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in subhighway & 600mm cover in footway.
 Before digging within the route of these cables contact Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.

N.B. THRUST BORDERS OR HOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified by use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks plant & equipment. Do not use plants more than 3 months after the issue date for excavation.
7. **Caution:**
8. Please be aware that electric cables/lines belonging to other owners or licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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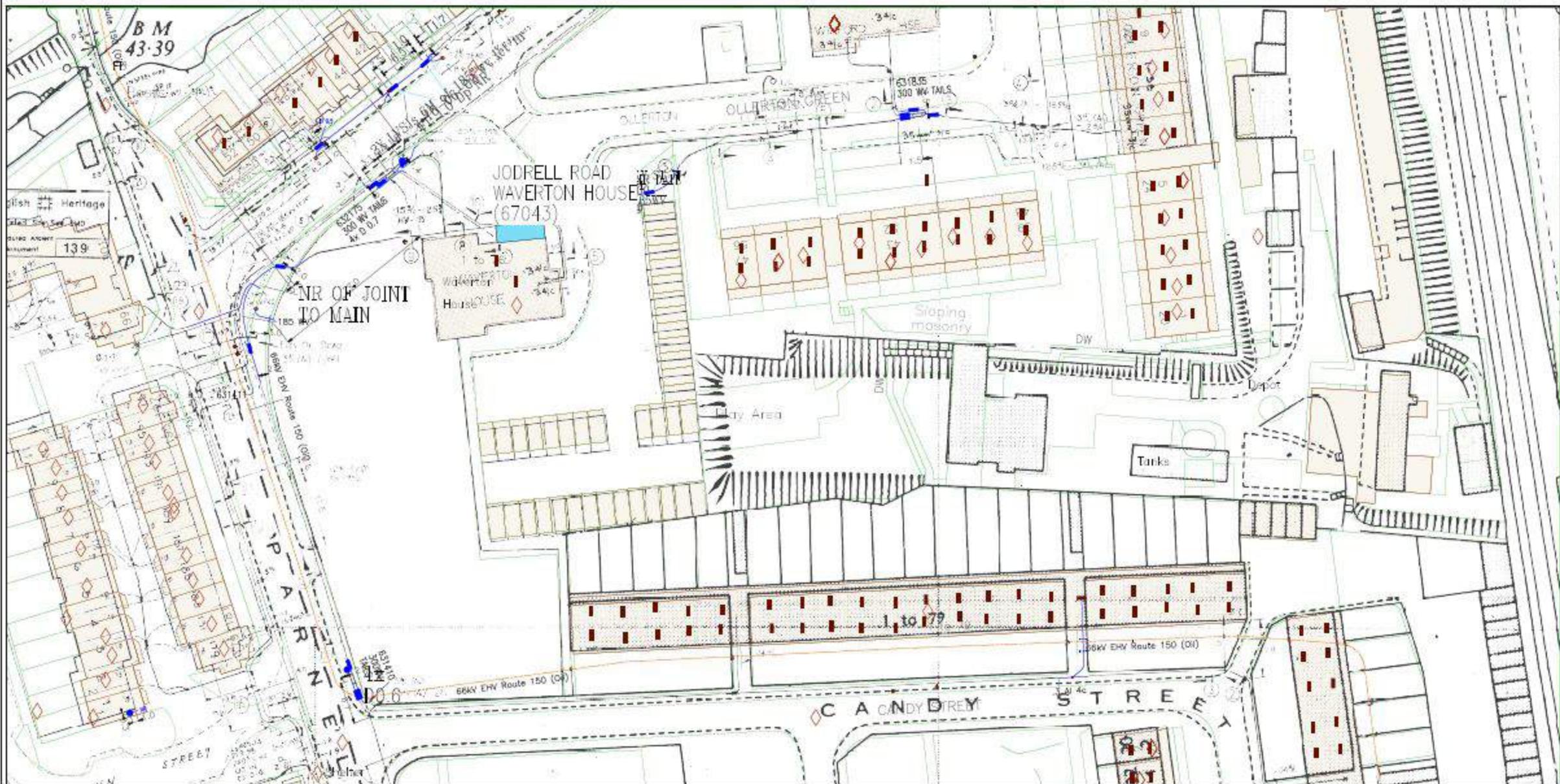
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- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK! PHONE 0800 056 5866
EMERGENCY - If you damage a cable or line
 Phone 0800 760 0760 (24hrs) **URGENTLY**

These basic safety precautions are explained in detail in the HSE booklet H52417 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Printed On : 12/03/2015

File Description :

Map Centre : TQ5683NE



PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in carriageway & 600mm cover in footway.
Before digging within one metre of these cable routes Telephone 0800 056 5866 in order that the Company's apparatus may be located at site and any necessary protection works agreed.

N.B. THRUST BORES OR HOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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4. It must be assumed that there is a service cable over each property, lamp column and street light etc.
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7. **Caution:**
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3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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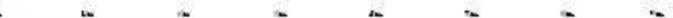
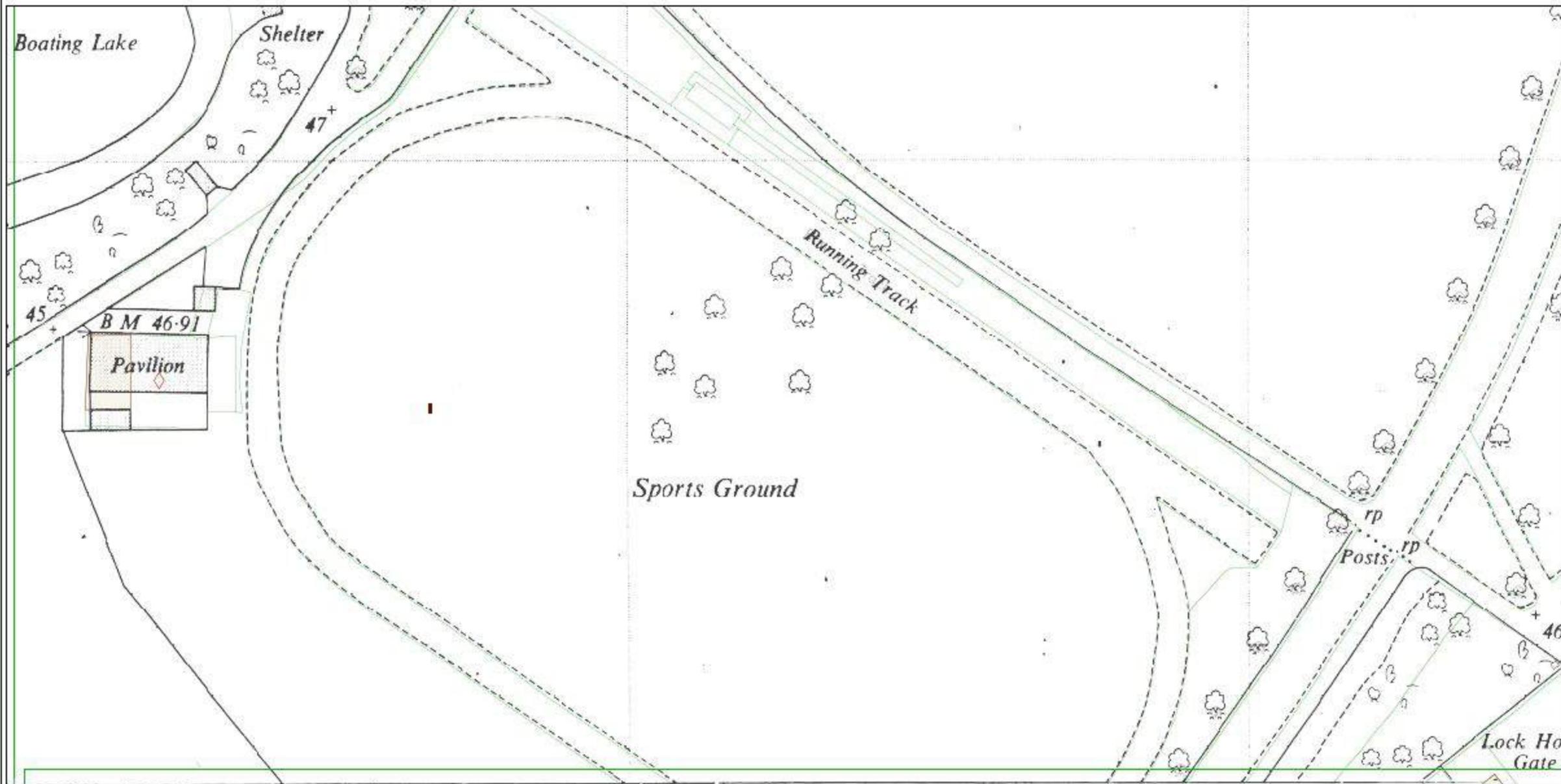
ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES:

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

**IF IN DOUBT - ASK PHONE 0800 056 5866
EMERGENCY - If you damage a cable or line
Phone 0800 760 0760 (24hrs) URGENTLY**

These basic safety precautions are explained in detail in the HSE booklet H52417 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Filed On | 12/03/2015



Plot Description:

Map Centre : TQ35845E



PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts
 Depth normally 750mm cover in cartilageway & 600mm cover in footway.
 Before digging within one metre of these cable routes Telephone 0800 035 5868 in order that the Company's apparatus may be located on site and any necessary protection works agreed.
N.B. THRUST BORERS OR HOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The cover position of the apparatus should be marked - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been identified.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plants more than 3 months after the issue date for excavation.
7. **Caution:** Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability in it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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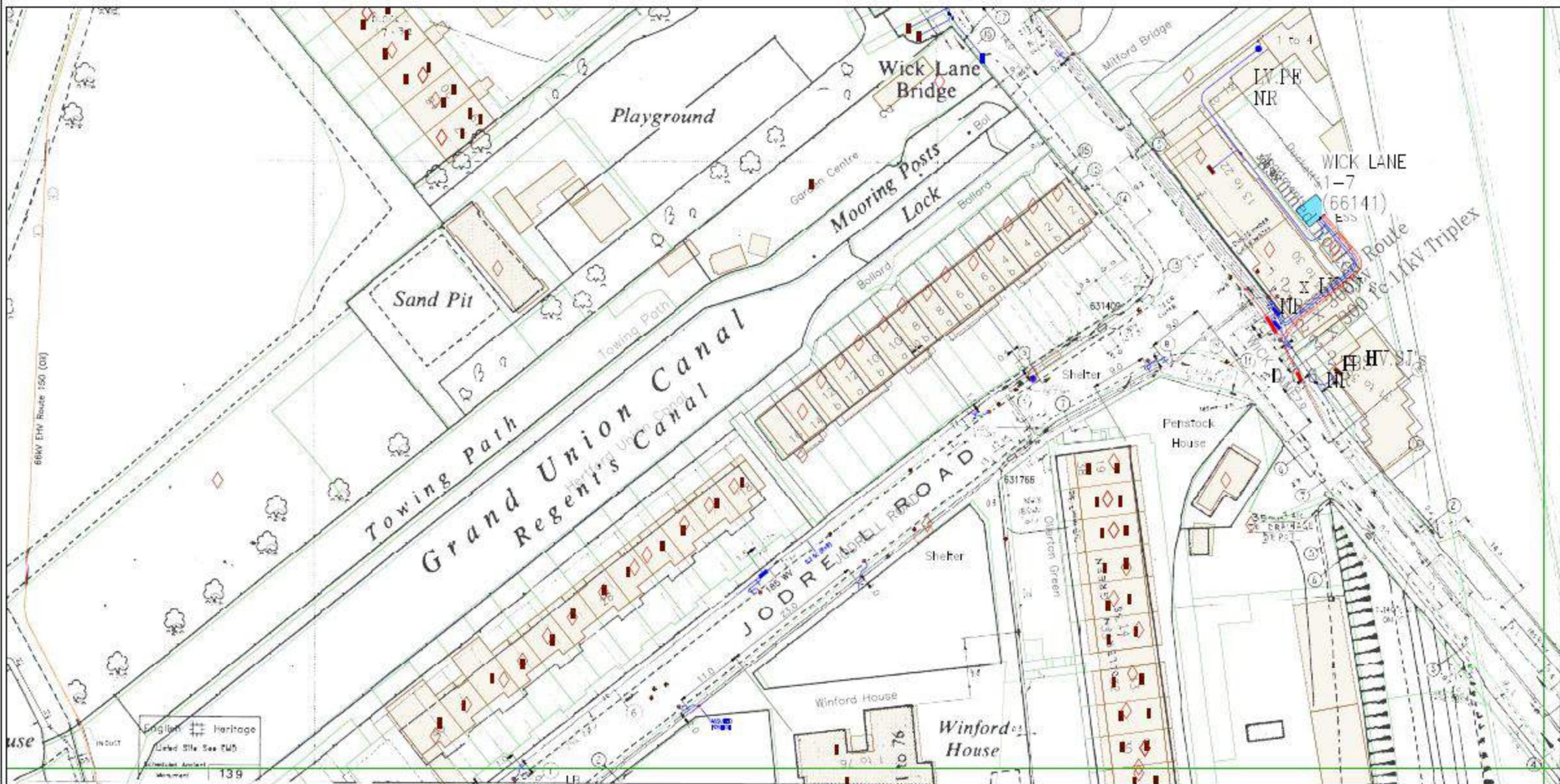
ADVICE TO CONTRACTORS ON AVOIDING DAMAGE FROM BURIED ELECTRICITY CABLES

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK PHONE 0800 035 5868
BIG-ENERGY - If you damage a cable or line
 Phone 0800 750 0780 (24hrs) UK-BTL

These basic safety precautions are explained in detail in the RSE booklet H3(6)17 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Filed On | 12/03/2015



File Description

Map Centre : T036843E



PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts
 Depth normally 750mm cover in carriageway & 600mm cover in footway.
 Before digging within site limits of these cable routes.
 Telephone 0800 056 5866 in order that the Company's apparatus may be located at site and any necessary protection works agreed.
N.B. TRUST BORDERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the ground conditions may have been altered since the apparatus was installed.
 2. The cover position of the apparatus should be marked - use approved cable avoidance marks prior to excavation using suitable hand tools.
 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been determined.
 4. It must be assumed that there is a service cable over each property, lamp column and street lighting.
 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
 6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plans more than 3 months after the issue date for excavation.
 7. Please be aware that electric cables/lines belonging to other owners or licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
 2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
 3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profits, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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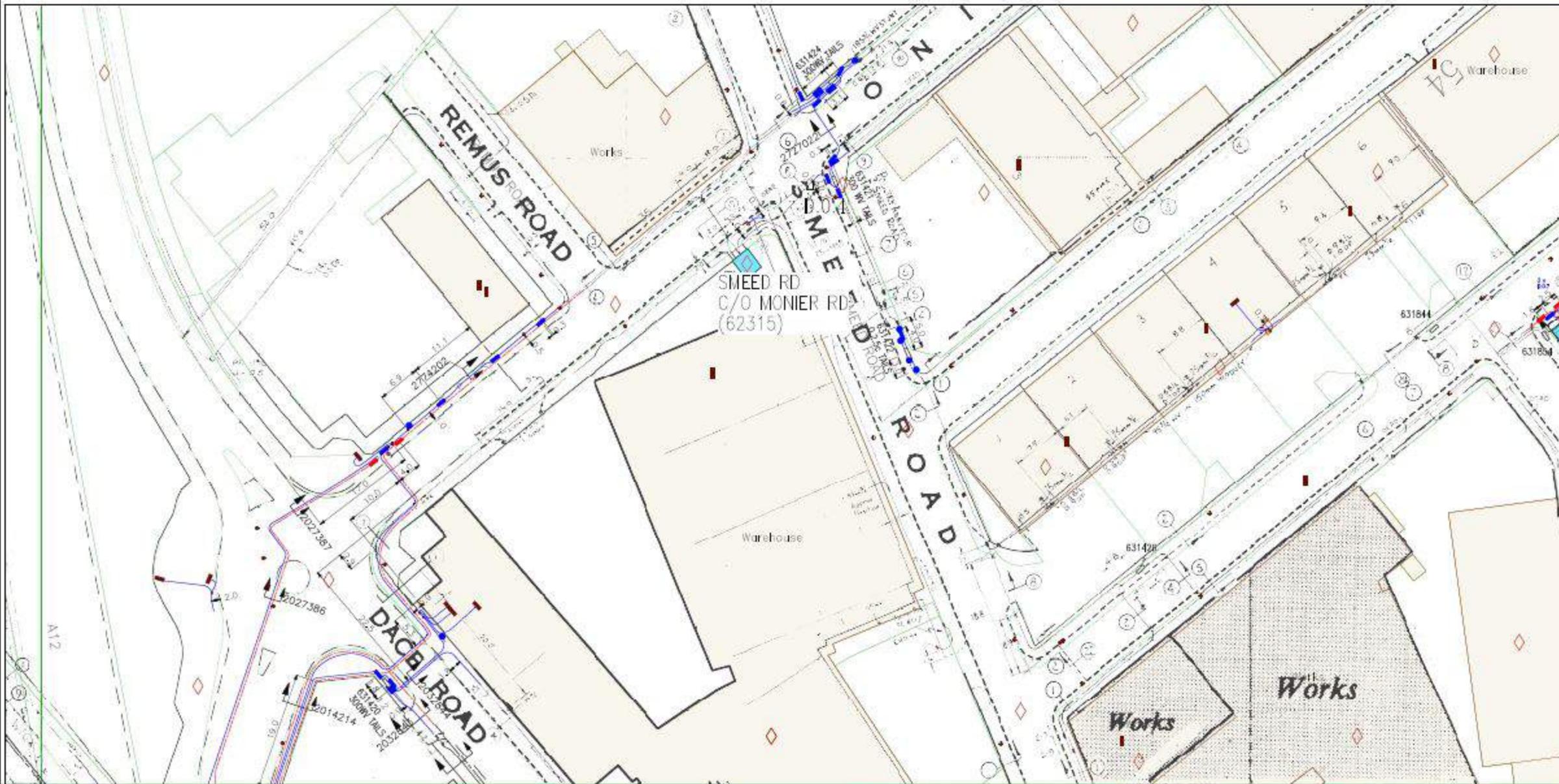
ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK PHONE 0800 056 5866
BIGBENNY - If you damage a cable or line
 Phone 0800 780 0760 (24hrs) UK ONLY

These basic safety precautions are explained in detail in the HSE booklet H52(47) - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners or licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Printed On : 12/03/2015



File Description:

Map Centre : TQ57845W



For details of our cables please visit:
<http://www.ukpower.co.uk/infocentre/infocentre.aspx?infocentre=underground>

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in carriageway & 600mm cover in footway.
 Before digging within one metre of these cable routes
 Telephone 0800 056 5856 in order that the Company's apparatus may be located
 at site and any necessary protection works agreed.

**N.B. TRUST BORDERS OR HOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY
 CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS
 COMPANY.**

1. The position of the apparatus shown on this drawing is believed to be correct but the original handbooks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks and the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street furniture etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plants more than 3 months after the issue date for excavation.
7. **Caution:**
8. Please be aware that electric cables/buses belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

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2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
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**ADVICE TO CONTRACTORS ON AVOIDING DANGER
 FROM BURIED ELECTRICITY CABLES**

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

**IF IN DOUBT - ASK! PHONE 0800 056 5866
 BURENRY - If you damage a cable or line
 Phone 0800 780 0780 (24hrs) UK-BNLY**

These basic safety precautions are explained in detail in the HSE booklet H5(4)7 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Network Records NetMAP Symbols Booklet - London

This symbol booklet is intended as a general guide only - some local variations of these symbols may be found.

Version 1.2
Released October 2010

Index:-

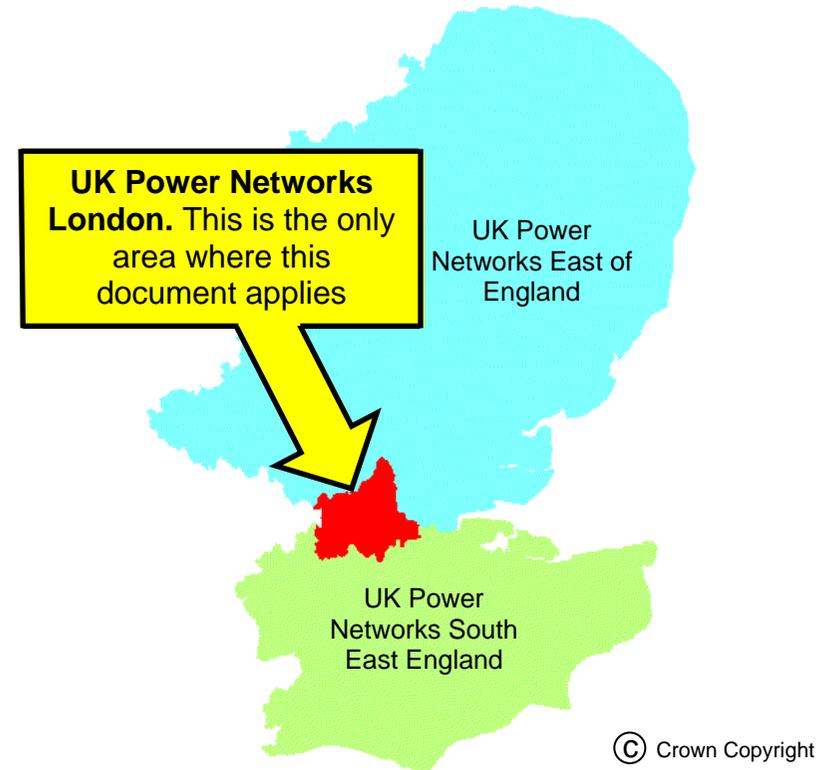
| Page no: | Contents: |
|----------|--|
| 1 | Guidance notes. |
| 2 | The area covered by this guide. |
| 3 | Scenery. |
| 4 | Scenery (UK Power Networks use only-boxed red) |
| 7 | Primary distribution cables (EHV). |
| 8 | Secondary distribution cables (LV/HV). |
| 9 | Cable terminology. |
| 10 | Cable size abbreviations. |
| 11 | Cable ducts. |
| 12 | Other NetMAP symbols. |
| 15 | Services. |
| 17 | Symbols used in cross sections. |
| 19 | Abbreviations used in cross sections. |
| 20 | Typical plan and cross section representations: <ul style="list-style-type: none">All areas: NetMAP/vector.All areas: composite raster style 1.Ex-Western area and Holborn: main and ways.The City of London: single line.Finsbury and Shoreditch: multi-single line style 1.Ex-North Eastern area: HV/LV.Ex-North Eastern area: multi-single line style 2.Ex-North Eastern area: composite raster style 2. |
| 23 | Regional NetMAP anomalies - general overview. |
| 24 | Region 1: ex-Western area. |
| 25 | Region 2: ex-Northern area. |
| 27 | Region 3: ex-North eastern area. |
| 29 | Region 4: ex-South Eastern area. |
| 30 | Region 5: ex Southern area. |

Guidance notes.

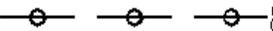
- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc. A separate record may be available.
- When excavations are to be carried out near Extra High Voltage (EHV) cables, further details must be obtained before commencement of work.
- Third party cables are not usually shown.
- When two or more maps are supplied for the same area, the maps must be read in conjunction with each other and with this symbol booklet.
- All LV cables are assumed to be 4 core, and all HV cables assumed to be 3 core – unless otherwise stated.
- All Imperial cable sizes are assumed to be copper and all metric cable sizes are assumed to be aluminium – unless otherwise stated.

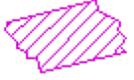


The area covered by this guide:



Please see the anomalies map at the end of this safety booklet for greater map area detail, and a breakdown of the more significant anomalies within the London area.

| Scenery | | |
|---|---|--|
| NetMAP system | Scanned image | Description |
|  |  | 100 metre Ordnance Survey grid line (on O/S based maps only) |
|  |  | Property fence line |
|  |  | Building line |
|  |  | Kerb line |
| |  | Kerb line on majority of ways & mains maps |
|  |  | Cable tunnel or subway |
| NOT APPLICABLE |  | Borough or City boundary and UK Power Networks boundary |
| |  | |
|  |  | UK Power Networks or Electrical boundary |
| |  | |

| Scenery for UK Power Networks use only - boxed in red | | |
|--|----------------|--|
| NetMAP system | Scanned image | Description |
|  Inset Network – Contact xxxx IDNO for further information | Not applicable | Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Proposed Cross Rail route (only visible to of UK Power Networks and their immediate contractors) |
|  | Not applicable | High pressure pipelines in the general vicinity (only visible to of UK Power Networks and their immediate contractors) |
| <p>Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult www.linewatch.co.uk for contacts and guidance. Pipeline contact numbers can also be found on the intranet – out of hours, contact our Control Centre.</p> | | |
|  | Not applicable | Water - surface water (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors) |

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Scenery for UK Power Networks use only - boxed in red

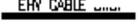
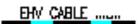
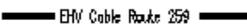
| NetMAP system | Scanned image | Description |
|---|----------------|--|
|  | Not applicable | Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - Special Protected Area (SPA) (only visible UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors) |

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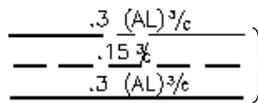
Scenery for UK Power Networks use only - boxed in red

| NetMAP system | Scanned image | Description |
|---|----------------|---|
|  | Not applicable | Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - National Park (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors) |

Primary distribution cables

| NetMAP system | Scanned image | Description |
|--|--|---|
|  Solid  Gas  Oil  Cable stop  Shallow |  EHV Cable Route 259 Not applicable  | UK Power Networks route (11,000 , 22,000 to 132,000 volts) Oil/gas cable stop Part of UK Power Networks cable route where cover is less than normal |

Secondary distribution cables

| NetMAP system | Scanned image | Description |
|--|---|---|
| (20kV)  (11kV)  (6.6kV)        |  $.3 (AL)\%e$ $.15\%$ $.3 (AL)\%e$ $185\%e$ $.0225\%e$ Not applicable Not applicable Not applicable Not applicable | HV cable (up to 20kV) 3 phase LV cable (230V or 400/230V) 1 or 2 phase LV cable (230V or 400/230V) Pilot or Telephone cable, often not shown in plan if running with other cables Fibre-optic cable Earth cable HV or LV cable in duct Duct route(s) not containing live cables |

| Cable terminology | | |
|-------------------|---------------|--------------------------------|
| NetMAP system | Scanned image | Description |
| PL | PL | Paper Lead |
| PLS | PLS | Paper Lead Served |
| PLST or PLSW | PLA | Paper Lead Armoured |
| PLSTS | PLTS | Paper Lead Steel Tape Served |
| PLSTS | PLDT | Paper Lead Double Tape |
| PLSWS | PLWS | Paper Lead Steel Wire Served |
| PLSW | PLBW | Paper Lead Bright Wire |
| PLS | LC & H | Lead Covered & Hessian |
| PLST or PLSW | LC & A | Lead Covered & Armoured |
| PLSW | LC & BA | Lead Covered & Bright Armoured |
| PLST | DSTA | Double steel tape armoured |
| PLST | STA | Steel Tape Armoured |
| PLSW | SWA | Steel Wire Armoured |
| Al | Al | Aluminium |
| Cu | Cu | Copper |
| WV | WV | Waveconal |
| CS | CS | Cansac |
| PVC | PVC | Polyvinyl Chloride |
| EPR | EPR | Ethylene Propylene Rubber |
| XLPE | XLPE | Cross Linked Polyethylene |
| SOL | SOLIDAL | Solid Aluminium |
| ax | TRIPLEX | Triplex (aluminium) |
| cx | TRIPLEX | Triplex (copper) |

| Cable size abbreviations | | |
|--------------------------|-------------------------|--|
| NetMAP system | Scanned image | Description |
| 1c | $\frac{1}{c}$ | Single core. |
| c/c | $\frac{c}{c}$ | Concentric cores |
| t/c | $\frac{T}{c}$ or T/cc | Triple concentric cores |
| 4c | $\frac{4}{c}$ | Four cores |
| 3c CNE | $\frac{3}{c}$ (CNE) | Three cores and concentric neutral – not of the Waveconal type |
| 2c | $\frac{2}{c}$ (or Tw) | Two cores (or twin) |
| s/c | $\frac{s}{c}$ | Split concentric cores |
| 3c | $\frac{3}{c}$ | Three cores |
| DC | DC | Direct current |
| P | P | Pilot |
| Pr | Pr | Number of telephone pairs |

| Cable ducts | | |
|---------------|---------------|--|
| NetMAP system | Scanned image | Description |
| | | Single empty ducts |
| | | Cluster of empty ducts (two or more) |
| | | Cable in single duct |
| | | Group of cables shown in a cluster of ducts, plus one or more empty (shown in section) |
| | | |
| | | On City of London area maps "extent of ducts" symbols are not in general use as most duct runs are between pits or boxes |

| Other NetMAP symbols | | |
|--|---------------|---|
| NetMAP system | Scanned image | Description |
| <p>0.3 4c AL PLSWS (Details also in cable attributes and/or section)</p> | | Cable size (and year laid) |
| | | Cable capped end |
| | | Cable pressure (or pot) end or signal end |
| | | Pressure/pot end & earth cable/electrode |
| | | Earth rod (vertical) |
| | | Earth rod (horizontal) |
| | | Earth plate |
| | | Earth plate or end |
| | | Bottle or trouser joint or combined crutch & pressure end - (CPE) |
| | | Straight joints |
| | | Tee joints |
| | | Crutch (or spur) joints (CJ) straight & crutch joints combined (S&CJ) |
| | | Double crutch (or spur) joint |
| | | Sleeve |
| | | |
| | | UT (Disconnected universal tee) |

