



## Daux Road

**Premier House  
Daux Road  
Billingshurst  
RH14 9SJ**

**08/10/2018**

PROJECT NO.

**Sample**

ISSUE NO.

**1**

STATUS

**For Information**



# Introduction

**This report assesses the potential constraints presented by the existing utility infrastructure both within the boundary and in the vicinity of the search area.**

The report is based on the information provided by the client about the location of the search area and the information provided by the utilities about their existing plant and networks. The information contained in this report is based on desk research only.

## What is a utility constraint?

We use the term constraint to indicate that there may be limitations or prohibitions on designs and planned works due to the presence of utility apparatus. To overcome these can be costly and time-consuming. Depending on the legal rights and statutory powers of the utility the costs may have to be borne by the applicant/developer.

## Report interpretation

We have developed a simple traffic light mechanism to present site constraints based on a red/amber/green evaluation;



Red – site constraints exist due to the presence of utility apparatus.



Amber – site constraints may exist due to the proximity of utility apparatus.



Green – site constraints do not appear to exist.

This report confirms to QL-D of PAS 128:2014 - Specification for Underground Utility Detection, Verification and Location. To obtain further detail on utility locations consider site reconnaissance (QL-C), detection (QL-B) and verification (QL-A) as recommended under 'Important Information'.

Prepared by

Signed off by

Hannah Stalley

Martin Darlison



Cert No 6206  
ISO 9001



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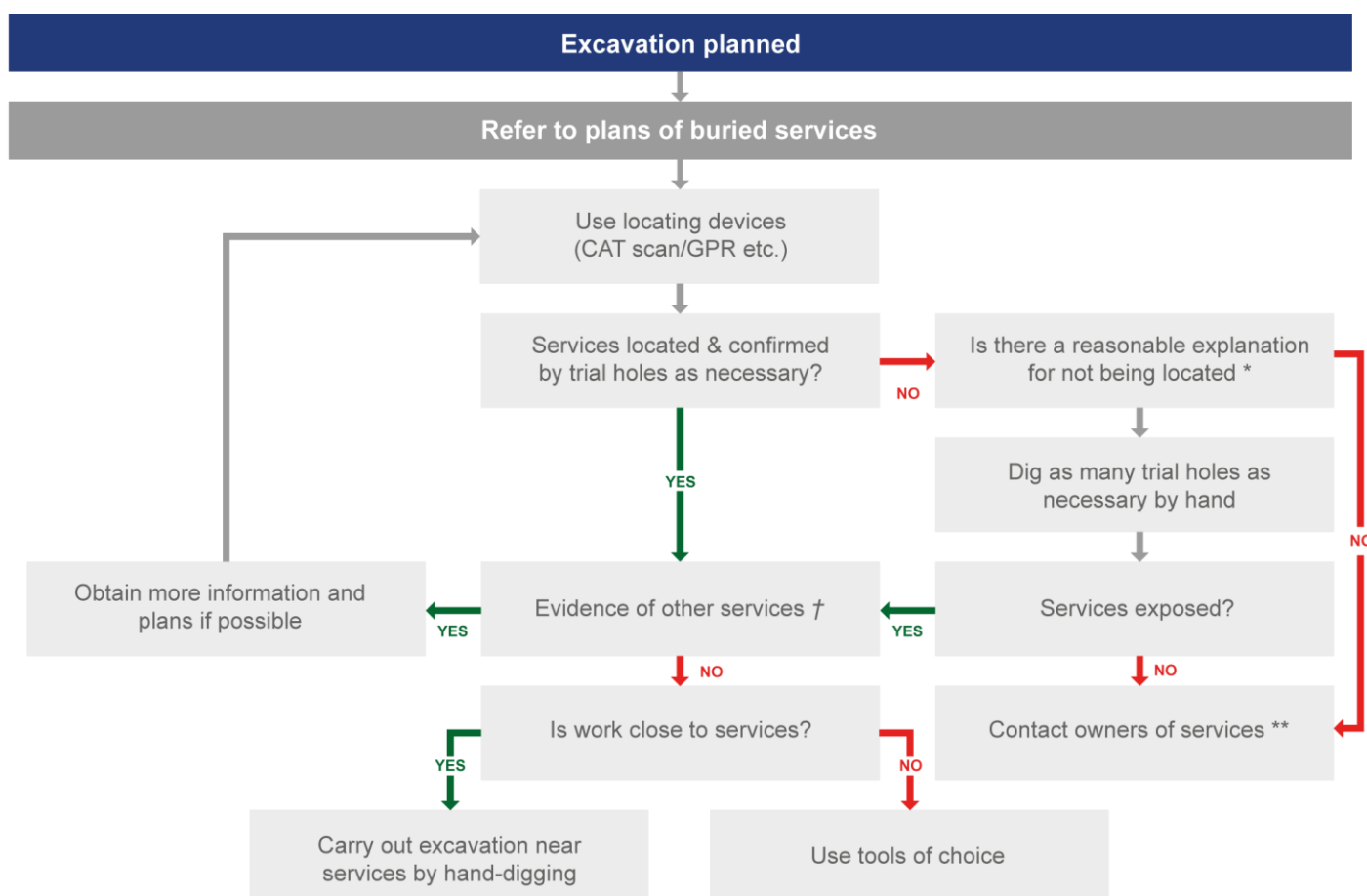
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# Important Information

This flow diagram is intended to help give an understanding of the process from referring to plans on-site through to the start of excavation, for example when excavating in a road or footway. However it:

- Describes only part of the process; it does not, for example, describe planning the work, including reference to plans at the design stage;
- Is a simplified picture and not a substitute for reading the text;
- Is not a substitute for a suitable and sufficient risk assessment;
- Does not take account of a number of other situations, e.g. cable embedded in concrete or those situations where resiting services is proposed.



\* For example, could services be non-metallic pipes? Please refer to HS (G) 47 text for further information.

† In particular; visual evidence. Ensure that the presence of services, which may be unmarked on plans or for which no plans are available, has been considered, for example service connections.

\*\* If there is visual evidence of services, but owners cannot be traced, despite all reasonable attempts to do so, any excavation could proceed but using hand-dug trial holes and proceeding with great care.



# Important Information

## Relevant Documents

The following documents must be referred to before work commences in the vicinity of existing services:

- Health and Safety Booklet HS (GS) 6 Avoidance of Danger from Overhead Electric Lines.
- General Safety Measures to Avoid Injury and Damage to Gas Apparatus.
- HSE Guidance Note HS (G) 47 Avoiding Danger from Underground Services.
- National Joint Utilities Group (NJUG) Publications Vol. 1.
- CDM Regulations 2015.
- PAS 128:2014 Specification for Underground Utility Detection, Verification and Location.

## Basic Risk Assumption for all Services

When dealing with existing services the following assumptions must always be accepted:

- All existing buildings have gas, water electric and telecoms supplies to them until proven otherwise.
- Any supply to an existing building, no matter how old the building is or how deteriorated the supply may appear, is taken to be 'live' until proven otherwise.
- All open land, vacant lots and derelict sites are deemed to have services beneath them until proven otherwise.
- The only acceptable proof that a service is 'dead' and can be removed is written confirmation from the owner of the service.
- The quality and accuracy of information provided by utilities about their existing plant is indicative and no warranty is made as to its accuracy. Therefore, any utility asset maps and/or marked up drawings provided by each utility must only be used as a guide and the actual location of plant should be verified by EML/GPR survey or trial holes before construction works commence.

*Please note not all service connections are shown on the utility asset maps.*

## Plant Found Within Site Boundaries

Where utility plant is found within the site boundary, it is recommended for the client to check for legal easements or wayleaves.

Diversions of plant within site boundaries can be expensive and time consuming to relocate. Further investigation of costs and timescales are recommended. Please ask PES for further details.



# Enclosures

Type	Company	In Vicinity	Desk Research	Awaiting Response
Electricity	SSE Networks			
Water	Southern Water			
Drainage	Southern Water			
Gas	SGN			
Openreach	Openreach (formerly BT)			
Virgin Media	Virgin Media - Not requested by client			
Independents	GTC			
	Energetics			
Comms.	Vodafone Ltd - Not requested by client			
	Colt			
	KPN			
	SKY Telecommunications			
	Interoute			
	SOTA		✓	
	Instalcom (multiple co's)			
	Verizon			
	Vtesse Networks - Not requested by client			
	TeliaSonera			
	euNetworks		✓	
	SSE Telecoms		✓	
	CityFibre		✓	



	Mast Data		
Tunnels & Pipelines	LinesearchbeforeUdig - SGN see gas, ESP in vicinity		
	BT Deep Level Tunnels		✓
	Thames Water Ring Main		✓
	Thames Tunnel		✓
	Post Office Tunnels		✓
Transport	Docklands Light Railway		✓
	London Underground		✓
	LUL HV Power Assets		✓
	Crossrail		✓
	Network Rail		
	Transport for London		✓
	Trafficmaster		✓



# Optional Searches

## Virgin Media

You have chosen not to include a Virgin Media enquiry in your search. Virgin Media have built network extensively across the urban areas of the UK and are common in the South East. We often find they are affected by our enquiries. We recommend that you should only decide not to search Virgin Media where you are sure that they are not in your area of interest or in the event that you consider them as a cost disproportionate to the risk. Please contact us if you wish to have Virgin Media searched regardless at an additional charge.

## Vodafone

You have chosen not to include a Vodafone enquiry in your search. We find that Vodafone are only in vicinity in around 10% of cases nationally but this number increases further in the South East and London. Please contact us if you wish to have Vodafone searched regardless at an additional charge.

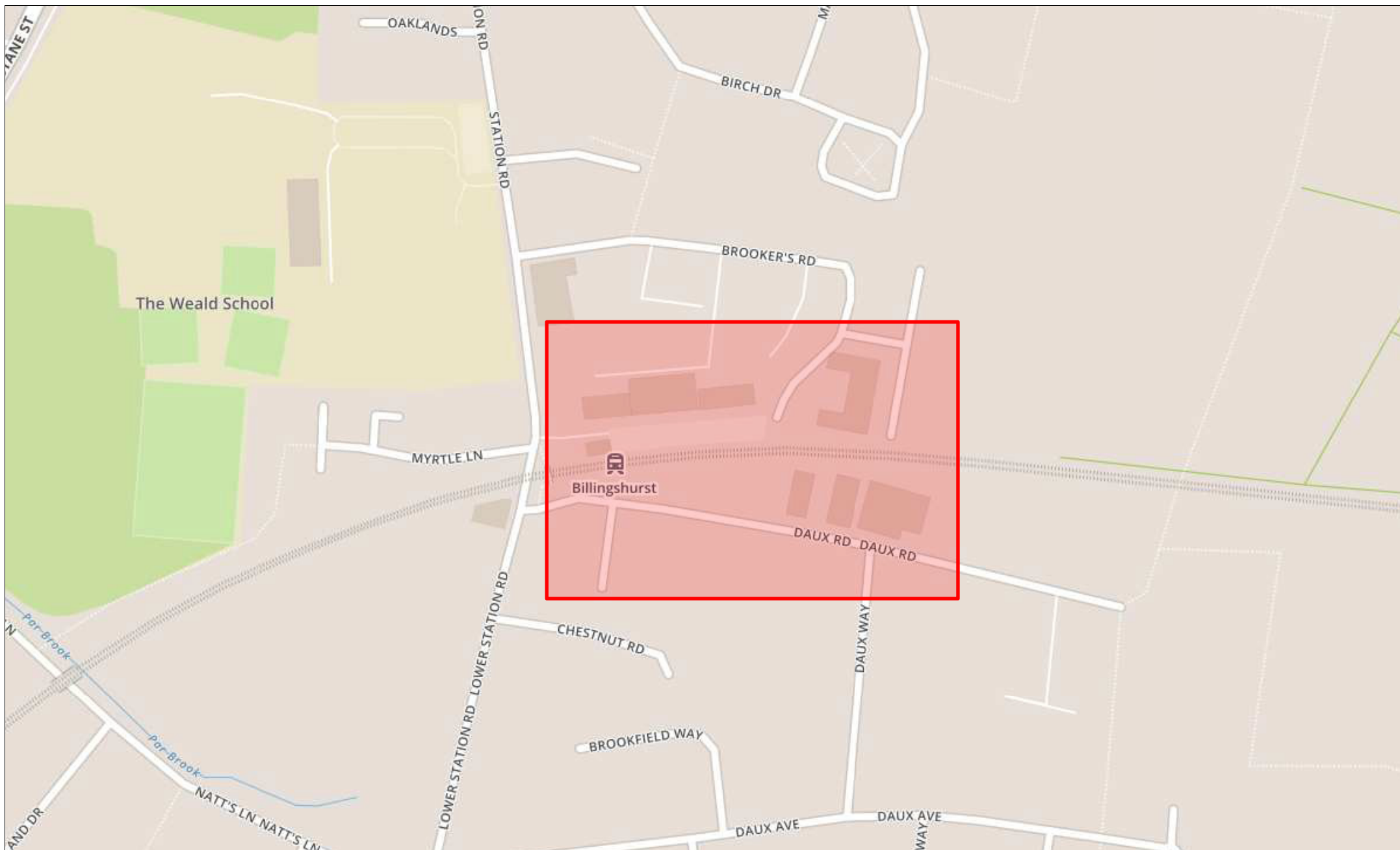
## Vtesse Networks

You have chosen not to include a Vtesse enquiry in your search. We find that Vtesse are in vicinity in less than 1% of enquiries and that their charge is disproportionate to the risk of making the enquiry. Please contact us if you wish to have Vtesse searched regardless at an additional charge.



# Acronyms Key

Apparatus			
Electric			
DNO	Distribution Network Operator	kVA	Kilo Volt Amperes
IDNO	Independent Distribution Network Operator	MVA	Mega Volt Amperes
ICP	Independent Connections Provider	AC	Alternating Current
LV	Low Voltage	S/S	Substation
HV	High Voltage	PMT	Pole Mounted Transformer
EHV	Extra High Voltage		
Water			
SLO	Self Lay Organisation	WRAS	Water Regulation Advisory Scheme
Incumbent	Local Water or Water & Sewerage Company		
Gas			
GDN	Gas Distribution Network	LP	Low Pressure
IGT	Independent Gas Transporter	MP	Medium Pressure
UIP	Utility Infrastructure Provider	IP	Intermediate Pressure
PRS	Pressure Reducing Station (Governor)	HP	High Pressure
Others			
PES	Premier Energy Services	CATV	Cable Television
PE	Polyethylene	FTTP	Fibre to the premise
DI	Ductile Iron	FTTC	Fibre to the cabinet
ST	Steel	l/min	Litres per minute
CI	Cast Iron	H&S	Health & Safety
SI	Spun Iron	HBF	House Builders Federation
HPPE	High Performance Polyethylene	TPO	Tree Preservation Order
MDPE	Medium Density Polyethylene	TBC	To be confirmed
GRP	Glass Reinforced Plastic	N/A	Not Applicable





<b>Project No:</b>	Sample
<b>Date:</b>	12/09/2018
<b>Client:</b>	PES
<b>Site:</b>	Daux Road

<b>Postcode:</b>	RH14 9SJ
<b>OS Ref:</b>	TQ 08889 25135
<b>National Grid Ref:</b>	Easting: 508889      Northing: 125135

**UTILITIES**

<b>OPENREACH &amp; DEEP LEVEL TUNNELS</b>			SIGNED
Asset map requested?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	HS
Is the Openreach plan marked with hatching in the vicinity of the site?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If yes, email enquiry to Openreach	Sent <input type="checkbox"/>		
Broadband check made (USIR only)?	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	

<b>GAS NETWORK</b>			SIGNED
GT and IGT asset maps requested?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	HS

<b>VIRGIN MEDIA</b>			SIGNED
Asset map requested?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	HS

**COMMUNICATIONS**

<b>SOTA</b>			SIGNED
Is the site in the vicinity of SOTA?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	HS
If yes, email enquiry to Instalcom	Sent <input type="checkbox"/>		

<b>KCOM</b>			SIGNED
Is the site in the vicinity of Hull?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	HS
If yes, email enquiry to KCOM	Sent <input type="checkbox"/>		

<b>SSE TELECOMS</b>			SIGNED
Is the site in the vicinity of SSE Telecoms?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	HS
If yes, print asset map	Done <input type="checkbox"/>		

<b>CITYFIBRE</b>			SIGNED
Is the site in the vicinity of CityFibre?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	HS
If yes, enquiry to CityFibre	Done <input type="checkbox"/>		

<b>MAST DATA</b>			SIGNED
Is the site in the vicinity of a base station?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	HS
If yes, print details of base station	Done <input checked="" type="checkbox"/>		

**TUNNELS & PIPELINES**

<b>LINESEARCH</b>			SIGNED
Linesearch confirmed plant in vicinity?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	HS
If yes, send enquiry to plant operator	Sent <input checked="" type="checkbox"/>		

# DESK RESEARCH



<b>THAMES WATER RING MAIN</b> Is the site in the vicinity of the TWU Ring Main? If yes, ensure TWU asset map shows Ring Main	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	SIGNED HS
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<b>THAMES TUNNEL</b> Is the site in the vicinity of any planned works? If yes, print details	Yes <input type="checkbox"/> Done <input type="checkbox"/>	No <input checked="" type="checkbox"/>	SIGNED HS
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## TRANSPORT

<b>NETWORK RAIL</b> Is the site either (a) immediately adjacent to or above major Network Rail infrastructure such as substations or (b) on land formerly owned by Network Rail? If yes, email enquiry to Network Rail	Yes <input checked="" type="checkbox"/> Sent <input checked="" type="checkbox"/>	No <input type="checkbox"/>	SIGNED HS
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<b>CROSSRAIL</b> Is the site in the vicinity of Crossrail? If yes, email enquiry to Crossrail	Yes <input type="checkbox"/> Sent <input type="checkbox"/>	No <input checked="" type="checkbox"/>	SIGNED HS
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<b>TRAFFICMASTER</b> Is the site adjacent to a Trafficmaster installation? If yes, email enquiry to Trafficmaster	Yes <input type="checkbox"/> Sent <input type="checkbox"/>	No <input checked="" type="checkbox"/>	SIGNED HS
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## GREATER LONDON

YES ☐ NO ☒

<b>euNETWORKS</b> Is the site in the vicinity of euNetworks plant? If yes, email enquiry to euNetworks	Yes <input type="checkbox"/> Sent <input type="checkbox"/>	No <input type="checkbox"/>	SIGNED
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If site is within a Greater London Borough, send enquiries to: <b>TRANSPORT FOR LONDON</b> <b>LUL HV POWER ASSETS</b> <b>LONDON UNDERGROUND</b> Check enquiry area, send if required	Sent <input type="checkbox"/> Sent <input type="checkbox"/> Sent <input type="checkbox"/> N/A <input type="checkbox"/>	SIGNED
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## INNER LONDON

YES ☐ NO ☒

<b>DOCKLANDS LIGHT RAIL</b> Is the site close to the DLR? If yes, email enquiry to DLR	Yes <input type="checkbox"/> Sent <input type="checkbox"/>	No <input type="checkbox"/>	SIGNED
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<b>POST OFFICE TUNNELS</b> Is the site close to the tunnels? If yes, only piling or similar depth works will affect plant	Yes <input type="checkbox"/>	No <input type="checkbox"/>	SIGNED
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## Watch it!

### Safety advice brought to you by Scottish and Southern Electricity Networks

These notes are intended to help all those who have to work in the vicinity of electrical apparatus. Employers have a legal obligation to ensure that their operatives are fully instructed in the correct procedures.

**The Electricity at Work Regulations 1989** impose health and safety requirements upon employers, employees and self-employed persons with respect to electricity at work. The regulations impose restrictions on persons being engaged in work activities on or near live conductors.

**Regulation 14 requires that:** "No person shall be engaged in any work activity on or near any live conductor (other than one suitably covered with insulating material so as to prevent danger) that danger may arise unless:

- ♦ it is **unreasonable** in all circumstances for it to be dead; and
- ♦ it is **reasonable** in all circumstances for him to be at work on or near it while it is live; and
- ♦ suitable precautions (including where necessary the provision of suitable protective equipment) are taken to prevent injury."

The purpose of the regulations is to require precautions to be taken against the risk of death or personal injury from electricity in work activities.

### Publications

The Health and Safety Executive have produced a document entitled 'Avoiding Danger from Underground Services', and the Appendix 1 deals specifically with electric cables. Copies are available from the HSE's Accredited Agents and good booksellers, Ref. HS (G) 47.

Copies of Health and Safety Guidance note GS 6 relating to safe working in proximity to overhead lines, are available from the Health and Safety Executive's website - [www.hse.gov.uk](http://www.hse.gov.uk).

### Note

**In situations of emergency or danger, or where the advice contained in these notes cannot be followed, you must consult Scottish and Southern Electricity Networks immediately. Tel. 0800 072728 for southern England or 0800 300999 for Scotland.**

**Additional copies of these "Watch it!" leaflets can be obtained from our Asset Data Team office upon request. Tel. 01256 337294, or Fax 01256 337295.**

You must read and accept the following safety notes as part of the contract to receive our network plans. You will have the option to print these and issue them to site staff.

### Watch it! - Working in the vicinity of underground cables

Our plans show the positions and normal depths for the buried cables and pipes at the time when they were installed. However, alterations to road alignments surface levels and buildings may have occurred subsequently without our knowledge. If you discover plant or cables that are not marked or incorrectly marked, then you are required to contact us as soon as possible to give us the opportunity to amend our plans.

These plans show the equipment owned by Scottish and Southern Electricity Networks. There may be other privately owned plant in the area, which is outside of our control. You should always check with the Local Authority, National Grid Company, Department of the Environment, other Electricity Companies and other utilities before proceeding.