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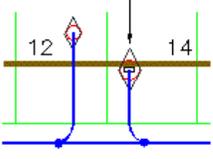
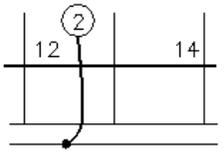
Other NetMAP symbols

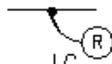
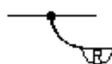
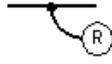
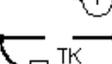
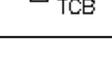
| NetMAP system | Scanned image | Description |
|---------------|---------------|--|
| | | Four way underground disconnecting boxes(DB) |
| | | Link boxes(LB) |
| | | Network boxes(NB) or (NWB) |
| | | 4 way 6 entry |
| | | 6 way box |
| | | 6 way 8 entry |
| | | Split bus-bar |
| | | Link box with identification number |
| | | 3 way underground disconnecting boxes |
| | | 2 way underground disconnecting boxes |
| | | 1 way underground disconnecting boxes |
| | | Feeder pillars |
| | | Split bus-bar distribution pillar |
| | | Double bus-bar distribution pillar |
| | | Blind pit/pit |
| | | Pit with access |

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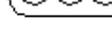
Other NetMAP symbols

| NetMAP system | Scanned image | Description |
|---------------|---------------|--|
| | | Transformer chambers (T/C) & transformer compounds |
| | | Underground transformer chamber |
| | | Missing data in or near this location |
| | | Underground tank |
| | | Indicates service between separate buildings is looped |
| | | Jointing schedule numbers or phasing diagram |
| | | Contaminated land reference |
| | | Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar |

| Services | | |
|---|---|--|
| NetMAP system | Scanned image | Description |
| SRC = Service Record Card | | |
| To a property/metered supply (also see SRC) | | |
| <p>Address point ◇</p> <p>Supply point ○</p> <p>Also see SRC and joint/cable attributes</p> <p>Service in external cabinet</p>  <p>Also see SRC and joint/cable attributes</p> | <p>Also see SRC</p> <ul style="list-style-type: none"> Ⓜ Single phase service ① Connected to 1 core & neutral Ⓡ Connected to red core & neutral ⊕ Three phase service ⊕ Connected to inner & outer cores of triple conc cable ⊖ Connected to middle & outer cores of triple conc cable ⊕ Connected to all three cores of triple conc cable  <p>ROYAL MEWS</p> | <p>Existence of a service with its core connection shown in circle</p> |
| section continued on next page | | |

| Services | | |
|---|--|-------------|
| NetMAP system | Scanned image | Description |
| To street furniture/un-metered supply (also see SRC) | | |
| <p>Please note that newly edited street furniture no longer has an address point or an SRC</p>  <p>(Street furniture general)</p>  <p>(Street furniture feeder pillar or cabinet)</p> |  <p>P.L.S.261 Public lighting</p>  <p>S.L.261 Street lighting</p>  <p>WB Wall bracket</p>  <p>TL Traffic light control</p>  <p>FB Flashing beacon</p>  <p>TS Traffic sign</p>  <p>B IGP Bollard/illuminated guard post</p>  <p>TK,TC TK,TC TCB FP Telephone kiosk, traffic controller, feeder pillar</p> | |

Symbols used in cross sections

| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | Cable laid direct |
|  |  | Cable laid in duct |
|  |  | Blocked duct (sometimes used for unidentified cables) |
|  |  | Single earthenware duct |
|  |  | Single steel pipe |
|  |  | Square cable duct |
|  |  | Group of circular ducts |
|  |  | Group of circular ducts (Sykes) |
|  |  | Group of square ducts (Doulton) |
|  |  | Cable trough |
|  |  | Bitumen casing (Crompton) |
|  |  | Bitumen filled iron trough (Trunks) |
|  |  | Bitumen casing (Tri-case) |

section continued on next page

Symbols used in cross sections

| NetMAP system | Scanned image | Description |
|--|---|-------------------|
|  |  | Protective slab |
|  |  | Tiles. |
|  |  | Concrete slabs |
|  |  | Steel plate |
|  |  | Plastic tile tape |
| Timber  |  | Timber |

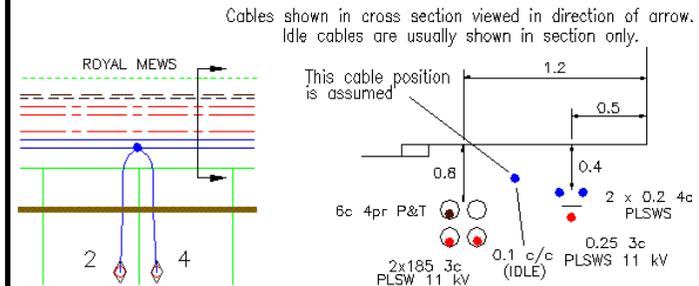
Abbreviations used in cross sections

| NetMAP system | Scanned image | Description |
|---|--|---|
| EW | E.W.D(s) or EW. | Earthenware ducts |
| F | F.P or F or F.D | Fibre duct |
| A | ASB or A | Asbestos |
| P | P | Plastic or pitch fibre |
| S | S.P or S | Steel |
| C | C.I or C or C.I.P | Cast iron |
| WI | W.I | Wrought iron pipe |
| F | F or F.D | Fibre duct |
| PRD | PRD | Plastic Rigiduct |
| Left blank – means NR | { D.N.K or D:NR N.R or (N.R) | Depth not known No record |
| E.V | E.V.P or E.V | Everite pipe |
| T/T | T/T | Tape Tile |
| N/A | 3/62 or NOV 79 | Date cable laid |
| N/A—destination now only shown in cable attribute | ABCD etc | HV cable destination (See section sheet HV ref) |
| | Please note: Ducts are assumed to be 4"/100mm earthenware – unless otherwise stated | |

Typical plan and cross section representations

Multi-line composite NetMAP/vector representation

All areas – drawn/redrawn using NetMAP GIS

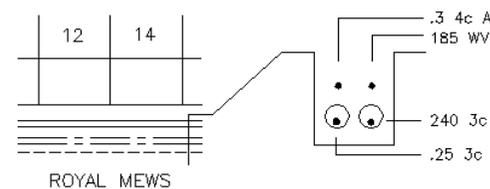


Applies to all composite vector records in both shaded and unshaded areas of the anomalies map.

Multi-line representation - general composite raster (style 1)

All areas

All cables are shown on plan and represented in section.
Sections may be shown in plan view or on a supplementary sheet.

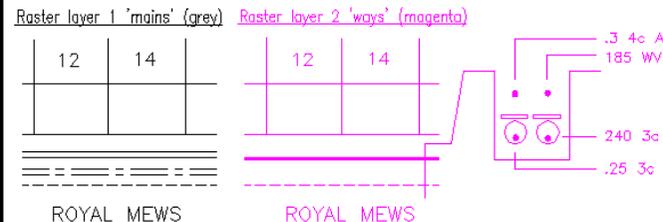


Applies to all composite raster records within the unshaded areas of the anomalies map.
Can also be found in some shaded areas – in particular the ex-North Eastern shaded areas 3 (b) and 3 (c)

Main and ways representation – dual layer raster

Ex Western area Holborn and parts of Ex-South Eastern Area only

All cables are shown on plan and represented in cross section on a separate (ways) sheet.



Applies to area 1(a) of the anomalies map.



Applies to area 2(a) of the anomalies map.



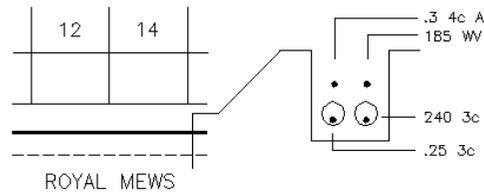
Typical plan and cross section representations

Single line representation - raster or vector data

The City of London only

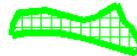
All cables are shown as a single line in plan.
Sections may be written and not drawn.

OR this style may be used.



1-3 way Tricase
2-2½" steel pipes
1-6 way Doulton
.4% (L.V. cable)

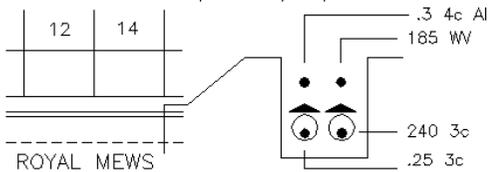
Applies to area 2(b)
on the anomalies map.



Multi-single line representation general (style 1)

Finsbury and Shoreditch only

Only the top cables in a vertical cable run are shown in the plan view. See the example below.
Note that the two lower cables that are in ducts (in this instance), are not shown in plan.
Therefore cross sections are particularly important, as each line represents one or more cables.



Applies to area 2 (c)
of the anomalies map.

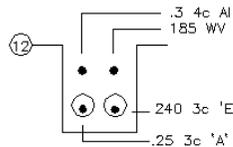
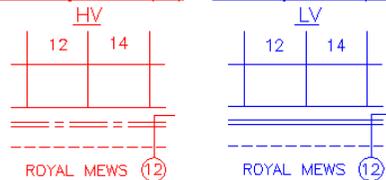


HV and LV map representation – dual layer raster

Ex-North Eastern area only

HV and LV cables are shown on separate raster layers. These layers MUST be read in conjunction with each other. Sections are shown on a combined supplementary section sheet in numerical sequence.

Raster layer 1 HV (red) Raster layer 2 LV (blue) Separate raster section sheet



Applies to area 3(a)
of the anomalies map.

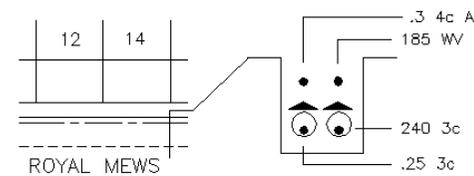


Typical plan and cross section representations

Multi-single line representation general (style 2)

Ex-North Eastern area only

In this area each voltage (HV and LV) is represented as an individual line. For example, three HV cables and four LV cables in the same run will be indicated by a single HV line and a single LV line. Therefore cross sections are particularly important, as each line represents one or more cables of that voltage.



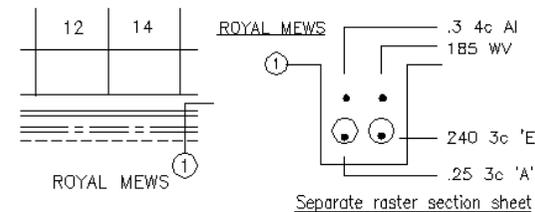
Applies to area 3 (b)
of the anomalies map.



Multi-line representation - composite raster (style 2)

Ex North Eastern area only

All cables are individually shown in plan.
Sections are shown on a supplementary section sheet and recorded under the relevant road name.



Applies to area 3(c)
of the anomalies map.



Important note regarding sections:

It does not follow that if the number of cables shown in the cross section have been located, that all live cables have been found. You may have found an unrecorded cable, or a cable belonging to another authority.

Regional NetMAP Anomalies - general overview:

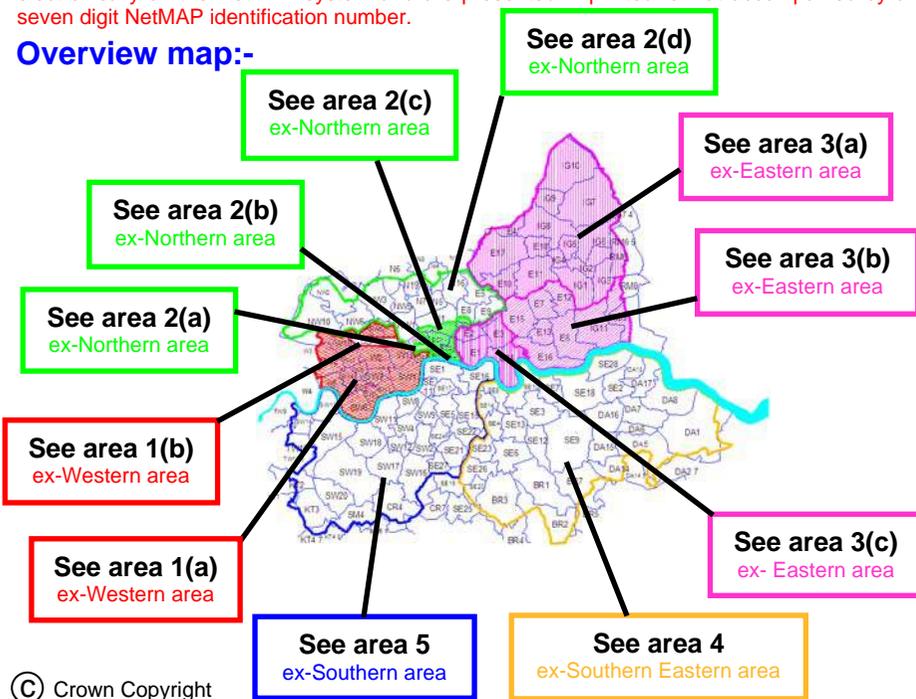
The following pages explain the various major map style anomalies found within the London area. These styles are a legacy from the five individual London Electricity areas which were again formed from seventeen separately organised LEB districts. Areas with significant anomalies are shown in the following pages as cross-hatched areas. Areas with standard composite vector and raster layer information are shown as un-hatched areas.

Cautionary note: - any region or sub-region, either shaded or un-shaded, may contain some local anomalies not mentioned in the following pages – if in doubt, please contact the UK Power Networks Plan Provision team on telephone number 08701 963797.

All regions (1-5) will contain recently created composite vector (NetMAP/AutoCAD) data.

Recent work created using the NetMAP system and previously created using the AutoCAD system (as opposed to raster/scanned data) are recorded in the composite vector style shown on the UK Power Networks London area symbol sheet - see the first example on page 18 of this document. Recent data will be indicated by the existence of multi-coloured cables on the NetMAP system, but this may not be reflected on printed matter produced with a black and white printer. AutoCAD data looks similar to the coloured NetMAP data, but does not hold any cable 'attributes' when selected using the NetMAP system. These cables will be represented individually (multi-line representation). New NetMAP cross sections may be accessed electronically on the NetMAP system and are presented in printed format accompanied by a seven digit NetMAP identification number.

Overview map:-



See following pages for further details.

Region 1 ex-Western area

This region includes Westminster, Kensington, Chelsea, Hammersmith and Fulham. The region is covered by two map layer systems – **region 1(a)** mains and ways dual layer raster, and **region 1(b)** composite raster. The following explains this in greater detail.

Region 1(a) (hatched )

Mains and ways representation:

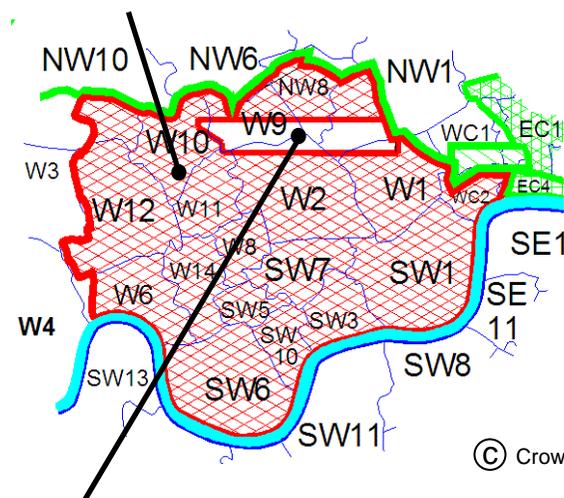
This system consists of two maps layers for the same area.

- The mains map shows all cable routes.
- The ways map shows pipe and duct routes with cross sections.

There are some enlargement sheets, cross sections and jointing details. EHV routes are shown on either the mains or the ways map.

It is important that all these maps are read in conjunction with each other.

Caution: - It is also important to note that the kerb line detail on these maps is a dash/dot line, which on the majority of UK Power Networks Central (London) records would refer to an HV cable route. HV cables are shown as a solid line when laid direct and a dashed line when in a duct.



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Region 1(b) (un-hatched )

Composite single layer (style 1) maps:

Whenever possible, all the information is on one map layer. There are some enlargement sheets in the Aberdeen Place area. Please note that the kerb line is shown as a dotted line and HV cables are shown as dash/dot lines.

Region 2 ex-Northern area

This region includes Islington, Hackney, the City of London and parts of Brent, Camden and Ealing. The region is covered by four map layer systems - **Region 2(a)** - mains and ways dual layer raster (Holborn area), **Region 2(b)** - single line representation (City of London), **Region 2(c)** - multi-single line representation (Finsbury and Shoreditch) and **Region 2(d)** - composite multi-line maps (all other areas). This following explains this in greater detail.

Region 2(a) (hatched)

Covers part of WC1 and WC2 (Holborn).

Mains and ways representation:

This system consists of two maps layers for the same area.

- i) The mains map shows all cable routes.
- ii) The ways map shows pipe and duct routes with cross sections.

Where needed, extra sheets have been added for enlargements, cross sections and jointing details. EHV routes are shown on the mains map layer.

It is important that all these maps are read in conjunction with each other.

Caution: - It is also important to note that the kerb line detail on these maps is a dash/dot line, which on the majority of UK Power Networks Central (London) records would refer to an HV cable route. HV cables are shown as a solid line when laid direct and a dashed line when in a duct.



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Region 2(b) (hatched)

Covers parts of postal areas EC1, EC2 and all of postal areas EC3 and EC4.

Single line representation maps:

Whenever possible, all the information is on one map layer. One line can represent any number of cables or ducts. It is therefore very important to use cross sections. In some cross sections details may be written and not drawn. In complex and redrawn areas, some detail may be drawn using multi-line representation. There are some enlargement sheets.

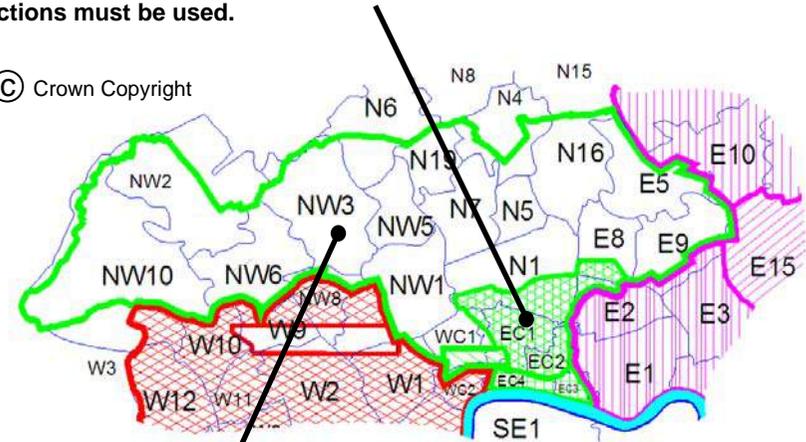
Region 2(c) (hatched)

Covers parts of postal areas EC1, EC2, N1, E1, E2 and E8.

Multi-single line representation (style 1) maps:

Whenever possible, all the information is on one map layer. When cables lay immediately above/below each other, it is shown as a single line. For example if six cables lay three on three, only three lines would indicate the six cables. If the cables were laid flat, six separate lines would be shown. It is therefore important not to assume that the lines drawn indicate the number of cables, at any point. **Cross sections must be used.**

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Region 2(d) (un-hatched)

Covers all other postal areas in this region

Composite single layer (style 1) maps:

Whenever possible, all the information is on one map layer. There are some enlargement sheets.

Region 3 ex-North Eastern area

This region includes Tower Hamlets, Newham, Redbridge, Waltham Forest, Loughton (Epping) and Barking and Dagenham. This region is covered by three mapping systems.

Region 3(a) (hatched)

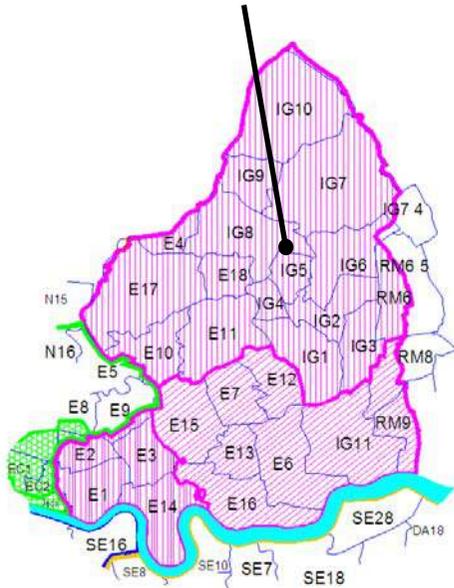
Separate HV and LV representation maps:

This system consists of two maps layers for the same area.

- i) The HV map layer showing HV cables and duct routes.
- ii) The LV map layer showing LV cables and duct routes.

Cross sections for both HV and LV cable routes are shown on a separate sheet. EHV cable routes are shown on the HV map layer.

It is important that all these maps are read in conjunction with each other.

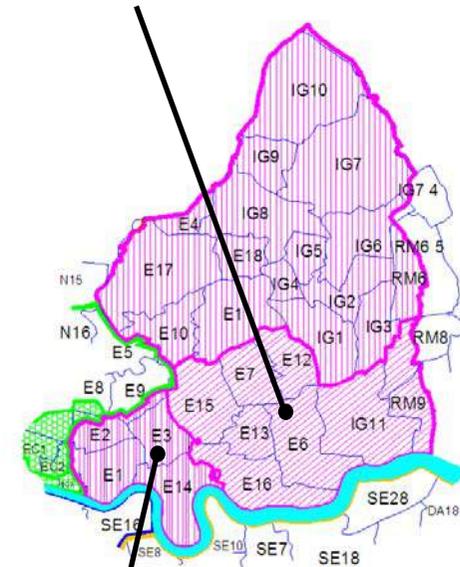


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Region 3(b) (hatched)

A combination of composite single layer (style 1) and multi-single line (style 2):

Whenever possible, all the information is on one map layer. There are some enlargement sheets. There is a combination of map styles used in this area. Some areas may be conventional multi-line line representation with many areas of multi-single line representation. In the multi-line areas each (live) cable is shown individually in plan. In the multi-single line map areas, there is a single line for each voltage type, with a single HV line and a single LV line representing more than one cable run of each voltage (when applicable). Therefore a cable run containing three HV cable and four LV cables will be represented by one HV line and one LV line.



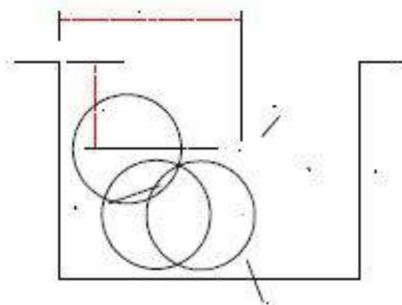
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Region 3(c) (hatched)

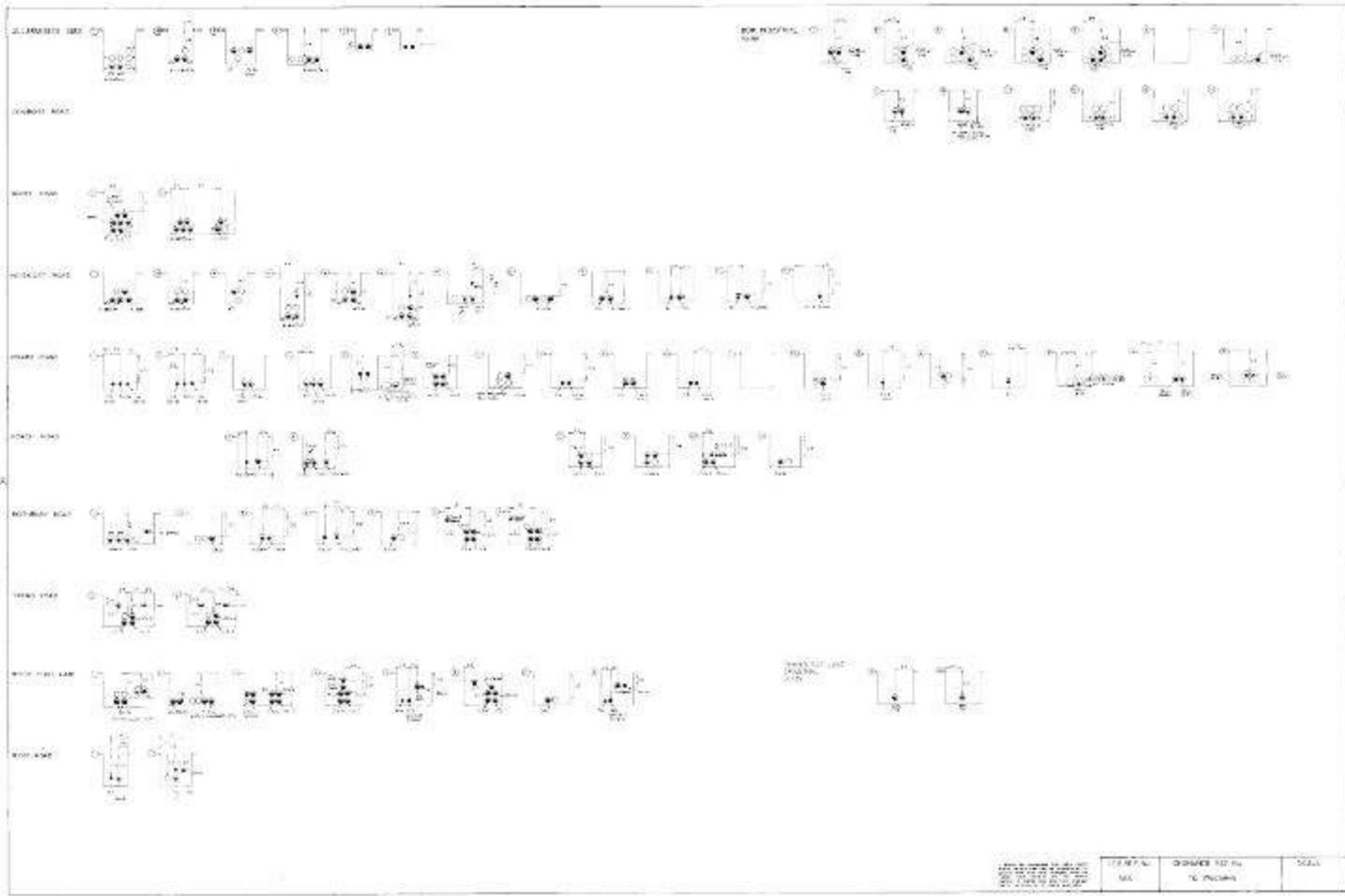
A combination of composite single layer (style 2) and multi-single line (style 2):

Whenever possible, all the information is on one map layer. There are some enlargement sheets. In this area (postal code areas E1, E2, E3, E14 and part of E9), the cross sections are listed under each road name. It is therefore extremely important that you have the correct cross sections for the road you are working in.

There is a combination of map styles used in this area. Most areas are composite single layer (style 2) with some areas of multi-single line representation, as described in region 3(b).



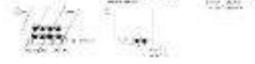
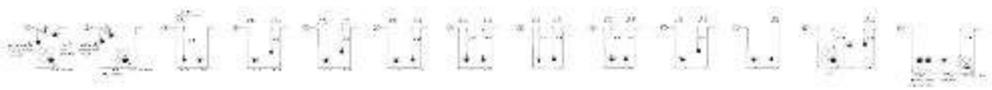
0.50



| SYMBOL | TERMINAL | CONNECTION | WIRE |
|--------|----------|------------|------|
| | 1 | 2 | 3 |
| | 4 | 5 | 6 |
| | 7 | 8 | 9 |
| | 10 | 11 | 12 |
| | 13 | 14 | 15 |
| | 16 | 17 | 18 |
| | 19 | 20 | 21 |
| | 22 | 23 | 24 |
| | 25 | 26 | 27 |
| | 28 | 29 | 30 |
| | 31 | 32 | 33 |
| | 34 | 35 | 36 |
| | 37 | 38 | 39 |
| | 40 | 41 | 42 |
| | 43 | 44 | 45 |
| | 46 | 47 | 48 |
| | 49 | 50 | 51 |
| | 52 | 53 | 54 |
| | 55 | 56 | 57 |
| | 58 | 59 | 60 |
| | 61 | 62 | 63 |
| | 64 | 65 | 66 |
| | 67 | 68 | 69 |
| | 70 | 71 | 72 |
| | 73 | 74 | 75 |
| | 76 | 77 | 78 |
| | 79 | 80 | 81 |
| | 82 | 83 | 84 |
| | 85 | 86 | 87 |
| | 88 | 89 | 90 |
| | 91 | 92 | 93 |
| | 94 | 95 | 96 |
| | 97 | 98 | 99 |
| | 100 | | |

12 1/2
100
100

GROUNDING



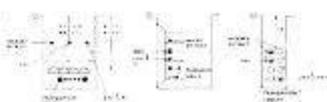
REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
| 1 | TO 3692E-1 | |

PLAN VIEW OF
SECTION 1



PLAN VIEW OF
SECTION 2



SCALE

SECTION 1
SECTION 2
SECTION 3

SECTION 1
SECTION 2
SECTION 3

SECTION 1
SECTION 2
SECTION 3

SCALE

6A

6B

10000

3

10000
 9500
 9000
 8500
 8000
 7500
 7000
 6500
 6000
 5500
 5000
 4500
 4000
 3500
 3000
 2500
 2000
 1500
 1000
 500
 0

1. GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SEVENTH EDITION, 2003, AND THE STANDARD SPECIFICATIONS FOR MATERIALS, SEVENTH EDITION, 2003, BOTH PUBLISHED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
4. ALL UTILITIES SHALL BE PROTECTED AND DEEPENED AS NECESSARY TO MAINTAIN ADEQUATE COVER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ALL EXISTING UTILITIES AND STRUCTURES.
6. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
7. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SAFETY MEASURES THROUGHOUT THE PROJECT.
8. ALL MATERIALS AND METHODS SHALL BE APPROVED BY THE ENGINEER BEFORE USE.
9. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL WORK DONE AND SUBMIT THEM TO THE ENGINEER UPON COMPLETION.
10. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.



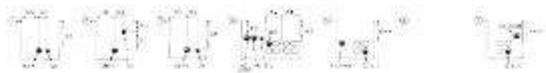
CAUTION: THIS PLAN IS A PRELIMINARY DESIGN. IT IS NOT TO BE USED FOR CONSTRUCTION WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

| | | | | |
|-------------|------------|----------|----------|----------|
| PROJECT NO. | DATE | SCALE | BY | CHECKED |
| 703745W-5 | 10/15/2024 | AS SHOWN | J. SMITH | M. JONES |
| | | | | |

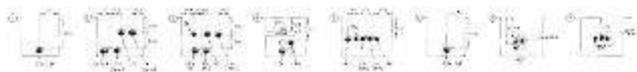
TABLE 101
MANUFACTURING



ASSEMBLY



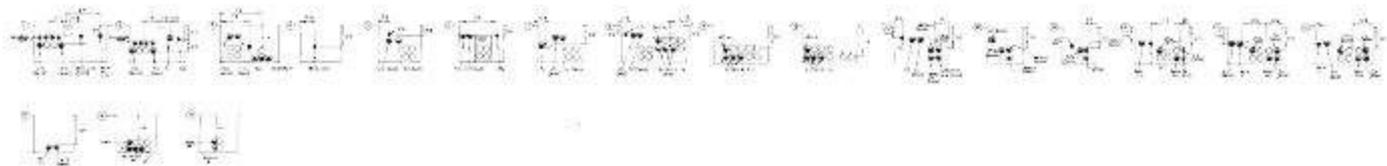
DISASSEMBLY



REWORK



TEST



FOR DETAILS OF CABLES
IN THIS AREA REFER TO
THE RECORDS KEPT BY
THE NORTH DIVISION OF
LONDON ELECTRICITY PLC

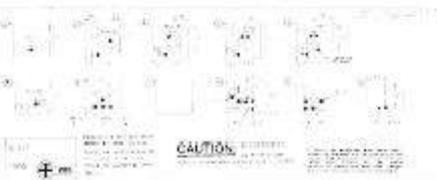
FOR DETAILS OF CABLES
IN THIS AREA REFER TO
THE RECORDS KEPT BY
THE NORTH DIVISION OF
LONDON ELECTRICITY PLC

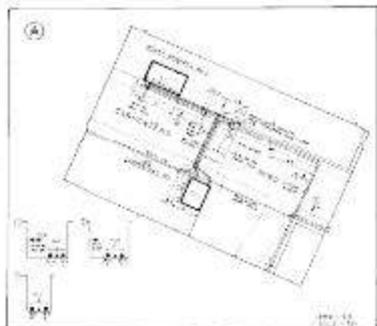
PLANT SCHEDULE
A list of the plant and equipment to be installed in this area

| NO. | DESCRIPTION | QUANTITY | REMARKS |
|-----|-----------------|----------|---------|
| 1 | 1000V 3PH 4W 3W | 1 | |
| 2 | 1000V 3PH 4W 3W | 1 | |
| 3 | 1000V 3PH 4W 3W | 1 | |
| 4 | 1000V 3PH 4W 3W | 1 | |
| 5 | 1000V 3PH 4W 3W | 1 | |
| 6 | 1000V 3PH 4W 3W | 1 | |
| 7 | 1000V 3PH 4W 3W | 1 | |
| 8 | 1000V 3PH 4W 3W | 1 | |
| 9 | 1000V 3PH 4W 3W | 1 | |
| 10 | 1000V 3PH 4W 3W | 1 | |



TO 3784 NE-S

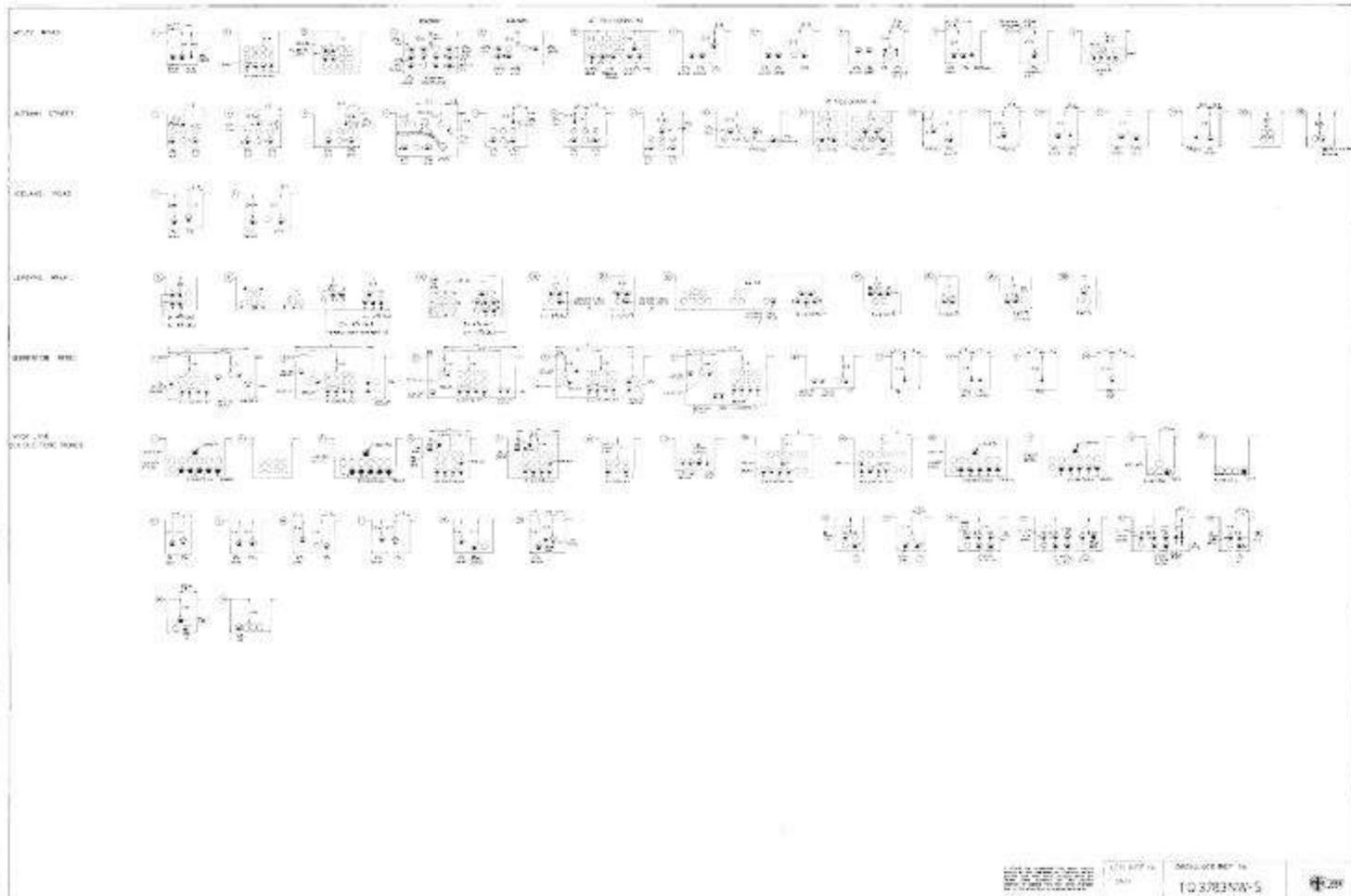




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| | | |
|----------|--------------------------|----------|
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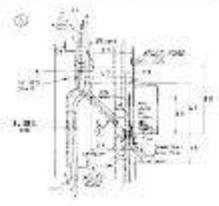
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100-100000-0000

100-100000-0000
100-100000-0000





AWL 1250



AWL 1250

CAUTION: IN APPROVED
CONSTRUCTION ONLY. SEE PLAN FOR
DIMENSIONS AND NOTES.

| DATE | BY | PROJECT NO. | SCALE |
|------------|-----|-------------|------------|
| 10/15/2010 | AWL | 103753NW-S | 1/4"=1'-0" |



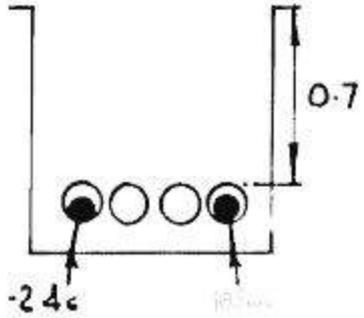
NO OTHER INFORMATION
IS IN THIS AREA REFER TO
THE APPROPRIATE DIVISION

| WARRANT INFORMATION | |
|---------------------|--|
| | |
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| | |
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| | |

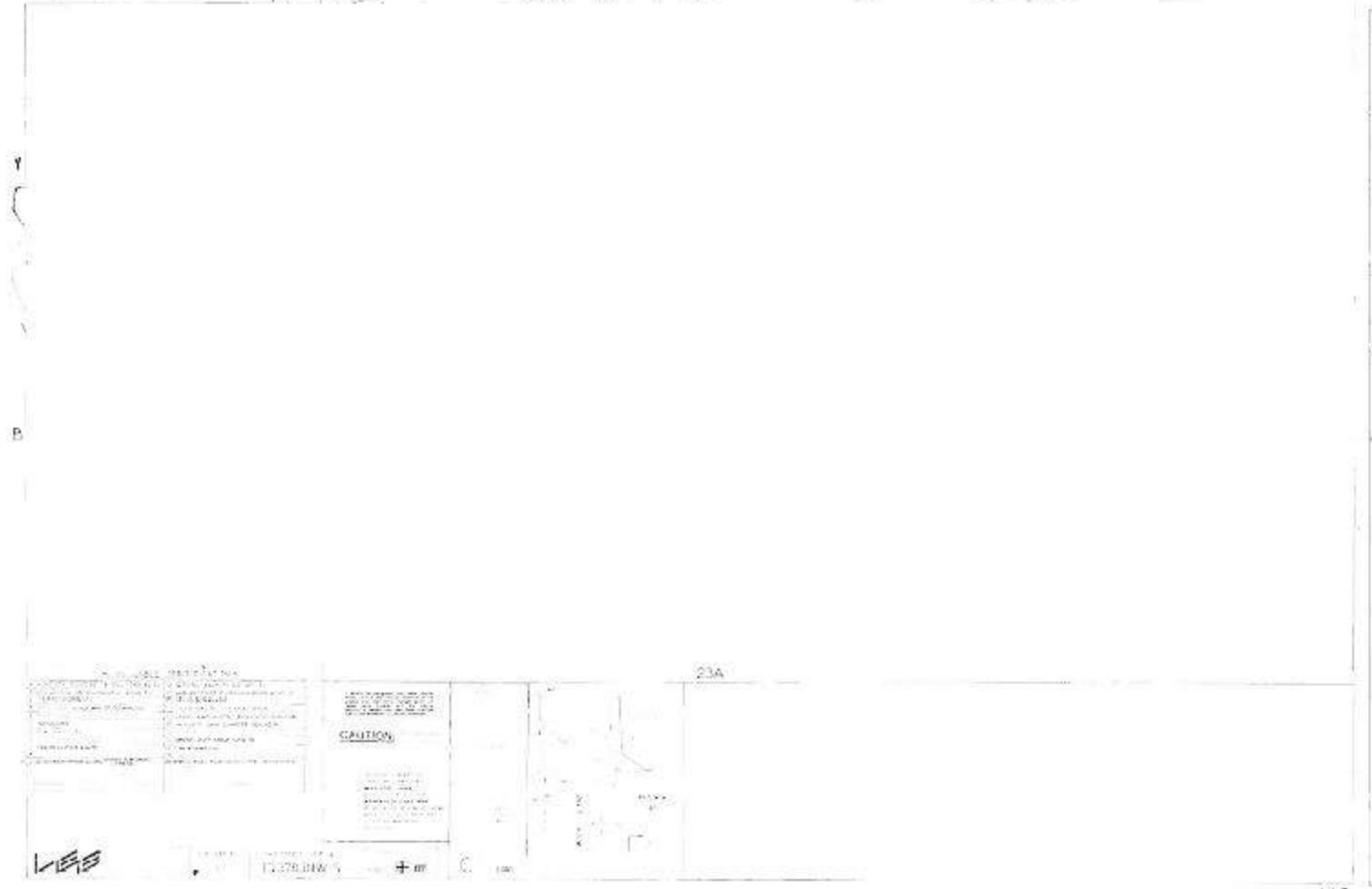
SEARCHED INDEXED
SERIALIZED FILED
FBI - MEMPHIS

CAUTION: SUBJECT
IS A FUGITIVE
REMEMBER TO CHECK
STATUS OF SUBJECT

114



Cross Section
1/2000



1420 100
 1420 1000
 1420 1000
 1420 1000
 1420 1000
 1420 1000
 1420 1000

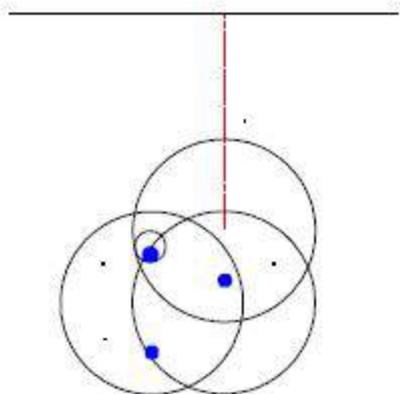
1. 1420 1000
 2. 1420 1000
 3. 1420 1000
 4. 1420 1000
 5. 1420 1000
 6. 1420 1000
 7. 1420 1000
 8. 1420 1000
 9. 1420 1000
 10. 1420 1000

CAUTION
 1. 1420 1000
 2. 1420 1000
 3. 1420 1000
 4. 1420 1000
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 8. 1420 1000
 9. 1420 1000
 10. 1420 1000

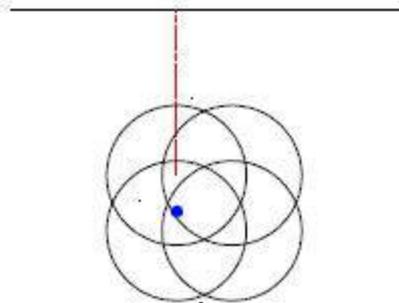
VBB

13.378.DWG 5

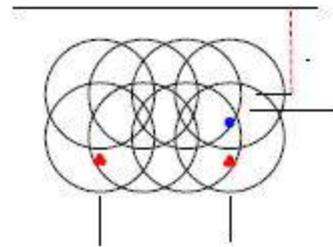
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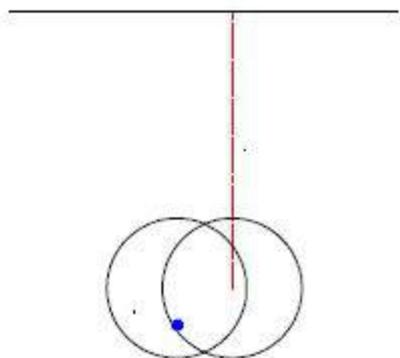
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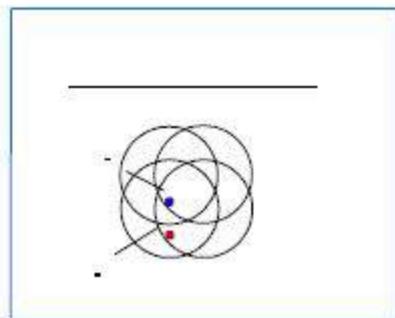
Cross Section
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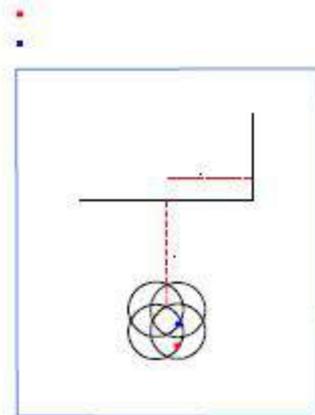
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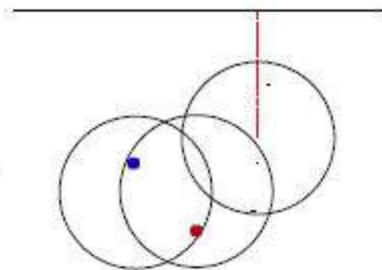
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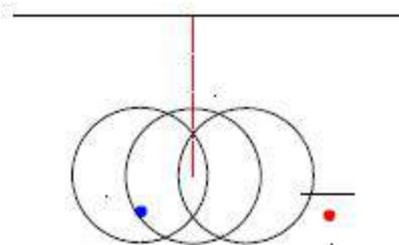
Cross Section
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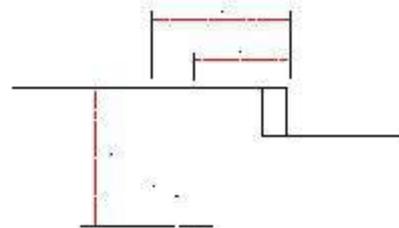
Cross Section
2008944



Circle Section
207988



Circle Section
208943



Circle Section
208942

A

BWM_0001

BWM_0002

BWM_0003

BWM_0004

BWM_0005

BWM_0006

BWM_0007

BWM_0008

BWM_0009

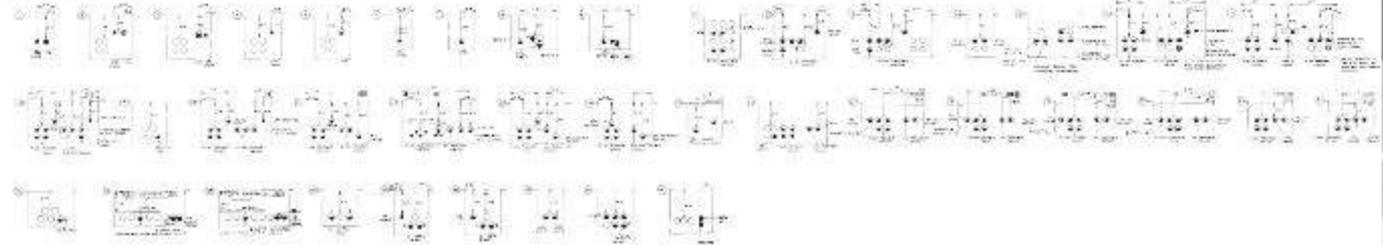


REPAIRABLE



GENERAL USE (SEE 1-10-100-100-100)

REPAIRABLE



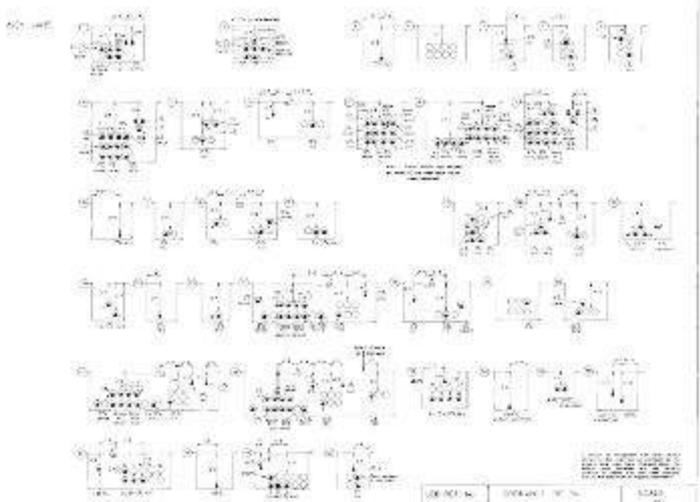
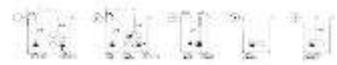
REPAIRABLE



REPAIRABLE



REPAIRABLE



REPAIRABLE

REVISIONS
REV. 10 1963AW-N

REPAIRABLE
GENERAL USE
REPAIRABLE
REPAIRABLE



Stephen Sawyer
Technics Group
Technics House
Guildford
Guildford
Surrey
GU4 7WA

Date: 20/03/2015

Our Ref: NL_TE_Z5_3SWX_140163

Your Ref: GRS00347

RE: Proposed Works, Growing Concerns Garden Centre, 2 Wick Lane, Tower Hamlets, Greater London, E3 2NA

Thank you for your enquiry which was received on 20/03/2015.
Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.

As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. National Grid will endeavour to provide an initial assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.

Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) apparatus. This assessment does **NOT** include:

- National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact National Grid.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid's easements or wayleaves nor any planning or building regulations applications.

NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

ASSESSMENT

Affected Apparatus

The National Grid apparatus that has been identified as being in the vicinity of your proposed works is:

- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)
- Electricity Transmission underground cables and associated equipment

Requirements

BEFORE carrying out any work you must:

- **Refer to the attached cable profile drawings (if any) which provide details about the location of National Grid's high voltage underground cables.**
- Carefully read these requirements including the attached guidance documents and maps showing the location of National Grid apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at <http://www.hse.gov.uk>
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

GUIDANCE

Electricity Underground Cables Guidance:

<http://www.nationalgrid.com/NR/rdonlyres/1174F509-0F16-4B68-8CF6-63FE27919E0A/51895/ElectricityUndergroundCableguidance.pdf>

Excavating Safely - Avoiding injury when working near gas pipes:

http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

Standard Guidance

Essential Guidance document:

<http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf>

General Guidance document:

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103>

Excavating Safely in the vicinity of gas pipes guidance (Credit card):

<http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf>

Excavating Safely in the vicinity of electricity cables guidance (Credit card):

<http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf>



ID: NL_TE_Z5_3SWX_140163
 USER: utilityreports
 DATE: 20/03/2015
 DATA DATE: 19/03/2015
 REF: GRS00347
 MAP REF: TQ3684
 CENTRE: 536838, 184052

View extent: 1445m, 785m

| | |
|-----------|--|
| LP MAINS | |
| MP MAINS | |
| IP MAINS | |
| LHP MAINS | |
| NHP MAINS | |

0m 100m
 Approximate scale 1:5000
 on A4 Colour Landscape

Map not to be used for construction

This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Map 1 of 2 (GAS)

MAPS Plot Server Version 1.8.0

Requested by: Technics Group

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| | | | | |
|-------|----------------|--------|-----------------|-----------------|
| Valve | Depth of Cover | Syphon | Diameter Change | Material Change |
|-------|----------------|--------|-----------------|-----------------|



ID: NL_TE_Z5_3SWX_140163
 USER: utilityreports
 DATE: 20/03/2015
 DATA DATE: 04/07/2014
 REF: GRS00347
 MAP REF: TQ3684
 CENTRE: 536838, 184052

View extent: 2890m, 1570m
 Underground cables 
 Overhead lines 
 0m  200m
 Approximate scale 1:10000
 on A4 Colour Landscape

Map not to be used for construction

This plan shows those cables owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regard to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Map 2 of 2 (ELECTRIC)
 MAPS Plot Server Version 1.8.0

 Requested by: Technics Group
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ENQUIRY SUMMARY

Received Date

20/03/2015

Your Reference

GRS00347

Location

Centre Point: 536838, 184052

X Extent: 303

Y Extent: 276

Postcode: E3 2NA

Location Description: Growing Concerns Garden Centre, 2 Wick Lane, Tower Hamlets, Greater London, E3 2NA

Map Options

Paper Size: A4

Orientation: LANDSCAPE

Requested Scale: 2500

Actual Scale: 1:5000 (GAS), 1:10000 (ELECTRIC)

Real World Extents: 1445m x 785m (GAS), 2890m x 1570m (ELECTRIC)

Recipients

utility.reports@technicsgroup.com

Enquirer Details

Organisation Name: Technics Group

Contact Name: Stephen Sawyer

Email Address: utility.reports@technicsgroup.com

Telephone: 01483 230080

Address: Technics House, Guildford, Guildford, Surrey, GU4 7WA

Description of Works

Growing Concerns Garden Centre, 2 Wick Lane, Tower Hamlets, Greater London, E3 2NA

Enquiry Type

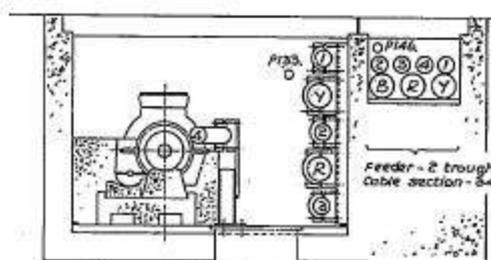
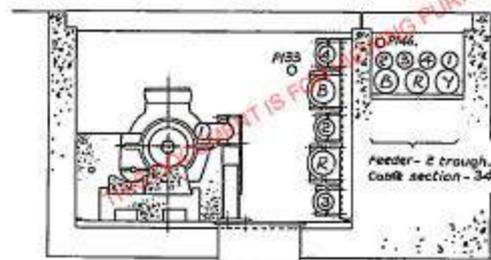
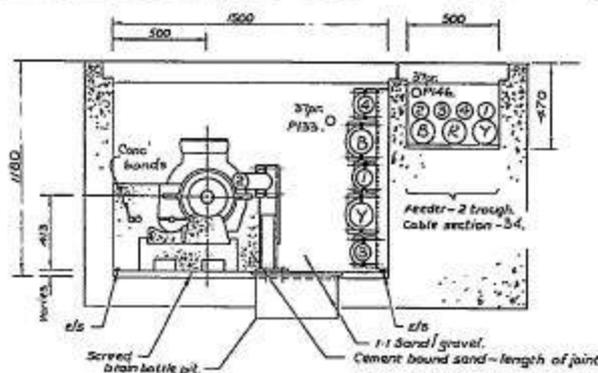
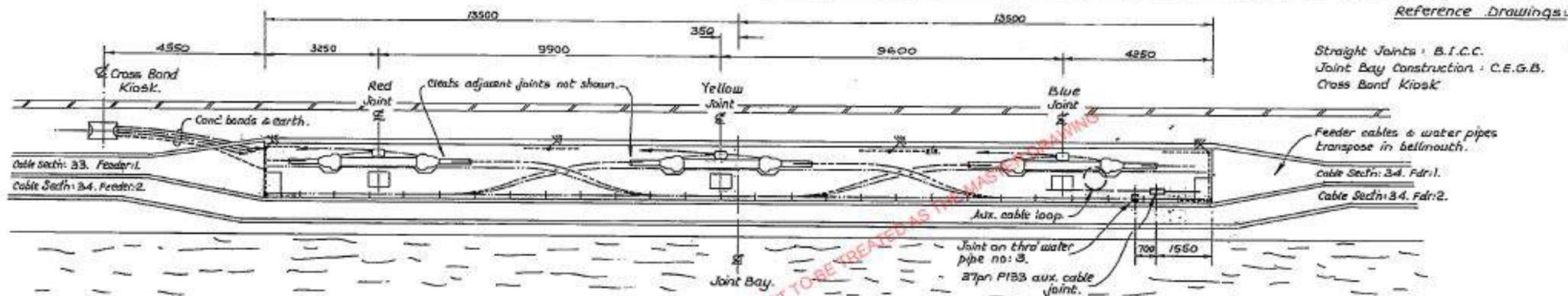
Proposed Works

Activity Type

Utility Works

Work Types

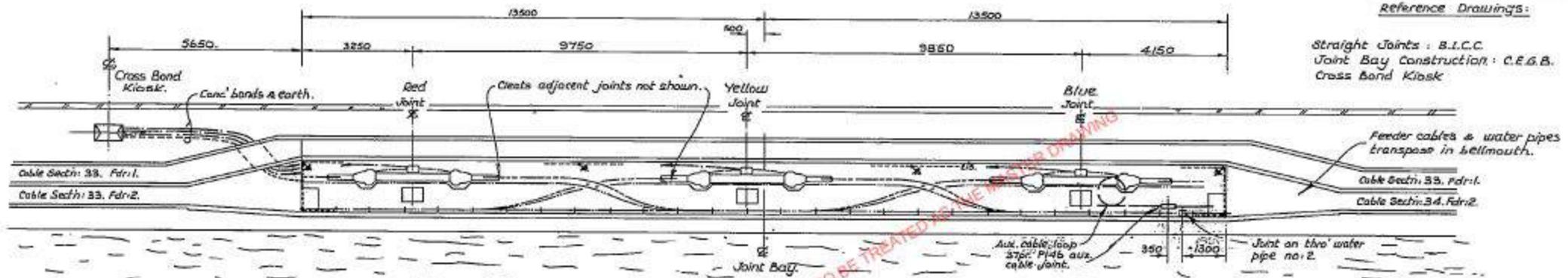
Work Type: Plans Only



| Jointing Details ~ Feeder Cables. | | | |
|-----------------------------------|---|----------|---------|
| Phase | Type of Cable. | Jointer. | Date. |
| R | 400 kv. S.C. 2000 ^o mm. all filled. lead sheath. | D. Kerr. | 10-7-80 |
| Y | — | — | 15-7-80 |
| B | — | — | 18-7-80 |

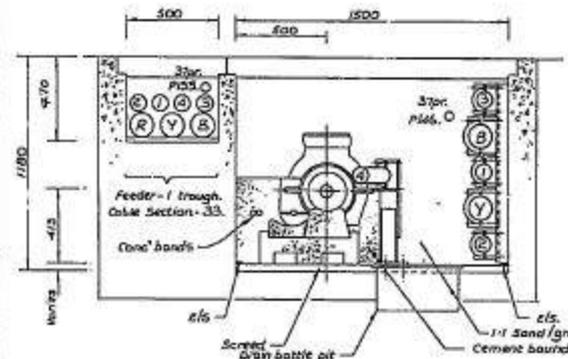
| Jointing Details ~ Auxiliary Cables. | | | |
|--------------------------------------|--|---------------|---------|
| | Type of Cable. | Jointer. | Date. |
| P153 | 37pn 1/0-5mm. Pe. Pa. Awl. Pe. jelly filled. | B. Mansfield. | 25-7-80 |

70/3620 SHT 108

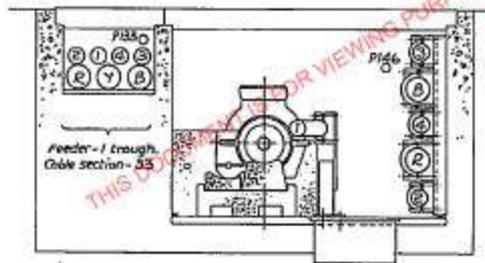


Reference Drawings:
 Straight Joints: B.I.C.C. : E95480-D1.
 Joint Bay Construction: C.E.G.B. : 16/16.307 rev. A.
 Cross Bond Kiosk : E90348-D3.