It is not intended that the issue of these plans will absolve either party from their obligation under any of the acts that control digging in the public highways.

### Supplies To Properties, etc.

The location of cables supplying individual properties, street lighting, traffic signs, telephone kiosks etc. are not always shown on the plans. You should assume that each property, streetlight etc. will have its own supply cable.

### Major Circuits

Where our plans indicate the presence of cables with a voltage exceeding 11,000 volts, you are advised to contact our local depot (telephone number is on the plans), before commencing any excavations within the vicinity of these cables. These major circuits form an extremely important link in Scottish and Southern Electricity Networks' networks, and damaging or modifying these circuits is a major and costly undertaking. Any development should therefore be designed to allow these circuits to remain undisturbed and accessible in their present location.

For your own and your workmates' safety, please follow the **do's** and **don'ts** listed below:

- ✓ **do** make sure you have plans of the underground cables in the area **before** any excavation work starts. Remember that some cables may not be shown on plans. If carrying out emergency work, excavate as though there are buried live cables in the vicinity.
- ✓ **do** use a cable locator to determine the position of existing cables in the work area. The positions should be marked and tests made as work proceeds. **If in doubt, get advice from your supervisor.**
- ✓ **do** ask for a cable to be made dead if it is buried in concrete.
- ✓ **do** watch for signs of cables as work progresses. Note any marker-tape or cable-cover, which may be exposed

- ✓ **do** backfill carefully, using stone-free soil around the cables, replacing marker-tapes and / or covers.
- ✓ **do** notify us immediately if you accidentally damage our cables. Arrange to keep people well clear of a cable that has been damaged until we have confirmed it has been made safe.
- ✓ **do** make sure before starting to demolish a building that all cables have been disconnected. We welcome prior notice of the intention to demolish buildings. This enables us to ensure that the site has been made safe electrically.
- ✓ **don't** operate a bulldozer, scraper, dragline or excavator; unless you are satisfied that there are no buried cables in the working area.
- ✓ **don't** use picks, pins, forks or pointed instruments in soft clay or soil when cables are present. Exercise extreme caution where such instruments are used to free lumps of stone, or break up firmly compacted ground. **Never** throw a fork or sharp instrument into the ground.
- ✓ **don't** dig trial holes over the indicated route of the cable. Excavate alongside instead.
- ✓ **don't** use exposed cables as a convenient step or handhold.
- ✓ **don't** handle or attempt to alter the position of any cable.

**Remember** that a damaged cable may cause extensive loss of supplies, make expensive repairs necessary and cause serious or even fatal injury.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make cables dead without interrupting supplies to our customers. But given adequate notice, we will wherever possible, give advice regarding special precautions which may be necessary on any site where particular problems are likely to be encountered. The right is reserved to make a charge for this service.

Electricity cables can exist anywhere - under paths or roads, in gardens or driveways, on new housing or industrial development sites or even farmland.

### **Watch it! - Working in the vicinity of overhead lines**

For your own and your workmates' safety, please follow the **do's** and **don'ts** listed below

- ✓ **do** carefully note the position of all overhead lines before commencing work.
- ✓ **do** co-operate with us during planning and sitework stages.
- ✓ **do** follow the advice given in HSE Guidance Note GS 6 when siting barriers, goal posts, bunting etc.
- ✓ **do** keep overhead lines in view when moving scaffolding or machinery and take special care when felling or lopping trees.
- ✓ **do** remember that the raising or slewing of a crane or excavator jib may cause danger when operating near an overhead line.

- ✓ **do** avoid any machinery that is in contact with an overhead line until we confirm that conditions are safe.
- ✓ **do** warn others to keep well clear.
- ✓ **don't** drive a high vehicle below an overhead line when an alternative route is available.
- ✓ **don't** raise the bed of a tipper lorry beneath an overhead line or drive under the line with the body of the vehicle raised.
- ✓ **don't** steady any suspended load until you are satisfied that there is no danger from overhead lines.
- ✓ **don't** handle or use scaffold platforms, poles, pipes or ladders unless they are at a safe distance from overhead lines.
- ✓ **don't** transport long objects beneath overhead lines, unless they are carried in a horizontal position.
- ✓ **don't** approach or touch any broken or fallen overhead lines.

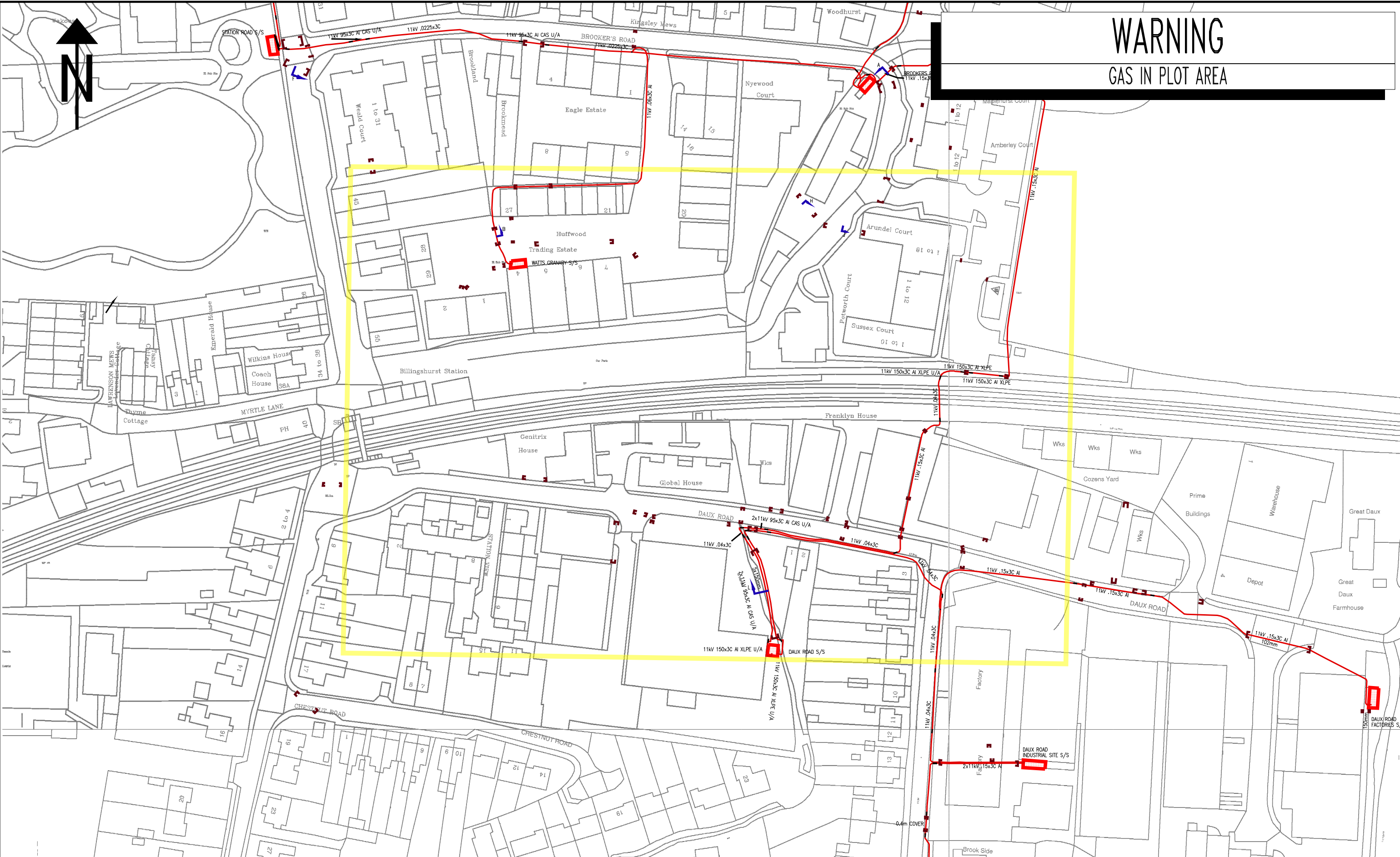
### **Always remember that:**


- Electricity can jump gaps.
- Contact or near contact with a crane jib, scaffold or ladder can cause a discharge of electricity with a risk of fatal or severe shock and burns to any person in the vicinity.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make overhead lines dead without interrupting supplies to customers. However, provided adequate notice is given, then we will, whenever possible, give advice regarding special precautions which may be necessary on site where specific problems may be encountered. The right is reserved to make a charge for this service.

Scottish and Southern Electricity Networks is a trading name of: Scottish and Southern Energy Power Distribution Limited Registered in Scotland No. SC213459; Scottish Hydro Electric Transmission plc Registered in Scotland No. SC213461; Scottish Hydro Electric Power Distribution plc Registered in Scotland No. SC213460 (all having their Registered Offices at Inveralmond House 200 Dunkeld Road Perth PH1 3AQ); and Southern Electric Power Distribution plc Registered in England & Wales No. 04094290 having its Registered Office at No.1 Forbury Place 43 Forbury Road Reading RG1 3JH which are members of the SSE Group [www.ssen.co.uk](http://www.ssen.co.uk)

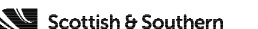


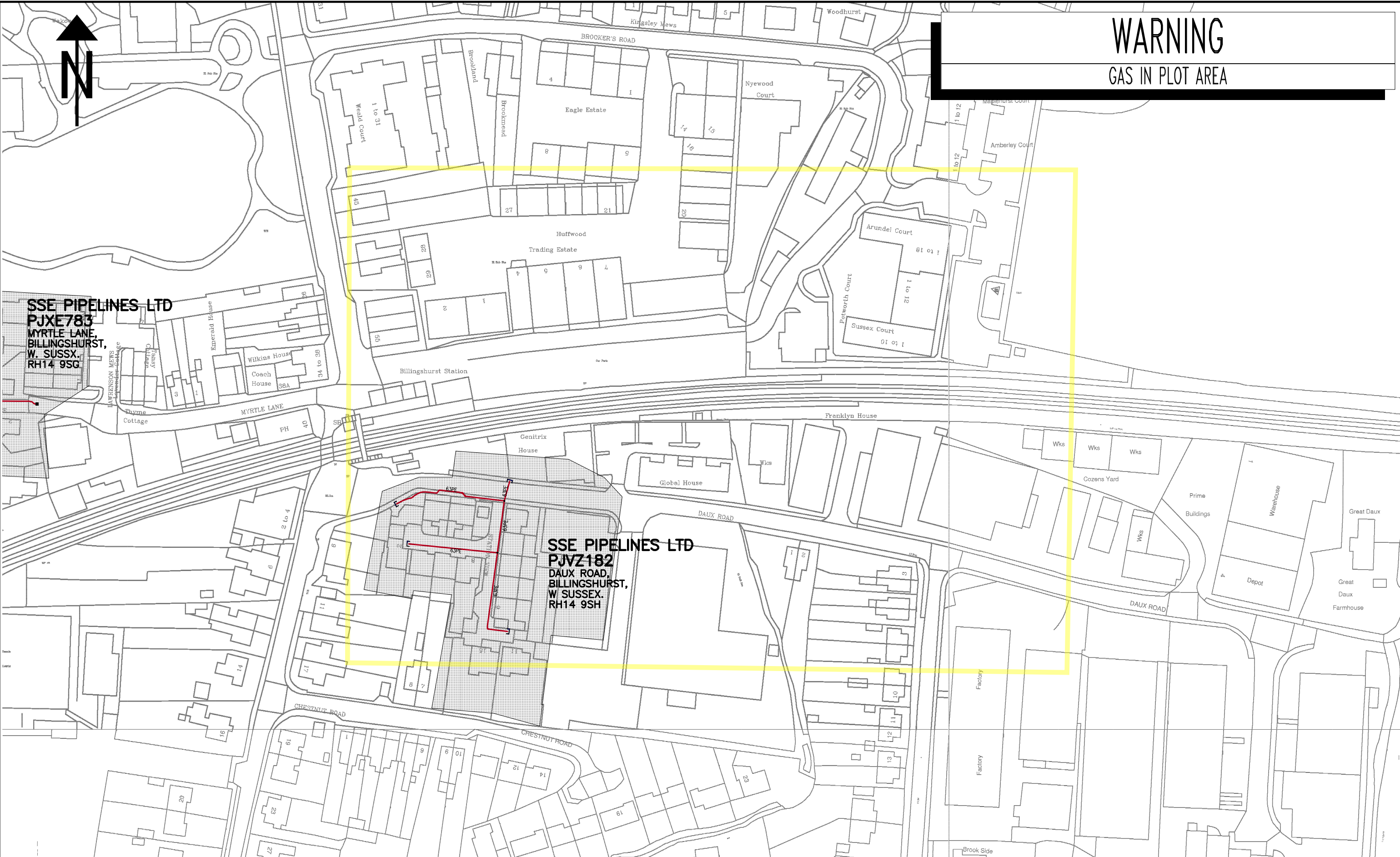
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE G56 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.		 Scottish & Southern Electricity Networks	
services	l.v.	h.v.	e.h.v.	This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('the Act'). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner. Template: SIAS MSHA COL A5 plot			hv_1250_500		Grid Ref: tq08912510	
FOOTPATH	0.40m	0.45m	0.60m	0.75m	Southern Electric Power Distribution plc. Registered in England No. 04094280 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH	UNCONTROLLED COPY  Subject to Revision Master held at	ALDERSHOT 01252-356100		Scale:	1:1250
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m					Date:	01/10/2018
l.v./services	– up to 1000V.						HV			
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									




# WARNING

## GAS IN PLOT AREA





















































NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
services	l.v.	h.v.	e.h.v.	This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('the Act'). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner. <small>Template: S&amp;S MSHA COL A5 plot</small>			lv_1250_500	Grid Ref: tq08912510		
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ROAD CROSSING	0.60m	0.60m	0.75m	0.90m			UNCONTROLLED COPY Subject to Revision Master held at		Date: 01/10/2018	
l.v./services	– up to 1000V.			LV						
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									



**WARNING**  
GAS IN PLOT AREA



NORMAL DEPTH TO THE TOP OF THE PIPE WHEN LAID				<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.					
MAINS		SERVICES				This copy has been made by or with the authority of Indigo Pipelines Ltd. pursuant to section 47 of the Copyright Designs and Patents Act 1988 ('the Act'). Unless the Act provides a relevant exception to copyright, the copy must not be copied without prior permission of the copyright owner. Template: SHAS NBSWA COL AS plot GAS		gas_1250_500		Grid Ref: tq08912510	
FOOTPATH		0.60m		PRIVATE		0.375m		ALDERSHOT		Scale: 1:1250	
VERGE		0.75m		PUBLIC		0.45m		01252-356100		Date: 01/10/2018	
ROAD		0.75m						UNCONTROLLED COPY		GAS	
						Indigo Pipelines Ltd. Registered in England and Wales No. 02742721 Registered Office : One London wall, London EC2Y 5AB.		Subject to Revision Master held at			

## GIS Electric Symbols for Southern England (SEPD)

	LV Underground service cable		Pole
	LV Underground mains cable		Pole mounted transformer
	2kV-3.3kV Underground cable		Substation
	6.6kV Underground cable		Link box
	11kV Underground cable		Pillar
	22kV Underground cable		Major pipeline
	33kV Underground cable		Assumed route
	66kV Underground cable		Cross section
	132kV Underground cable		Ducting
	LV Overhead cable		Flying stay
	2kV-3.3kV Overhead cable		PME Earth
	6.6kV Overhead cable		Neutral earth
	11kV Overhead cable		Oil/Gas gauge
	22kV Overhead cable		Oil/Gas tank
	33kV Overhead cable		Balancer
	66kV Overhead cable		Regulator
	132kV Overhead cable		Pit
	Fibre optic cable		Schematic connector
	Pilot cable		Supply location-property
	Circuit breaker		Supply location-other
	Switch connector		Supply location-street furniture
	Pole box		
	Straight joint		
	Tee joint		
	Trifurcating joint		
	Pot end joint		
	Capped end joint		
	Sealing end joint		
	Service connector joint		
	O/H Connector joint		
	Wall box joint		

## GIS Environment Guide



### Countryside Agency

-  Areas of Outstanding Natural Beauty (AONB)
-  National park

### Environment Agency

-  Borehole
-  Water extraction point
-  Sensitive waterway
-  Source protection zone
-  Vulnerability zone



### Forestry Commission

-  Access
-  Ownership




### English Heritage / Historic Scotland

-  Monuments









### SEPA

-  Flood Area
-  Flood Location

### English Nature / Scottish Natural Heritage

-  Site of Special Scientific Interest (SSSI)
-  National Nature Reserve (NNR)
-  RAMSAR
-  Special Area of Conservation (SAC)
-  Special Protection Area (SPA)
-  Ancient Woodland

### Areas of Concern

-  Contaminated
-  Cadmium
-  Methane
-  Heavy Metal-Unclassified
-  Asbestos
-  Ordnance
-  Mercury
-  Restricted Access

If in doubt ask Scottish & Southern Energy Power Distribution  
[mapping.services@sse.com](mailto:mapping.services@sse.com)



Premier Energy  
Premier House  
Daux Road  
Billingshurst  
West Sussex  
RH14 9SJ

Your ref Daux Road  
Our ref 309857  
Date 01 October 2018  
Contact [searches@southernwater.co.uk](mailto:searches@southernwater.co.uk)  
Tel 0845 272 0845  
0330 303 0276  
Fax 01634 844514

Attention: Hannah Stalley

Dear Customer

**Re: Provision of public sewer and water main record extract**

**Location: Premier House Daux Road Billingshurst**

Thank you for your order regarding the provision of extracts of our sewer and/or water main records. Please find enclosed the extracts from Southern Water's records for the above location.

We confirm payment of your fee in the sum of £49.92 and enclose a VAT receipt for your records.

Customers should be aware that there are areas within our region in which there are neither sewers nor water mains. Similarly, whilst the enclosed extract may indicate the approximate location of our apparatus in the area of interest, it should not be relied upon as showing that further infrastructure does not exist and may subsequently be found following site investigation. Actual positions of the disclosed (and any undisclosed) infrastructure should therefore be determined on site, because Southern Water does not accept any responsibility for inaccuracy or omission regarding the enclosed plan. Accordingly it should not be considered to be a definitive document.

Should you require any further assistance regarding this matter, please contact the LandSearch team.

Yours faithfully

LandSearch

# VAT receipt

## Ordered by:

Premier Energy  
Daux Road  
Billingshurst  
West Sussex  
RH14 9SJ

**VAT registration number:** 813 0378 56

**Order reference:** 309857

**Your reference:** Daux Road

Receipt for provision of an extract from the public sewer and/or water main records.

Location	Costs
Premier House Daux Road Billingshurst	£41.60
<b>Net total</b>	£41.60
<b>VAT</b>	£8.32
<b>Total</b>	£49.92
<b>Paid</b>	<b>Paid in full</b>

## Thank you for your payment:

Received on: 19 October 2018

For enquiries regarding the information provided in this receipt, please contact the LandSearch team:

Tel: 0845 270 0212  
0330 303 0276 (individual consumers)

Email: [searches@southernwater.co.uk](mailto:searches@southernwater.co.uk)

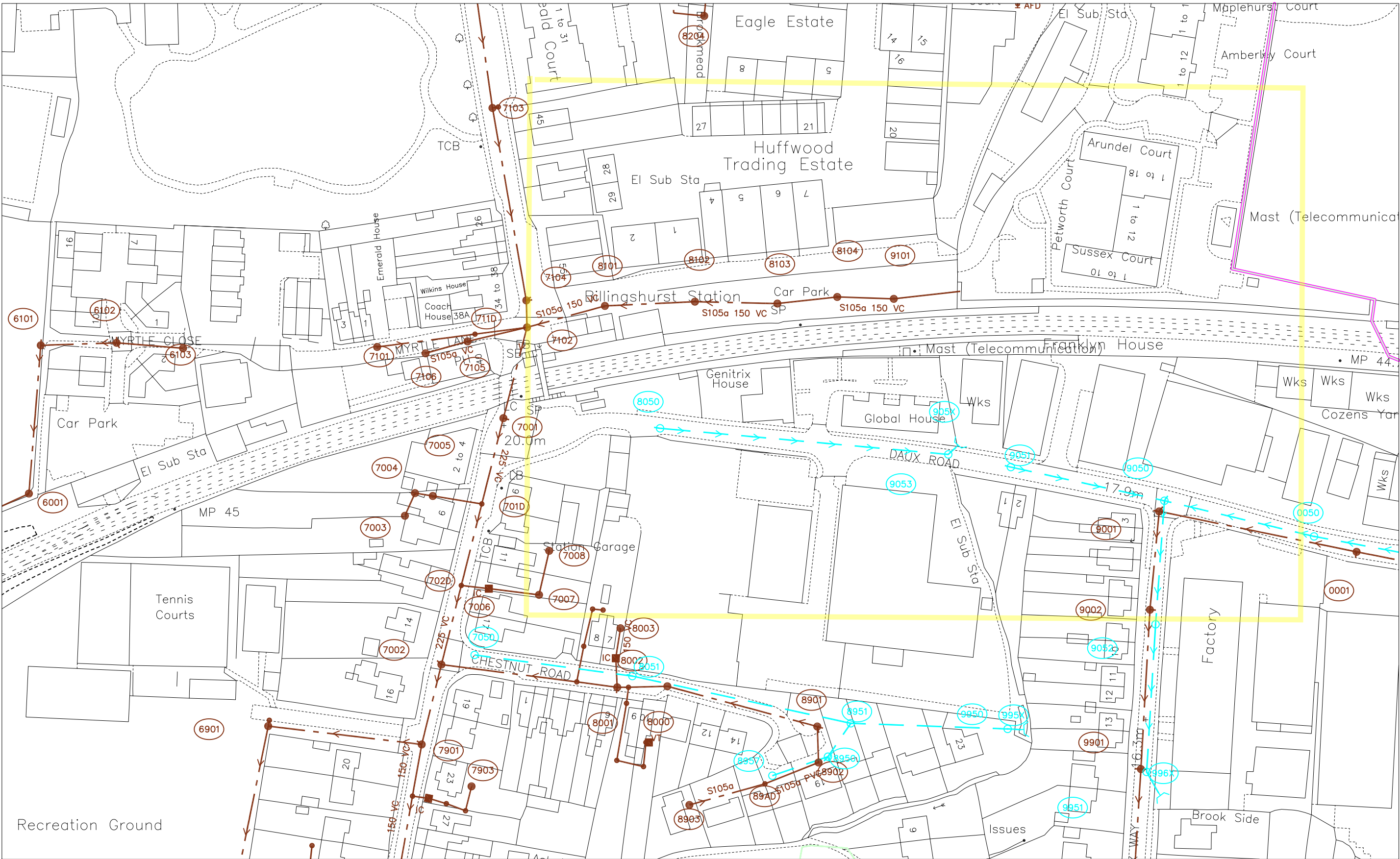
Web: [www.southernwater.co.uk](http://www.southernwater.co.uk)

LandSearch  
Southern Water Services  
Southern House  
Capstone Road  
Chatham  
Kent  
ME5 7QA



## SEWER RECORDS PAGE 1 OF 2

125231



124943

508604

O.S. REF.