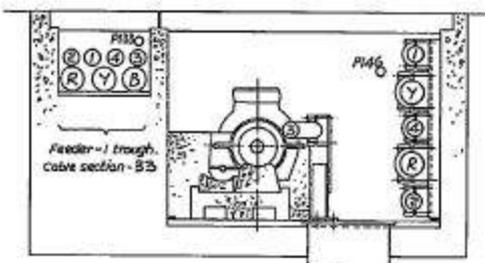
Layout of Straight Joint Bay - 33/34. Scale - 1:100



Section on Red Phase Joint.



Section on Yellow Phase Joint.
 Cross Sections Facing West Ham. Scale - 1:25.

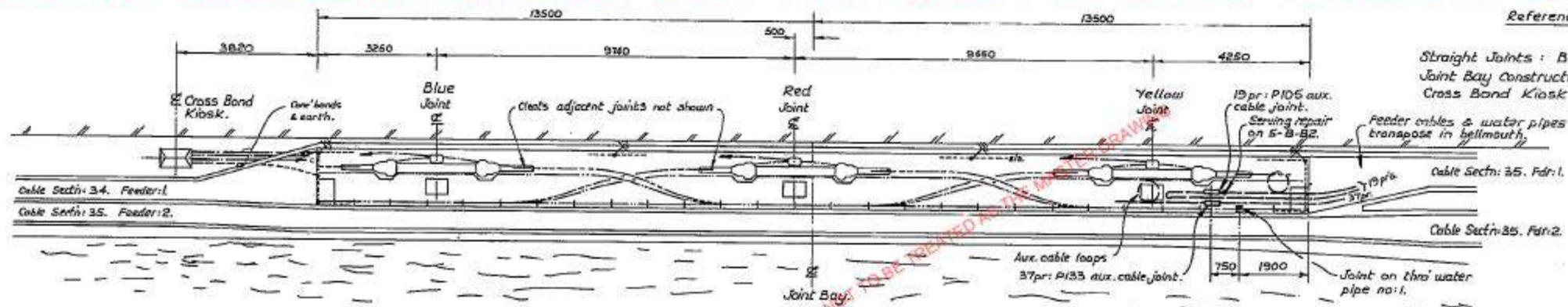


Section on Blue Phase Joint.

| Phase | Type of Cable. | Jointer. | Date. |
|-------|---|----------|---------|
| R | 400 kv. S.C. 2000 ² mm. oil filled, lead sheath. | D. Kerr. | 14-2-80 |
| Y | — | — | 11-2-80 |
| B | — | — | 6-2-80 |

| | Type of Cable. | Jointer. | Date. |
|------|--|--------------|---------|
| P146 | 37pc. 1/0.3mm. P.C. P.C. A.W.A. P.C. jelly filled. | J. Kerridge. | 28-8-80 |

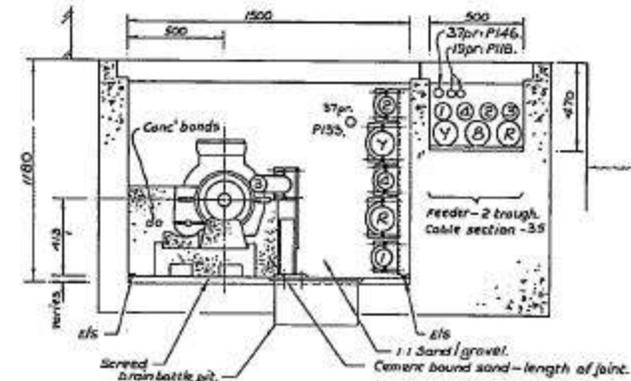
70/3620 SHT 109



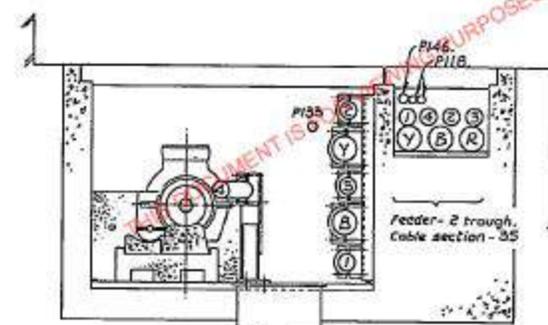
Reference Drawings:

- Straight Joints : B.I.C.C. : E95480 - D1.
- Joint Bay Construction : C.E.G.B : 16/163/10 rev.B.
- Cross Bond Kiosk : E9034B - D3.

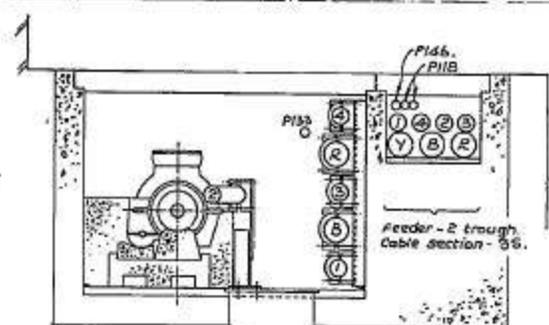
Layout of Straight Joint Bay ~ 34/35, Scale - 1:100



Section on Blue Phase Joint.



Section on Red Phase Joint.

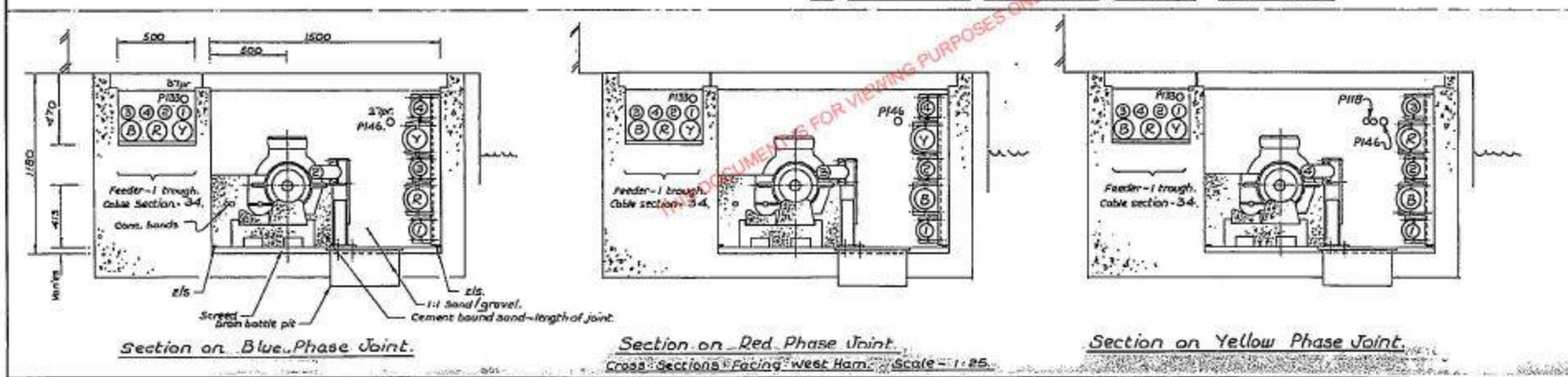
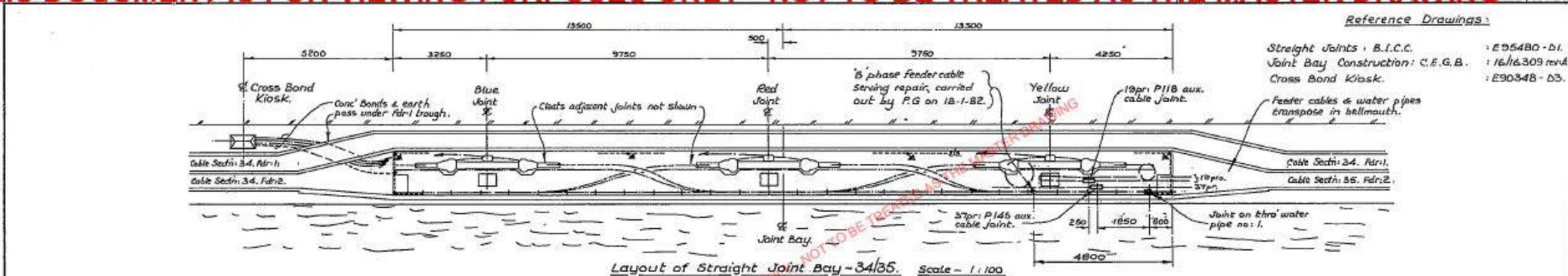


Section on Yellow Phase Joint.

Cross Sections Facing West Ham, Scale - 1:25.

| Jointing Details ~ Feeder Cables. | | | |
|-----------------------------------|---|---------------|-----------|
| Phase | Type of Cable. | Jointer | Date |
| R | 400 kv. B.C. 2000 ² mm. oil filled, lead sheath. | V. Stuchbury. | 20-11-81. |
| Y | — | — | 25-11-81. |
| B | — | — | 17-11-81. |

| Jointing Details ~ Auxiliary Cables. | | | |
|--------------------------------------|---|---------------|----------|
| | Type of Cable | Jointer | Date. |
| P133 | 37pr. 1/0.9mm. Pe. Pe. AWA. Pe. jelly filled. | B. Mansfield. | 13-1-82. |
| P105 | 19pr. 1/0.9mm. Pe. Pe. AWA. Pe. jelly filled. | — | 14-1-82. |



Jointing Details ~ Feeder Cables.

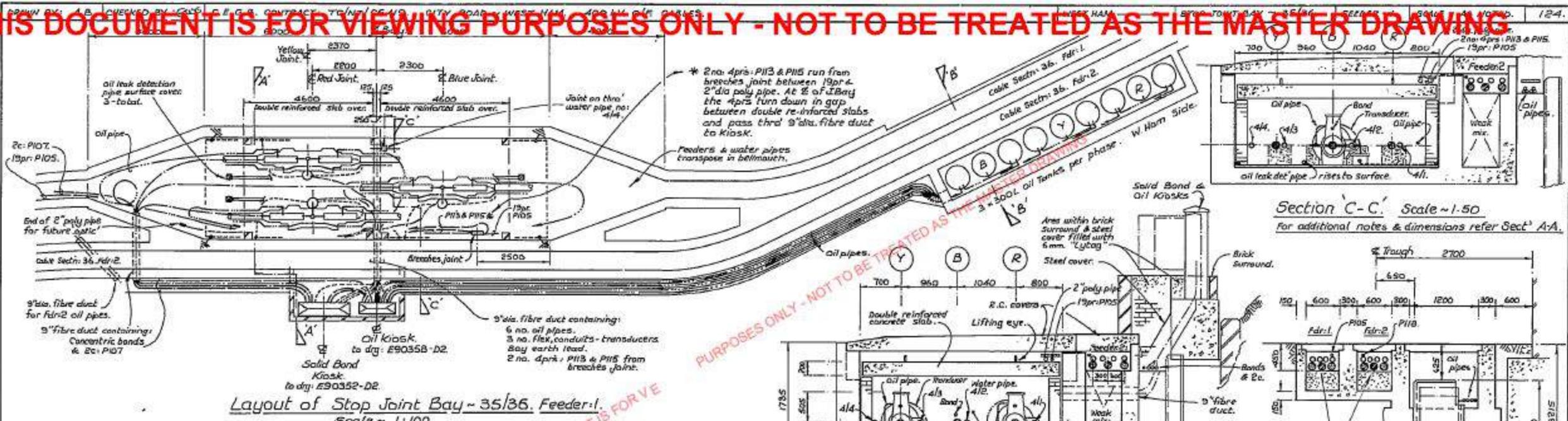
| Phase | Type of Cable. | Jointer. | Date. |
|-------|--|---------------|----------|
| R | 400 kv. S.C. 2000 mm. all filled. Lead sheath. | V. Stuchbury. | 4-12-81. |
| Y | — | — | 1-12-81. |
| B | — | — | 9-12-81. |

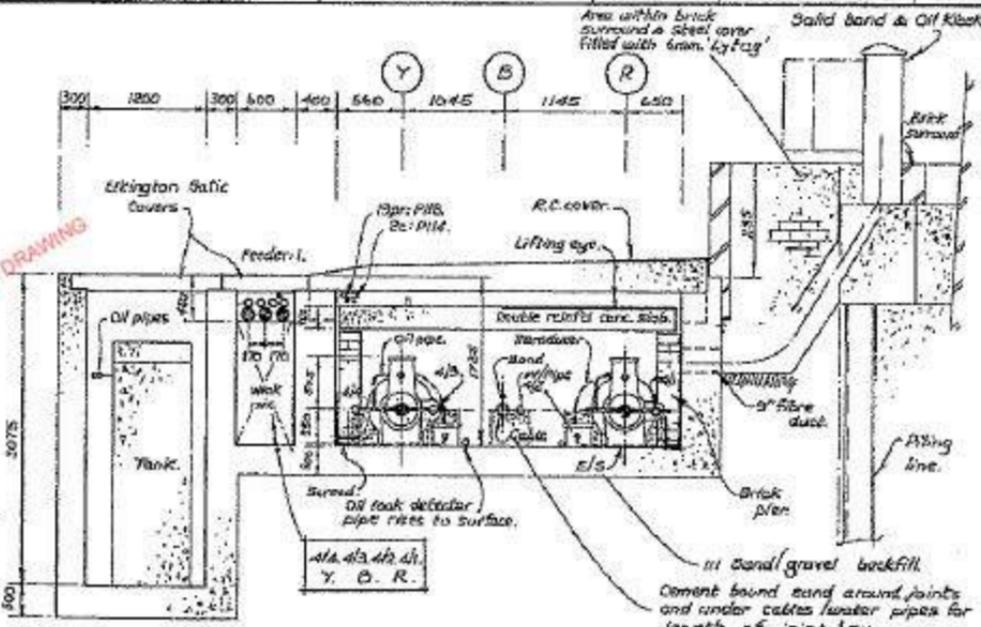
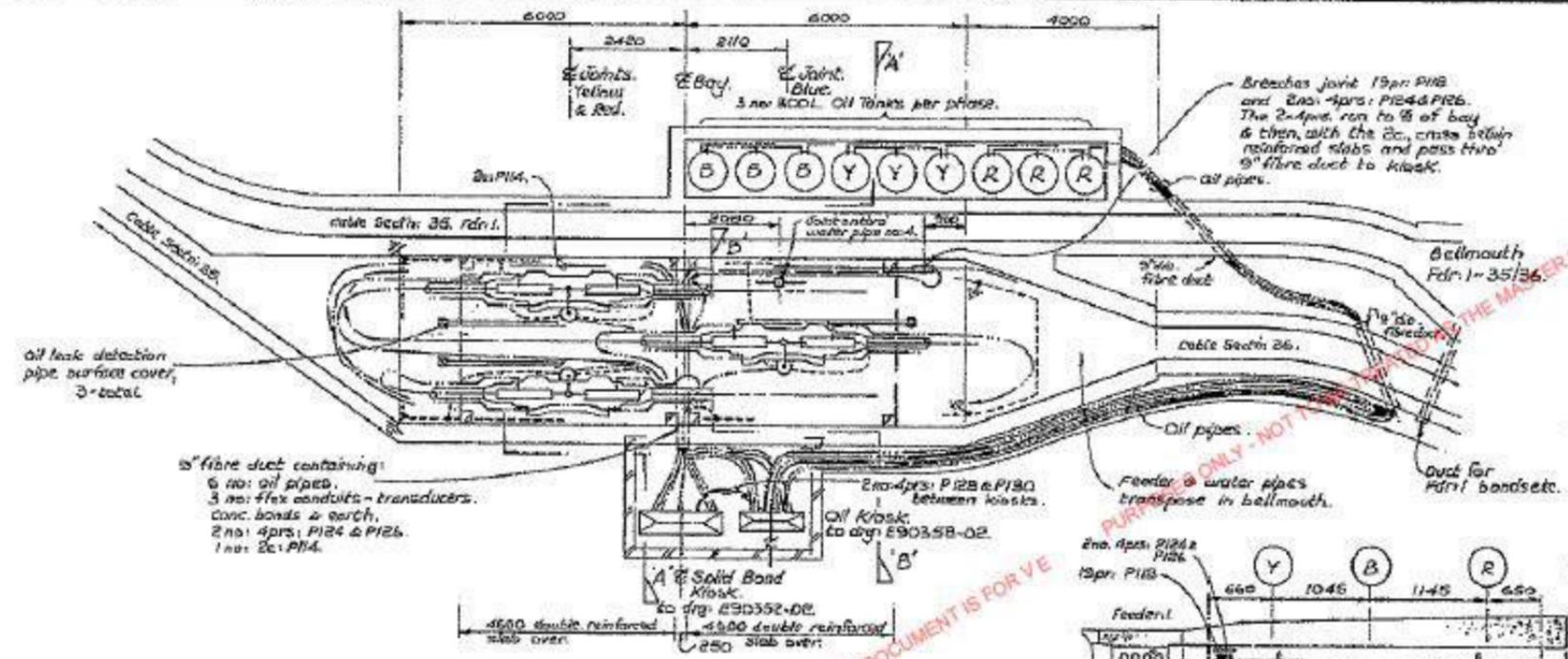
Jointing Details ~ Auxiliary Cables.

| | Type of Cable. | Jointer. | Date. |
|------|---|---------------|----------|
| P146 | 57pr. 110.9mm. Pz. Pe. AWA. Pe. jelly filled. | B. Mansfield. | 19-1-82. |
| P118 | 19pr. 110.9mm. Pe. Pe. AWA. Pe. jelly filled. | — | 23-1-82. |

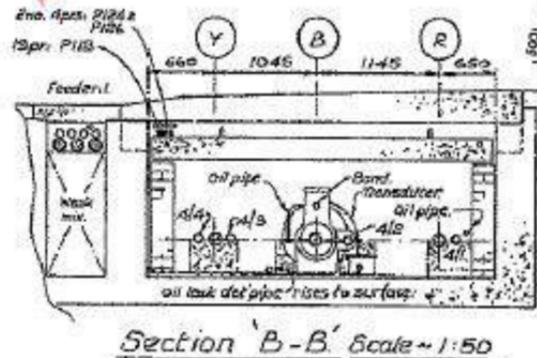
70/3620 SHT-114

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Layout of Stop Joint Bay - 35/36. Feeder-2. Scale - 1:100.



Section B-B' Scale - 1:50

Section A-A' Scale - 1:50
70/3620 SHT 126
Jointing Details

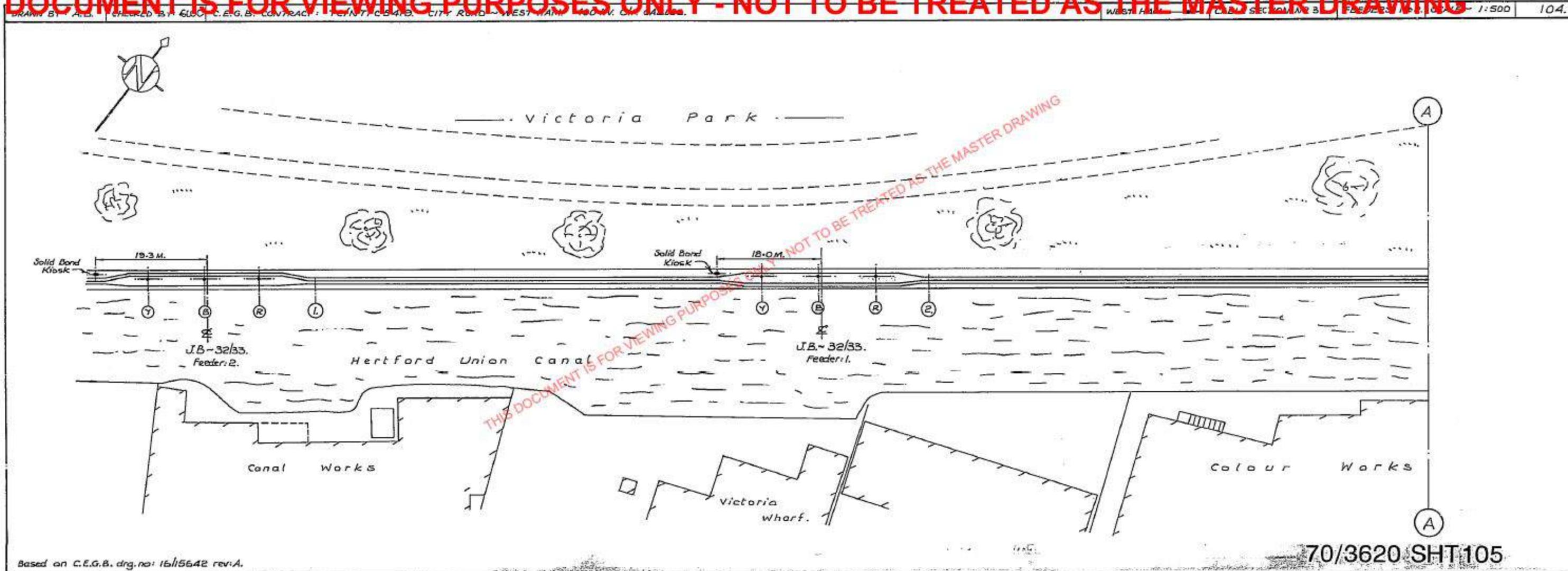
| Joint | Phase | Type of cable | Jointer | Date |
|--|-------|--|-------------------|----------|
| Firelli General Stop Joints to R.C. dry rot 26/05/81 | R. | 400 kv. S.C. 2000 ^{mm} . Oil filled, Lead Sheath. | R. A. Ferryhough. | 20-5-80 |
| | Y. | | R. A. Ferryhough. | 22-5-80 |
| | B. | | R. A. Ferryhough. | 4-6-80 |
| 19pr. 1/2 2pr. P118. 19pr. 1/2 2pr. P118. 19pr. 1/2 2pr. P118. | P118. | 19pr. 1/2 2pr. P118. 19pr. 1/2 2pr. P118. | M. Gardiner. | 11-11-81 |

Symbols Key.

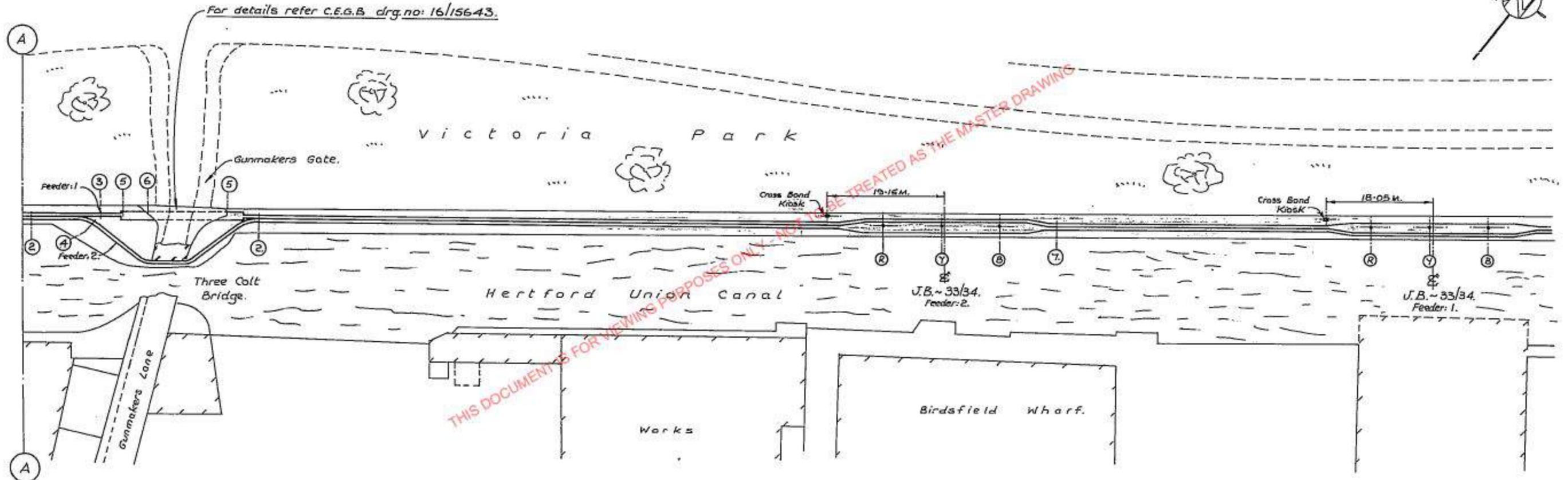
| | |
|--|------------------|
| | Feeder cable. |
| | Water pipe. |
| | Aux. cable. |
| | Earth. |
| | Oil pipe. |
| | Transducer lead. |
| | Conc. band. |

For additional notes & dimensions refer to Section A-A'

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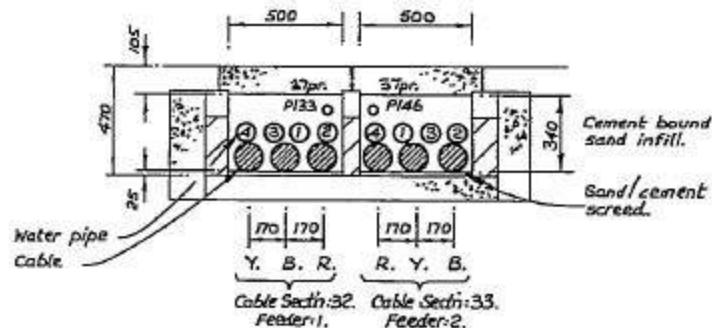
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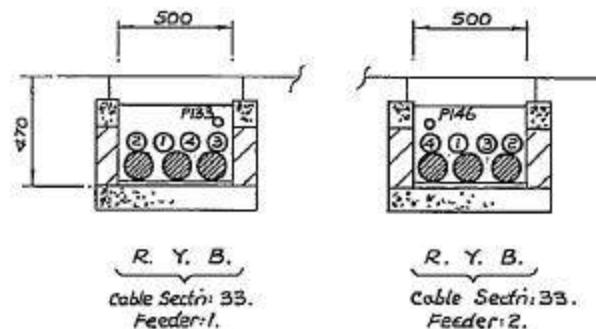
Based on C.E.G.B. drg.no: 16/15644.

70/3620 SHT 106

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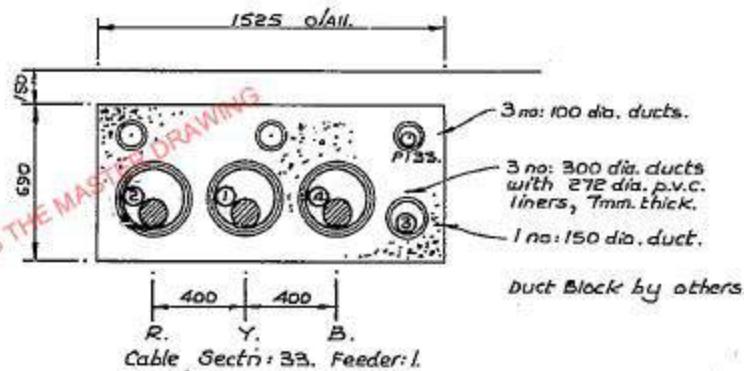


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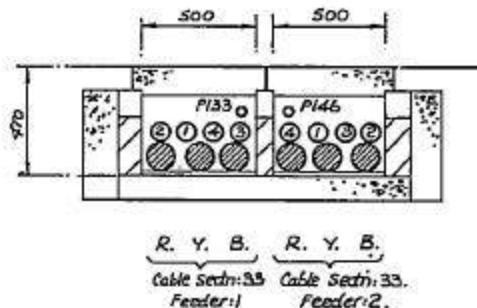
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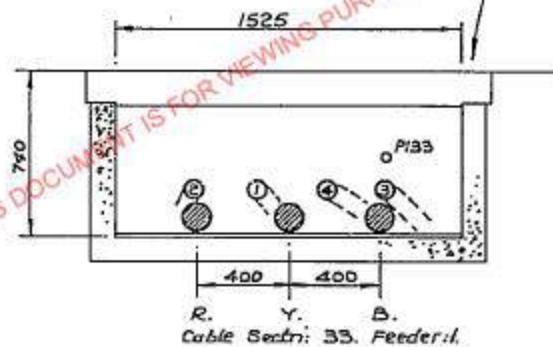


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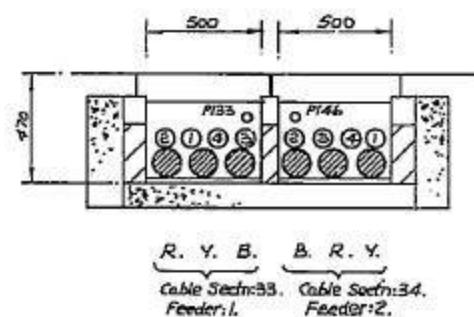
For construction details refer to C.E.G.B. drg. no: 16/15643



2.



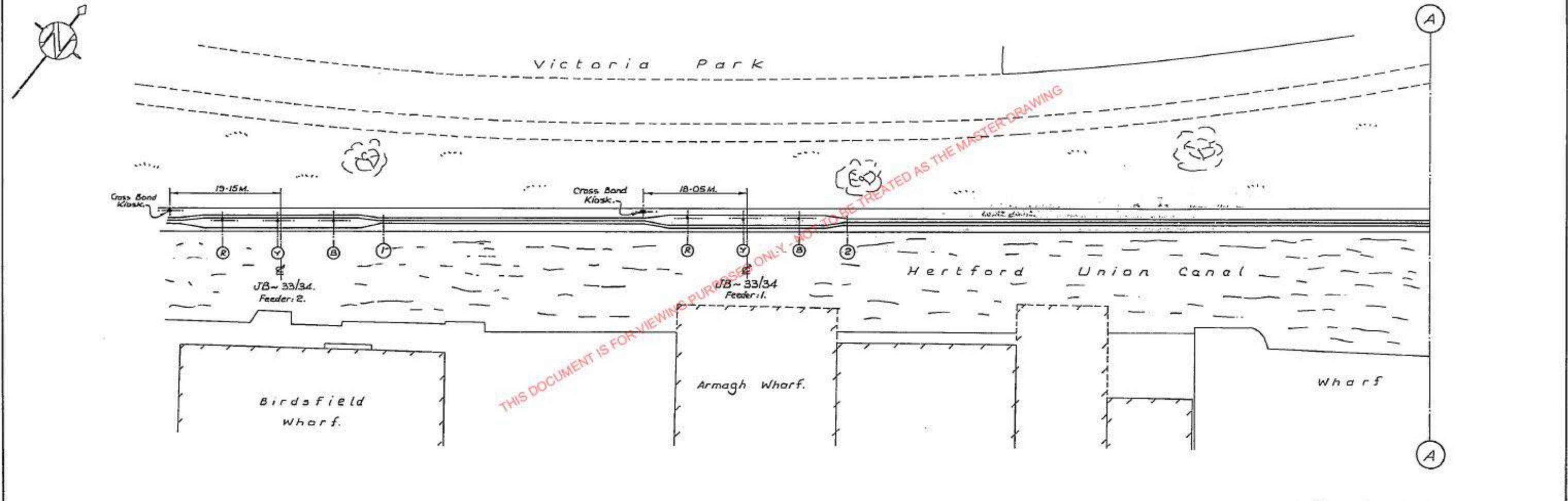
5.



7.

Trough construction & base screed by others.

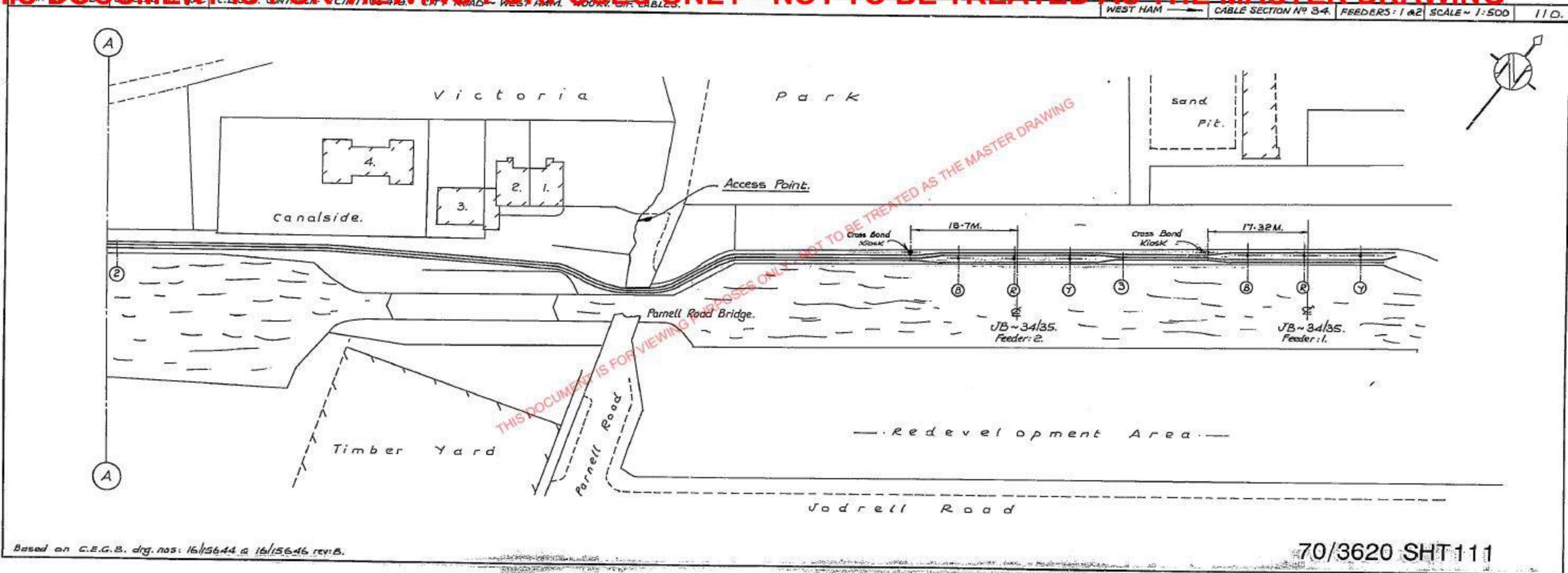
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Based on C.E.G.B. drg. no: 16/15644.

70/3620 SHT 110

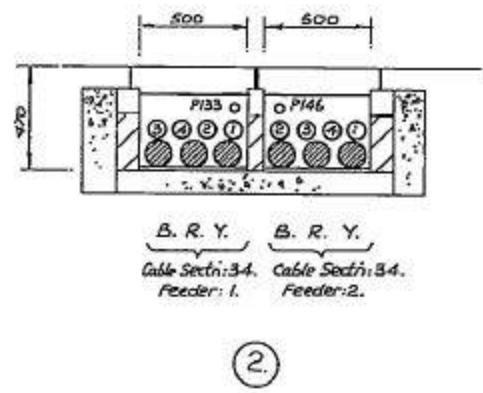
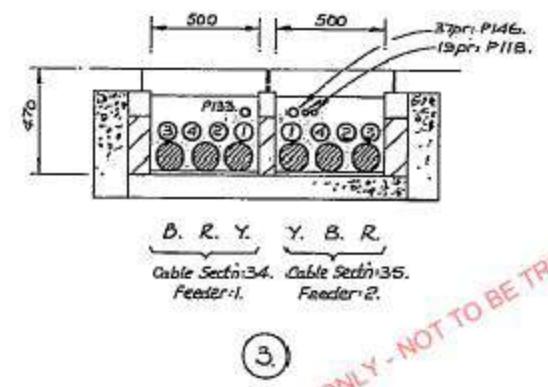
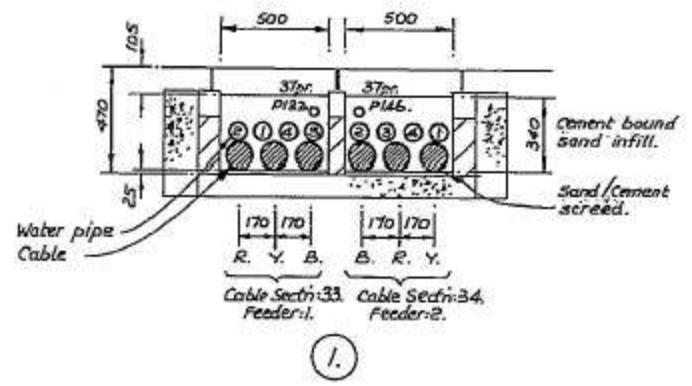
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Based on C.E.G.B. drg. nos: 16/15644 & 16/15646 rev: B.

70/3620 SHT 111

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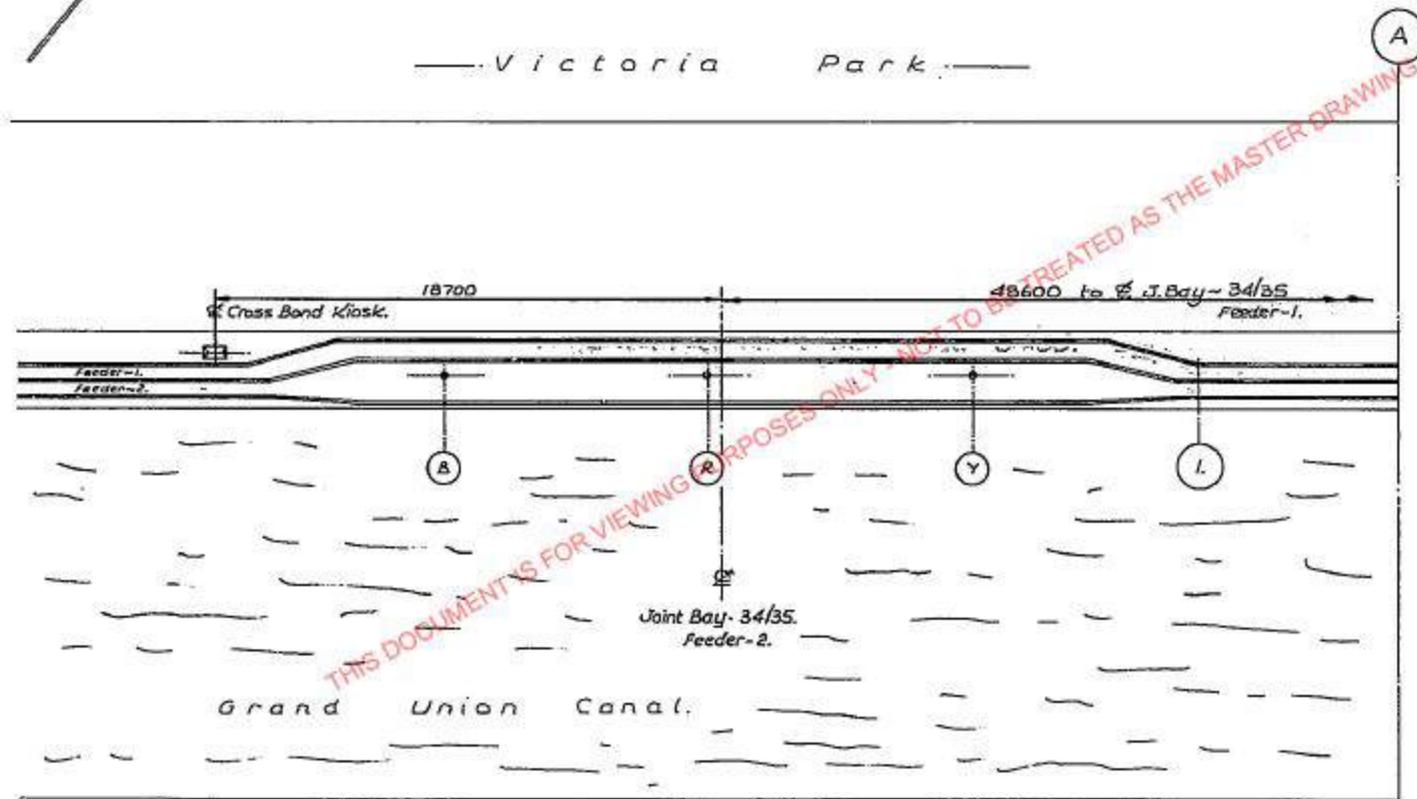
THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

Trough construction & base screed by others.

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

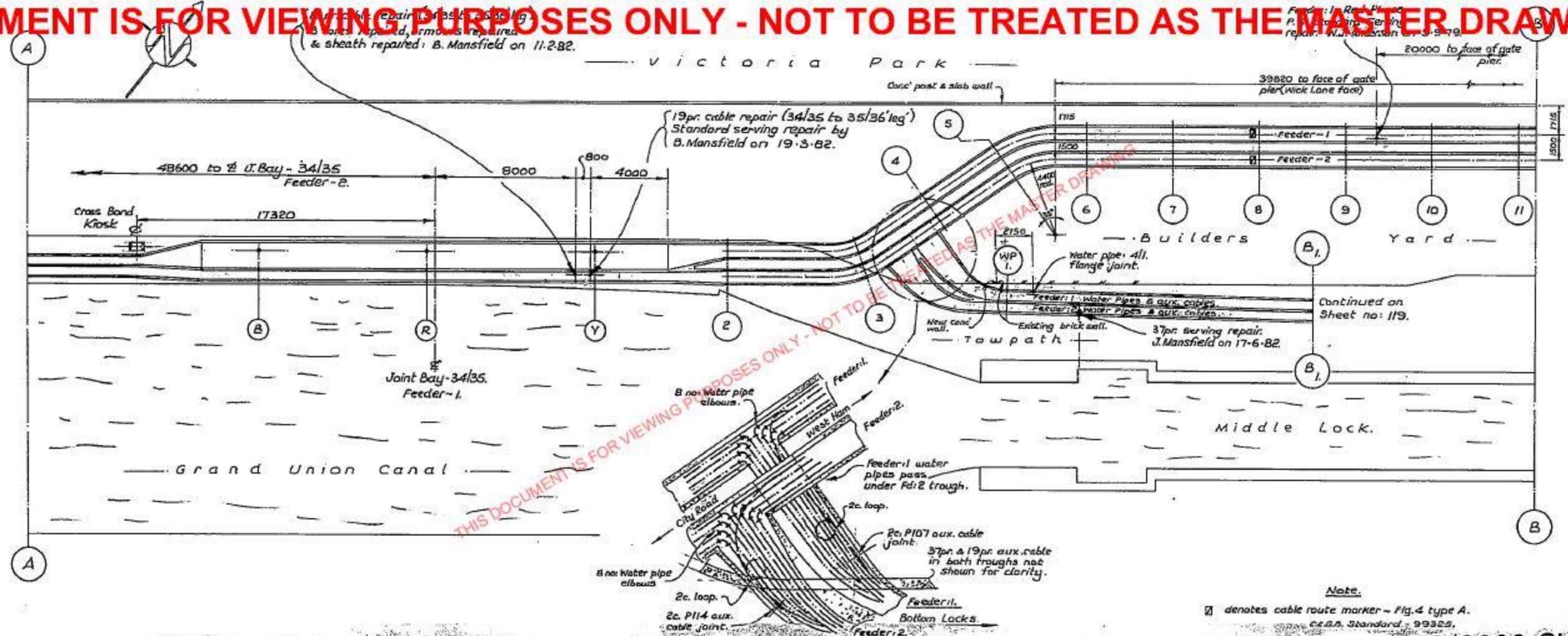


— Victoria Park —



THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

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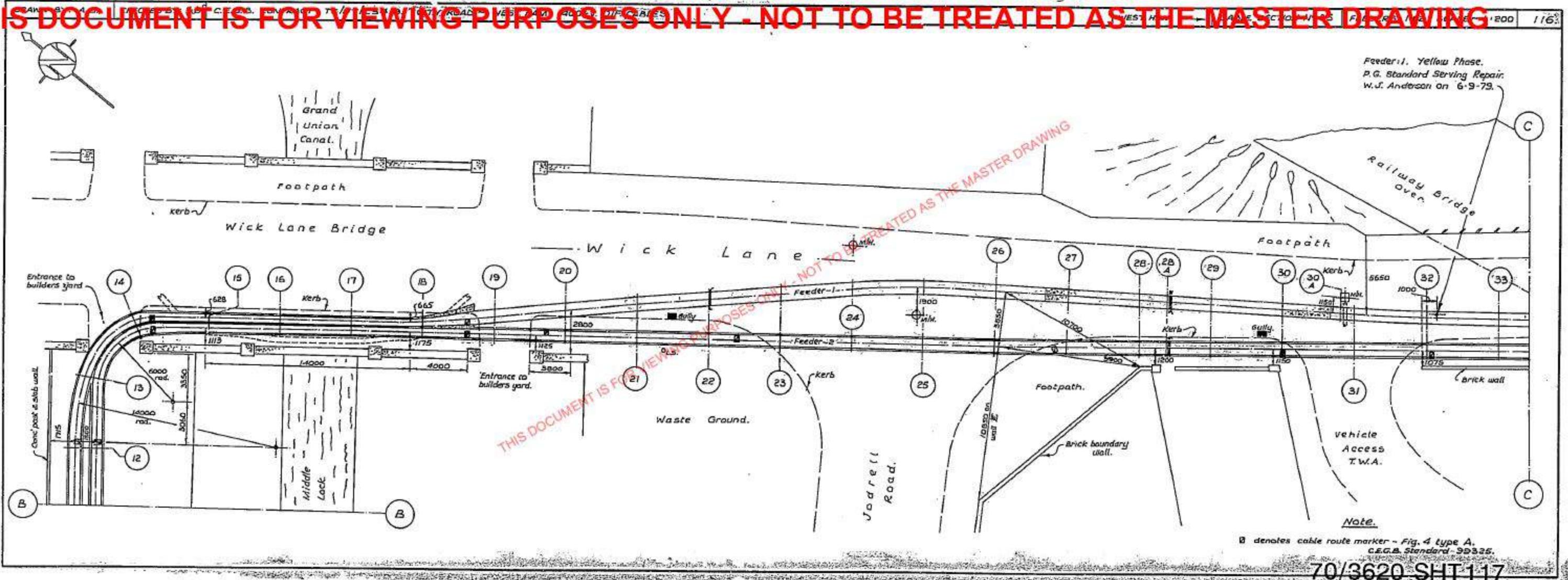


THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

Note:
□ denotes cable route marker - Fig. 4 type A.
C.E.G.B. Standard - 99329.

70/3620 SHT 116

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING



Feeder 1, Yellow Phase.
P.G. Standard Servicing Repair.
W.J. Anderson on 6-9-79.

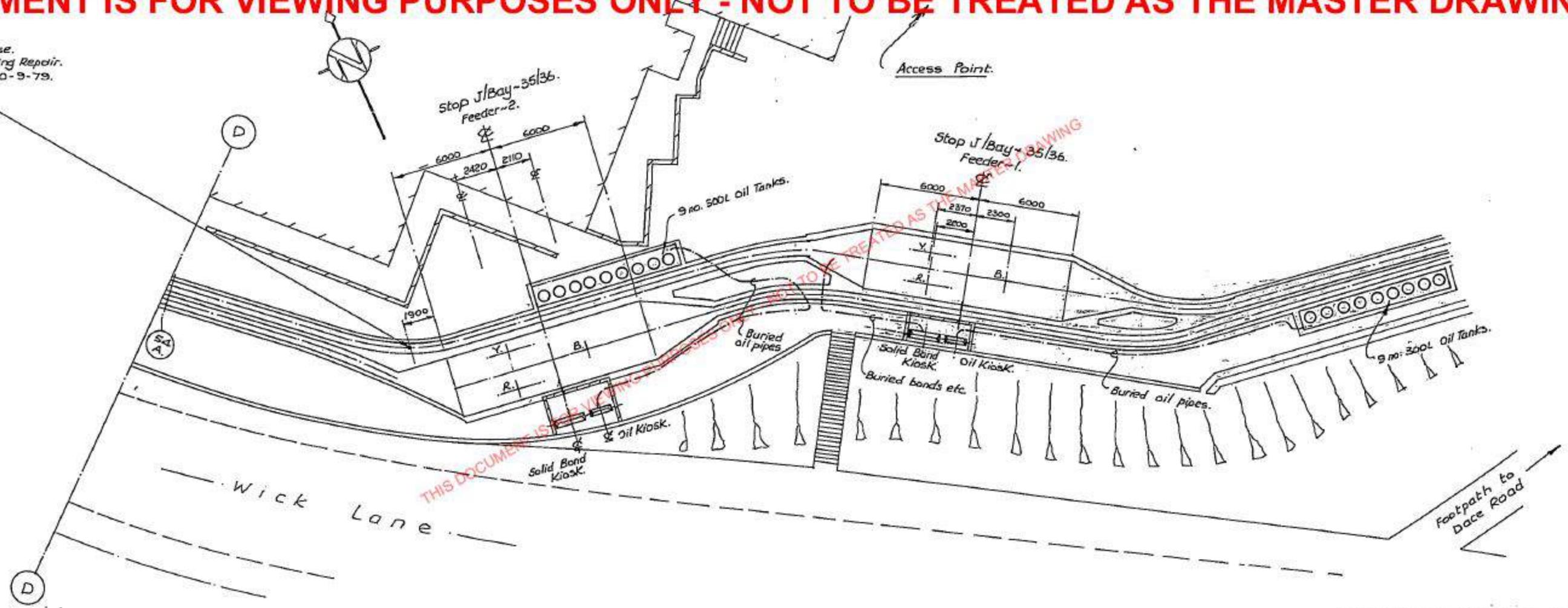
THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

Note.
Ø denotes cable route marker - Fig. 4 type A.
c.e.g.b. Standard 99325.

70/3620-SHT 117

THIS DOCUMENT IS FOR VIEWING PURPOSES ONLY - NOT TO BE TREATED AS THE MASTER DRAWING

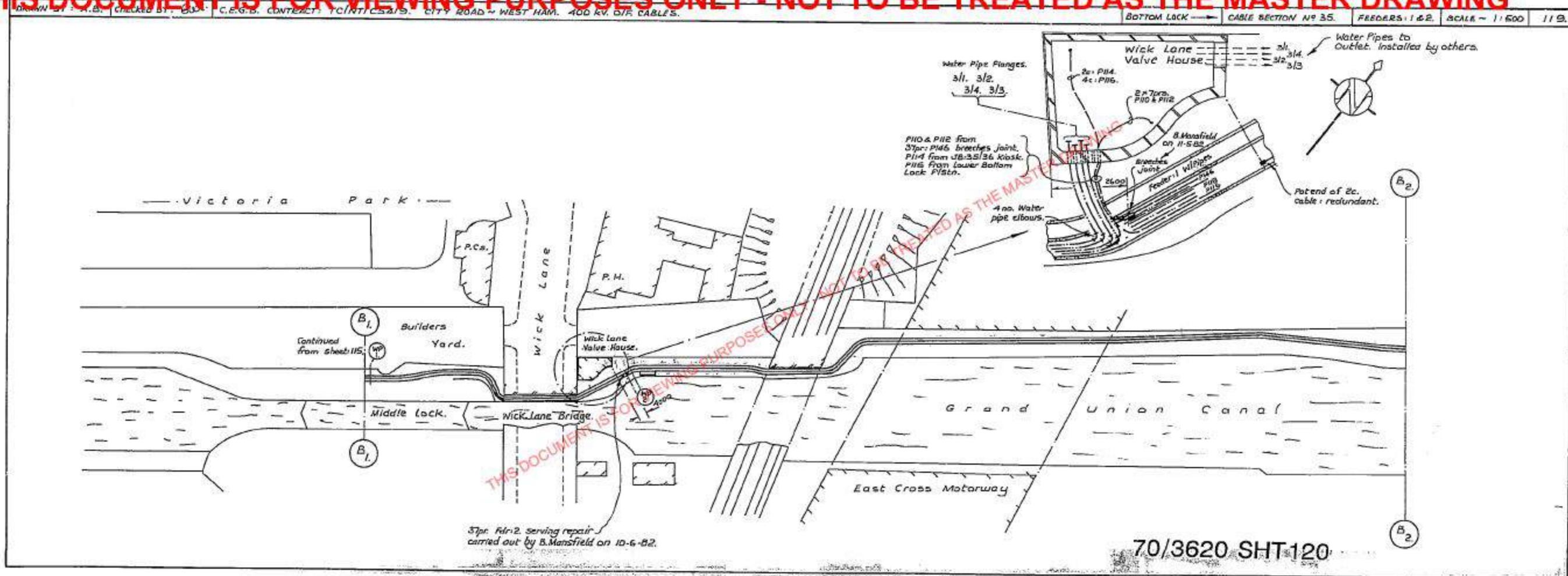
Feeder-1. Blue phase.
P.G. Standard Servicing Repair.
J. Anderson on 10-9-79.