TQ0825SE

**Title:** 309857 Premier House Daux Road

Drawn by: ahmadr

Scale: 1:1250

Date: 01/10/2018

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy.  
The actual positions should be determined on site.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement  
WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement

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Licence No. WU 298530.




509075

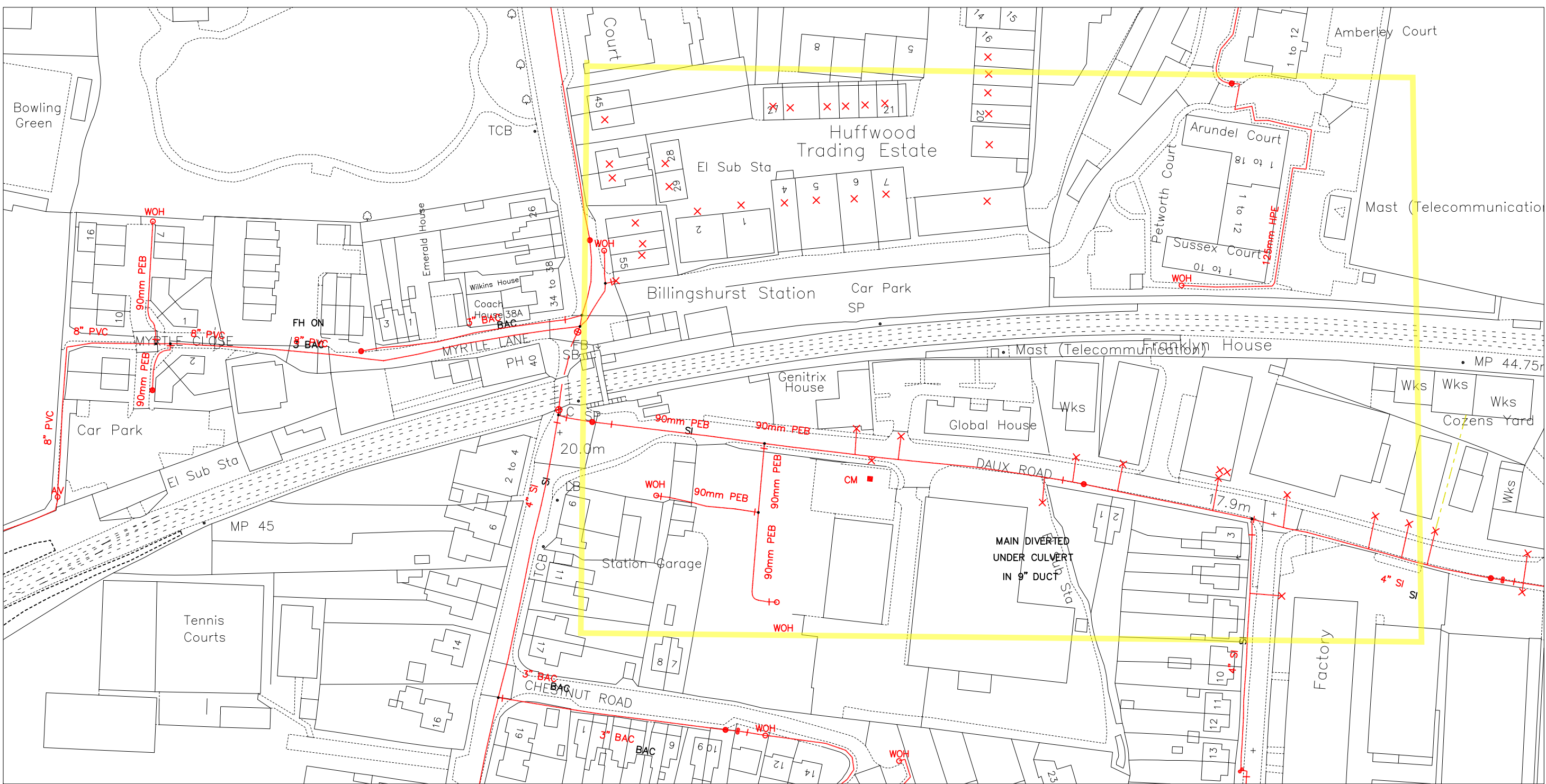
SEWER RECORDS PAGE 2 OF 2

Node	Cover	Invert	Size	Material	Shape	Node	Cover	Invert	Size	Material	Shape	Node	Cover	Invert	Size	Material	Shape	Node	Cover	Invert	Size	Material	Shape
0001X	18.2	17.11	150	VC	CIRC	9053X	18.79		225	VC	CIRC												
0050X	18.1	16.5	375	CP	CIRC	9101X			150	VC	CIRC												
6001X	17.76	15.96	150	VC	CIRC	9901X	16.46	15.7	150	UNK	CIRC												
6101X	17.14	16.04	150	VC	CIRC	9950X	16.72		300	VC	CIRC												
6102X	18.1	16.95	150	VC	CIRC	9951X	16.4		UNK	UNK	CIRC												
6103X			150	VC	CIRC																		
6901X	16.49	13.53	375	CP	CIRC																		
7001X	19.96	15.32	225	VC	CIRC																		
7002X	18	14.91	225	VC	CIRC																		
7003X			UNK	UNK	CIRC																		
7004X			UNK	UNK	CIRC																		
7005X			UNK	UNK	CIRC																		
7006X			UNK	UNK	CIRC																		
7007X			UNK	UNK	CIRC																		
7008X			UNK	UNK	CIRC																		
700DX			225	VC	CIRC																		
701DX			225	VC	CIRC																		
702DX			225	VC	CIRC																		
7050X			UNK	UNK	CIRC																		
7101X			150	VC	CIRC																		
7102X	20.62	17.15	225	VC	CIRC																		
7103X	21.91	18.08	225	VC	CIRC																		
7104X	20.97	17.84	225	VC	CIRC																		
7105X			UNK	VC	CIRC																		
7106X			UNK	VC	CIRC																		
711DX			150	VC	CIRC																		
7901X	17.31	14.6	375	CP	CIRC	*																	
7901Y	17.31	15.37	150	VC	CIRC	*																	
7903X			UNK	UNK	CIRC																		
7904X			UNK	UNK	CIRC																		
794DX			UNK	UNK	UNK																		
79ADX			UNK	UNK	CIRC																		
79BDX			UNK	UNK	CIRC																		
79CDX			150	VC	CIRC																		
8000X	18.23	15.56	150	VC	CIRC																		
8001X	18.25	15.27	225	VC	CIRC																		
8002X			150	VC	CIRC																		
8003X			150	VC	CIRC																		
800DX			UNK	UNK	UNK																		
801DX			UNK	UNK	UNK																		
802DX			UNK	UNK	UNK																		
803DX			150	VC	CIRC																		
8050X	20.13	18.78	225	CP	CIRC																		
8051X	18.17		225	VC	CIRC																		
8101X			150	VC	CIRC																		
8102X			150	VC	CIRC																		
8103X			150	VC	CIRC																		
8104X			150	VC	CIRC																		
8204X			UNK	UNK	UNK																		
8901X	17.85	16.02	150	VC	CIRC																		
8902X			UNK	PVC	CIRC																		
8903X			UNK	UNK	CIRC																		
890DX			UNK	UNK	UNK																		
891DX			UNK	UNK	UNK																		
893DX			UNK	UNK	UNK																		
894DX			UNK	UNK	UNK																		
8950X	17.61		150	VC	CIRC																		
8951X	17.74		300	VC	CIRC																		
8957X			UNK	UNK	CIRC																		
89ADX			UNK	PVC	CIRC																		
9001X	17.95	16.48	150	VC	CIRC																		
9002X	17.27	16.21	150	VC	CIRC																		
9050X	18.02	15.81	450	CP	CIRC																		
9051X	18.49	16.96	225	CP	CIRC																		
9052X	17.13	15.55	450	CP	CIRC																		

LINE STYLES / COLOURS	MATERIALS	LEGEND - SEWERS
<div><div></div><div>Brown</div></div> <div><div></div><div>Foul</div></div> <div><div></div><div>Foul Syphon Sewer</div></div> <div><div></div><div>Foul Vacuum Main</div></div> <div><div></div><div>Foul Rising Main</div></div> <div><div></div><div>Combined</div></div> <div><div></div><div>Combined Syphon Sewer</div></div> <div><div></div><div>Combined Rising Main</div></div> <div><div></div><div>Lateral Drain</div></div> <div><div></div><div>Building Over Agreement Area</div></div> <div><div></div><div>Treated Effluent</div></div> <div><div></div><div>Sludge</div></div> <div><div></div><div>Sewer Catchment</div></div> <div><div></div><div>Section 104 Area</div></div> <div><div></div><div>Surface Water</div></div> <div><div></div><div>Surface Water Rising Main</div></div> <div><div></div><div>Private</div></div> <div><div></div><div>Access Shaft</div></div> <div><div></div><div>Decommissioned</div></div>	<div><div></div><div>AK Alkathene</div></div> <div><div></div><div>BAC Bonded Asbestos Cement</div></div> <div><div></div><div>BRC Brick (Common)</div></div> <div><div></div><div>BRE Brick (Engineering)</div></div> <div><div></div><div>CC Concrete Box Culvert</div></div> <div><div></div><div>CI Cast Iron</div></div> <div><div></div><div>CO Concrete (In-Situ)</div></div> <div><div></div><div>CP Concrete (Pre-Cast)</div></div> <div><div></div><div>CSB Concrete Segments (bolted)</div></div> <div><div></div><div>CSU Concrete Segments (unbolted)</div></div> <div><div></div><div>DI Ductile Iron</div></div> <div><div></div><div>GRC Glass Reinforced Concrete</div></div> <div><div></div><div>GRP Glass Reinforced Plastic</div></div> <div><div></div><div>MAC Masonry in regular Courses</div></div> <div><div></div><div>MAR Masonry in random Courses</div></div> <div><div></div><div>PE Polyethylene</div></div> <div><div></div><div>PF Pitch Fibre</div></div> <div><div></div><div>PP Polypropylene</div></div> <div><div></div><div>PVC Polyvinyl Chloride</div></div> <div><div></div><div>RPM Reinforced Plastic Matrix</div></div> <div><div></div><div>SI Spun Iron</div></div> <div><div></div><div>ST Steel</div></div> <div><div></div><div>VC Vitrified Clay</div></div> <div><div></div><div>XXX Other</div></div> <div><div></div><div>ZZZ Unknown</div></div>	<div><div></div><div>Washout (SW)</div></div> <div><div></div><div>Washout (F&amp;C)</div></div> <div><div></div><div>Rodding Eye (SW)</div></div> <div><div></div><div>Rodding Eye (F&amp;C)</div></div> <div><div></div><div>Gauging point (SW)</div></div> <div><div></div><div>Gauging point (F&amp;C)</div></div> <div><div></div><div>Intercept chamber (SW)</div></div> <div><div></div><div>Intercept chamber (F&amp;C)</div></div> <div><div></div><div>Storm Tank (SW)</div></div> <div><div></div><div>Storm Tank (F&amp;C)</div></div> <div><div></div><div>Vortex chamber (SW)</div></div> <div><div></div><div>Vortex chamber (F&amp;C)</div></div> <div><div></div><div>Label ellipse</div></div> <div><div></div><div>Dummy/S24 manhole</div></div> <div><div></div><div>Outfall</div></div> <div><div></div><div>Penstock chamber</div></div> <div><div></div><div>Damboards</div></div> <div><div></div><div>Storm Overflow</div></div> <div><div></div><div>Backdrop manhole</div></div> <div><div></div><div>Other (s)</div></div> <div><div></div><div>Other</div></div> <div><div></div><div>Change in sewer (s)</div></div> <div><div></div><div>Change in sewer</div></div> <div><div></div><div>Reflex valve</div></div> <div><div></div><div>Flap valve</div></div> <div><div></div><div>Cascade</div></div> <div><div></div><div>Anode</div></div> <div><div></div><div>Valve</div></div> <div><div></div><div>Closed Valve</div></div> <div><div></div><div>Air Valve</div></div> <div><div></div><div>Hatch box (SW)</div></div> <div><div></div><div>Hatch box (F&amp;C)</div></div> <div><div></div><div>Direction arrow</div></div> <div><div></div><div>Emptying valve</div></div> <div><div></div><div>Catchpit</div></div> <div><div></div><div>Soakaway</div></div> <div><div></div><div>Inlet</div></div> <div><div></div><div>Balancing Pond</div></div> <div><div></div><div>Wastewater treatment works</div></div> <div><div></div><div>Marine treatment works</div></div> <div><div></div><div>Outfall headworks</div></div> <div><div></div><div>Vent</div></div> <div><div></div><div>Vent column</div></div> <div><div></div><div>Tidal storage tank</div></div> <div><div></div><div>Blank end</div></div> <div><div></div><div>Head of Public Sewer</div></div> <div><div></div><div>Micro Pumping Station</div></div>
<div><div>SHAPES (S)</div><div><div>A</div><div>Arched</div></div><div><div>B</div><div>Barrel</div></div><div><div>C</div><div>Circular</div></div><div><div>E</div><div>Egg</div></div><div><div>H</div><div>Horseshoe</div></div><div><div>X</div><div>Other</div></div><div><div>R</div><div>Rectangular</div></div><div><div>S</div><div>Square</div></div><div><div>T</div><div>Trapezoidal</div></div><div><div>U</div><div>U Shape</div></div><div><div></div><div></div></div></div> <div><div>NODE REFERENCING SYSTEM</div><div><div>1st digit:</div><div>hundred metre easting identifier</div></div><div><div>2nd digit:</div><div>hundred metre northing identifier</div></div><div><div>3rd digit:</div><div>sewer type identifier</div></div><div><div>4th digit:</div><div>next sequential node</div></div><div><div>0-4 = Foul/Combined</div></div><div><div>5-9 = Surface Water</div></div></div>		

Drawn by:	ahmadr	
Title:	309857_Premier House Daux Road	
Date:	01/10/2018	

125222



124979

665805

508031

LEGEND - MAINS

	Distribution Main / Communication pipe		Clockwise closing valve
	Trunk Main		Fire Hydrant
	Raw water main		Washout
	Non potable		Washout hydrant
	Abandoned main		Meter
	Proposed Main		Capped end
	Fire main		Emptying plug
	Non SWS		Stopcock
	Sluice valve		Leak Noise Correlator Survey Point
	Closed valve		Anode
	Air valve		Telemetry cable
	Butterfly valve		Access point / hatchbox
	Pressure reducing valve		
	Reflux valve		
	Motorised valve		

MATERIALS

	Dialysis machine	Alkathene
	Break pressure tank	Cast iron
	Change node	Spun (grey) iron
	Pumping station	Concrete
	Booster station	Ductile iron
	Insertion Flow Meter Point	Bonded Asbestos Cement
	Water tower	Glass reinforced plastic
	Service reservoir	Glass reinforced epoxy
	Water Supply Works	(Unplasticised) Polyvinyl chloride
	Bore hole / Well	Polyethylene
	Intake	Steel
	Customer site	Concrete segments bolted
	Swab insertion point	Concrete segments unbolted
		Galvanised iron
		Ductile sleeve
		Concrete pre-stressed
		High performance polyethylene
		Unknown

Drawn by: ahmadr

Scale: 1:1250

Date: 01/10/2018

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd. accept no responsibility in the event of inaccuracy. The actual positions of pipes should be determined on site.

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O.S.Ref: TQ0825SE

TITLE: 309857\_Premier House Daux Road



WARNING: BAC pipes are constructed of Bonded Asbestos Cement

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement

Our Ref: 13774365      Your Ref: Daux Road

Thursday, 20 September 2018

Celeste Imthurn  
Prmier Energy Daux Road  
Billingshurst  
West Sussex  
RH14 9SJ

Dear Celeste Imthurn

Thank you for your enquiry dated Thursday, 20 September 2018

Please find an extract from our mains records for your proposed work area, any SGN assets are described in the map legend. **On some occasions blank maps may be sent to you, this is due to your proposed work being in a no gas area but within our operational boundaries.**

This mains record only shows the pipes owned by SGN in our role as a Licensed Gas Transporter (GT). Please note that privately owned gas pipes or pipes owned by other GTs may be present in this area and information regarding those pipes needs to be requested from the owners. If we know of any other pipes in the area we will note them on the plans as a shaded area and/or a series of x's.

**The information shown on this plan is given without obligation or warranty and the accuracy cannot be guaranteed. Service pipes, valves, siphons, stub connections etc. are not shown but their presence should be anticipated. Your attention is drawn to the information and disclaimer on these plans. The information included on the plan is only valid for 28 days.**

On the mains record you may see the low/medium/intermediate pressure gas main near your site. There should be no mechanical excavations taking place above or within 0.5m of a low/medium pressure system or above or within 3.0m of an intermediate pressure system. You should, where required confirm the position using hand dug trial holes.

A colour copy of these plans and the gas safety advice booklet enclosed should be passed to the senior person on site in order to prevent damage to our plant and potential direct or consequential costs to your organisation.

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the 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 relevant people (direct labour or contractors) working for you on or near gas pipes.

It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that we are able to gain access to our apparatus throughout the duration of your operations.

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

Yours sincerely,  
The Safety Admin Team  
**For more information, visit our Dig Safely pages on [sgn.co.uk](http://sgn.co.uk)**  
Tel: 0800 912 1722



**SGN**  
Your gas. Our network.

#### Contact Us

**Mapping Enquiries:**  
All areas

**General Enquiries:**  
All areas

Date Requested: 20/09/2018  
Job Reference: 13774365  
Site Location: 508981 125056  
Requested by:  
Miss Celeste Imthurn  
Your Scheme/Reference:  
Daux Road

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**0800 111 999**

Low Pressure Mains

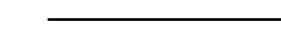
Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LAs

GTs



Some Examples Of Plant Items

Valve



Syphon



Depth of Cover



Diameter Change



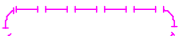
Material Change



Digsite: Line:

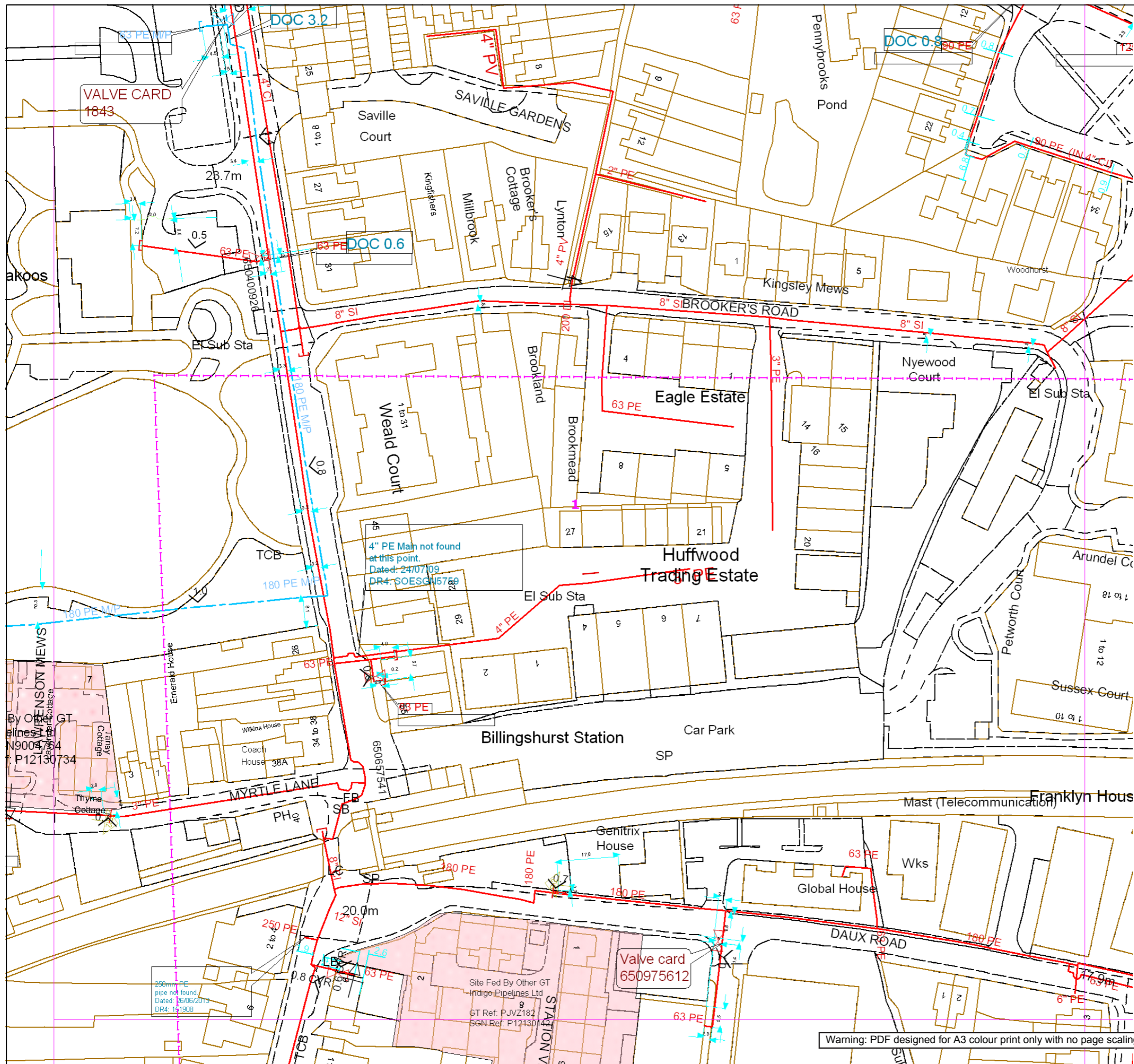


Area:



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Warning: PDF designed for A3 colour print only with no page scaling.