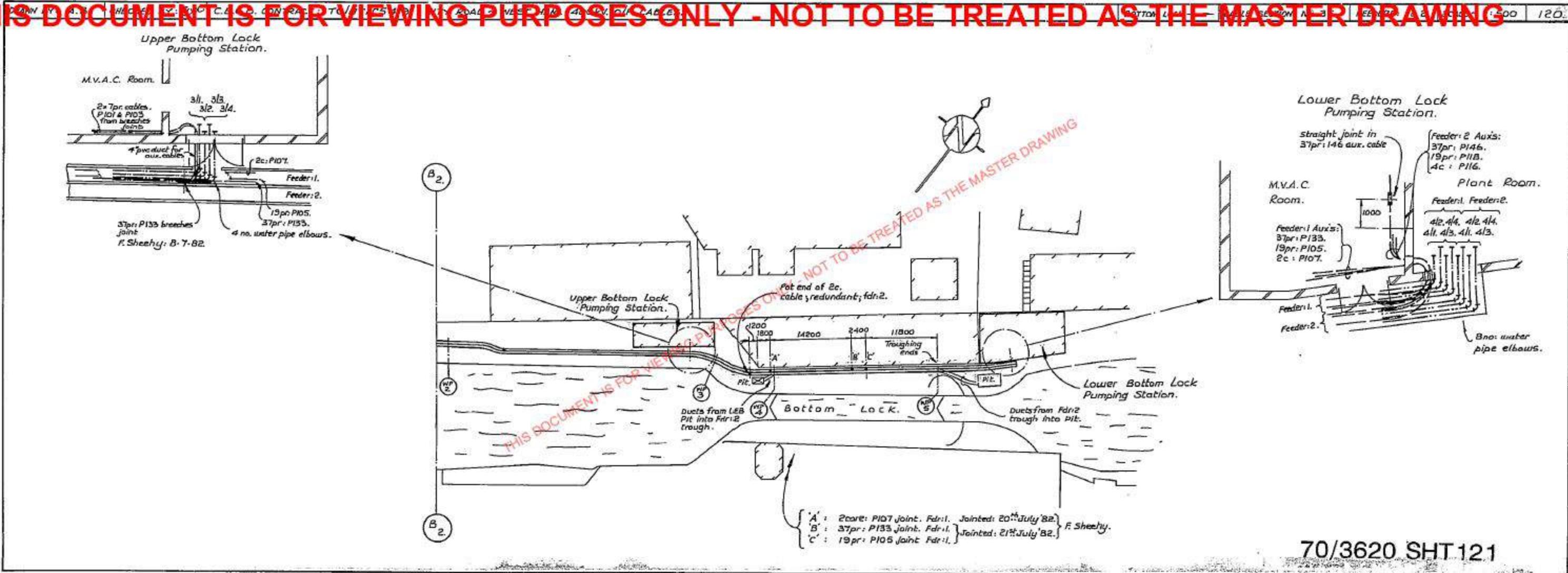


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70/3620 SHT 1/19

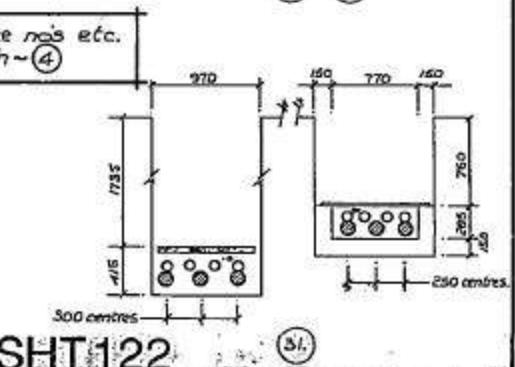
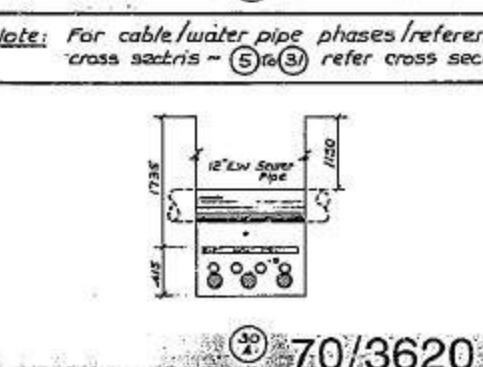
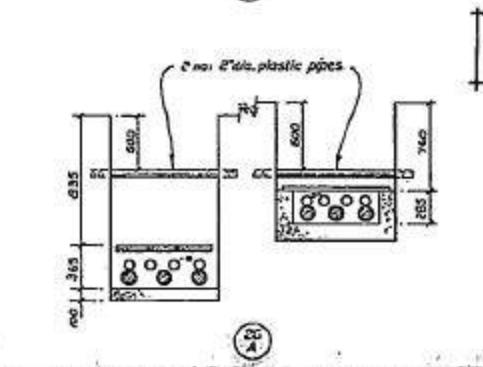
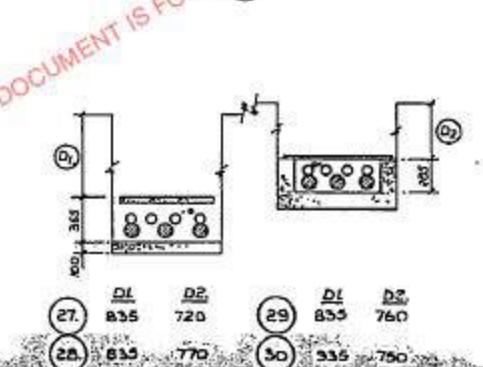
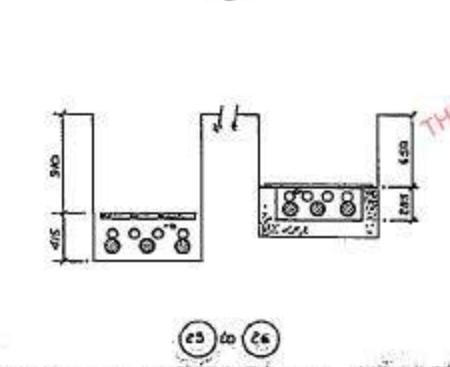
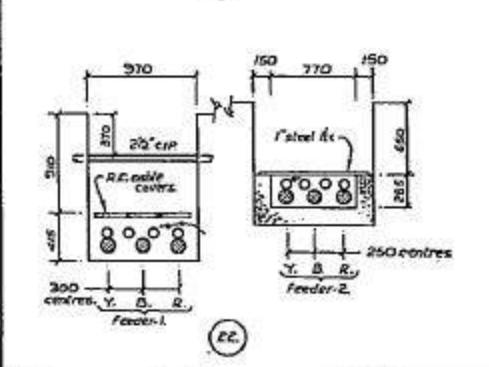
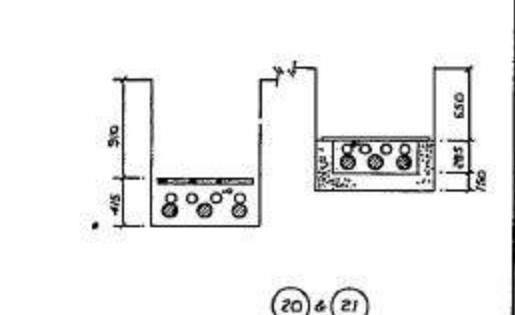
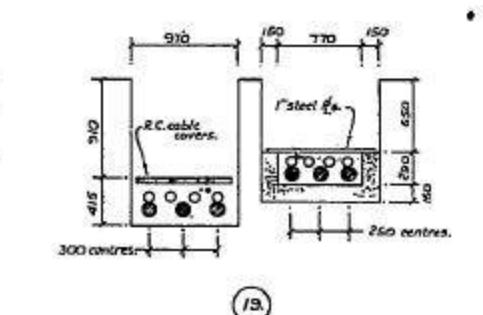
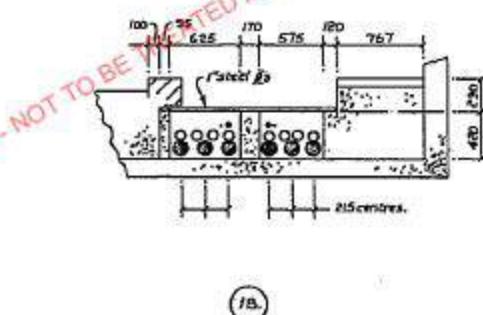
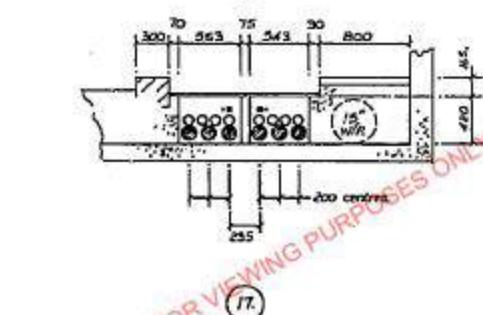
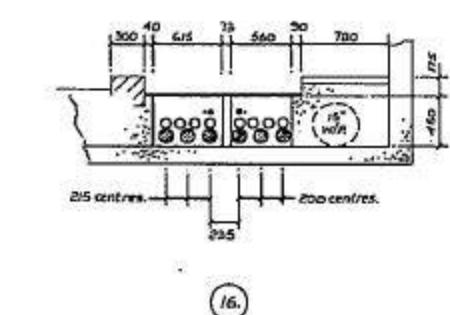
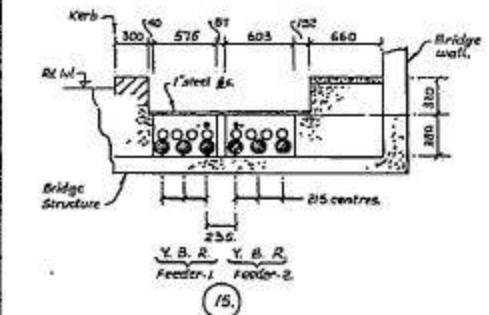
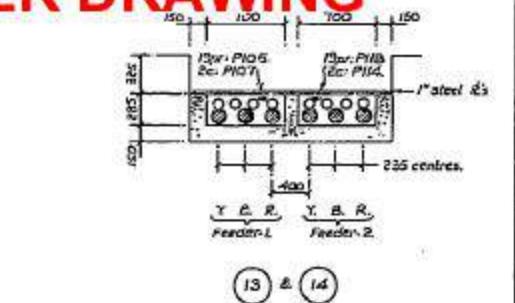
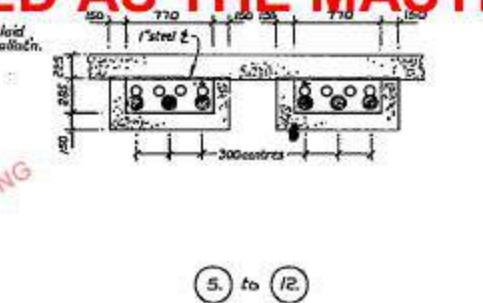
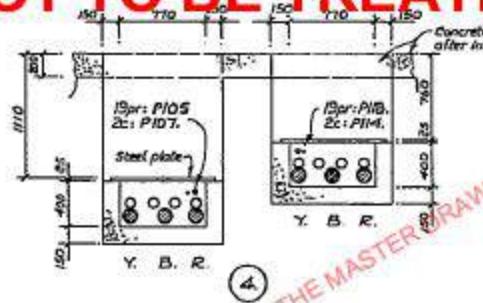
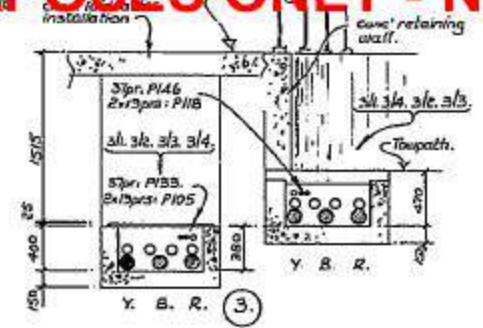
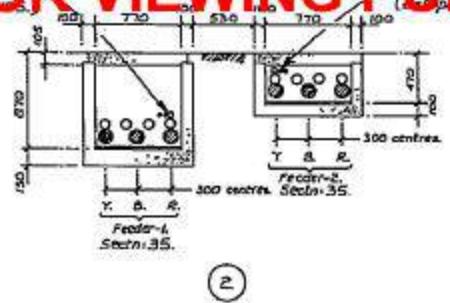
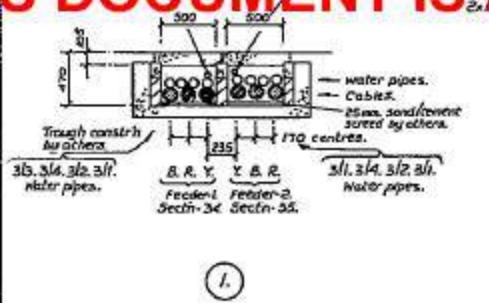
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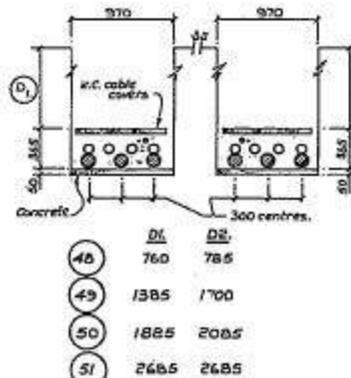
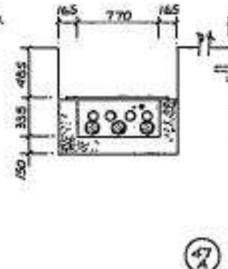
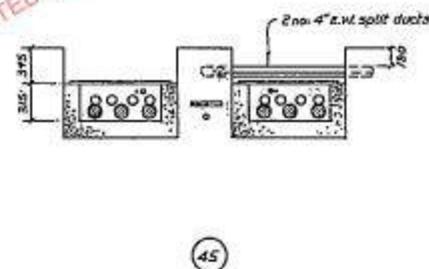
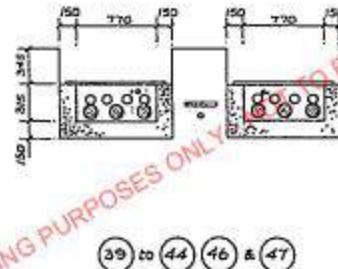
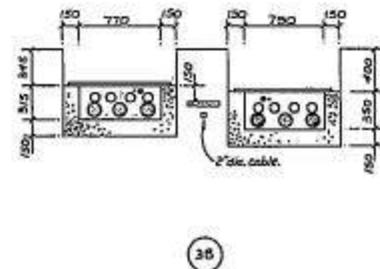
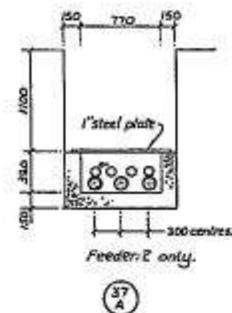
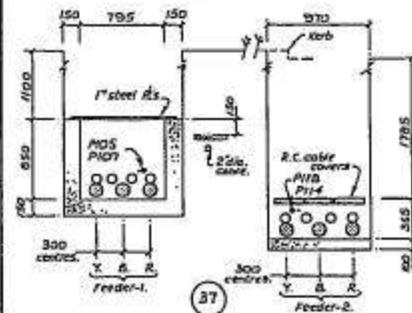
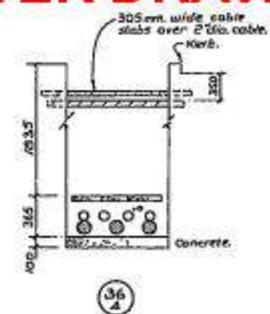
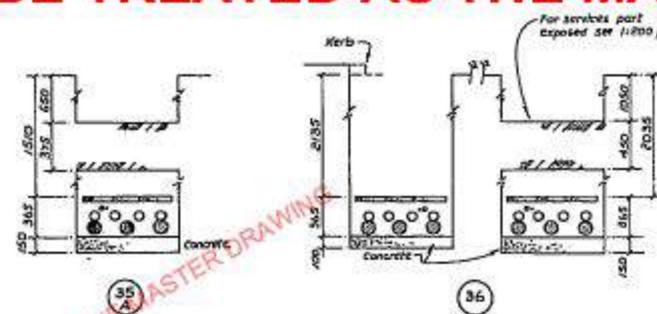
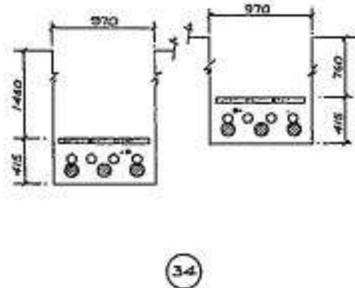
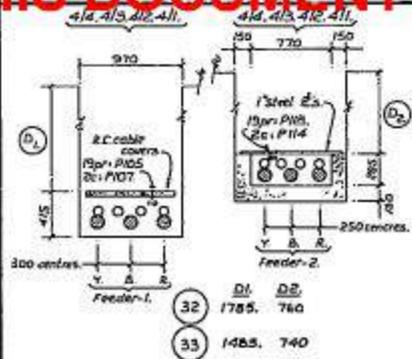


70/3620 SHT 121

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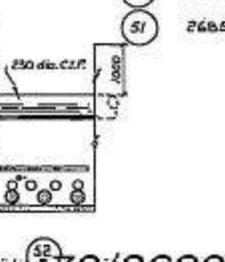
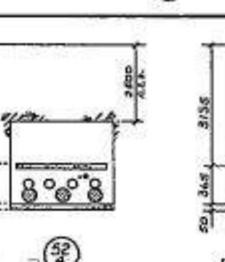
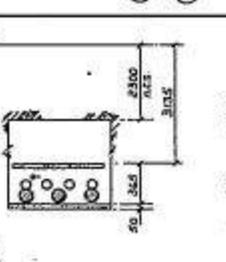
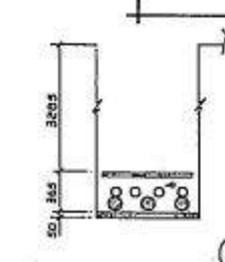
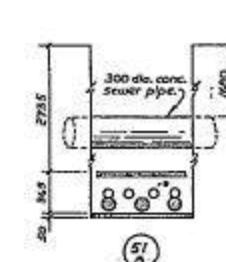
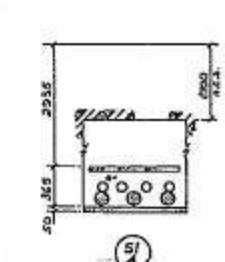
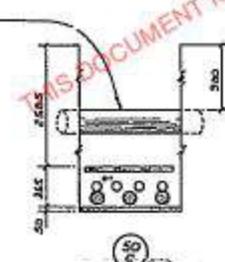
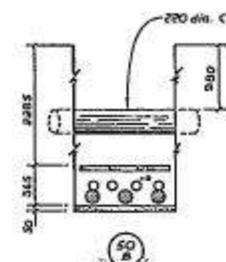
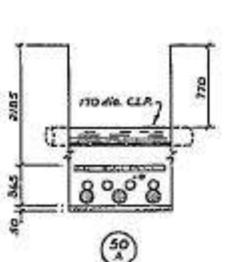
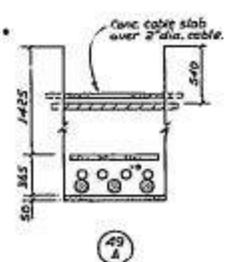


Note: For cable/water pipe phases/reference nos etc. cross sectns ~ (5) to (3) refer cross sectn ~ (4)

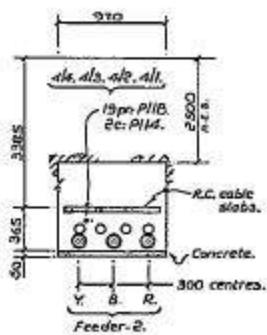


Note: For cable/water pipe phases/reference no's etc. cross sect'n's ~ 34 to 52 refer cross sect'n ~ 32

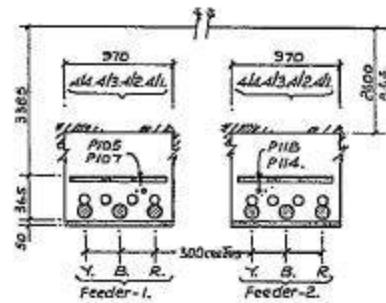
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|----|------|------|
| 48 | 760 | 785 |
| 49 | 1385 | 1700 |
| 50 | 1885 | 2085 |
| 51 | 2685 | 2685 |



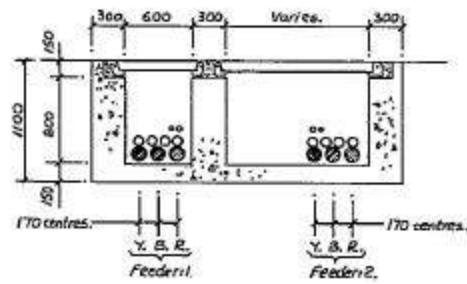
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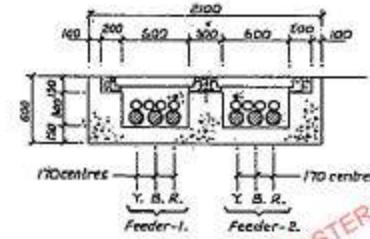
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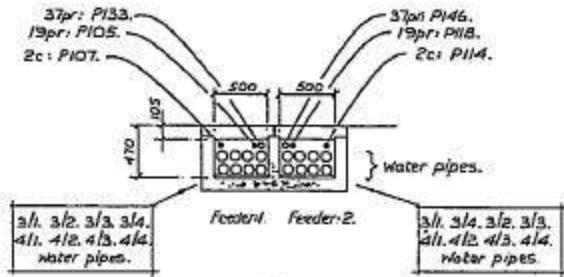
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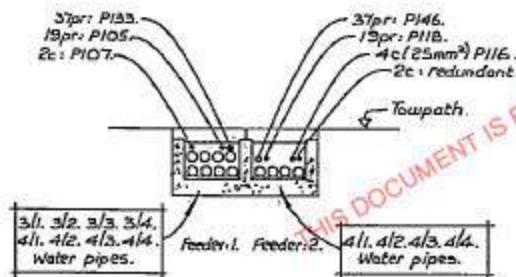
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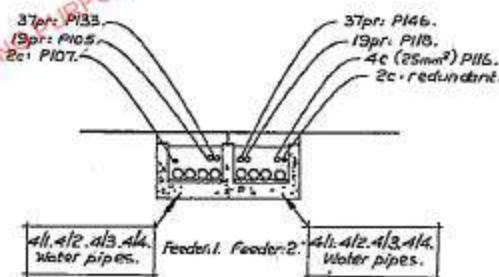
cable / water pipe details
as cross section: 53



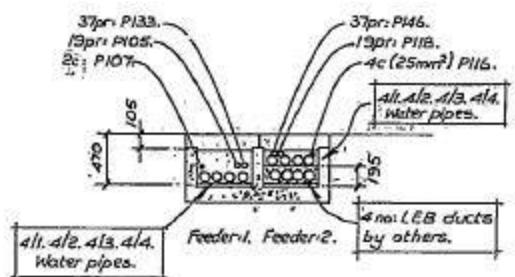
WP 1



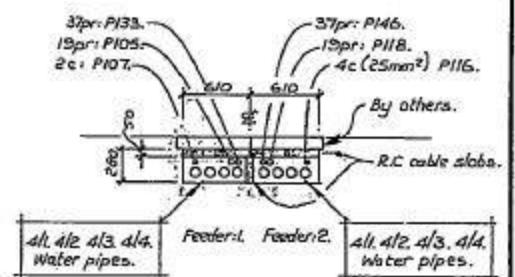
WP 2



WP 3



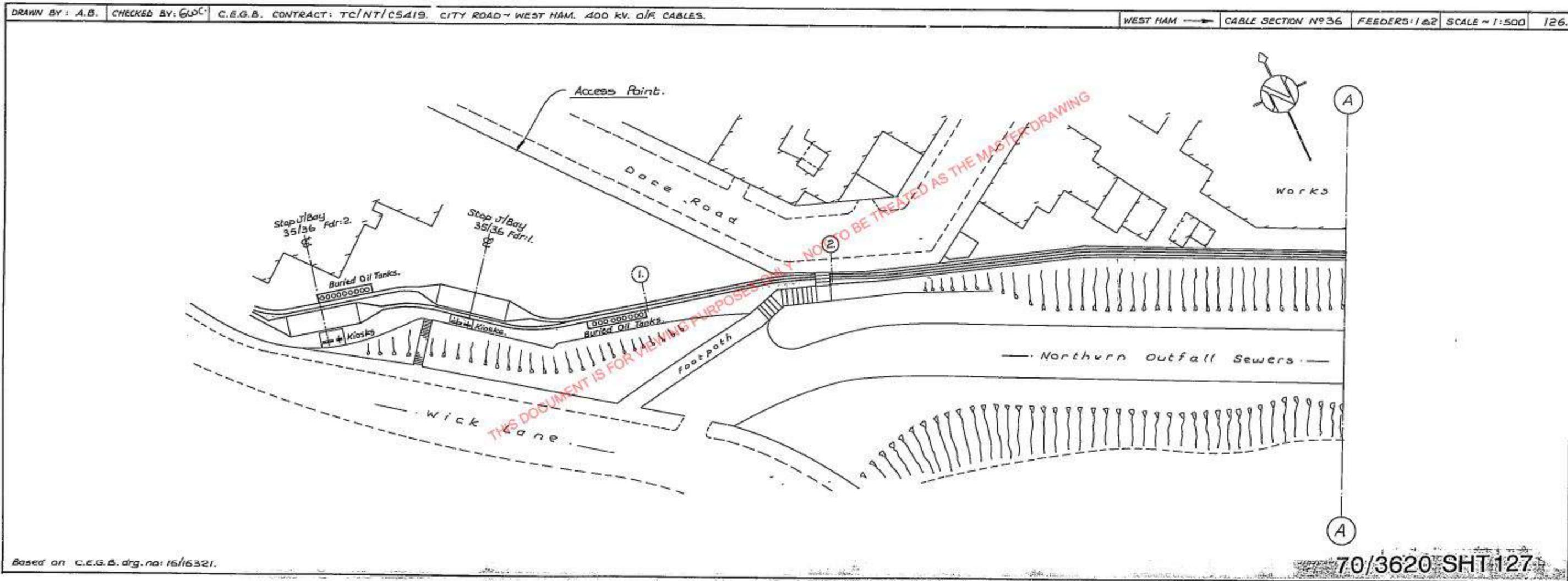
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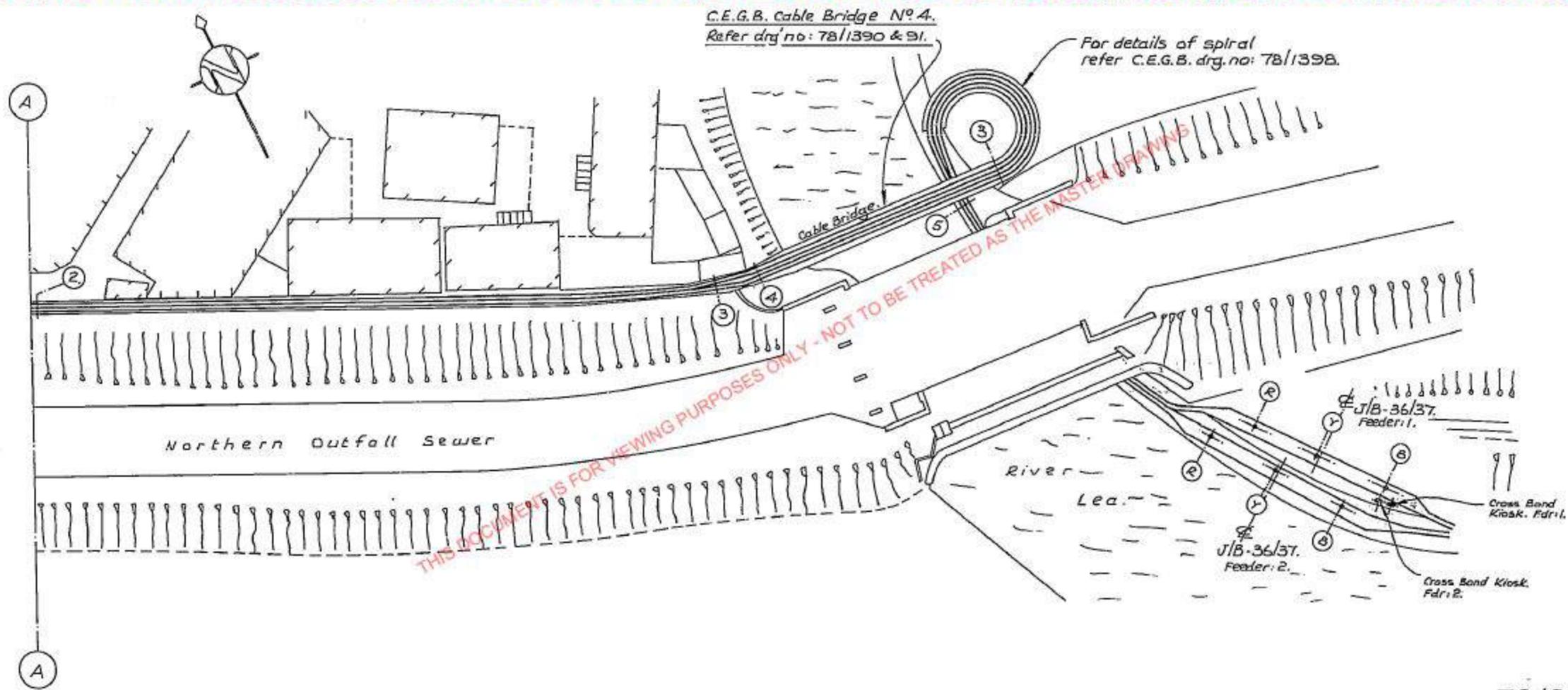
WP 5

cable Troughing etc. for Water Pipe & Aux. cables
only from Builders Yard to Lower Bottom Lock.

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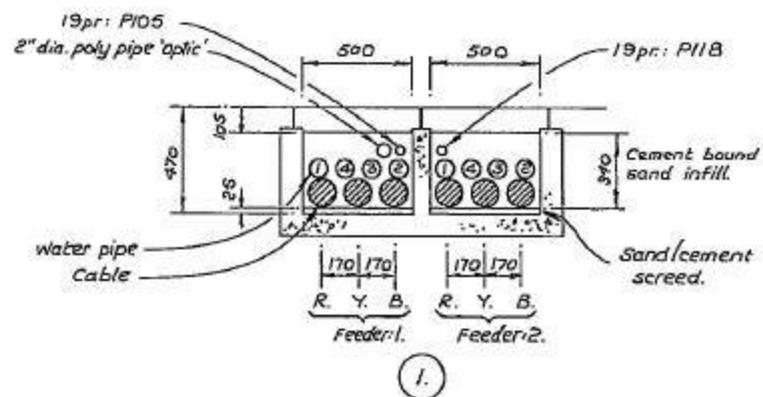
Based on C.E.G.B. org. no: 16/16321.



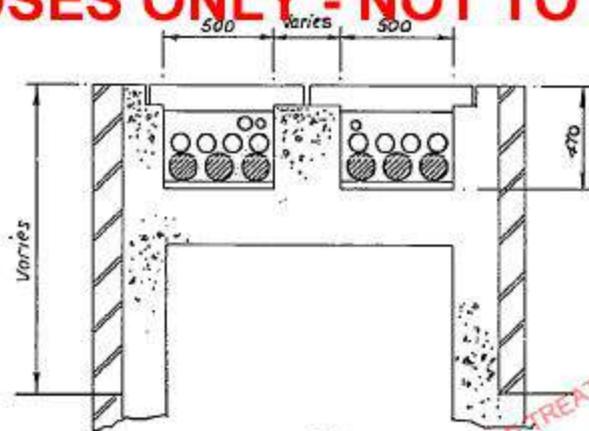
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70/3620 SHT 128

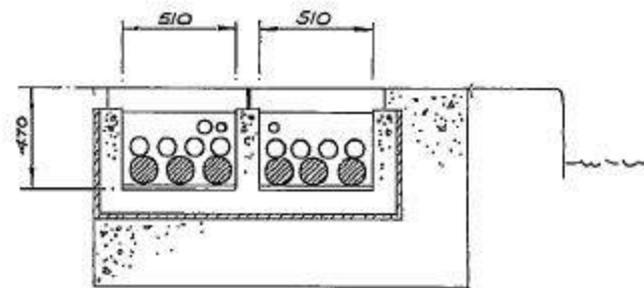
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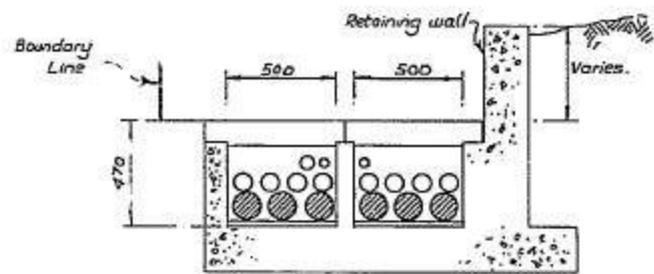
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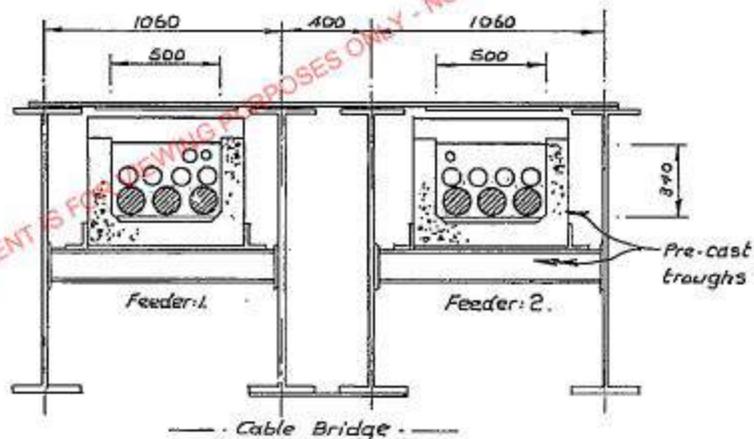
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5.