**Contact Us**  
**Mapping Enquiries:**  
All areas

**General Enquiries:**  
All areas

Date Requested: 20/09/2018  
Job Reference: 13774365  
Site Location: 508981 125056  
Requested by:  
Miss Celeste Imthurn  
Your Scheme/Reference:  
Daux Road  
Exact Scales:  
1:1000 Area or Circle dig site  
1:1000 Line dig site

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**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**0800 111 999**

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LAs

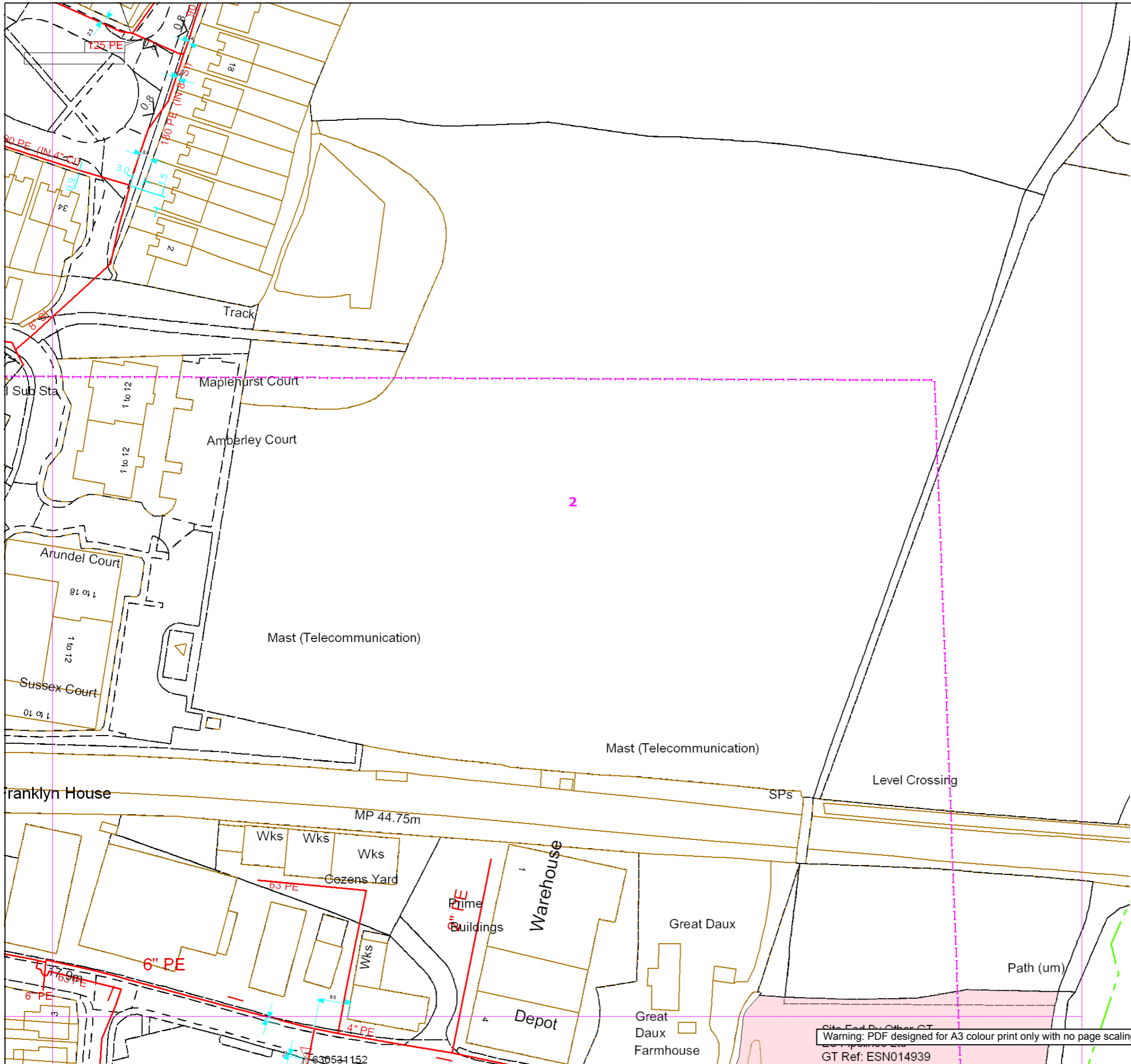
GTs

Some Examples Of Plant Items

Valve Syphon Depth of Cover Diameter Change Material Change

Digsite: Line: Area:

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**SGN**  
Your gas. Our network.

**Contact Us**  
**Mapping Enquiries:**  
All areas

**General Enquiries:**  
All areas

Date Requested: 20/09/2018  
Job Reference: 13774365  
Site Location: 508981 125056  
Requested by:  
Miss Celeste Imthurn  
Your Scheme/Reference:  
Daux Road  
Exact Scales:  
1:1000 Area or Circle dig site  
1:1000 Line dig site

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**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**0800 111 999**

Low Pressure Mains







Medium Pressure Mains

Intermediate Pressure Mains






High Pressure Mains


LAs

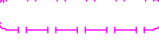
GTs



Some Examples Of Plant Items

Valve  Syphon  Depth of Cover  Diameter Change  Material Change 

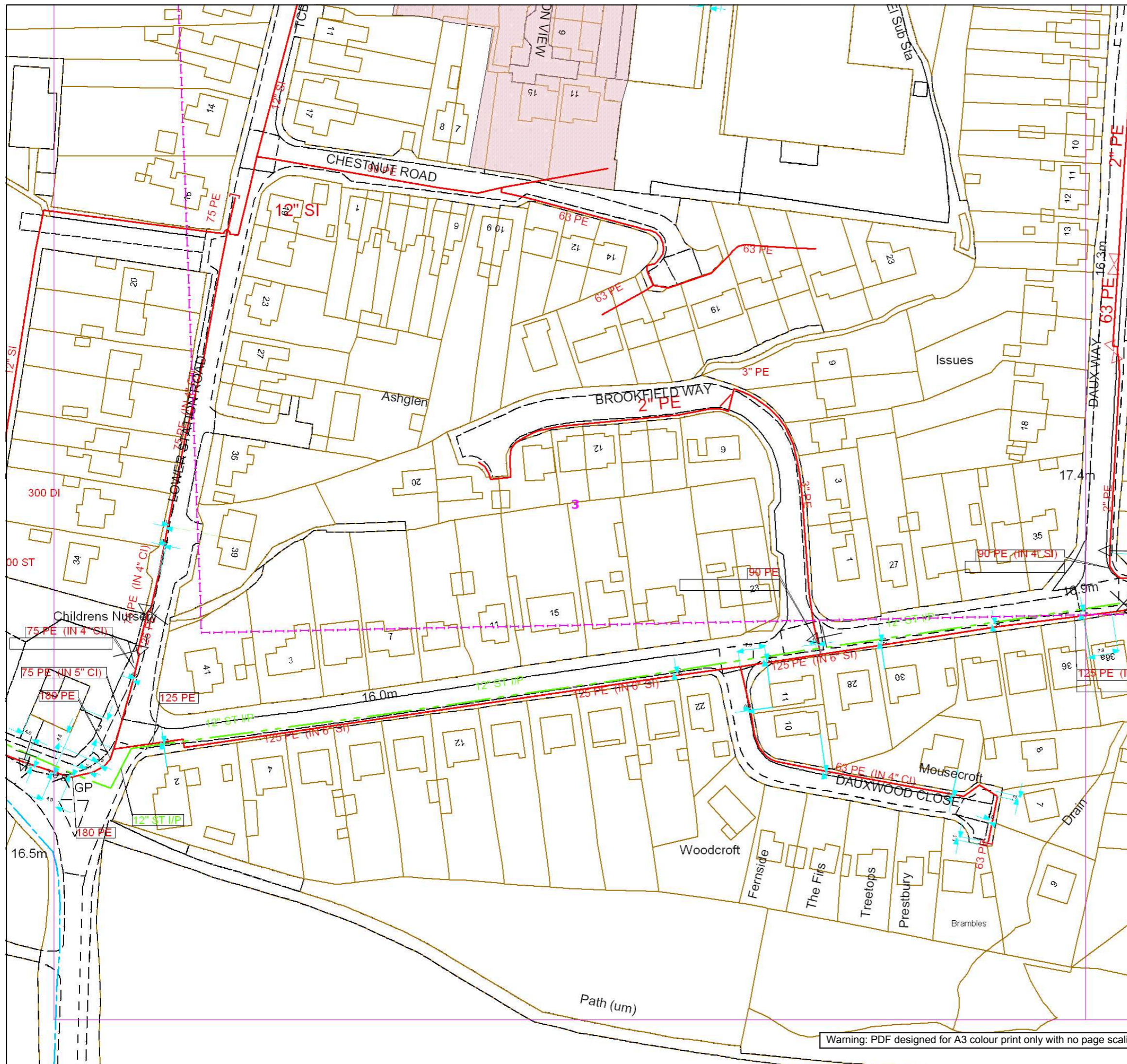
Digsite: Line: 

Area: 



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Warning: PDF designed for A3 colour print only with no page scaling.  
GT Ref: ESN014939



**Contact Us**  
**Mapping Enquiries:**  
All areas

**General Enquiries:**  
All areas

Date Requested: 20/09/2018  
Job Reference: 13774365  
Site Location: 508981 125056  
Requested by:  
Miss Celeste Imthurn  
Your Scheme/Reference:  
Daux Road  
Exact Scales:  
1:1000 Area or Circle dig site  
1:1000 Line dig site

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**0800 111 999**

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LAs

GTs

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Diameter Change

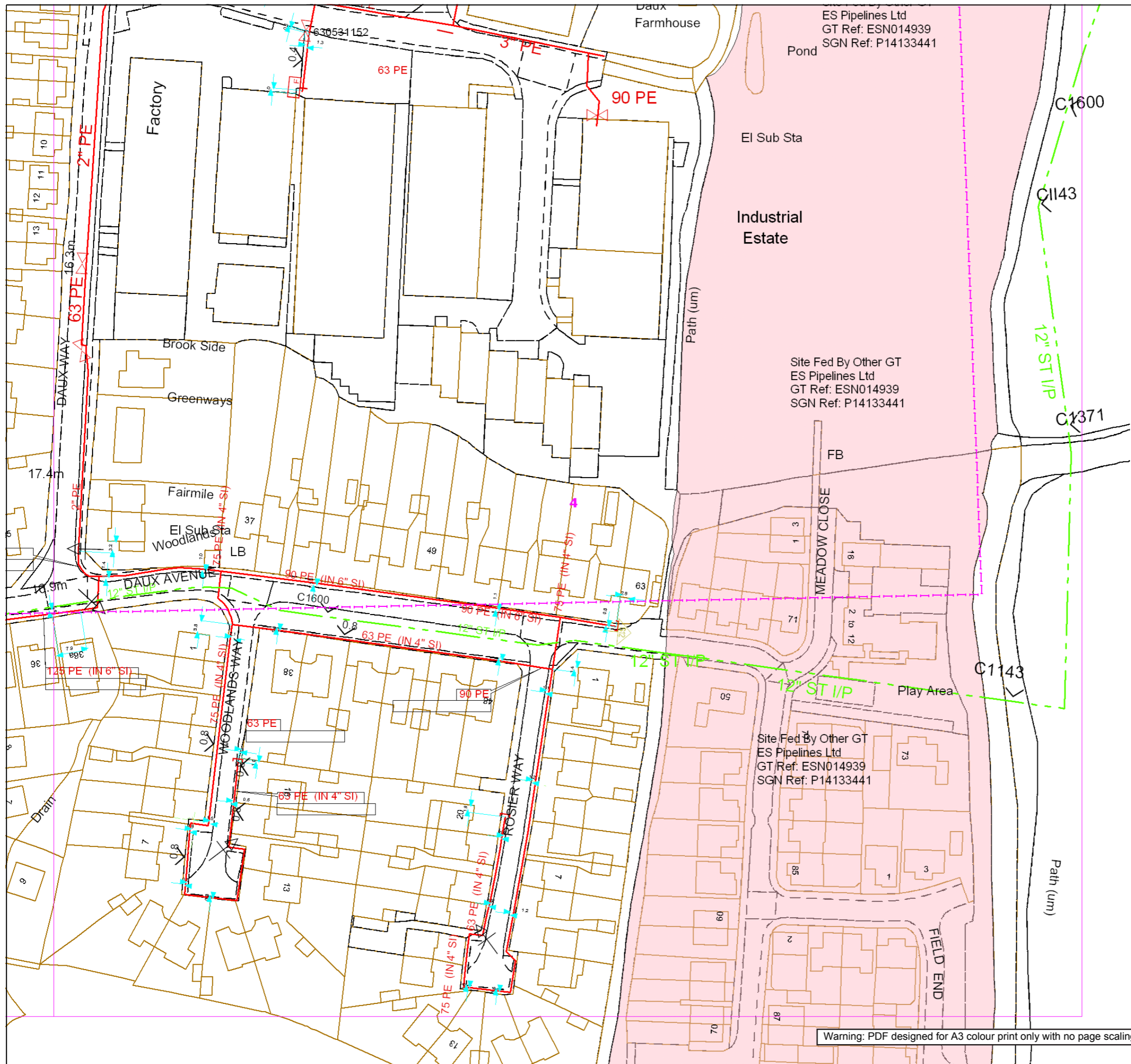
Material Change

SSSIs

Digsite: Line: Area:



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All areas

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# Map Symbols

VALVE OPEN	VALVE CLOSED	GOVERNOR	END CLOSURE	SYPHON	REDUCER	TEE
TEST POINT	CATHODIC PROTECTION	GENERAL REFERENCE	FLOW MEASURE	DIP POINT	MONO ETHYLENE GLYCOL	OILING POINT
FLOW STOP	PRESSURE MEASUREMENT	STAND PIPE	OFFICIAL MINISTRY RECORD	PURGE POINT	GAS CONDITIONER	DRAIN POINT
					LP MAINS	
SKETCH BUBBLE	DEPTH OF COVER	METER	MATERIAL CHANGE		MP MAINS	
					IP MAINS	
					LHP MAINS	
					HISTORY DATA	
					SSSI	
PIG TRAP	CROSSOVER CONNECTION	CHANGE OF DIAMETER	PIPE JOINT		CONTACT ZONE	
						LTS



# SGN

Your gas. Our network.

## Dig safely

Measures to avoid injury  
and damage to gas pipes



**The following protective and precautionary measures MUST be taken when working in the vicinity of gas mains and services.**

It is the responsibility of the property owner or company carrying out the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance, eg HS(G)47. In practice, this means that whoever is carrying out the work MUST obtain gas mains location information and/or maps showing the indicative position of the gas network before any work takes place.

**To avoid injury to yourself, your employees, colleagues and the general public you MUST suitably mark the position of the pipes on site.**

HS(G)47 outlines best practice that should be followed to ensure you work safely:

1. Plan the work, obtain maps.
2. Detecting, identifying and marking underground services.
3. Safe excavation and safe digging practices.

In addition to the requirements under the Health and Safety At Work etc. Act 1974 to prevent injuries to employees and others (not employed), it is an offence under regulation 15 of the Pipelines Safety Regulations 1996 to cause damage to a pipeline (which includes gas mains and services as well as higher pressure pipelines) so as to give rise to a danger to persons.

**You MUST make sure that current full colour copies of our maps are issued to all relevant personnel on site and they're aware of the presence and location of our gas mains and services prior to any excavation.**

## In a gas emergency

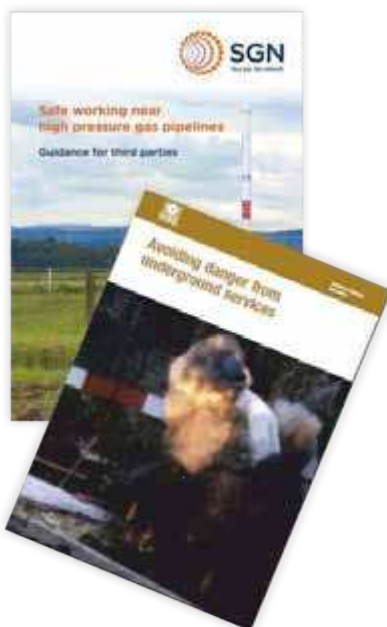
If you cause a gas leak or suspect a main or service pipe or equipment is leaking, you **MUST** take the following emergency actions immediately:

- **Ask people to move away from the area of the gas escape.**
- **Call 0800 111 999 immediately.**

1. **Don't attempt to repair the escape or stop the leakage.**
2. **As gas may enter buildings, ask people in the surrounding premises to leave until it's safe for them to return.**
3. **Stop anyone going near the immediate vicinity of the gas escape.**
4. **Prohibit smoking and extinguish all naked flames.**
5. **Don't use mobile phones or other ignition sources.**
6. **Assist our representatives and other emergency services such as the police, ambulance, and fire service as requested.**

## Additional reference material

- SGN guidance for Safe Working in the Vicinity of Pipelines & Associated Installations operating >7barg. Applicable for HP only.
- HS(G)47 **Avoiding Danger from Underground Services** available from [hse.gov.uk](http://hse.gov.uk)
- NJUG **Utilities Guidance on Positioning and Colour Coding of Apparatus** available from [njug.org.uk](http://njug.org.uk)





## Making an enquiry for gas mains or services maps

Please visit our **Dig safely** pages on **[sgn.co.uk](https://sgn.co.uk)** for plant protection information and links to our online mapping system and other associated information and guidance.

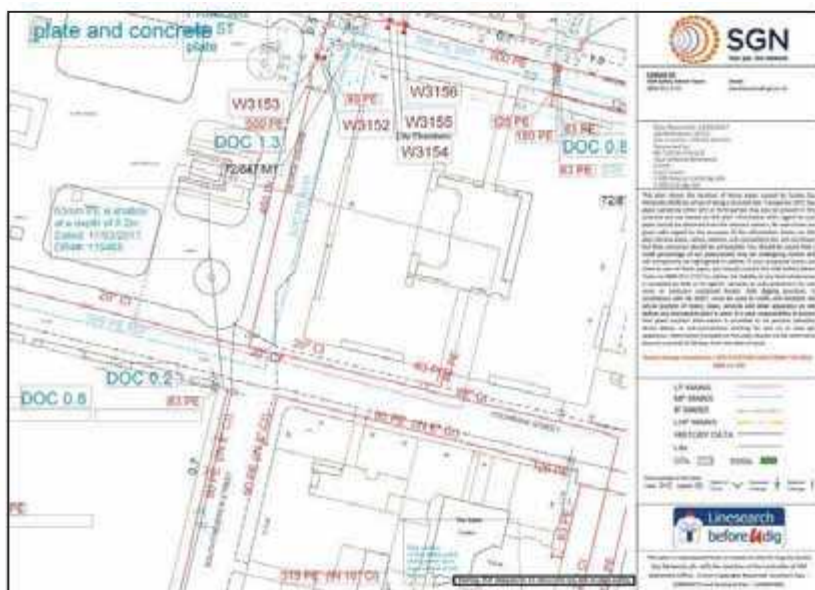
Our simple and easy to use online mapping system is available 24/7, 365 days a year.

You'll need to register/log in and provide a few details about your site location and the work you'll be carrying out. We'll respond immediately by email.

## What you're likely to be sent

You'll be sent an email with a map. This will be an extract from our gas mains record, showing your site and any of our gas pipes as well as relevant safety information.

We always send out safety information, however we may forward your enquiry on to a local plant protection officer or a pipelines engineer to make direct contact with you depending on the work location.



### Example of a gas map

Note: Service pipes are not shown on our maps

# When working near our gas mains and services

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## Safe system of work

To satisfy ourselves that work in the vicinity of our gas mains is being carried out safely, we may ask for a copy of your risk assessment and/or method statement paperwork.

Where work falls under the Construction (Design and Management) Regulations 2015 reference to our gas mains and services **MUST** be made within your site Health and Safety file.

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## Financial

Every reasonable precaution **MUST** be taken to avoid personal injury or damage to our gas network at all times.

If we incur any costs to repair direct or consequential damage or divert any gas main or service, you'll be recharged in full.

## HSE

Any damage to our gas mains or services will be subject to legislative reporting responsibilities to the Health and Safety Executive under Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013, Gas Safety Management Regulations 1996, and the Pipelines Safety Regulations 1996.

## Minimum safe working distances

Depending on the activity being undertaken and the gas mains or services you are working within the vicinity of, there are different safe distances that **MUST** be adhered to. SGN plant protection officers or pipeline engineers will inform you of these if required.

## Surface boxes and manholes

Do not bury or move our surface boxes. Free access **MUST** be maintained during and after your work. No manhole cover or other structure can be built over, around or under a gas main, and no work is to be carried out that results in a reduction or increase in cover or protection without prior written agreement.

## Deep excavations

Adequate protection, approved by us, **MUST** be applied for any deep excavations in the vicinity of our gas mains and services that may affect its security and integrity. Ground movement around gas mains **MUST** be prevented. We **MUST** be contacted if a sewer trench or any other water authority is to be constructed at greater than 1.5 metres depth near a buried gas main or service pipe. You **MUST** give us detailed drawings showing the line and width of the proposed sewer or other trench, together with the soil group classification of the area concerned.



## Crossing our mains or services

The placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over our gas mains is prohibited unless specifically agreed protective measures (ie the construction of reinforced crossing points) have been carried out. This is particularly important where reductions in side support or ground cover are planned. You **MUST NOT** carry out any work in servitudes/easements without our prior written consent.

## Exposed plant

Where excavations in the vicinity of our gas mains affect its support, the plant **MUST** be adequately supported and protected in consultation with us and to our satisfaction. It **MUST** be protected from impact, restraints and thrust blocks, and supports **MUST NOT** be removed without our agreement.

## Hot work

One of our representatives should be present when welding or other hot work involving naked flames is being carried out near our gas mains, as there's potential for heat damage to plastic pipeline/coatings.

## Backfilling

Concrete backfill should not be placed closer than 300mm to our mains. No concrete or hard material should be placed under or adjacent to any of our gas mains. Shuttering **MUST** be constructed to maintain the stated clearances and prevent fresh concrete encasing our mains or services. Material used for backfill around our gas mains **MUST** conform to the following:

- If sand, it **MUST** be well-graded in accordance with BS EN 12620:2002.
- It **MUST NOT** contain any sharp particles (stones, bricks, lumps or corrosive materials).
- Foamed concrete **MUST NOT** be used.
- It **MUST** be laid to a minimum depth of 250mm above the crown of the gas main.

Note: Power ramming **MUST NOT** take place until a 300mm hand rammed layer has been completed over the crown of the main.

## Access





Free access to our sites, mains and services, including temporary structures and spoil heaps **MUST** be available at all times.





## Mechanical excavation

Mechanical excavators (including breaker attachments) **MUST NOT** be used within the following distances from the confirmed location of our gas mains and services shown on our gas maps without prior agreement:

Type of mains and services	Gas map identification	Hand excavation required inside	Pipe pressure indication shown on map
Low Pressure (LP)	0 – 75mbar	0.5 metres	
Medium Pressure (MP)	75mbar to 2 bar	0.5 metres	
Intermediate Pressure (IP)	2 – 7 bar	3.0 metres	
High Pressure (HP)	Above 7 bar	You must seek approval from us prior to any work	

# Major accident hazard pipelines

## High pressure pipeline

**No work is to take place near an HP pipeline until it is agreed with us.** After agreement and before any work does take place, the location of our pipeline **MUST** be marked up and its position confirmed by digging trial holes with our personnel in attendance.



Pipeline markers

## High pressure

We will be involved in any work taking place near high pressure pipelines. We will provide you with additional information that you **MUST** familiarise yourself with before carrying out any work.

**The default method of excavating near high pressure gas pipelines MUST always be by hand.**



## Wind turbines

The UK Onshore Pipelines Operations Association (UKOPA) has identified the appropriate exclusion zone (distance from the base of the wind turbine mast to the edge of the pipeline) as 1.5 times the turbine height. Contact MUST be made with us during the planning stages of a wind turbine or wind farm.



## Tree planting

If trees or shrubs are to be planted in the vicinity of our gas mains and services, the selection of tree or shrub type and how it's planted **MUST** be considered carefully. This is to avoid root damage to buried mains or services, and to ensure our subsequent excavations for main repair and maintenance won't damage the trees or shrubs.

Written approval from us **MUST** be obtained before any tree planting is carried out on a servitude/easement. Any approval we grant to plant trees

The following trees and those of similar size (deciduous or evergreen) **MUST NOT** be planted within 6m of the centre line of the main: ash, beech, birch, most conifers, elm, maple, lime, horse chestnut, oak, and sycamore. Apple and pear trees are also included in this category.

Dwarf apple stocks may be planted up to 3m of the centre line of the main.



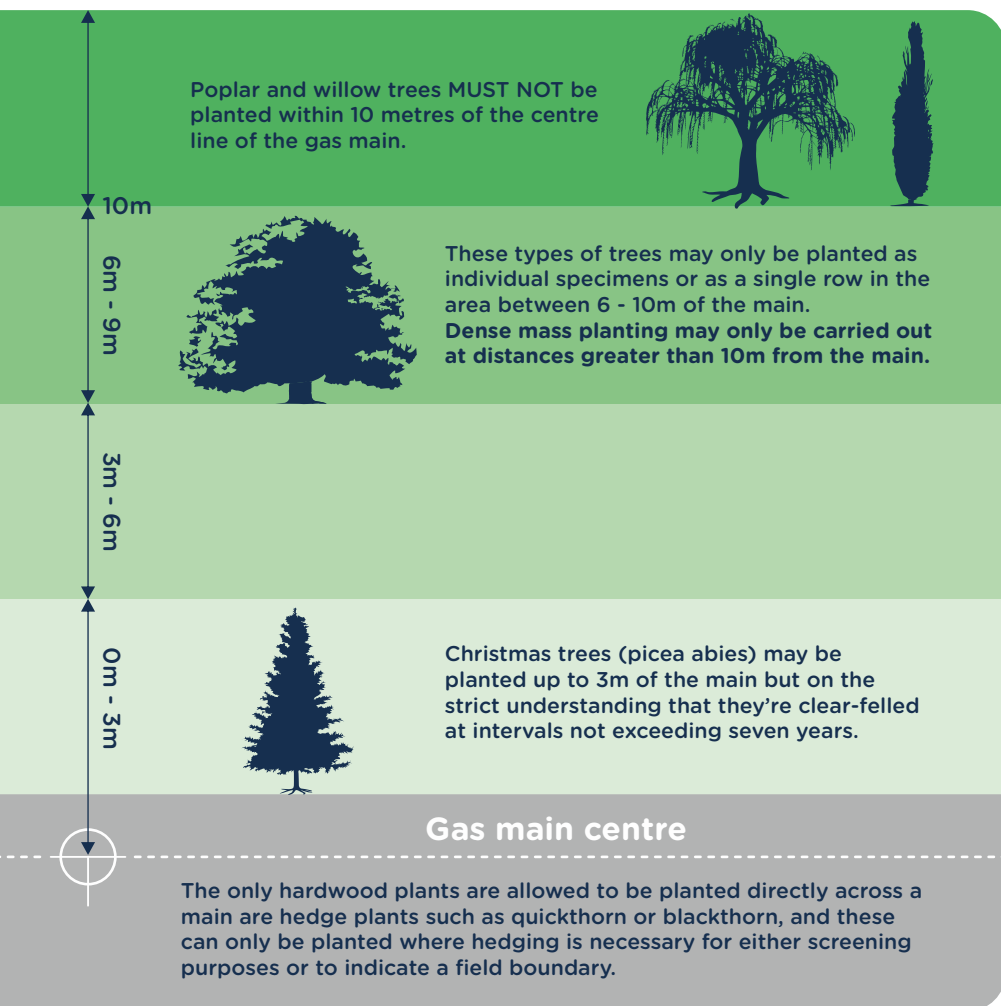
In cases where screening is required, the following are shallow rooting and may be planted close to the gas mains and services: blackthorn, broom, cotoneaster, elder, hazel, laurel, quickthorn, privet, snowberry and most ornamental shrubs.

### Gas main centre

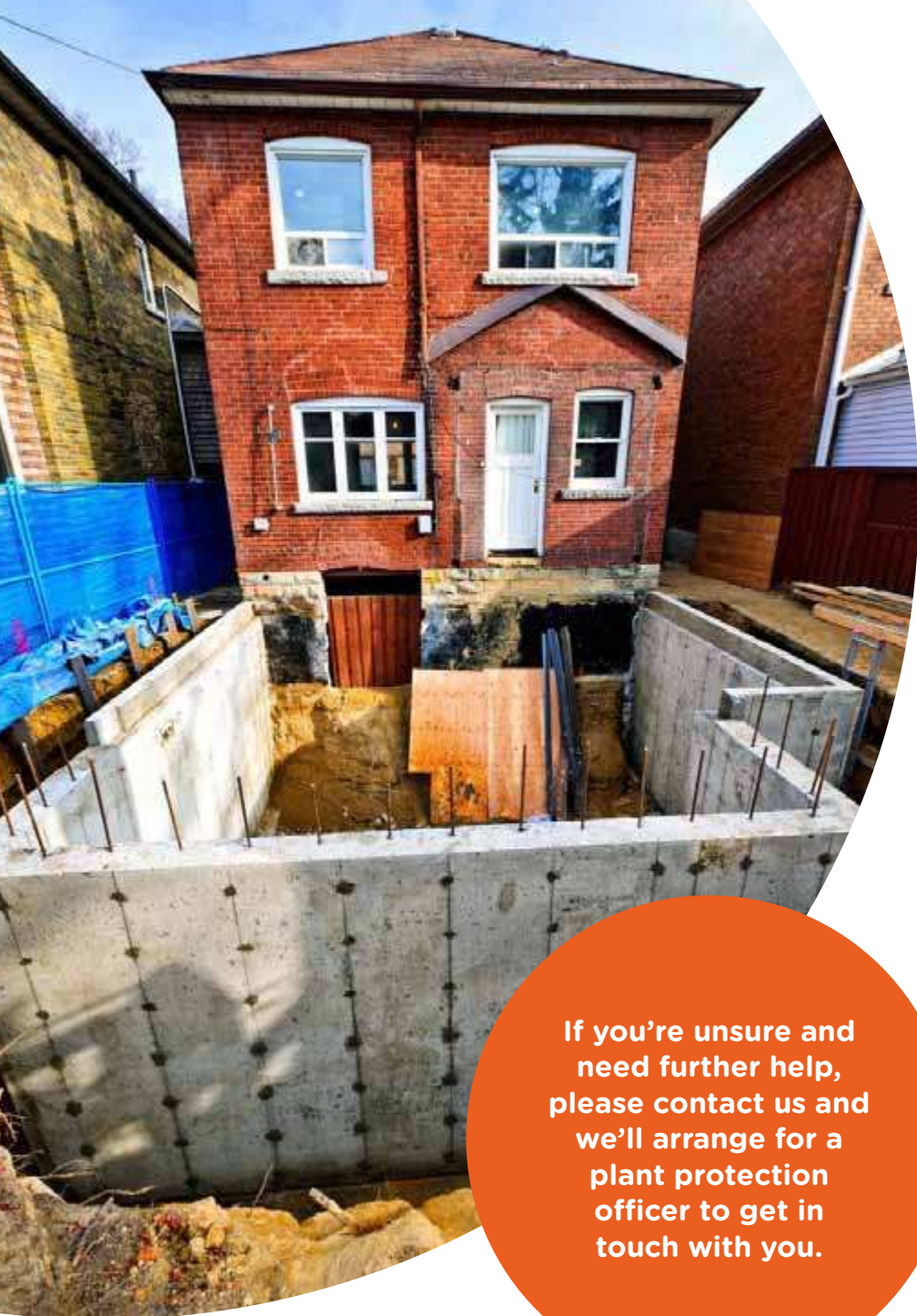
Raspberries, gooseberries and blackcurrants may be planted on the gas main, but a four metre strip, centred on the main, **MUST** be left clear at all times.

on a servitude/easement will be subject to us retaining the right to remove any tree, which in our opinion may become a danger to our mains in the future.

The written consent to plant trees will state what area may be planted and also the type of tree. The diagram details the specific species and the distances they **MUST** be planted from gas mains or services. You **MUST** contact us for further information.



Note: For further guidance, please refer to NJUG 10.



**If you're unsure and  
need further help,  
please contact us and  
we'll arrange for a  
plant protection  
officer to get in  
touch with you.**

# Gas services/work in gardens

If you're going to be carrying out work around your home, or a third party is carrying out work on your behalf, we may send you a site map of our gas mains and services but your own gas service won't be marked.

The simplest way to understand the location of your gas service is to know where it enters your house.



< Your gas service pipe usually takes the shortest route to the gas main, as shown on the sample network map/drawing.



We provide a free plant location enquiry service and we're always happy to help.



Visit our **Dig safely** pages on **sgn.co.uk**



**0800 912 1722 \***

\*All calls are recorded and may be monitored

# Safety Advice - Valves



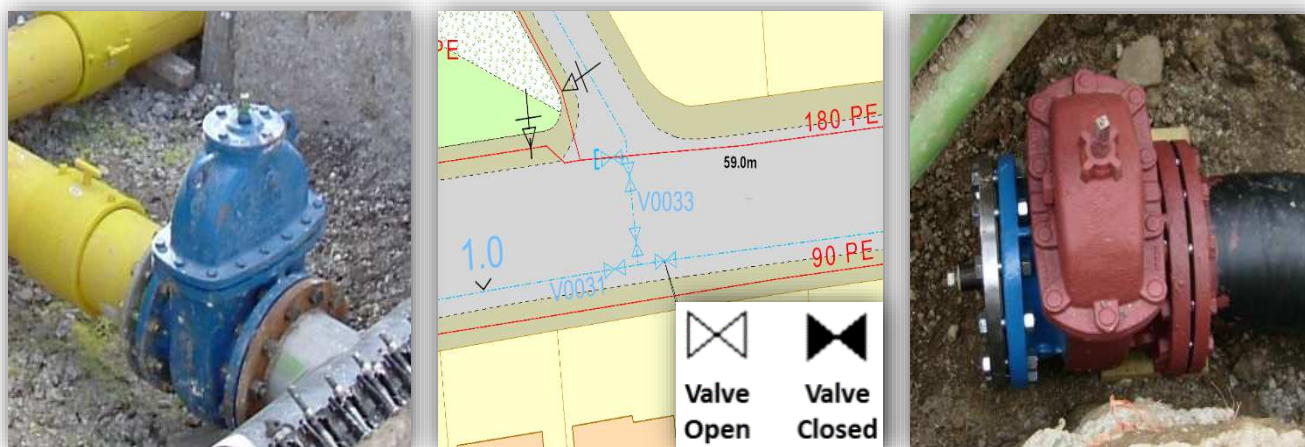
## Guidance when undertaking work near gas valves in our network areas

SGN manages the network that distributes gas to 5.8 million homes and businesses across Scotland and the south of England.

Due to a manufacturing issue, we are currently replacing or upgrading certain valve types that are at risk of bolt failure. In extreme cases, this can lead to gas escapes. This is a safety hazard and we have produced this guide to ensure you undertake adequate safety precautions when working near gas valves.

## Identifying gas valves

The images below are an illustration of typical gas valves. Please note, valves come in various colours, shapes and sizes, and you may come across a valve that looks different to those found in the images.



## What should you do?

When planning to work in our network areas, please observe the following points:

1. You must contact us before starting any work activity within **3.0m** of a gas valve identified on our maps.
2. If an unexpected gas valve is exposed you must immediately stop excavation works and report this to us.
3. To protect yourself against the risks associated with exposing a valve, we advise that you contact us when in doubt.

## Contact details

If you require further information or need assistance please contact us:

Safety Admin Team: **0800 912 1722**  
[plantlocation@sgn.co.uk](mailto:plantlocation@sgn.co.uk)

Valve enquiries will be forwarded to a local engineer who will provide further safety information.

# Maps by email Plant Information Reply



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**openreach**

### CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email [cbyd@openreach.co.uk](mailto:cbyd@openreach.co.uk)

ADVANCE NOTICE REQUIRED  
(Office hours: Monday - Friday 08.00 to 17.00)  
[www.openreach.co.uk/cbyd](http://www.openreach.co.uk/cbyd)

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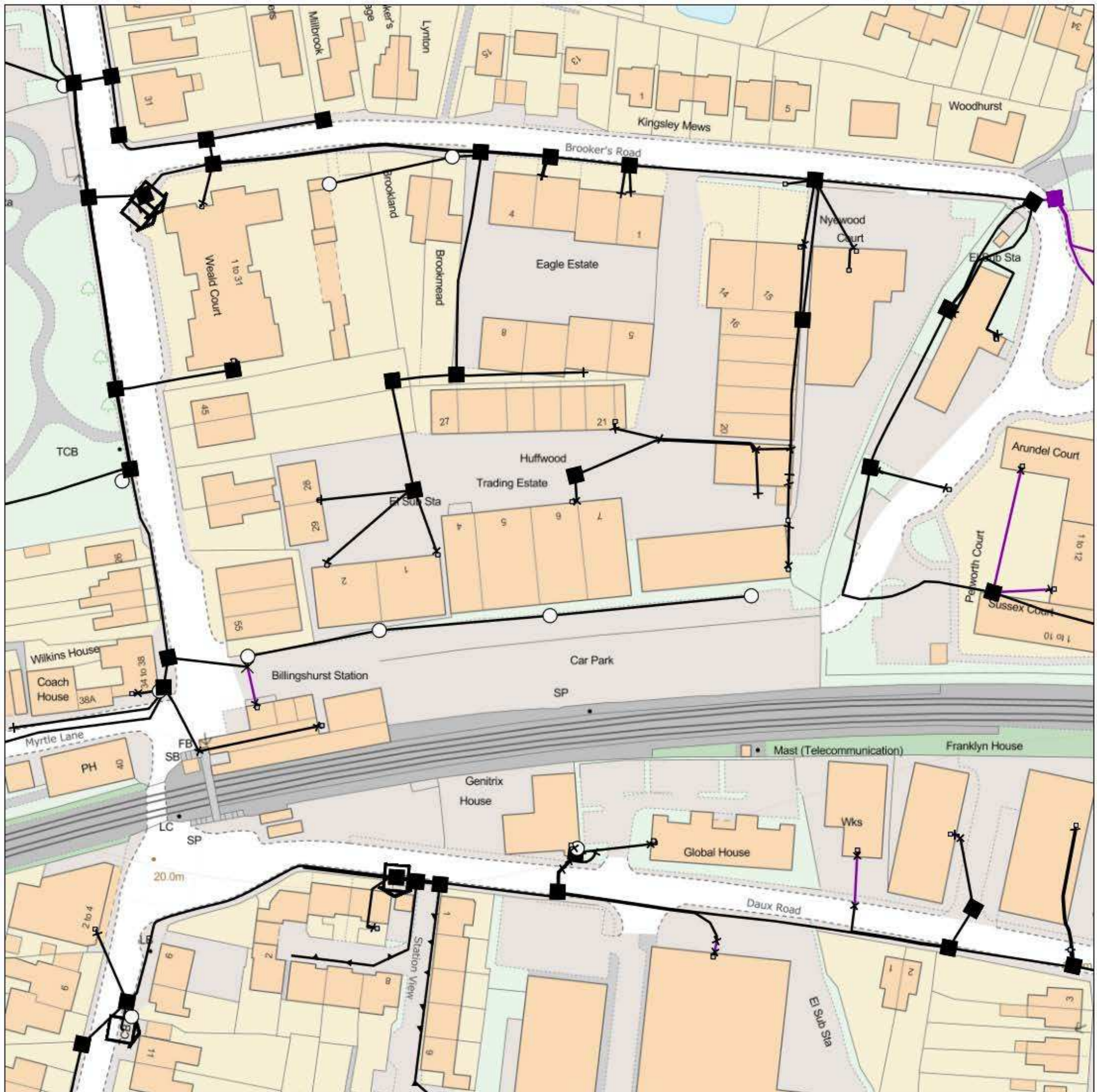
## KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : EBD09374S  
Map Reference : (centre) TQ0888925 135  
Easting/Northing : (centre) 508889,125 135  
Issued : 08/10/2018 09:37:27

**WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: [nnhc@openreach.co.uk](mailto:nnhc@openreach.co.uk)**

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PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : JTY09421V