2.



4. C.E.G.B. cable Bridge N° 4.
Refer drg. no: 78/1390 & 91.

Note: For cable/water pipe phases/reference nos etc on cross sectns ② to ⑤ refer cross sectn: ①

Trough construction & base screed by others.

70/3620 SHT 129

Dear Sir/Madam,

Thank you for submitting your recent plant enquiry.

Based on the information provided, I can confirm that Energetics **does not** have any plant within the area(s) specified in your request.

Please be advised that it may take around 10 working days to process enquiries. In the unlikely event that you have been waiting longer than 10 working days, or require further assistance with outstanding enquiries, please call.

Please ensure all plant enquiries are sent to

Regards

From: utility.reports@emapsite.com [mailto:utility.reports@emapsite.com]

Sent: 11 March 2015 10:26

To: Plant Enquiries

Subject: Plant Location Request EMS00347 Site at GROWING CONCERNS GARDEN CENTRE, 2, WICK LANE, N/A, N/A, E3 2NA

RE: GROWING CONCERNS GARDEN CENTRE, 2, WICK LANE, N/A, N/A, E3 2NA

Location: OSGB: 536905.000,184116.200

Our Reference: EMS00347

Utility Reports

From:
Sent:
To:
Subject:
Attachments:

24/03/2015

LinesearchbeforeUdig Ref: 6601423
Your Ref: EMS00347

Dear Sir/Madam,

Further to your enquiry received on 24/03/2015 09:19:12 AM 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 network close to the area of interest.

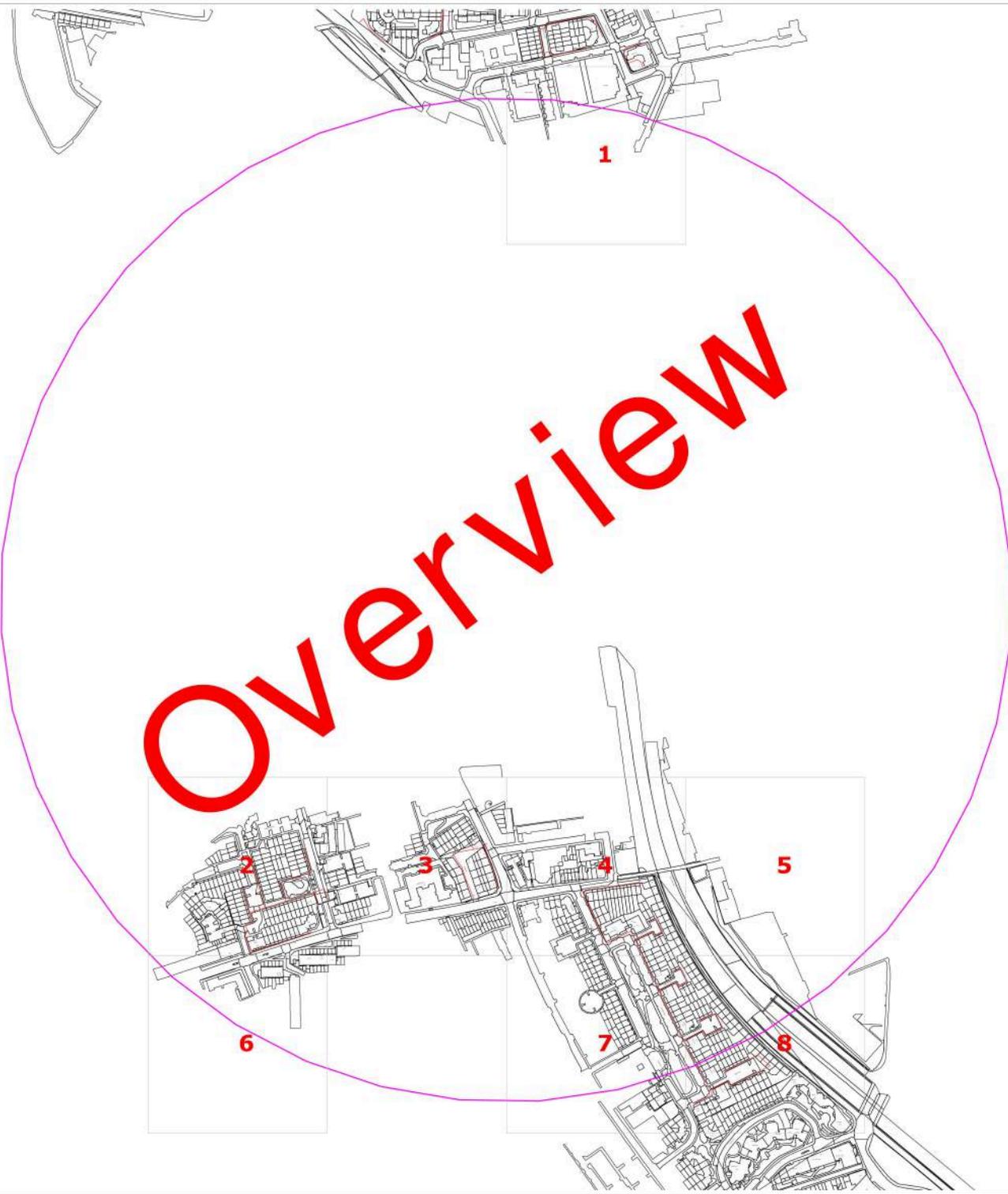
As your plans for the proposed work develop you are required to keep ESP regularly updated about the extent and nature of your proposed works in order for us to fully establish whether any additional precautionary or diversionary works are necessary to protect our gas network.

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>

Overview



Date Requested: 24/03/2015
Requested by: Stephen Sawyer
Job Reference: 6601423

Company: Technics Group
Your Scheme/Reference: EMS00347



Key for Mains & Service Pipework



Existing LP mains or services operating up to 75 millibar gauge



Existing MP mains or services operating between 75 millibar and 2 bar gauge



Existing IP mains or services operating between 2 bar and 7 bar gauge

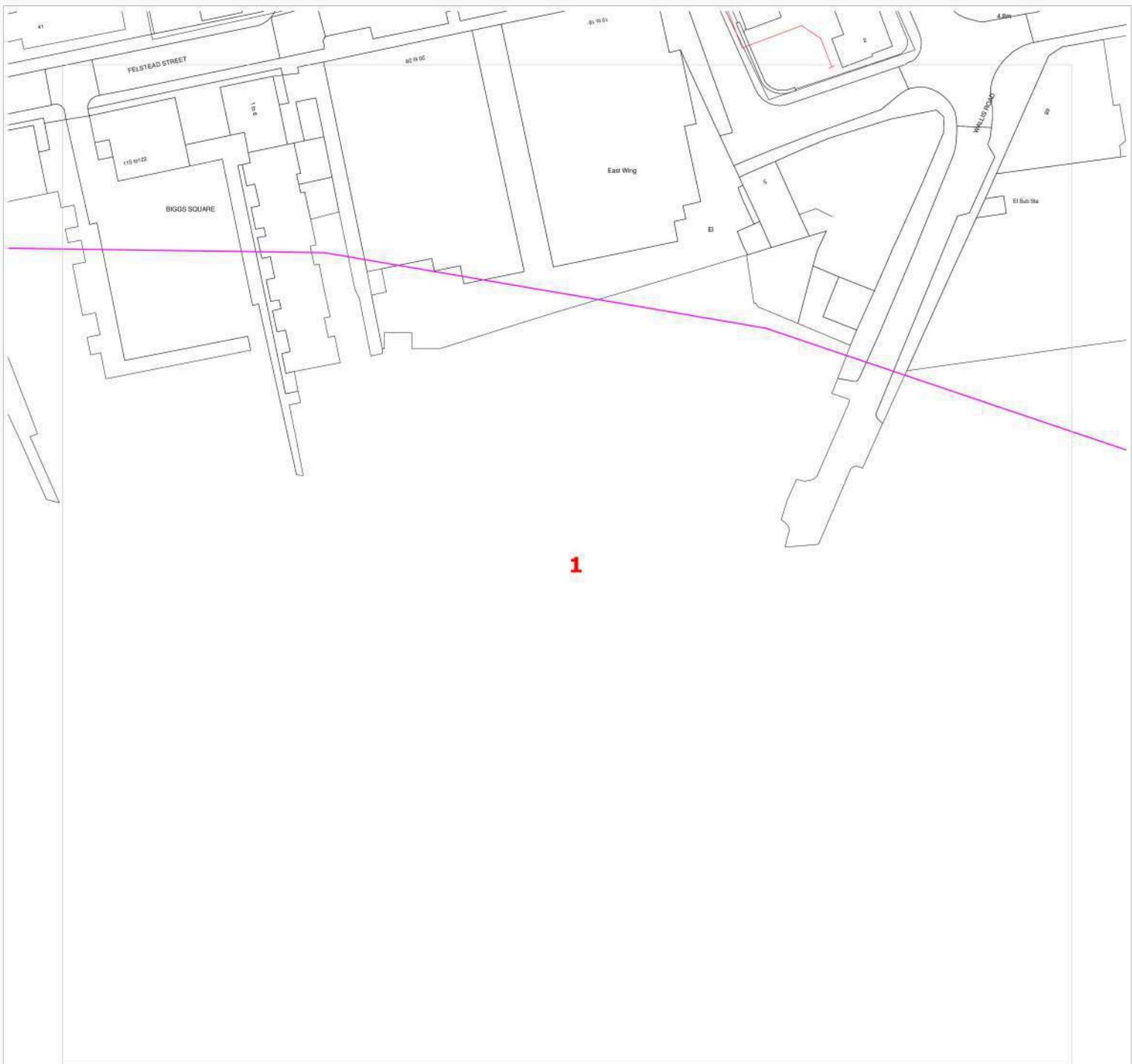
Whilst ESP Utilities Group Ltd (ESP) try to ensure the asset information we provide is accurate, the information is provided Without Prejudice and ESP accept no liability for claims arising from any inaccuracy, omissions or errors contained in this response. The actual position of underground services must be verified and established on site before any mechanical plant is used. Authorities and contractors will be held liable for the full cost of repairs to ESP apparatus and all claims made against them by Third parties as a result of any interference or damage.

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Dig Sites:

Area Line

Approx scale on A4 paper: 1:1000
(excluding Overview map)



Date Requested: 24/03/2015
 Requested by: Stephen Sawyer
 Job Reference: 6601423

Company: Technics Group
 Your Scheme/Reference: EMS00347

Key for Mains & Service Pipework



Existing LP mains or services operating up to 75 millibar gauge



Existing MP mains or services operating between 75 millibar and 2 bar gauge



Existing IP mains or services operating between 2 bar and 7 bar gauge



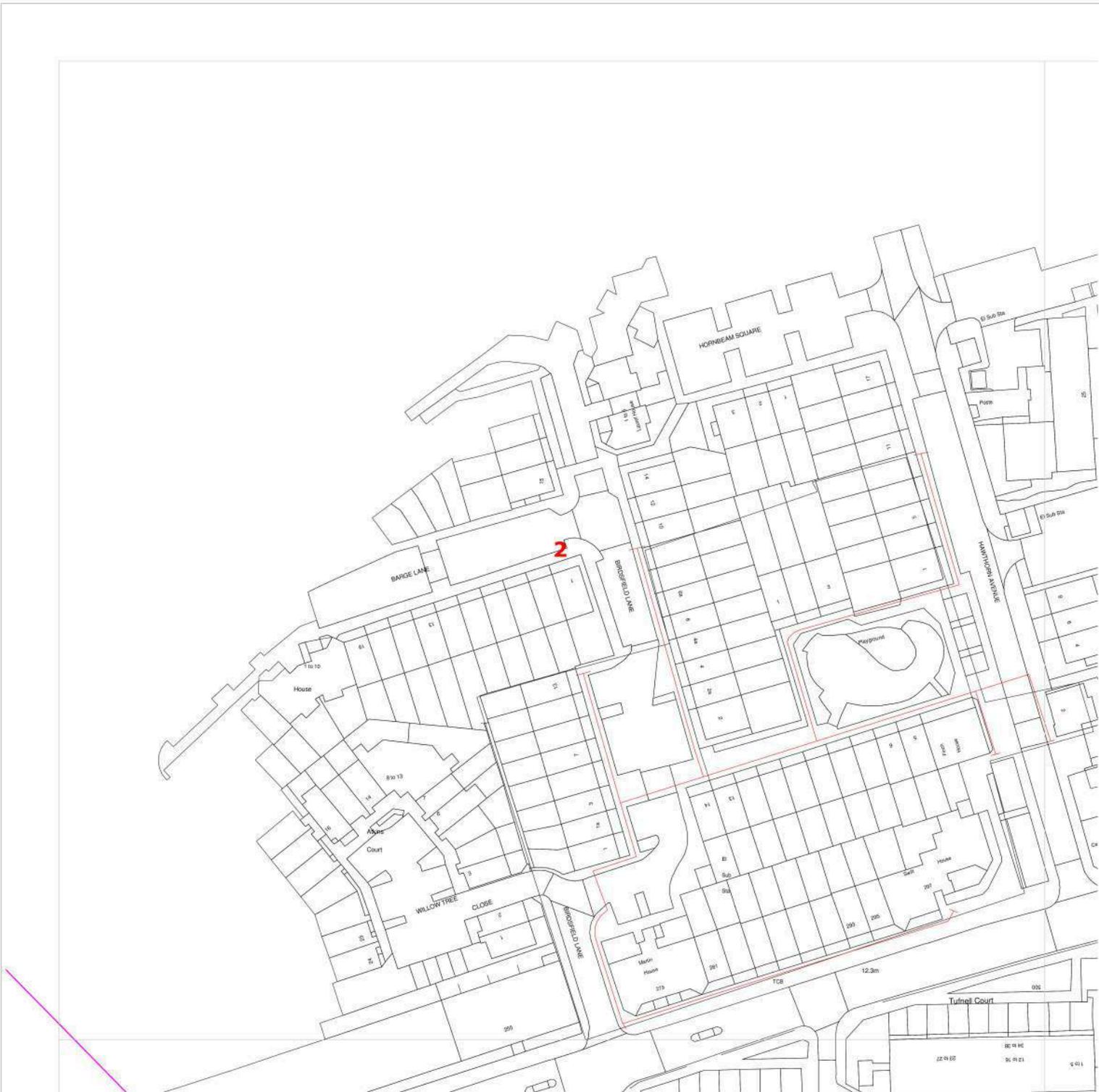
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Dig Sites:

Area Line

Approx scale on A4 paper: 1:1000
 (excluding Overview map)



Date Requested: 24/03/2015
 Requested by: Stephen Sawyer
 Job Reference: 6601423

Company: Technics Group
 Your Scheme/Reference: EMS00347

Key for Mains & Service Pipework

-  Existing LP mains or services operating up to 75 millibar gauge
-  Existing MP mains or services operating between 75 millibar and 2 bar gauge
-  Existing IP mains or services operating between 2 bar and 7 bar gauge



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Dig Sites:
 Area  Line 
 Approx scale on A4 paper: 1:1000
 (excluding Overview map)



Date Requested: 24/03/2015
 Requested by: Stephen Sawyer
 Job Reference: 6601423

Company: Technics Group
 Your Scheme/Reference: EMS00347

Key for Mains & Service Pipework



Existing LP mains or services operating up to 75 millibar gauge



Existing MP mains or services operating between 75 millibar and 2 bar gauge



Existing IP mains or services operating between 2 bar and 7 bar gauge



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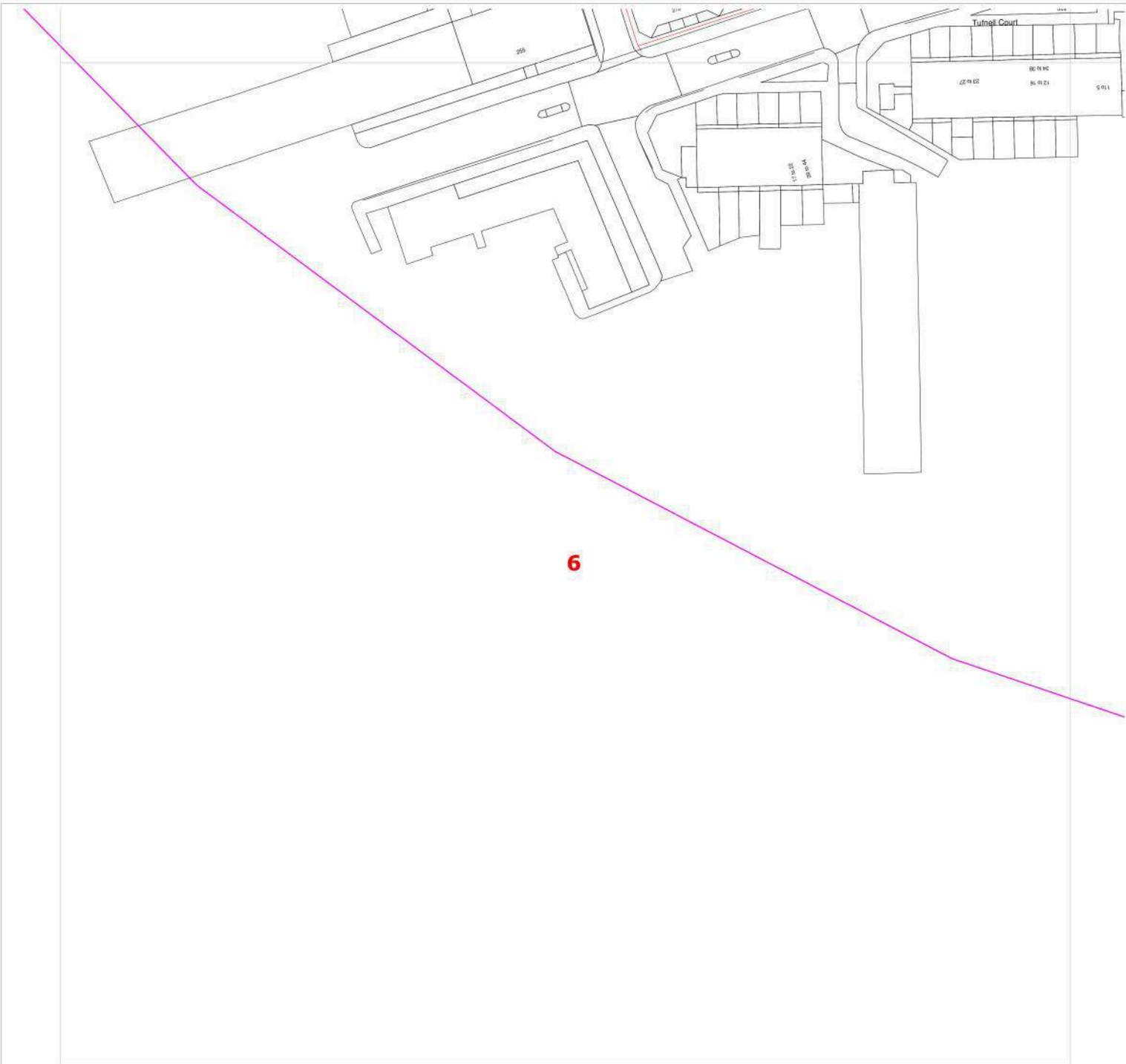


Existing IP mains or services operating between 2 bar and 7 bar gauge

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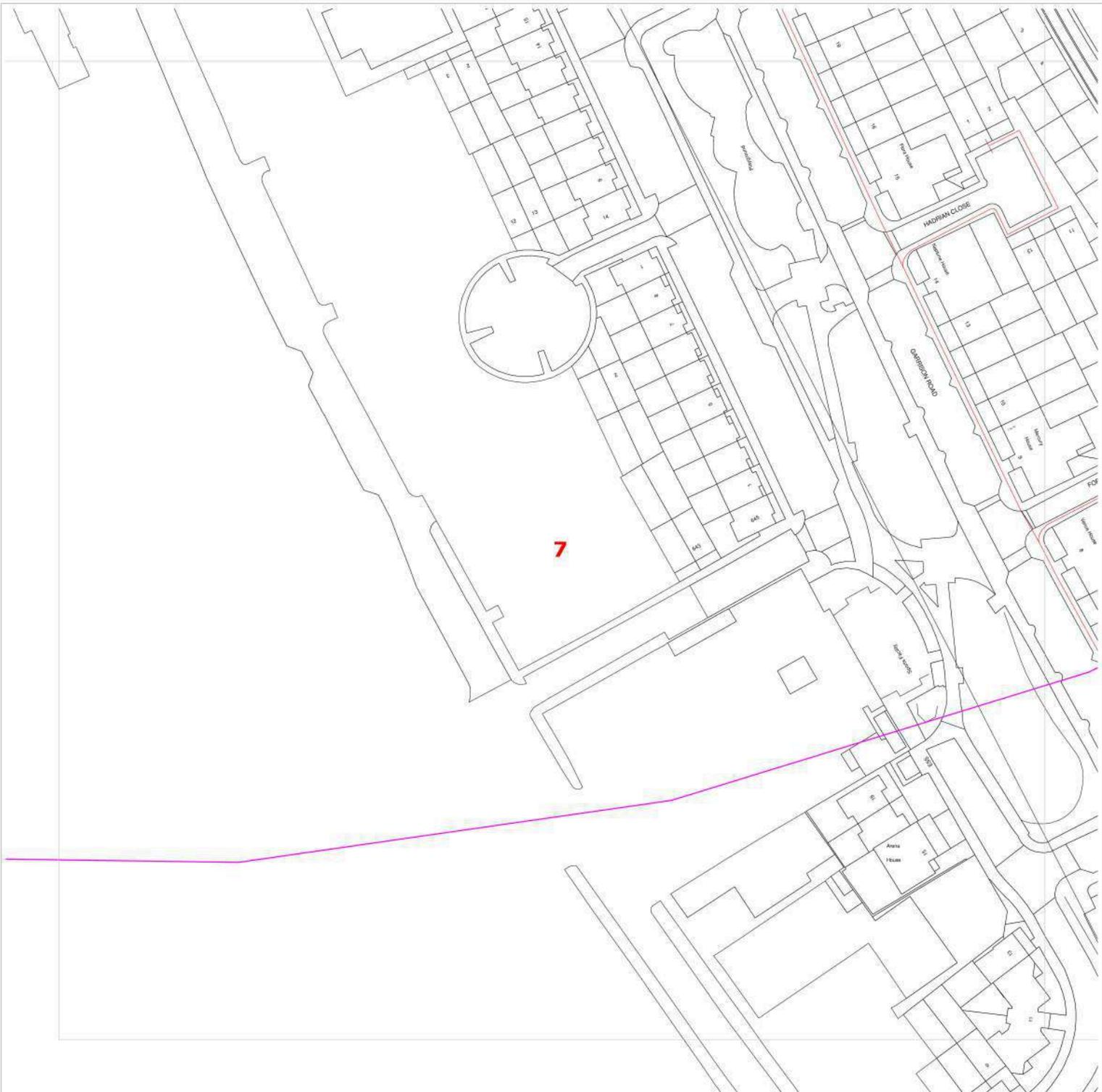


| Key for Mains & Service Pipework | |
|--|---|
|  | Existing LP mains or services operating up to 75 millibar gauge |
|  | Existing MP mains or services operating between 75 millibar and 2 bar gauge |
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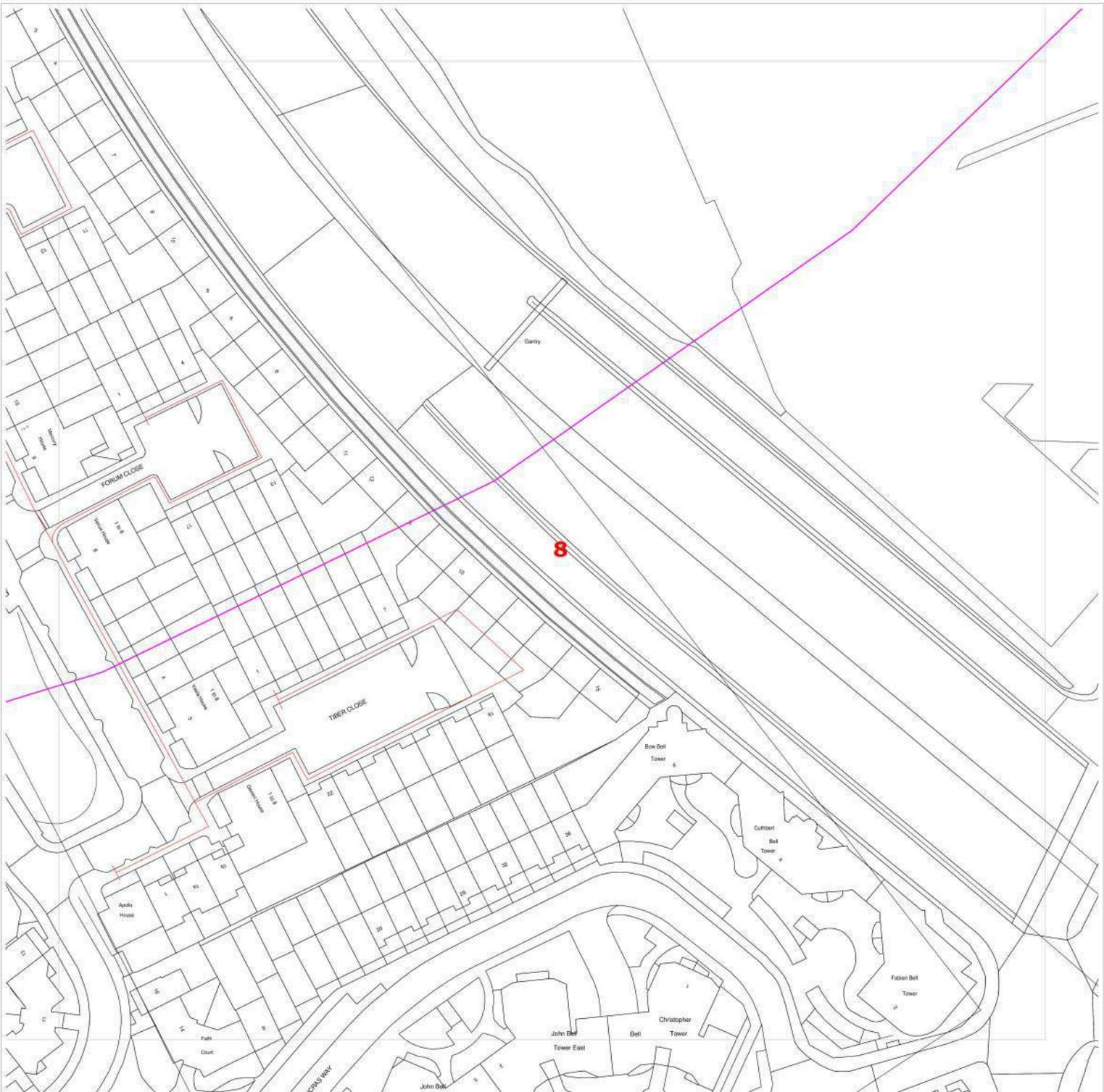
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PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK IN THE VICINITY OF UNDERGROUND GAS PIPES

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 Transco.

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 300 mm 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 Transco's National Gas Escape Call Centre, 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.

Utility Reports

From:

Sent:

To:

Subject:

Attachments:

Warning: GTC Apparatus Exists in This Area

Our Plant Enquiry Service Ref: 97606

Your Enquiry Ref: EMS00347

Dear Utility,

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. For your records, the search area is shown in the attached map.

Please click on the links below to download copies of the relevant utility asset drawings locating our assets in the area which you identified. These drawings are grouped by our relevant network reference, should you need to contact us regarding any of our networks please quote this reference. Links to files will remain live for 10 days. If you do not download these files within this period you will need to submit a new enquiry – this will ensure you have an up-to-date copy of our asset records.

PLEASE NOTE: Where drawings are large, these have been provided in smaller segments. A drawing index is provided as the first file listed for each network reference (example of a network reference: N1234567) shown below. This is intended to help you find the drawing relevant to you more quickly. Please take care to ensure that you use the relevant drawings for every network listed below as we may have multiple networks and multiple utilities in this area.

N0003185-1

Gas

- [N0003185-1.png](#)

This information is for guidance only and the precise position of the plant must be established, prior to your works, using hand-digging methods only. The contractor will be held responsible for any damage caused to our asset. Please note our assets now include those owned and operated by:

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited
- Independent Water Networks Limited
- Independent Fibre Networks Limited
- Independent Community Heating Limited

If you have any queries or require any further information please do not hesitate to contact us.

All works in the vicinity of our networks should be undertaken in accordance with the attached document "GU-DPR-IG-0022: Safe working in the vicinity of utility networks". Reference should also be made to HSG47 Avoiding Danger from Underground Services.