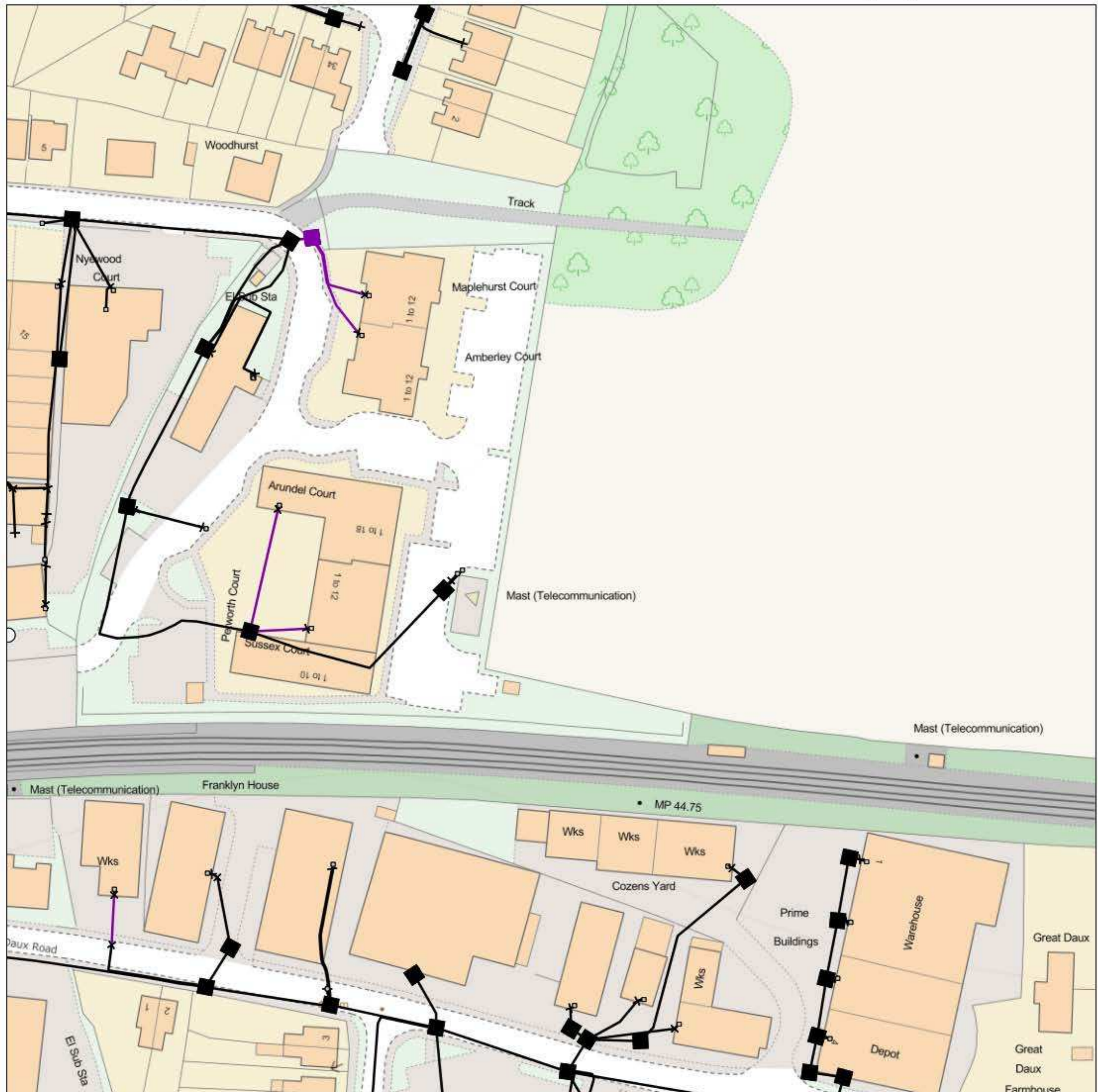
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Easting/Northing : (centre) 508864,125160

Issued : 08/10/2018 09:42:44

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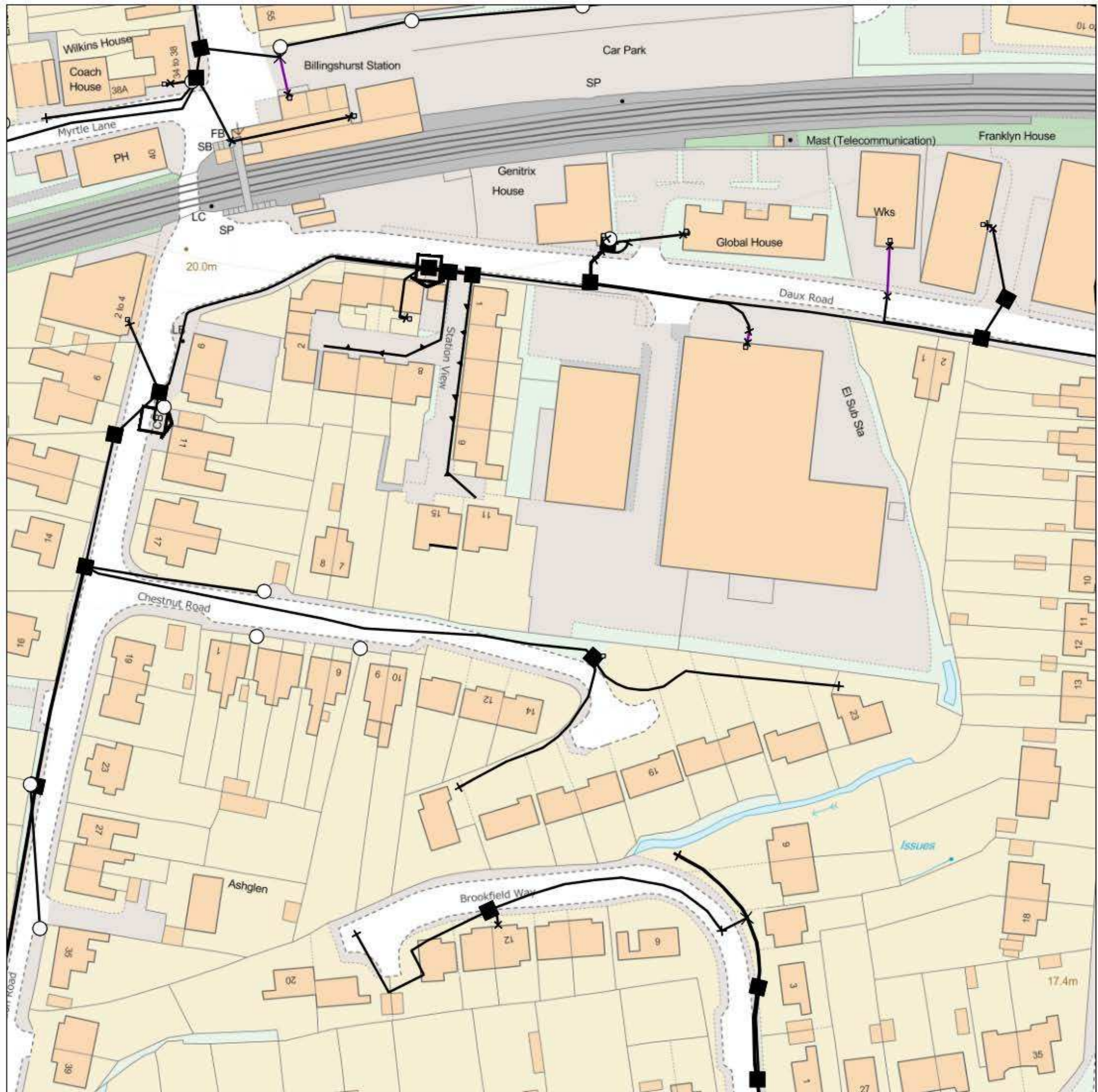
## KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

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Map Reference : (centre) TQ0903525 169  
Easting/Northing : (centre) 509035,125 169  
Issued : 08/10/2018 09:44:48

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## KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
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	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : FDY09452P

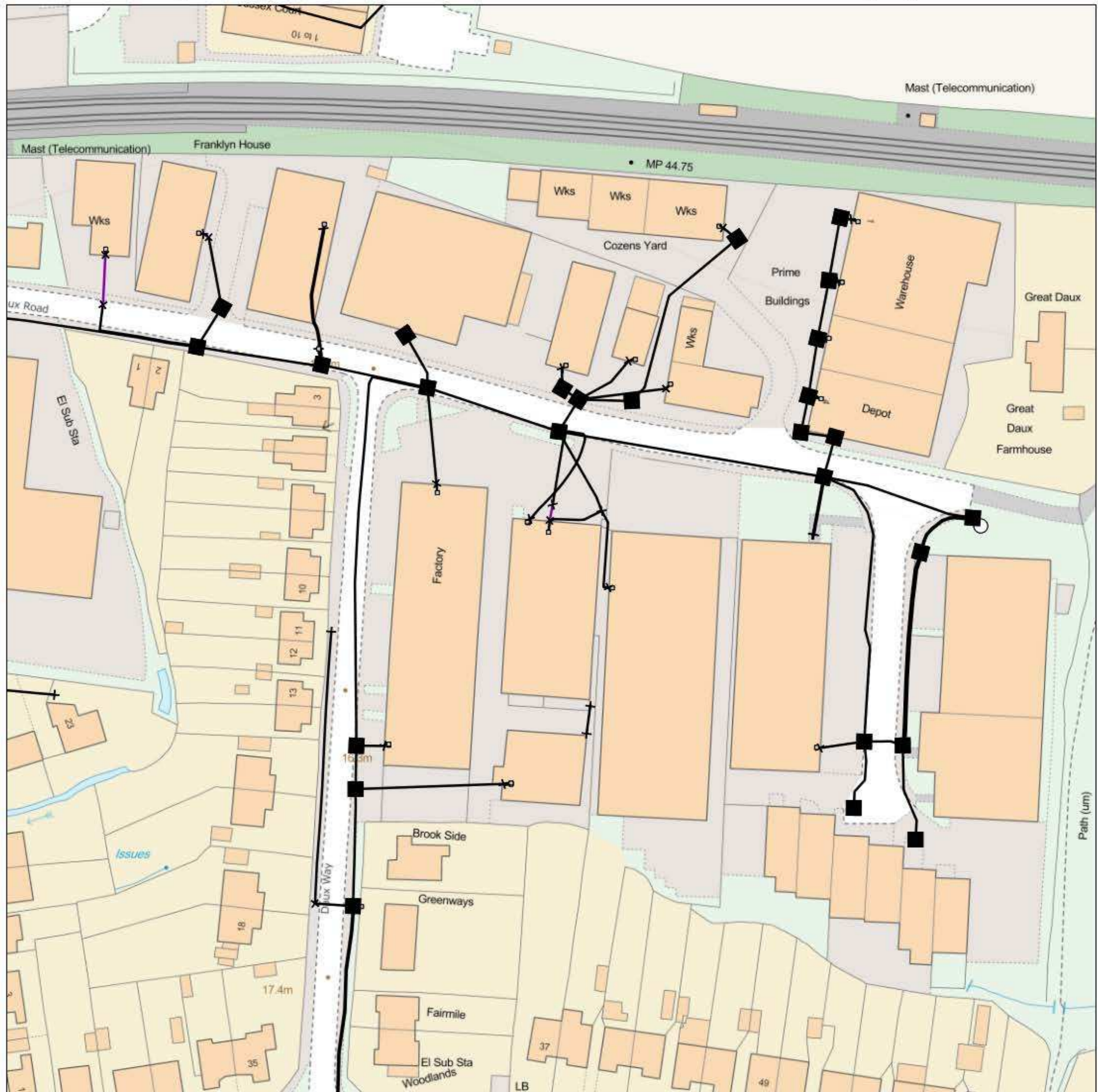
Map Reference : (centre) TQ0885725020

Easting/Northing : (centre) 508857,125020

Issued : 08/10/2018 09:45:37

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Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy.

It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



**openreach**

## CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email [cbyd@openreach.co.uk](mailto:cbyd@openreach.co.uk)

ADVANCE NOTICE REQUIRED  
(Office hours: Monday - Friday 08.00 to 17.00)  
[www.openreach.co.uk/cbyd](http://www.openreach.co.uk/cbyd)

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office  
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## KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : PKB09474P

Map Reference : (centre) TQ0903725022

Easting/Northing : (centre) 509037,125022

Issued : 08/10/2018 09:47:36

**WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: [nnhc@openreach.co.uk](mailto:nnhc@openreach.co.uk)**

## Hannah Stalley

---

**From:** plantenquiryservice@gtc-uk.co.uk  
**Sent:** 08 October 2018 09:35  
**To:** Hannah Stalley  
**Subject:** GTC Plant Enquiry - Ref- 800615  
**Attachments:** 800615.png

### GTC Apparatus Not Found In Search Area

**Our Plant Enquiry Service Ref: 800615**

**Your Enquiry Ref: Daux Road**

Dear Hannah,

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. GTC can confirm that we have no apparatus in the vicinity but please note that other asset owners may have and ensure all utility owners have been consulted. For your records, the search area is shown in the attached map.

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.

**Your sincerely,**

GTC Plant Enquiry Service.

GTC  
Energy House  
Woolpit Business Park  
Woolpit  
Bury St Edmunds  
Suffolk, IP30 9UP  
Tel: 01359 240363  
plant.enquiries@gtc-uk.co.uk

#### NOTE:

This E-Mail originates from GTC, Energy House, Woolpit Business Park, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP

VAT Number: GB688 8971 40. Registered No: 029431.

#### DISCLAIMER

The information in this E-Mail and in any attachments is confidential and may be privileged. If you are not the intended recipient, please destroy this message, delete any copies held on your system and notify the sender immediately. You



## Martin Darlison

---

**From:** Plant Enquiries <plantenquiries@energetics-uk.com>  
**Sent:** 18 September 2018 13:00  
**To:** Martin Darlison  
**Subject:** RE: Plant Enquiry - Daux Road

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.

If you require further assistance with outstanding enquiries, please call 03300 587 443.

Please ensure all plant enquiries are sent to [plantenquiries@energetics-uk.com](mailto:plantenquiries@energetics-uk.com)

Regards



### Plant Enquiries

|  
e: [plantenquiries@energetics-uk.com](mailto:plantenquiries@energetics-uk.com) | w: [www.energetics-uk.com](http://www.energetics-uk.com)  
a: Fenick House, Lister Way, Hamilton International Technology Park



---

**From:** Martin Darlison <martin.darlison@premierenergy.co.uk>  
**Sent:** 12 September 2018 14:08  
**To:** Plant Enquiries <plantenquiries@energetics-uk.com>  
**Subject:** Plant Enquiry - Daux Road

Dear Plant Enquiries,

Please search the following location for your plant:

Premier House, Daux Road, Billingshurst RH14 9SJ

[508826,125173]

A location plan (2 pages) showing the search area is attached. If you have plant within the search area or close to the boundary please provide record drawings, ideally by email attachment. Please provide your information as soon as possible.

Many thanks.

Kind regards,

## Martin Darlison

---

**From:** Plantenquiries <plantenquiries@catelecomuk.com>  
**Sent:** 19 September 2018 08:56  
**To:** Martin Darlison  
**Subject:** RE: Plant Enquiry - Daux Road

**Please Note: Our search criteria has changed. We previously searched for Colt Network which was within 200 metres, this has now changed to 50 metres. The negative response will be for all enquiries that the network is 50 metres or more away from the place of enquiry.**

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location as presented on your submitted plan, if any development or scheme amendments fall outside the 50 metre perimeter new plans must be submitted for review.

Search is based on Overseeing Organisation Agent data supplied; we do not accept responsibility for O.O. Agent inaccurate data.

If we can be of any further assistance please do not hesitate to contact us.

Kind regards,

## Plant Enquiry Team



**Please consider the environment before printing this email.**

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---

**From:** Martin Darlison [mailto:martin.darlison@premierenergy.co.uk]  
**Sent:** 12 September 2018 14:08  
**To:** Plantenquiries <plantenquiries@catelecomuk.com>  
**Subject:** Plant Enquiry - Daux Road

## Martin Darlison

---

**From:** KPN Plant Enquiries <kpn.plantenquiries@instalcom.co.uk>  
**Sent:** 13 September 2018 15:47  
**To:** Martin Darlison  
**Subject:** RE: K09-18- 1029 Plant Enquiry - Daux Road



Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that KPN do not have any apparatus within the immediate proximity of your proposed works.

If you require any further information, please do not hesitate to contact us.

**Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.**

Regards

Plant Enquiries Dept  
Instalcom Limited  
Borehamwood Ind. Park  
Rowley Lane  
Borehamwood  
WD6 5PZ

Office: +44 (0)208 731 4613  
Fax: +44 (0)208 731 4601  
Email: [kpn.plantenquiries@instalcom.co.uk](mailto:kpn.plantenquiries@instalcom.co.uk)  
Web: <http://www.instalcom.co.uk>



---

**From:** Martin Darlison [mailto:martin.darlison@premierenergy.co.uk]  
**Sent:** 12 September 2018 14:08  
**To:** KPN Plant Enquiries <kpn.plantenquiries@instalcom.co.uk>  
**Subject:** Plant Enquiry - Daux Road

## Martin Darlison

---

**From:** NRSWA <nrswa.nrswa@sky.uk>  
**Sent:** 12 September 2018 15:59  
**To:** Martin Darlison  
**Subject:** Plant Enquiry - Daux Road



Thank you for your enquiry.

Please be advised that Sky Telecommunications Services Ltd will not be affected by your proposal.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at [nrswa@sky.uk](mailto:nrswa@sky.uk).

Regards

NRSWA Department  
Tech UK - Implementation

**sky | TECHNOLOGY**

✉ [nrswa@sky.uk](mailto:nrswa@sky.uk) ☎ +44 20703232234

---

**From:** Martin Darlison [mailto:martin.darlison@premierenergy.co.uk]  
**Sent:** 12 September 2018 14:08  
**To:** NRSWA <nrswa.nrswa@sky.uk>  
**Subject:** [EXTERNAL] Plant Enquiry - Daux Road

Dear Plant Enquiries,

Please search the following location for your plant:

Premier House, Daux Road, Billingshurst RH14 9SJ

[508826,125173]

A location plan (2 pages) showing the search area is attached. If you have plant within the search area or close to the boundary please provide record drawings, ideally by email attachment. Please provide your information as soon as possible.

Many thanks.

Kind regards,

## Martin Darlison

---

**From:** Interoute Enquiries <interoute.enquiries@plancast.co.uk>  
**Sent:** 08 October 2018 10:12  
**To:** Martin Darlison  
**Subject:** RE: Plant Enquiry - Daux Road

**This response does not include Vtesse or Easynet plant, please continue to use Vtesse or Easynet details for their enquiries**

To whom it may concern

Thank you for your enquiry regarding the above proposals at the above location

*We would advise that we are unaware of any Interoute plant or services in this Location as indicated in your enquiry.*

*We bring to your attention the fact that whilst we try to ensure the information we provide is accurate, the information is provided Without Prejudice and Interoute and its Agents accept no liability for claims arising from any inaccuracy, omissions or errors contained in this response.*

**All responses are only valid for 28 days**

Yours faithfully

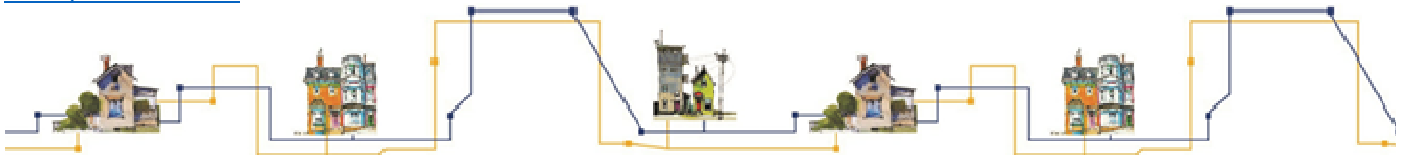
**PLANCAST Plant Enquiry Department**



The Old Haybarn  
Rosebery Mews, Mentmore  
Bedfordshire LU7 0UE

T: 01296 662 647

[www.plancast.co.uk](http://www.plancast.co.uk)



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Registered in England and Wales with number 4455025 VAT No. 8567 195 80

## Martin Darlison

---

**From:** Plantenquiries <Plantenquiries@instalcom.co.uk>  
**Sent:** 17 September 2018 11:53  
**To:** Martin Darlison  
**Subject:** RE: E09-18-2506 Plant Enquiry - Daux Road

Dear Sir or Madam,

Thank you for your plant enquiry below.

We can confirm that CenturyLink Communications UK Limited (formerly Level 3), Global Crossing (Uk) Ltd, Global Crossing PEC, Fibernet UK Ltd and Fibrespan Ltd do not have any apparatus within the indicated works area.

Instalcom responds to plant enquiries for all of the above and therefore you only need send one plant enquiry to cover all of these companies.

**Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.**

Regards

Plant Enquiries Dept  
Instalcom Limited  
Borehamwood Ind. Park  
Rowley Lane  
Borehamwood  
WD6 5PZ

Office: +44 (0)208 731 4613  
Fax: +44 (0)208 731 4601  
Email: [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk)  
Web: <http://www.instalcom.co.uk>



---

**From:** Martin Darlison [mailto:martin.darlison@premierenergy.co.uk]  
**Sent:** 12 September 2018 14:08  
**To:** Plantenquiries <Plantenquiries@instalcom.co.uk>  
**Subject:** Plant Enquiry - Daux Road

Dear Plant Enquiries,

Please search the following location for your plant:

## Martin Darlison

---

**From:** UK OSP-Team <osp-team@uk.verizon.com>  
**Sent:** 12 September 2018 17:27  
**To:** Martin Darlison  
**Cc:** UK OSP-Team  
**Subject:** RE: Plant Enquiry - Daux Road

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries please do not hesitate to get in touch.

Yours faithfully

Plant Protection Officer E.mail osp-team@uk.verizon.com

---

**From:** Martin Darlison [mailto:martin.darlison@premierenergy.co.uk]  
**Sent:** Wednesday, September 12, 2018 2:08 PM  
**To:** UK OSP-Team  
**Subject:** Plant Enquiry - Daux Road

Dear Plant Enquiries,

Please search the following location for your plant:

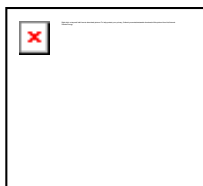
Premier House, Daux Road, Billingshurst RH14 9SJ

[508826,125173]

A location plan (2 pages) showing the search area is attached. If you have plant within the search area or close to the boundary please provide record drawings, ideally by email attachment. Please provide your information as soon as possible.

Many thanks.

Kind regards,



**Martin Darlison**

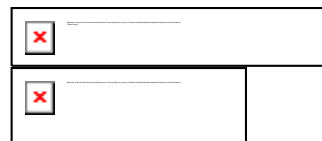
Utility Searches

t: 01403 740240 |

e: martin.darlison@premierenergy.co.uk | [www.premierenergy.co.uk](http://www.premierenergy.co.uk)

Premier House | Daux Road | Billingshurst | West Sussex | RH14 9SJ

Registered office as above. Incorporated in England & Wales No. 3023958



**telent**  
Mayne House  
Fenton Way  
Basildon  
Essex  
SS15 6TD  
United Kingdom

[www.telent.com](http://www.telent.com)

Date 25/09/2018  
Our Ref LPENQ0000105925

Dear Sir/Madam

**Teliasonera Line Plant Enquiry.**

Thank you for your correspondence enclosing details of your proposals as per your reference below.

**Premier House, Daux Road, Billingshurst**

Our client's apparatus, Teliasonera, is not located within the vicinity of the above reference and we therefore have no further interest in this current location.

Please note that all enquiries relating to the Teliasonera line plant should be forwarded to:

By post – to,           telent,  
                                  Teliasonera line plant enquiries,  
                                  Mayne House,  
                                  Fenton Way,  
                                  Basildon,  
                                  Essex  
                                  SS15 6TD

By email - to,           [telenttelia.plantenquiries@telent.com](mailto:telenttelia.plantenquiries@telent.com)

By phone – to,         01268 269096

Yours faithfully

Telent CCO

Basildon



Data Type	Value
Address	<a href="#">Orange Site, Billingshurst, Surrey, RH149TG</a>
Ref	<a href="#">WSS7054</a>
Type	EE (Orange) (Orange (OPCS) Sites (Operator 18))
Polar Diagram	<a href="#">View Line of Sight up to 7km</a>
Data Source	Ofcom Sitefinder:Orange(20608)
Site Status	Transmitting
Web Search	<a href="#">! Operator Licence Required</a>
Web Search xls	<a href="#">! Operator Licence Required</a>
Work/Planning	0 matched by site ref
Superseded Sites	0 superseded sites
Description	Orange GSM OMNI
Location	Good Accuracy (SF)
East/North	508970/125060
Difference(m)	0.77874
Long/Lat	<a href="#">-0.44/51.01</a>
View On Google Map	<a href="#">View On Google Map with Measure Tool</a>
Map Corrections	<a href="#">Reposition History: 0 Records</a>
Height	Antenna: 10.00 metres
Transmission	GSM
Station Type	OMNI
Record Created	Apr 29 2016 10:17PM
Power/Max Licenced Power	21.5 dBW /Unknown dBW
Frequency	1800 MHz

Data Type	Value
Address	<a href="#">BTCR MAST, CORDEX, BROOKERS RD, BILLINGHURST, West Sussex, RH149GF, Billingshurst, Surrey, RH149GE</a>
Ref	<a href="#">4188</a>
Type	Vodafone (VF) (Vodafone Sites (Operator 16))
Polar Diagram	<a href="#">View Line of Sight up to 7km</a>
Data Source	Ofcom Sitefinder:Vodafone(20610)
Site Status	Transmitting
Web Search	<a href="#">! Operator Licence Required</a>
Web Search xls	<a href="#">! Operator Licence Required</a>
Type1	3rd Party
Work/Planning	1 matched by site ref
Superseded Sites	1 superseded sites
Description	Vodafone GSM Macro
Location	Good Accuracy (SF)
East/North	509016/125159
Difference(m)	1.33498

Long/Lat	<a href="#">-0.44/51.01</a>
View On Google Map	<a href="#">View On Google Map with Measure Tool</a>
Map Corrections	<a href="#">Reposition History: 1 Records</a>
Planning Authority	<a href="#">Horsham District Council</a>
Height	Antenna: 18.00 metres
Transmission	GSM
Station Type	Macro
Record Created	Apr 29 2016 10:17PM
Power/Max Licenced Power	21.2 dBW /Unknown dBW
Frequency	900 MHz

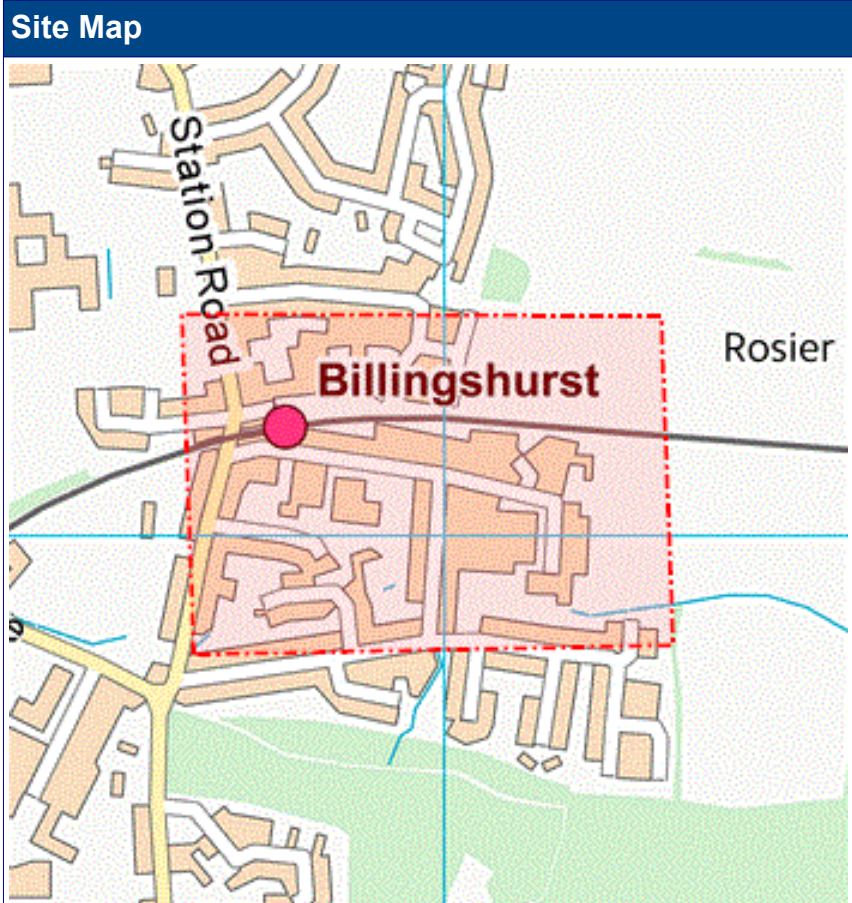
Data Type	Value
Address	<a href="#">BILLINGHURST, CordekIndustrial EstateBrookers Road,Billinghurst, Surrey, RH14 9SL</a>
Ref	<a href="#">1356</a>
Type	O2 (TEF) (O2 (TEF) (Operator 19))
Polar Diagram	<a href="#">View Line of Sight up to 7km</a>
Data Source	Ofcom Sitefinder:O2(20607)
Site Status	Transmitting
Web Search	<a href="#">! Operator Licence Required</a>
Web Search xls	<a href="#">! Operator Licence Required</a>
Work/Planning	0 matched by site ref
Superseded Sites	0 superseded sites
Description	O2 UMTS Sector
Location	Good Accuracy (SF)
East/North	509018/125168
Difference(m)	3.55995
Long/Lat	<a href="#">-0.44/51.01</a>
View On Google Map	<a href="#">View On Google Map with Measure Tool</a>
Map Corrections	<a href="#">Reposition History: 0 Records</a>
Height	Antenna: 25.00 metres
Transmission	UMTS
Station Type	Sector
Record Created	Apr 29 2016 10:17PM
Power/Max Licenced Power	27.29 dBW /65 dBW
Frequency	2100 MHz

Data Type	Value
Address	<a href="#">Cordek, Industrial Estate, RH14 9SL</a>
Ref	<a href="#">121463</a>
Type	CTIL (VF+O2) (Cornerstone Telecommunications Infrastructure Ltd)
Polar Diagram	<a href="#">View Line of Sight up to 7km</a>
Data Source	2015/16 Horsham:2015/16 Horsham(20936)
Site Status	Transmitting
Web Search	<a href="#">! Operator Licence Required</a>
Web Search xls	<a href="#">! Operator Licence Required</a>
Work/Planning	1 matched by site ref
Superseded Sites	0 superseded sites
Description	Provider:CTIL / Site Built
Location	Good Accuracy (Imported Data from Source (0-10m Accurany))
East/North	508900/125300
Difference(m)	2.55872
Generation	[3G]
Long/Lat	<a href="#">-0.44/51.01</a>
View On Google Map	<a href="#">View On Google Map with Measure Tool</a>
Map Corrections	<a href="#">Reposition History: 0 Records</a>
Planning Authority	<a href="#">Horsham</a>
Record Created	Dec 29 2016 11:14AM

Enquirer			
Name	Miss Celeste Imthurn	Phone	01403740240
Company	Premier Energy	Mobile	07472365897
Address	Prmier Energy Daux Road Billingshurst West Sussex RH14 9SJ		
Email	Celeste.Imthurn@premierenergy.co.uk		

Enquiry Details			
Scheme/Reference	Daux Road		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	21/09/2018	Work type	Housing
End date	21/09/2018	Site size	174630 metres square
Searched location	XY= 508889, 125135	Work type buffer*	25 metres
Confirmed location	508982 125055		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works	Not Supplied		

\* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.



## Asset Owners

**Terms and Conditions.** Please note that this enquiry is subject always to our standard terms and conditions available at [www.lineasearchbeforeudig.co.uk](http://www.lineasearchbeforeudig.co.uk) ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

**Notes.** Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

**Validity and search criteria.** The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineasearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

**Asset Owners & Responses.** Please note the enquiry results include the following:

1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

1. LSBUD Members who have assets registered within your search area. ("Affected")
  - a. These LSBUD Members will either:
    - i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.
    - ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.
2. LSBUD Members who do not have assets registered within your search area. ("Not Affected")
3. Non LSBUD Members who may have assets within your search area. Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

**National Grid.** Please note that the LSBUD service only contains information on National Grid's Gas above 7 bar asset, all National Grid Electricity Transmission assets and National Grid's Gas Distribution Limited above 2 bar asset.

For National Grid Gas Distribution Ltd below 2 bar asset information please go to [www.beforeyoudig.nationalgrid.com](http://www.beforeyoudig.nationalgrid.com)

**LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.**

### List of affected LSBUD members

Asset Owner	Phone/Email	Emergency Only	Status
ESP Utilities Group	01372227560	01372227560	Await response
SGN	08009121722	0800111999	Await response

**LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.**

### List of not affected LSBUD members

AWE Pipeline	BOC Limited (A Member of the Linde Group)	BP Exploration Operating Company Limited
BPA	Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN
Cemex	Centrica Storage Ltd	CLH Pipeline System Ltd
Concept Solutions People Ltd	ConocoPhillips (UK) Ltd	DIO (MOD Abandoned Pipelines)
E.ON UK CHP Limited	EirGrid	Electricity North West Limited
ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited	EP Langage Limited
ESSAR	Esso Petroleum Company Limited	Fulcrum Pipelines Limited
Gamma	Gateshead Energy Company	Gigaclear PLC
Gtt	Hafren Dyfrdwy	Humbly Grove Energy
IGas Energy	INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)
INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)	Mainline Pipelines Limited
Manchester Jetline Limited	Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)
Melbourn Solar Limited	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission	Northumbrian Water Group
NPower CHP Pipelines	Oikos Storage Limited	Ørsted
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Premier Transmission Ltd (SNIP)	Prysmian Cables & Systems Ltd (c/o Western Link)	Redundant Pipelines - LPDA
RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals	Scottish Power Generation
Seabank Power Ltd	Severn Trent (Chester area only)	Shell (St Fergus to Mossmorran)
Shell Pipelines	SSE (Peterhead Power Station)	Tata Communications (c/o JSM Construction Ltd)
Total (Colnbrook & Colwick Pipelines)	Total Finaline Pipelines	Transmission Capital
UK Power Networks	Uniper UK Ltd	Vattenfall
Veolia ES SELCHP Limited	Western Power Distribution	Westminster City Council
Wingas Storage UK Ltd	Zayo Group UK Ltd c/o JSM Group Ltd	

## Celeste Imthurn

---

**From:** esp@safedigs.co.uk  
**Sent:** 20 September 2018 10:05  
**To:** Celeste Imthurn  
**Subject:** ESP Utilities Group Plant Affected Notice LSBUD Ref. 13774365  
**Attachments:** ESN014939.PNG; Guidelines when working in vicinity of gas apparatus up to 7barg MOPV3.1.pdf

20/09/2018

LinesearchbeforeUdig Ref: 13774365  
Your Ref: Daux Road

Dear Sir/Madam,

Further to your enquiry received on 20/09/2018 09:03:00 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/electric network close to the area of interest.

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

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

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

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

Yours sincerely,

ESP Utilities Group Ltd

ESP Utilities Group Ltd can be contacted at:

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

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



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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 Distribution Network Operators.

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

**Locating Gas Pipes**

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

**Safe working Practices**

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

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

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

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

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

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

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

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

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

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

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

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

#### **Support and Backfill**

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

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

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

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

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

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

#### **Damage to Coating**

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

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

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

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

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

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

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

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

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

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

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



Underground Services Team  
National Records Centre  
Audax Road  
YORK

NRSWA Asset Enquiries

YO30 4GS

Tel:

Date: 01 October 2018

**GM1**

Your Reference **2018\_23937**

Our Reference: **SET189118**

Dear NRSWA,

**Re: Underground Services Search: \*\*OP\*\* Premier House, Daux Road, Billingshurst**

**Please find information available as per the checklist.**

The information contained herein is based on Network Rail's records and, where appropriate, third parties such as utility companies. The search enclosed does not cover a search of local council records. Also, schematic Signal and Telecom (S&T) cables plans are not provided as part of the search results, therefore you must assume S&T cables are present until proven otherwise.

Although at the date of this letter the information is as up to date as possible, it is **NOT** a statement of validity, accuracy or completeness as to any of the enclosed search information and must not be relied on as such.

Your risk assessment **MUST** take into account:

- That the information supplied, including the services shown on the map from the Rail Infrastructure Network Model (RINM), does not provide any guarantee as to the accuracy of the actual location of services on site and **MUST** be considered as for guidance purposes only.
- That new/unrecorded services are likely to be present
- That the enclosed Underground Services search information has been collated only for the ELR and Mileage boundaries as stated on the original request form

Included in your underground services search is a list of local engineers and managers you **MUST** contact before any ground disturbance is carried out, to check whether further information is held locally.

Further guidance can be obtained from the Health and Safety Executive publication HSG47 "Avoiding Danger from Underground Services" and the Network Rail Publication NR/L2/INI/CP1030.

Should you become aware of any additional underground services or assets within the locality during your investigations and/or works, including redundant assets, please identify them as a matter of urgency to the site manager. Records of the location of these assets should be kept for onward transmission and entry into the Hazard Directory.

Yours sincerely

**Gareth Milne**

Distribution Administrator



## UNDERGROUND SERVICES INFORMATION CHECKLIST

YOUR REF	2018_23937	OUR REF	SET189118
LOCATION	**OP** Premier House, Daux Road, Billing	ELR	TBH1
MILEAGE FROM	44.1280	MILEAGE TO	44.1640
Utility Company/Internal Source		Category	Enc Notes
Site Map		GIS Systems	Yes
Hazard Directory		Hazard	Yes
Civils SE		NRG	Yes
eB		NRG	Yes

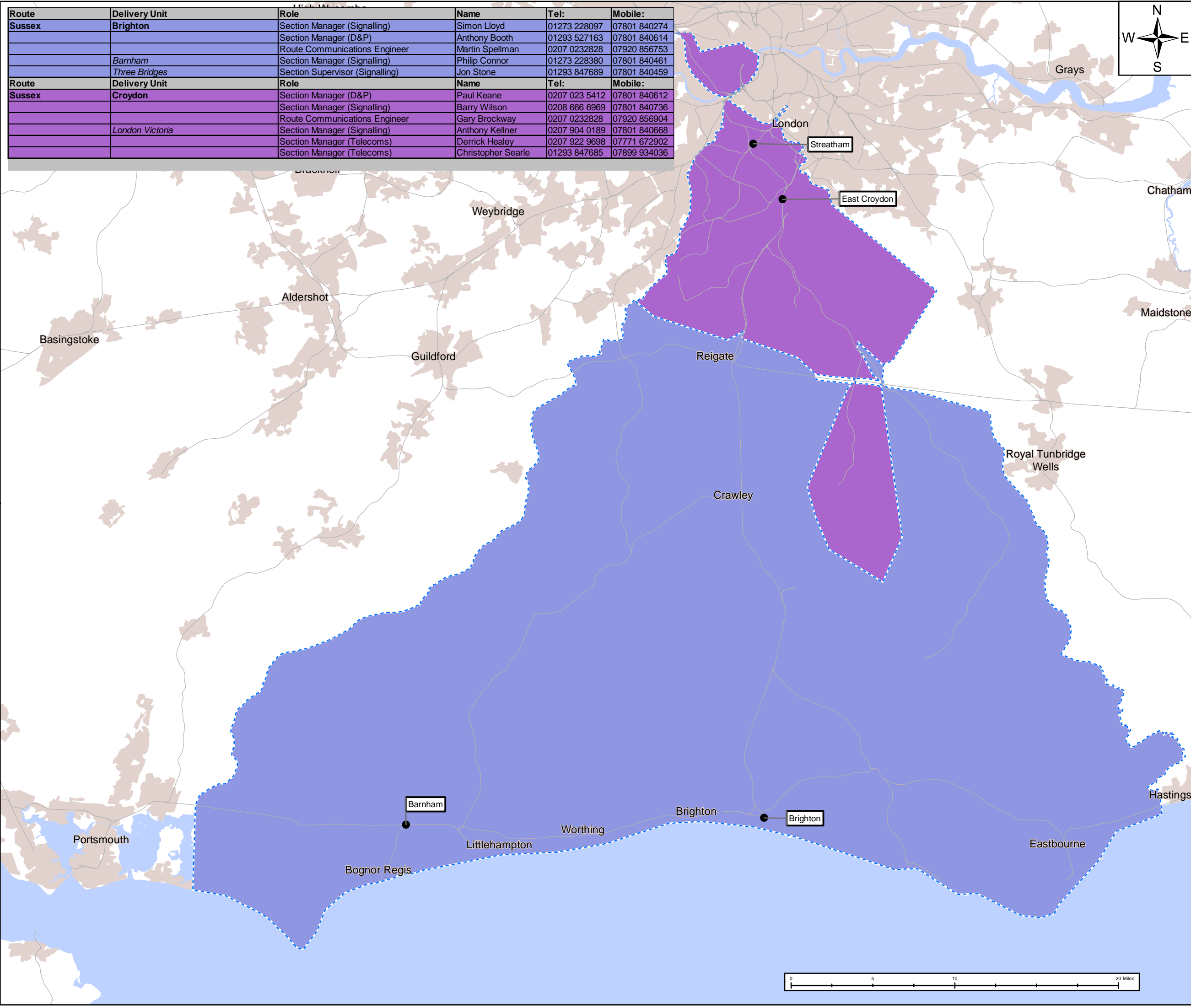
**NIL RETURN:** After interrogating the information made available to us, no records containing underground services information have been returned for this worksite.

However, reference must be made to the guidelines supplied with this underground services search, which contain important information on safe working practices.

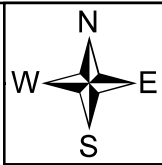
**Upon receipt can you please check that the information provided agrees with this listing and if there are any discrepancies please contact the Underground Services Team at:**

**National Records Centre, Audax Road, York. YO30 4GS**

**[buriedservicesnst@networkrail.co.uk](mailto:buriedservicesnst@networkrail.co.uk)**



Route	Delivery Unit	Role	Name	Tel:	Mobile:
Sussex	Brighton	Section Manager (Signalling)	Simon Lloyd	01273 228097	07801 840274
		Section Manager (D&P)	Anthony Booth	01293 527163	07801 840614
		Route Communications Engineer	Martin Spellman	0207 0232828	07920 856753
	Barnham	Section Manager (Signalling)	Philip Connor	01273 228380	07801 840461
Sussex	Croydon	Section Supervisor (Signalling)	Jon Stone	01293 847689	07801 840459
	London Victoria	Section Manager (Signalling)	Anthony Kellner	0207 904 0189	07801 840668
Sussex	Croydon	Section Manager (Telecoms)	Derrick Healey	0207 922 9698	07771 672902
		Section Manager (Telecoms)	Christopher Searle	01293 847685	07899 934036



**Asset Information Services**

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[GeospatialReportingAnalysis@NetworkRail.co.uk](mailto:GeospatialReportingAnalysis@NetworkRail.co.uk)

LOCAL CONTACTS LIST -  
SUSSEX IMDMs

BURIED SERVICES

JOB NO.: 10104.113

SCALE: 1:340,000 @ A3

USE TYPE:	[INTERNAL]	DATE:	15/08/2018
VERSION:	1	QA BY:	SD
		PRODUCED BY:	DJ

LEGEND

- Stations
- Rail Network
- IMDM Boundaries

**IMDM Boundaries**

- IMDM Brighton
- IMDM Croydon
- Urban Areas

Corporate GIS data is subject to frequent updates therefore any data exported from the corporate GIS system is a static representation of the data at the time of export, and should be treated as such. No warranty or guarantee is given as to the absolute accuracy or completeness of this information. Network Rail disclaims any responsibility for any loss, damage or inconvenience howsoever caused arising out of or as a consequence of reliance on this information in any context.