Important: The area of your proposed works may contain gas mains operating at Medium and Intermediate Pressure tiers or electric cables operating at High Voltage – please refer to the network drawings included with this email. If your proposed works are likely to involve excavation within 10 metres of any of these assets, including but not limited to gas governors and electric substations you MUST inform GTC Plant Enquiries by calling 01359 240363 and quoting your Plant Enquiries Service Reference number.

Important: Drawings provided by this service may include utility assets not owned or managed by GTC. Conversely our drawings will NOT display assets from all third parties. It is your responsibility to ensure you have requested information from all utility asset owners.

Gas Escape or Damage MUST be reported on 0800 111 999. National Grid / DNGT will attend to make safe and repair.

Electricity Network Damage MUST be reported to ENC on 0800 032 6990.

Water Network Damage MUST be reported to IWNL on 02920 028 711

Fibre Network Damage MUST be reported to IFNL on 0845 051 1669

Thank you for using the GTC Plant Enquiries Service.

Your sincerely,

GTC Plant Enquiry Service

| Rev | Revision/Note | Date | Drawn by | Approved |
|-----|------------------|----------|----------|----------|
| 1 | Original drawing | 20/10/09 | DL | NIA |



NOTES

1. This drawing shall be read in conjunction with the British Gas Network Code of Practice and the relevant parts of the Gas Safety (Installation and Use) Regulations 1998.

2. The design of this drawing is the responsibility of the Designer and shall be subject to the approval of the relevant authorities.

3. The Designer shall be responsible for ensuring that the design complies with the relevant standards and regulations.

4. The Designer shall be responsible for ensuring that the design is safe and sound and shall be subject to the approval of the relevant authorities.

5. The Designer shall be responsible for ensuring that the design is fit for purpose and shall be subject to the approval of the relevant authorities.

6. The Designer shall be responsible for ensuring that the design is complete and shall be subject to the approval of the relevant authorities.

7. The Designer shall be responsible for ensuring that the design is clear and unambiguous and shall be subject to the approval of the relevant authorities.

8. The Designer shall be responsible for ensuring that the design is consistent with the relevant standards and regulations.

9. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

10. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

11. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

12. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

13. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

14. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

15. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

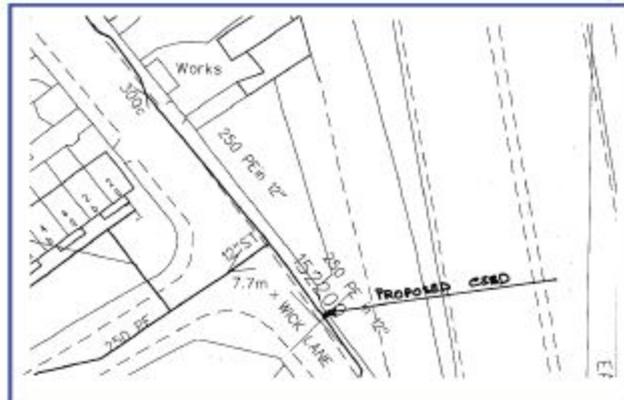
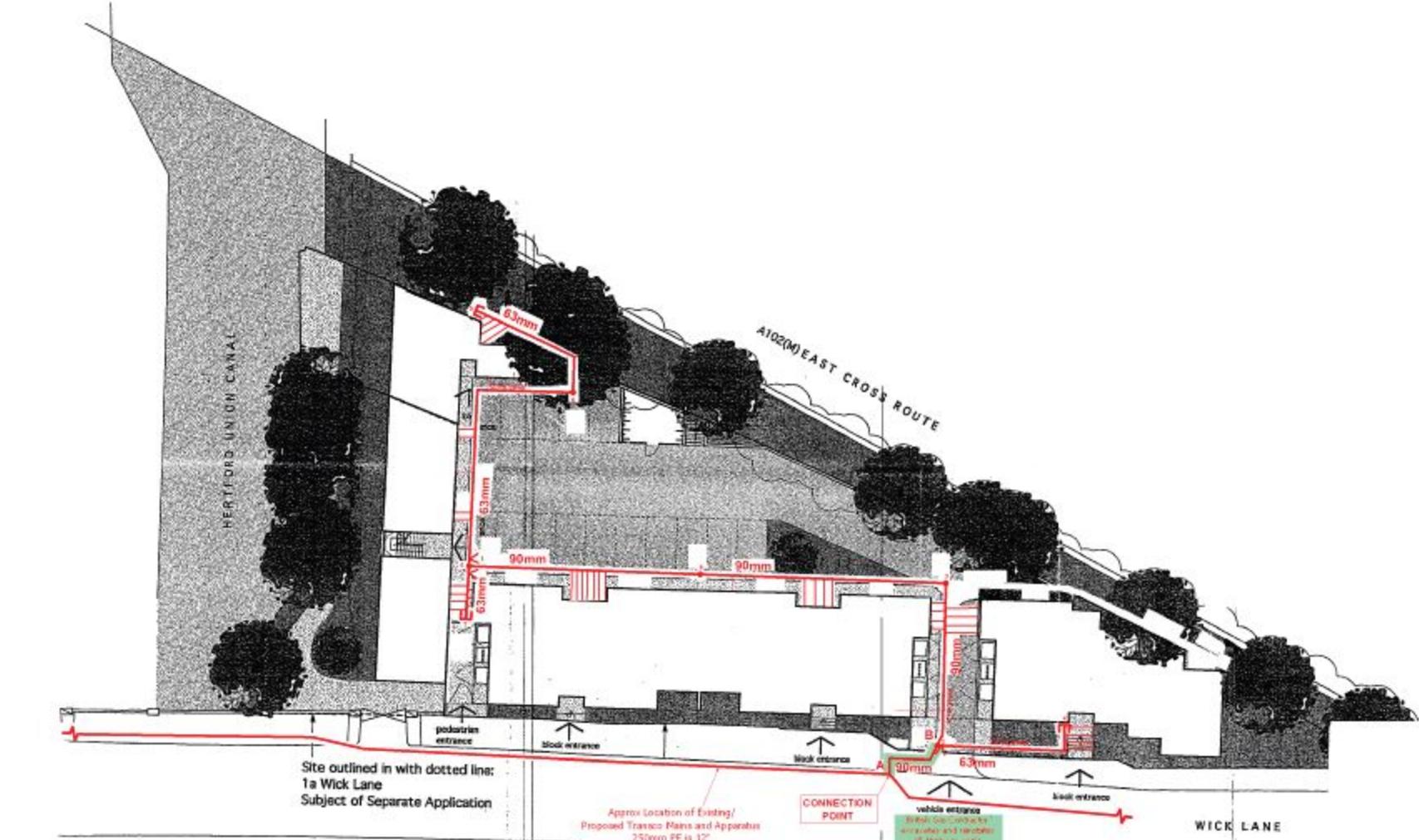
16. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

17. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

18. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

19. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.

20. The Designer shall be responsible for ensuring that the design is in accordance with the relevant standards and regulations.



Drawing Scale: 1:1000
 O.S. REF: TQ3684

Network Number: N0003105-1
 Linked Networks:
 Drawing Number: N0003105-1_R1-0_1_of_1

Developer: British Gas / Bugler Developments Ltd
 Location: Wick Lane, La7a
 Plots 1-36, London
 Greater London, E3

GU-DPR-IG-0022

SAFE WORKING IN THE VICINITY OF UTILITY NETWORKS

(Refer to the HSE Guidance Document HSG47)

General

1. It is imperative that all works are carried out in accordance with the guidance provided by the HSE in their document HSG47 "Avoiding Danger from Underground Services", ISBN 0-7176-1744-0. No party should carry out any excavation works or other intrusive works such as piling, blasting or demolition without following the guidance in HSG47.
2. We own gas, electricity, water and fibre apparatus located in the highway, private property and through the countryside. Some plant may be located in land for which a wayleave or easement has been granted & there may be no surface evidence of the presence of apparatus.
3. Ensure that you have obtained detailed plans of existing and proposed gas, electricity water and fibre networks.
4. The position of the networks should be pinpointed as accurately as possible by reference to the plans and by means of a locating device, which has been tested and calibrated within the last twelve months.

Excavation work should be carried out where applicable, and carefully follow recognised safe digging practices. Once a locating device has been used to determine position and route, excavation may proceed; trial holes should be dug using suitable hand tools to confirm the position of buried networks. During excavation the locating device should be reused to check position and route of buried apparatus.

5. Hand-held power tools can damage buried apparatus and should be used with care until the exact position has been determined. They may only be used to break a paved or concrete surface above the network, unless there are any indications that the network is particularly shallow, in such circumstances, accuracy of plant location is determined and excavation initiated adjacent to the apparatus.
6. No manhole, chamber or other structure should be built over, around or under the network. Such structures, other pipes, ducts and cables should be laid to provide a minimum clearance from the network of 300mm or 1.5 times the diameter of the network, whichever is the greater. No work should be carried out if this minimum clearance cannot be met or which results in a reduction of cover or protection over the network, without first consulting GTC.
7. Where an excavation uncovers a network apparatus the backfill should be adequately compacted, particularly beneath the network, to prevent any settlement, which would subsequently damage the network. Backfill material adjacent to the network should be selected fine material or sand, containing no stones, bricks or lumps of concrete etc. and should be suitably compacted to give comparable support and protection to that provided before excavation. No power compaction should take place until 200mm cover of selected fine fill has been suitably compacted by hand tools.

8. If the road construction is close to the top of the network, GTC should be asked about necessary precautions. The road construction depth should not be reduced without permission from the local Highway Authority.
9. Costs incurred by GTC through direct or consequential damage will be recharged.

Precautions for Gas Networks

10. Plans do not always show the presence of gas pipes cables (from the gas main to premises) but their existence should be assumed.
11. The depth of cover for gas mains is normally 750mm in carriageways and grass verges and 600mm in footways. The depth of cover for gas services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
12. Plastic gas pipes should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
13. The danger created by damaging a gas pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Gas pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a gas pipe.
14. If a gas leak is suspected, the following action should be taken immediately:
 - Remove all people from the immediate vicinity of the escape. If the service connection to a building or the adjacent main has been damaged, warn the occupants to leave the building, and any adjoining building, until it is safe for them to return. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building. Gas leaking from the damage inside or gas travelling along the line of the service connection pipe from outside the building may cause a build-up of gas within the building.
 - Prohibit smoking, and extinguish all naked flames and other sources of ignition i.e. stop excavator and compressor engines within at least 5.0m of the leak.
 - Inform National Grid by dialling **0800 111 999**
 - Remain on site.
 - Assist National Grid staff, Police or Fire Services as requested.
15. Where gas pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the gas pipe or cause excessive loading over the gas pipe then GTC must be consulted.

16. No concrete or other hard material should be placed or left under or adjacent to any gas pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a gas pipe.
17. Where an excavation uncovers a gas pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.
18. Pipe restraints or thrust blocks close to gas mains should never be removed.
19. Anyone who carries out work near underground gas plant should observe any specific requirements made by the site manager, and ensure that access to the plant by National Grid Gas and GTC staff is available at all times. No unauthorised repairs to gas pipes should be made.
20. Where excavation is within 5 metres proximity to above or below ground pressure control equipment, ground workers must be aware of the possibility of encountering small impulse pipe work that is more susceptible to damage.
21. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
22. GTC should be consulted if it is intended to carry out any of the following activities:
 - using explosives within 30m of gas pipes or 400m of gas pressure reduction equipment
 - piling or boring within 15m of gas plant
 - excavating within 10m of pressure reduction equipment
 - reducing the cover or protection of a gas pipe
 - carrying out nearby deep excavations
 - working near our intermediate pressure (IP) mains.

Precautions for Electricity Networks

23. Plans do not always show the presence of electric service cables (from the electricity main to premises) but their existence should be assumed.
24. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried cable. Even if no cables are shown on plans or detected by a locator, there may still be cables present, which could be live and a close watch should be kept for any signs which could indicate their presence such as marker tape, tape tile, concrete tiles and wooden battens. Any marker which is disturbed by our excavations must be replaced once work is completed.
25. Typically underground cables are laid in trenches between 450mm and 1.0m deep, although some high voltage cables will be deeper, however, depths should never be assumed.
26. A cable is positively located only when it has been safely exposed. Even then, digging should still proceed with care as there may be other cables adjacent or lower down.

27. Occasionally, cables are terminated in the ground by means of a seal, sometimes with external mechanical protection. These “pot ended” or “bottle ended” cables should be treated as live and should not be assumed to be abandoned or disused. They can be difficult to detect with locators even when “live”.
28. Using hand held power tools to break up hard surfaces often leads to accidents. Where practicable, such power tools should only be used 500mm or more away from the indicated line of a cable buried in or below a hard surface. Having done so, the cable should then be positively located by careful hand digging under the hard surface. The hard surface should be gradually removed until the cable is exposed. If the cable is not exposed then it must be assumed to be embedded within the surface. Where possible a cable locator should be used as a depth guide down the side of the excavation.
29. Because of the difficulty in confirming depth, hand held power tools should never be used over the cable unless either:
 - the cable has already been exposed by digging under the surface to be broken out and it is at a safe depth (at least 300mm) below the bottom of the hard surface material; or
 - physical precautions have been taken to prevent the tool striking the cable.
30. Excavating close to electricity cables buried in concrete is dangerous and should not be undertaken unless the cable(s) have been isolated. For this reason alone electricity cables should not be buried in concrete.
31. Using mechanical means to break up concrete can cause damage to cables and if the cable is live, anyone present is likely to be injured.
32. Where mechanical excavators are used in the possible vicinity of underground cables, the work should be arranged so that damage to cables is avoided so far as is reasonably practicable and so that everyone is kept well clear of the excavator bucket while it is digging. Drivers should have been instructed to stay in the cab if a cable is struck. If they have to leave the cab, they should jump clear. If drivers climb down, they may be electrocuted. When a cable is struck, a watch should be kept on the machine and no one should go down into the excavation or approach the mechanical excavator or the cable until GTC are contacted and arranged for the damaged cable to be made safe.
33. Where cables have been exposed:
 - any damage should be reported to GTC immediately on **0800 032 6990** and work should not be undertaken in the vicinity of a damaged cable until GTC has investigated its condition;
 - for more than 1.0m and they cross a trench, support should be provided. If the exposed cable length is shorter than 1.0m support should still be considered if joints have been exposed or the cable appears otherwise vulnerable to damage. Where advice and help is needed contact GTC;

- Suitable precautions should be taken to prevent damage from on-going work in the excavation. This may involve for example the use of physical means (e.g. timber boards, sandbags etc) to prevent mechanical damage. Materials or equipment which could damage or penetrate the outer sheath of the cable should not be used. Cables lying in the bottom of an excavation are particularly vulnerable and should be protected by nail free wooden planks, troughing or other suitable means;
 - cables should not be moved aside unless the operation is supervised by GTC;
 - Precautions should be taken to prevent access by members of the public.
34. GTC should be consulted if it is intended to carry out any of the following activities:
- using explosives within 30m of plant or substations piling or boring within 15m of electric plant
 - excavating within 10m of a substation
 - carrying out nearby deep excavations
 - working near our HV plant.

Precautions for Water Networks

35. Plans do not always show the presence of water service cables (from the water main to premises) but their existence should be assumed.
36. The depth of cover for water mains is normally 750mm in carriageways and grass verges and 750mm footways. The depth of cover for water services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
37. Water mains should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
38. The danger created by damaging a water pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Water pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a water pipe.
39. If a water leak is suspected, the following action should be taken immediately:
- Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building.
 - Shut down all working plant and machinery in the vicinity of the damage
 - Inform IWNL by dialling **02920 028 711**.
 - Remain on site.

- Do not attempt to make a repair.
 - Assist GTC, approved contractors and Police or Fire Services as requested.
40. Where water pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the water pipe or cause excessive loading over the water pipe then GTC must be consulted.
 41. No concrete or other hard material should be placed or left under or adjacent to any water pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a water pipe.
 42. Where an excavation uncovers a water pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.
 43. Pipe restraints or thrust blocks close to water mains should never be removed.
 44. Anyone who carries out work near underground water plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to water pipes should be made.
 45. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
 46. GTC should be consulted if it is intended to carry out any of the following activities:
 - using explosives within 30m of plant
 - piling or boring within 15m of water plant
 - excavating within 10m of water asset structures
 - reducing the cover or protection of a water main or service
 - carrying out nearby deep excavations

Precautions for Fibre Networks

47. Plans may not always show the presence of fibre ducts but their existence should be assumed if GTC advise they have fibre services deployed in the given area. Any planned excavation work should only proceed with due care and attention.
48. Chambers with IFNL marked lids can be used as an onsite indicator that GTC have fibre plant deployed in a given area however an exclusion of their presence does not necessarily mean there is no plant present.
49. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried fibre duct. Even if no ducts are shown on plans there may still be ducts present which could have live fibre service installed. A close watch should be kept for any signs which could indicate duct presence such as marker tape. Any marker which is disturbed by our excavations must be replaced once work is completed.

50. The depth of cover for fibre duct is normally 350mm in footways and grass verges, 600mm in carriageways and 1000mm in agricultural deployments. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
51. Fibre ducts should be located by hand digging before mechanical excavation begins. When the positions and depth of the ducts have been determined, work can proceed. Even then, digging should still proceed with care as there may be other ducts adjacent or lower down.
52. If fibre duct damage is suspected, the following action should be taken immediately:
 - Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage at the point of impact. For example, damage to a fibre connection outside the building may result in further, unseen damage to the connection inside the building.
 - Shut down all working plant and machinery in the vicinity of the damage
 - Inform IFNL NOC immediately on **0845 051 1669**.
 - Remain on site.
 - Do not attempt to make a repair.
53. Where fibre ducts cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress on the duct. For ducts parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the duct from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the fibre duct or cause excessive loading over the fibre duct then GTC must be consulted.
54. No concrete or other hard material should be placed or left under or adjacent to any fibre duct as this can cause damage to the duct at a later date. Any backfill should comply with the requirements of NRSWA. Concrete backfill should not be used within 300mm of a fibre duct.
55. Anyone who carries out work near underground fibre plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to fibre ducts should be made.
56. Where fibre ducts have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
57. GTC should be consulted if it is intended to carry out any of the following activities:
 - using explosives within 30m of plant or fibre asset structures
 - piling or boring within 15m of fibre plant
 - excavating within 10m of fibre asset structures (including the OSCP)
 - reducing the cover or protection of a fibre duct
 - carrying out nearby deep excavations

END USER LICENCE AGREEMENT

1 Introduction

By accessing this DATA the End User agrees to abide by the Terms and Conditions of Licence contained herein.

2 Definitions

- **LICENSOR** – emapsite.com Limited (Registered Number 3931726: MASDAR House, 1 Reading Road, Eversley, Hants RG27 0RP) who have been licensed to market the Intellectual Property Rights of others under these terms.
- **RESELLER** – Groundsure Limited and/or their own channel partners
- **END USER** – the person, organisation or company who is accessing the DATA, on the basis of these Licence terms, having been accepted as a Licensee by Licensor and paid the Price due to the Reseller in consideration for such Licence, and is identified as the person, organisation or company given on the corresponding invoice for this product from the Reseller.
- **DATA** - means the Products licensed and made available to the End User by the Licensor as a series of data sets which together provide indicative maps showing the underground assets of Utility Providers for England, Wales and Scotland and compiled by Subtechnics Limited.

3 Grant of licence

The licence granted to the End User is personal, revocable, non-exclusive and non-transferable, limited to Internal Use (as defined in clause 5 below) as the only Permitted Use by the End User and is for a period as specified in the corresponding order invoice from the Reseller. Save as expressly authorised to vary in accordance with clause 5 below, the End User shall be prohibited from:

- modifying, translating, format-changing, enhancing, reproducing, copying (except where strictly necessary for system back up), redistributing, disseminating, selling, dealing with, licensing, encumbering, reverse engineering, disassembling or decompiling the DATA, or any part of thereof, except to the extent permitted by law;
- using the DATA in any manner for the creation of products or services for Distribution;
- using DATA otherwise than for Internal Use;
- assigning or dealing with in any way its rights under the End User Contract;
- putting, or allowing the DATA (or any Derived Data) to be put on any free, open or public access website; and
- distributing or granting licences of the DATA (in whatever form) or material derived from DATA (including interrogating DATA), save as expressly varied by relevant part of clause 5 below.

4 Intellectual Property and Copyright

4.1 The End User must acknowledge and agree that all Intellectual Property Rights in the DATA are the absolute property of the Utility Providers (or where relevant Subtechnics Limited or the licensor). Material which is derived, developed or copied from DATA shall be deemed assigned to the relevant Utility Provider as legal and beneficial owner at creation, except as provided in this paragraph. However, where that material is created by End User under relevant Permitted Use by End User authorised by Licensor in accordance with the Agreement, the Intellectual Property in that material shall belong to the End User.

4.2 Copyright statements must be used with DATA as follows:

© Utility Provider (named as applicable) and Subtechnics Limited

5 Permitted use

5.1 PERMITTED USE BY END USER SHALL BE LIMITED TO INTERNAL USE. COMMERCIAL USE SHALL BE PROHIBITED. The meanings of such phrases are set out below.

5.2 Internal Use means the following internal uses by the End User: Without compromising the prohibitions contained in clause 3 above, analysing the DATA against a location or a series of locations to obtain information derived from the DATA such as proximity to underground assets and use of and sharing such information/results of such analysis internally within the End User's legal entity only.

5.3 Commercial Use means use that does not fall under Internal Uses (as above) and involves the provision or any form of Distribution to any third party of the DATA or any material derived from DATA (including Derived Data or Static Data) in connection with, expectation of or anticipation of any direct or indirect commercial benefit or commercial relationship (including a service, broker or agency agreement) and whether or not in return for any consideration (including direct or indirect fee, payment or other benefit), free of charge or for no consideration.

5.4 Derived Data means any material derived from or created using DATA, including where DATA is manipulated, aggregated, integrated, combined, merged, modelled, transformed or processed in or with other data or facilities;

5.5 Static Data means DATA and any data (including Derived Data resulting from Internal Uses presented or included in static format in presentations or reports in hard copy, .pdf or similar format. Static Data does not allow for alteration of the data presented, nor enable any further analysis to be carried out against the data (including against the DATA).

6 Confidentiality

6.1 In this clause 6, 'Confidential Information' means all confidential information disclosed (whether in writing, orally

or by another means and whether directly or indirectly) by a Party to the other Party whether before or after the date of this Agreement which might reasonably be considered confidential, including the DATA, information relating to the DATA, and information relating to any of the operations, plans or intentions, clients, contacts, product information, software, data, processes, methods, know-how, trade secrets, market opportunities and business affairs of a Party.

6.2 Each Party shall treat the other Party's Confidential Information as confidential and shall protect it as such. It shall manage it with not less than the same degree of care as it does its own Confidential Information. In any event where Confidential Information is disclosed in any way by one Party ('Disclosing Party') to the other Party ('Receiving Party'), either before or during the Term of this Agreement or after its expiry or termination for any reason, the Receiving Party shall:

not use Confidential Information for a purpose other than the performance of its obligations under this Agreement;
not disclose Confidential Information to any person except with the prior written consent of the Disclosing Party; and
make every effort to prevent the use or disclosure of Confidential Information.

6.3 During the term of this Agreement the Receiving Party may disclose Confidential Information solely to the extent that such disclosure is necessary for the purposes of this Agreement, to any of its directors, other officers, employees, End Users, Affiliates, contractors or sub-contractors. Receiving Party shall ensure that persons to whom Confidential Information is disclosed are made aware of and comply with the Receiving Party's obligations of confidentiality as if they were the Receiving Party.

7 Information Access

7.1 In so far as the End User is, or is deemed to be, or acts for and on behalf of or on the authority of a Public Authority for the purposes of the Information Access Regimes:

End User acknowledges that the Utility Providers, Subtechnics Limited, Reseller and Licensor consider that DATA is exempted from disclosure because DATA is: proprietary to the Utility Provider and disclosure would harm the interests of the Utility Provider (including its commercial interests);

protected by database rights and other Intellectual Property; confidential and the disclosure of it by the End User would constitute a breach of confidence actionable by the Utility Provider, Subtechnics Limited and/or the Licensor; and confidential commercial or industrial information protected by laws to protect a legitimate economic interest.

7.2 End User shall, in the event it receives a request for information ('Access Request') under the Information Access Regimes pursuant to which the DATA might be disclosed: immediately notify the Reseller of the Access Request and provide the Reseller with full and complete details of the

Access Request and the DATA that may be disclosed, together with any other information the Reseller may request;

consult, as soon as possible within receipt of Access Request, with the Reseller as to whether the DATA constitutes information which is exempt from disclosure or publication pursuant to the Information Access Regimes and/or pursuant to the matters set out above;

notify the Reseller immediately of any final decision as to disclosure of the DATA and no less than 72 hours before any proposed disclosure, as to what if any of the DATA (or any Derived Data) is proposed to be disclosed and co-operate fully and at End User's sole cost with the requirements set out in this paragraph.

7.3 End User shall not disclose the DATA in any publication scheme maintained pursuant to any Information Access Regime without first notifying the Reseller in advance of disclosure in accordance with this paragraph.

7.4 Where the End User is, or is deemed to be, or acts for and on behalf of or on the authority of a Public Authority under the Information Access Regimes and the End User seeks to make disclosure or discloses DATA under the Information Access Regimes without the consent of the Reseller, such disclosure shall entitle the Reseller and/or the Licensor and/or Subtechnics Limited to terminate the End User Contract with immediate effect and without liability on their part.

7.5 The Contracts (Rights of Third Parties) Act 1999 shall apply for the benefit of Subtechnics Limited and the Licensor and the Reseller that Subtechnics Limited and/or the Licensor and/or the Reseller may (but shall have no obligation to) enforce any of the terms in the End User Contract which relate to disclosure under the Information Access Regimes, limitation on liability, use of DATA or infringement of Intellectual Property Rights in the DATA.

8 Termination

8.1 The licence must terminate automatically in the event that the End User materially breaches any of the requirement / obligations set out in this End User Licence Agreement. All use of DATA and material derived from DATA shall cease promptly in such event, except as follows:

- Following expiry of the End User Contract, the End User may continue to use limited material created using DATA during the term of its End User Contract. Such material is limited to that which is both properly authorised as relevant Permitted Use by the End User and is in static form, i.e. such that after termination it is not changed, added to, updated, modified in any other way or used in or to create any new, updated, supplemented or modified product, tool, analysis or material.
- Material which is not in static form (including probabilistic modelling and models and output therefrom, which is automatically deemed to be not static) shall not be used after termination of the End User Contract.

- the End User must be prohibited from using DATA (including in Reseller's Product/Service), and from deriving any new, updated, supplemented or modified product, tool or material from DATA, after the date of termination of its End User Contract.

8.2 The invalidity or unenforceability of any part of this Agreement shall not prejudice or affect the validity or enforceability of the remainder of the Agreement, which shall remain in full force and effect. If any provision of this Agreement is found to be invalid, illegal or unenforceable but would cease to be so if some part of the provision were deleted or modified, the provision in question shall apply with such minimum modification as may be necessary to make it valid, legal and enforceable and still give effect to the commercial intention of the Parties in this Agreement.

9 Fees

9.1 The End User must acknowledge its obligation to pay licence fees to the Reseller. The total price of the Products shall be the Reseller's written quoted price as varied from time to time. The price is exclusive of any applicable Value Added Tax, which the End User shall be additionally liable to pay to Licensors.

9.2 End User shall pay in full on order or shall pay within 30 days of the date of invoice, if accepted for an account with the Reseller. The time of payment shall be of the essence of the Contract. All payments shall be made in full without deduction in respect of any set-off or counterclaim. If the End User fails to make any payment on the due date then without prejudice to any other right or remedy available to Licensors, Licensors shall be entitled to:

cancel the Contract or suspend any deliveries to the End User;

appropriate any payment made by the End User to the DATA; and

charge the End User interest (both before and after any judgment) on the amount unpaid, at the rate of 4 per cent per annum over the base rate for the time being of Barclays Bank PLC.

Licence to DATA is not deemed to commence until payment has been made of the Price in full to Licensors.

10 Liability

10.1 Licensors warrant that the DATA will correspond with its specification at the time of delivery. The above warranty does not extend to any defect resulting from use of the DATA with materials or equipment not supplied by Licensor. The above warranty is given by Licensors subject to the following conditions:

Neither Licensor nor Reseller shall be under any liability in respect of any defect in the DATA arising from any drawing, design or specification supplied by the End User or in respect of any defect arising from failure to follow Licensors' guidance, misuse or alteration of the DATA without Licensors' approval;

Neither Licensor nor Reseller shall be under any liability under the above warranty (or any other warranty, condition or guarantee) if the total price for the DATA has not been paid by the due date for payment; and Except in respect of death or personal injury caused by Licensor or Reseller's negligence, neither Licensor nor Reseller shall be liable to the End User for any consequential loss or damage (whether for loss of profit or otherwise), costs, expenses, or other claim for consequential compensation whatsoever which arises out of or in connection with the supply of the DATA, except as expressly provided in these Conditions.

Except in respect of injury to or death of any person Licensor's and Reseller's aggregate liability for breach of contract, negligence or other default shall not exceed the value of the Contract.

Except as expressed here all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

11 Governing Law and Jurisdiction

The End User Contract and any matter, dispute or claim arising from or in connection with the End User Contract in so far as it applies to DATA and its use (including non-contractual disputes or claims) shall be governed by and construed in accordance with English law. The End User must submit to the mediation process prescribed in the Agreement and, subject to that, to the exclusive jurisdiction of the English court.

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