# GEO-RINM

This material from the Rail Infrastructure Network Model (RINM) is a guide only and although every effort will be made to ensure that the information is correct you should be aware that the information may be incomplete, inaccurate or out of date. Network Rail shall not be liable for any loss or damage, which may arise from the use of any information, contained.



## ☐ Infrastructure Features







 Tunnel Bore

## ☐ Infrastructure Network Model

 Track Link

## ☐ OS MasterMap

### ☐ Points

-  General Feature, Positioned...
-  General Feature, Positioned...
-  Height Control, Bench Mark
- Historic Interest, Structure
- Inland Water, Culvert
-  Political Or Administrative, Boundary...
- Rail, Structure
- Roadside, Structure
- Structure,
-  Structure, Triangulation Point Or Pillar
-  Terrain And Height, Spot Height

### ☐ Symbols

-  Bench Mark
-  Boundary Half Mereing
-  Direction of Flow
-  Switch
-  Road Related Flow

### ☐ Line Features

- - Building
- Building
- - Building Overhead
- General Feature Edge
- General Feature

-- General Feature Underground

-- Top of Slope

-- Bottom of Slope

-- Bottom of Slope

— Narrow Gauge Railway

— Standard Gauge Railway

-- Overhead Construction

— Validate General Feature

— Rail

-- Mean High Water

— Mean High Water

-- Mean Low Water

— Mean Low Water

#### ☐ Boundaries

— Political Or Administrative, County

-- Political Or Administrative, District

-- Political Or Administrative, Electoral

-- Political Or Administrative, Parish


-- Political Or Administrative, Parliamentary

#### ☐ Buried Services - Network Rail

— Historic Cable Route

#### ☐ Land Information

##### ☐ Company Ownership

 Freehold Ownership

 Leasehold Ownership

 Prohibitive Interest

 Bridge (Rail over Rail)

 Bridge (Rail over River)

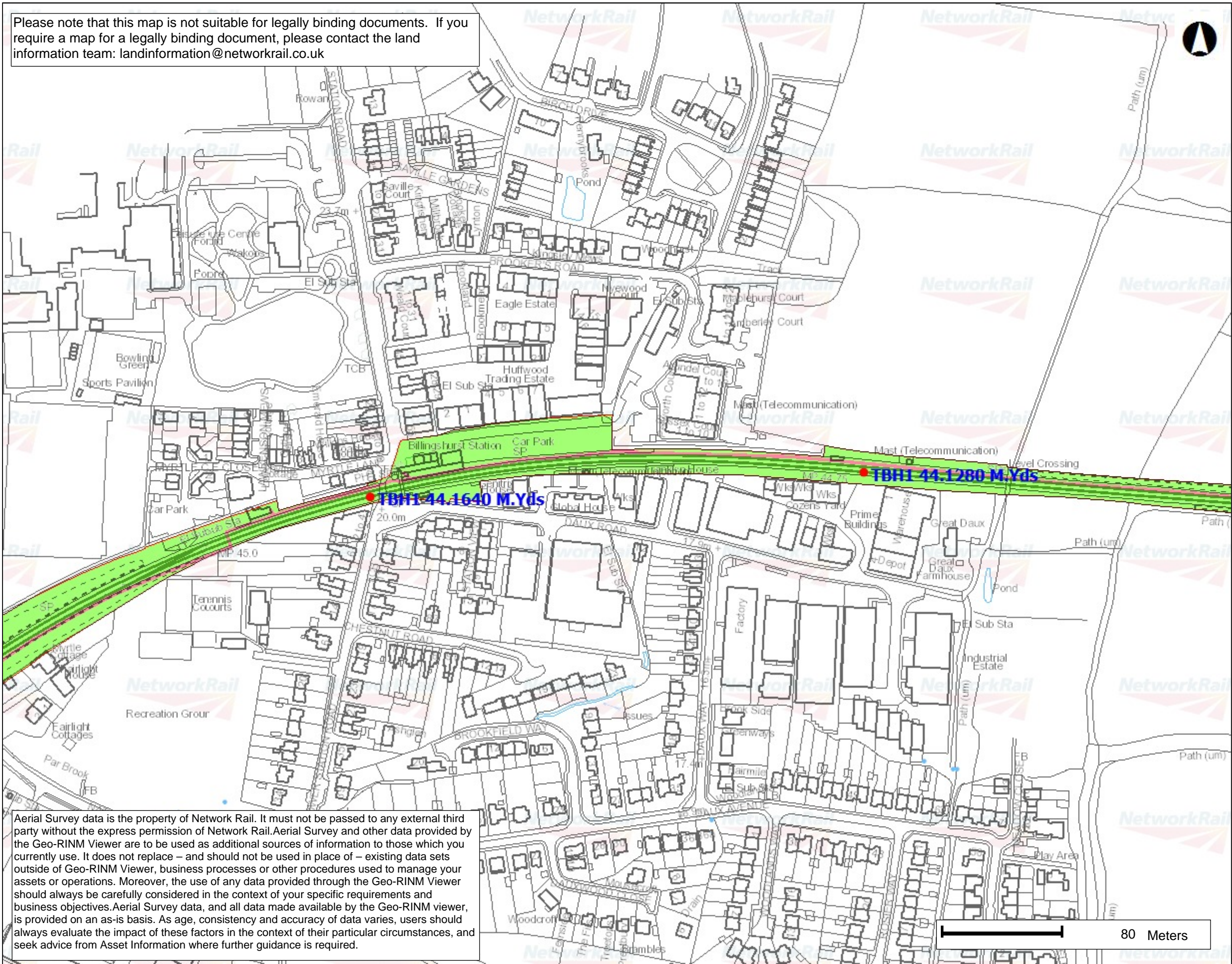
 Bridge (Rail over Road)

 Bridge (Road over Rail)

 Level Crossing

 Tunnel

Please note that this map is not suitable for legally binding documents. If you require a map for a legally binding document, please contact the land information team: [landinformation@networkrail.co.uk](mailto:landinformation@networkrail.co.uk)



Aerial Survey data is the property of Network Rail. It must not be passed to any external third party without the express permission of Network Rail. Aerial Survey and other data provided by the Geo-RINM Viewer are to be used as additional sources of information to those which you currently use. It does not replace – and should not be used in place of – existing data sets outside of Geo-RINM Viewer, business processes or other procedures used to manage your assets or operations. Moreover, the use of any data provided through the Geo-RINM Viewer should always be carefully considered in the context of your specific requirements and business objectives. Aerial Survey data, and all data made available by the Geo-RINM viewer, is provided on an as-is basis. As age, consistency and accuracy of data varies, users should always evaluate the impact of these factors in the context of their particular circumstances, and seek advice from Asset Information where further guidance is required.

Legend

- Track Link
- Points
  - General Feature, Positioned Coniferous Tree
  - General Feature, Positioned Nonconiferous Tree
  - Height Control, Bench Mark
  - Historic Interest, Structure
  - Inland Water, Culvert
  - Political Or Administrative, Boundary Post Or Stone
  - Rail, Structure
  - Roadside, Structure
  - Structure,
  - Structure, Triangulation Point Or Pillar
  - Terrain And Height, Spot Height
- Symbols
  - Bench Mark
  - Boundary Half Mereing
  - Direction of Flow
  - Switch
  - Road Related Flow
- Line Features
  - Building
  - Building
  - Building Overhead
  - General Feature Edge
  - General Feature
  - General Feature Underground
  - Top of Slope
  - Top of Slope
  - Bottom of Slope
  - Bottom of Slope
  - Narrow Gauge Railway
  - Standard Gauge Railway
  - Overhead Construction
  - Validate General Feature
  - Rail
  - Mean High Water
  - Mean High Water
  - Mean Low Water
  - Mean Low Water



SET189118

Premier House, Daux Road, Billingshurst

Scale	1 : 2,500
Plot Date	01/10/18 09:57
Printed By	

Output created from GeoRINM Viewer

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**National**

**Hazard**

**Directory**

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## **Terms and Conditions**

The National Hazard Directory (NHD) is issued by Network Rail to provide information on those hazards recorded as present on Network Rail's infrastructure. Its purpose is to alert users to the typical hazards they may come across whilst working on Network Rail's Infrastructure. The National Hazard Directory is maintained by Network Rail to provide its employees and contractors with information on known hazards present on the infrastructure in order to assist in the identification of the associated risks working 'on or near the line'.

The records are updated regularly and therefore Network Rail believe that the contents are reasonably accurate at the time of issue, but some of the information can vary in age and accuracy so for that reason Network Rail will give no warranty as to the suitability of its use. It is recommended that all searches (in particular for buried services) should be conducted together with a site specific risk assessment/site visit, taking into account the requirements of the appropriate track safety rules, rule books/industry standards and so on. Network Rail will accept no liability in respect of the content or subsequent use of the National Hazard Directory or any of the information contained within.

Users of the Directory must note that when working on or near the line that the appropriate requirements of the Rule Book, especially the provisions of the track safety rules, must be applied as appropriate to the activity concerned.

OnTrac Ltd does not warrant the use of the Network Rail National Hazard Directory or any of the information contained within and no representations or warranties are made as to completeness or accuracy of the data. The data should be used for reference purposes only. Accordingly, OnTrac Ltd will accept no responsibility for loss of profit or for any indirect, incidental or consequential damages.

## National Hazard Directory

## Customised Report

Search Criteria: ELR(s) = TBH1; Mileage From = 44.1280; Mileage To = 44.1640

Date: 01/10/2018

15 Hazards found.

ELR	ELR Name	Mileage From	Mileage To	Hazard Code	Hazard Description	Local Name	Track ID	Free Text
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	29.0594	59.1639	EKF	Landfill Gases	Site No. 255. Courwick Lane, Littlehampton.		LANDFILL GAS. This stretch of railway has been identified as being at risk from the migration of landfill gasses. Appropriate precautions should be taken. For further information please contact nationalminingengineer@networkrail.co.uk
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	41.0455	45.0020	HBE	Buried Electrical Cables	Marlands S/S - Billingshurst S/S	Up Main/Fast	Track id indicative only: Cable Type = 3 Core, AL Cond, CSA, Oil Filled
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1319	44.1319	HXE	Buried & Overhead Electric Cable	Billingshurst		Elect. Line under Rly. Info on underground/overhead services <gas, water, electricity> has not been validated.
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1385	44.1385	HXE	Buried & Overhead Electric Cable	Billingshurst		11KV CABLE BELOW TRACKS AND ACROSS YARD. Info on underground/overhead services <gas, water, electricity> has not been validated.
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1385	44.1385	HXE	Buried & Overhead Electric Cable	Billingshurst		11KV CABLE BELOW TRACKS AND ACROSS YARD. Info on underground/overhead services <gas, water, electricity> has not been validated.
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1468	44.1468	MAP	Authorised Access Point - Pedestrian	BILLINGSHURST	Up Main/Fast	Risk Rating 3, Hazard Rating 2, Score 6 - Station access - Station lighting - No third party permission
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1496	44.1606	HWR	Red Zone Working Prohibited	Billingshurst Station Platform 1	Up Main/Fast	Walking and Red Zone Working Prohibited - NO POSITION OF SAFETY
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1496	44.1606	HWR	Red Zone Working Prohibited	Billingshurst Station Platform 2	Down Main/Fast	Walking and Red Zone Working Prohibited - NO POSITION OF SAFETY
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1579	44.1579	EKB	Asbestos Hazard	Billingshurst Station		Please refer to asbestos register
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1579	44.1579	MAP	Authorised Access Point - Pedestrian	BILLINGSHURST PLAT 1	Up Main/Fast	Access through station, possible presence of cattle grids and/or slope, station lighting.
TBH1	THREE BRIDGES	44.1579	44.1579	MAP	Authorised Access	BILLINGSHURST PLAT 2	Down Main/Fast	Access through station, possible presence of cattle grids and/or slope, station lighting.

ELR	ELR Name	Mileage From	Mileage To	Hazard Code	Hazard Description	Local Name	Track ID	Free Text
	JN - ARUNDEL JN (NORTH)				Point - Pedestrian			
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1627	44.1627	HBG	Buried Gas Pipe	Billingshurst		Gas main.S760.Info on underground/overhead services <gas, water, electricity> has not been validated.
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1638	44.1638	HBG	Buried Gas Pipe	Billingshurst		200mm DIA GAS MAIN. Info on underground/overhead services <gas, water, electricity> has not been validated.
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1638	44.1638	MAP	Authorised Access Point - Pedestrian	BILLINGSHURST LEVEL CROSSING	All/Multiple Tracks	
TBH1	THREE BRIDGES JN - ARUNDEL JN (NORTH)	44.1638	44.1638	HBG	Buried Gas Pipe	Billingshurst		200mm DIA GAS MAIN. Info on underground/overhead services <gas, water, electricity> has not been validated.

## Milne Gareth

---

**From:** Linton Tom on behalf of NRG Enquiries  
**Sent:** 19 September 2018 11:31  
**To:** OP Buried Services Enquiries  
**Cc:** BS\_Transmittals  
**Subject:** Underground Services search: \*\*OP\*\* Premier House, Daux Road, Billingshurst (SET189118)  
**Attachments:** 222731.TIF; 222746.TIF; DMFP40000096.tif; DMFP40000097.tif; DMFP50001524.tif; DMFP50001527.tif; SET189118.xlsx; SZ7092715.tif; SZ7092720.tif; SZ7093839.tif; SZ7093854.tif; SZ7093859.tif; SZ7104467.tif

Thank you for your recent enquiry for buried services records from the NRG.

In reference to \*\*OP\*\* Premier House, Daux Road, Billingshurst

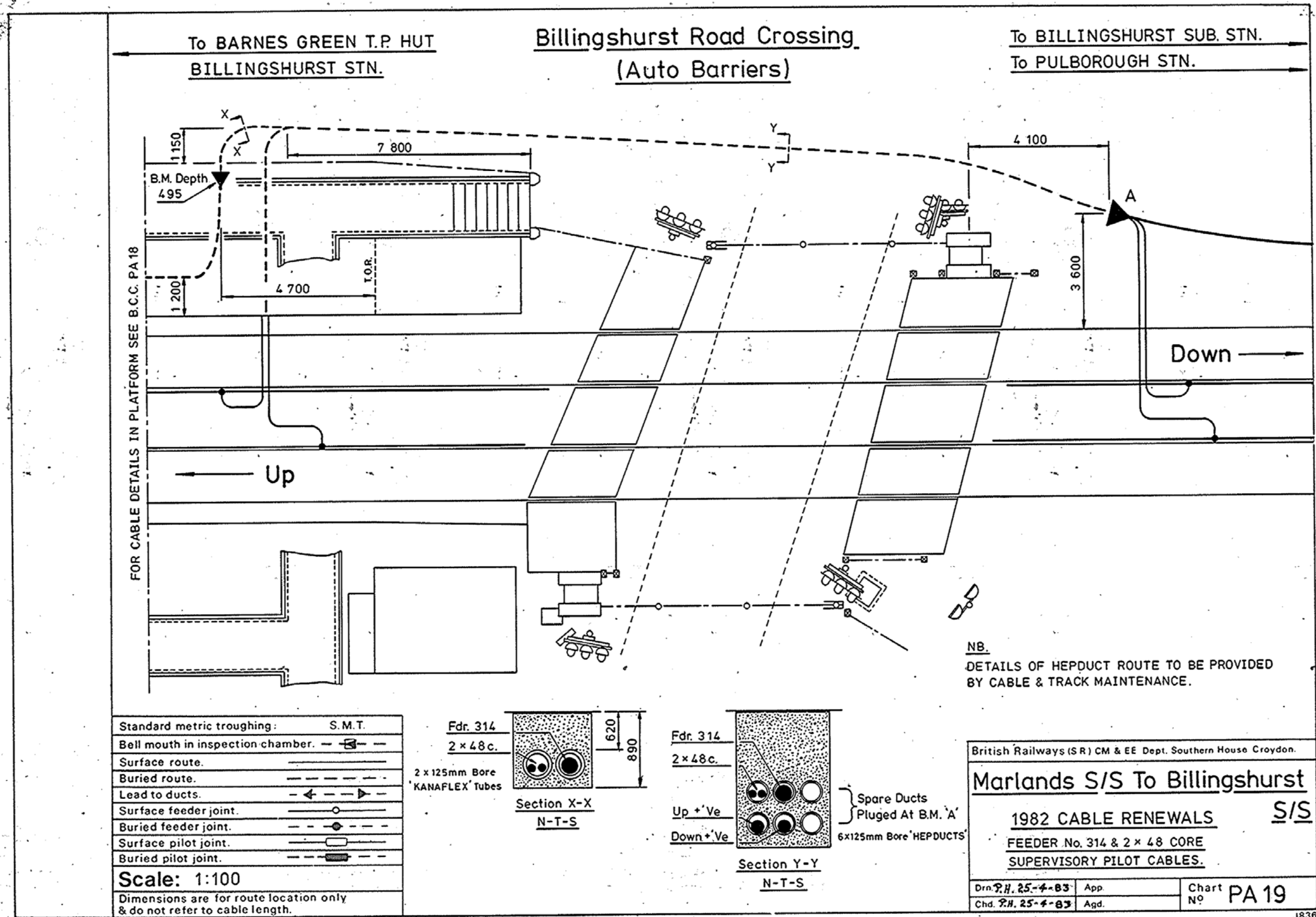
	No records have been found
12	Record(s) sent via email
	Record(s) sent via CD/DVD
	Record(s) sent via SharePoint

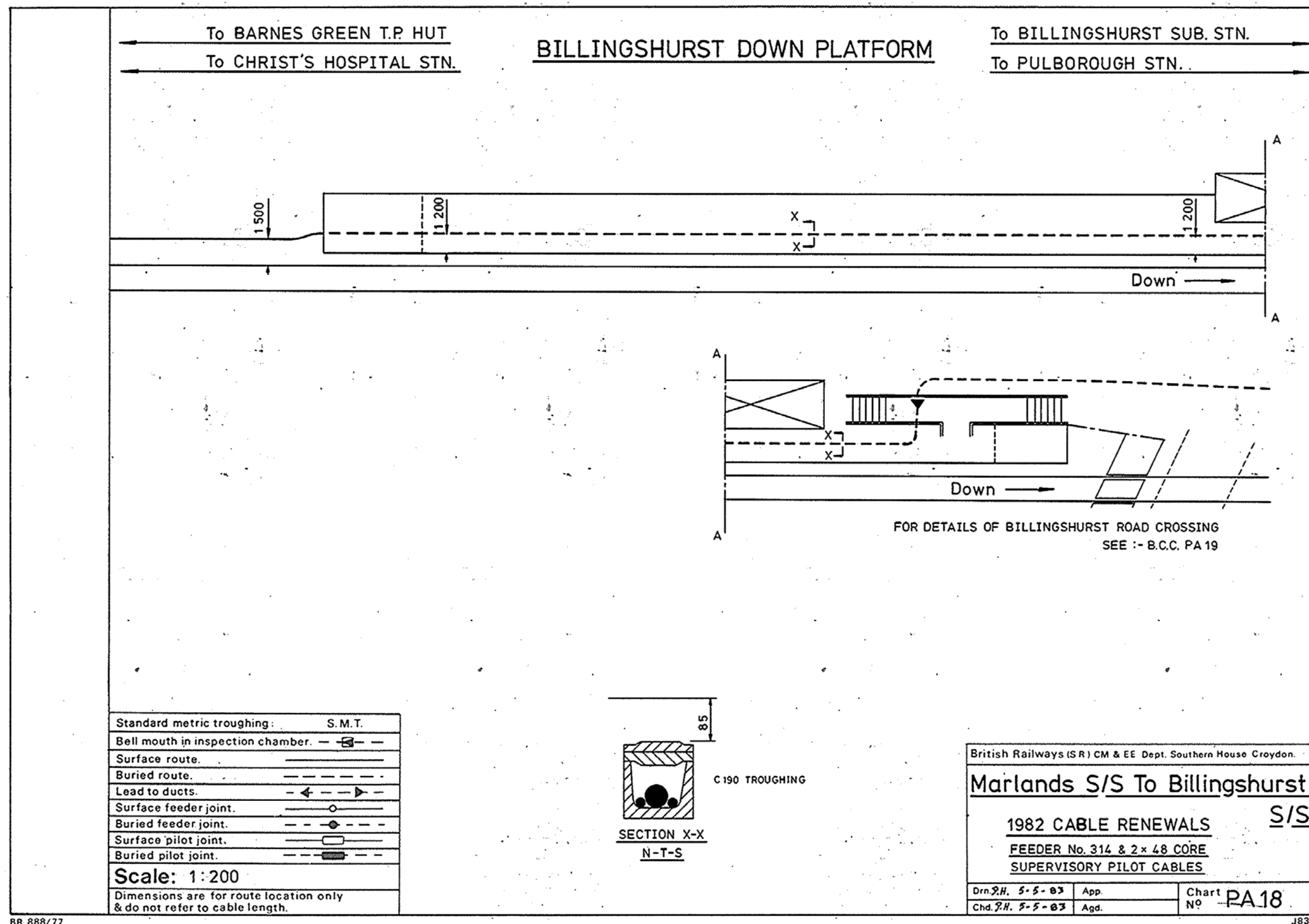
**Please note that all other aspects including the Utility Companies search results will be sent to you separately by the Underground Services Team.**

**Please direct all queries to [undergroundservices@networkrail.co.uk](mailto:undergroundservices@networkrail.co.uk).**

Kind regards,  
National Records Group

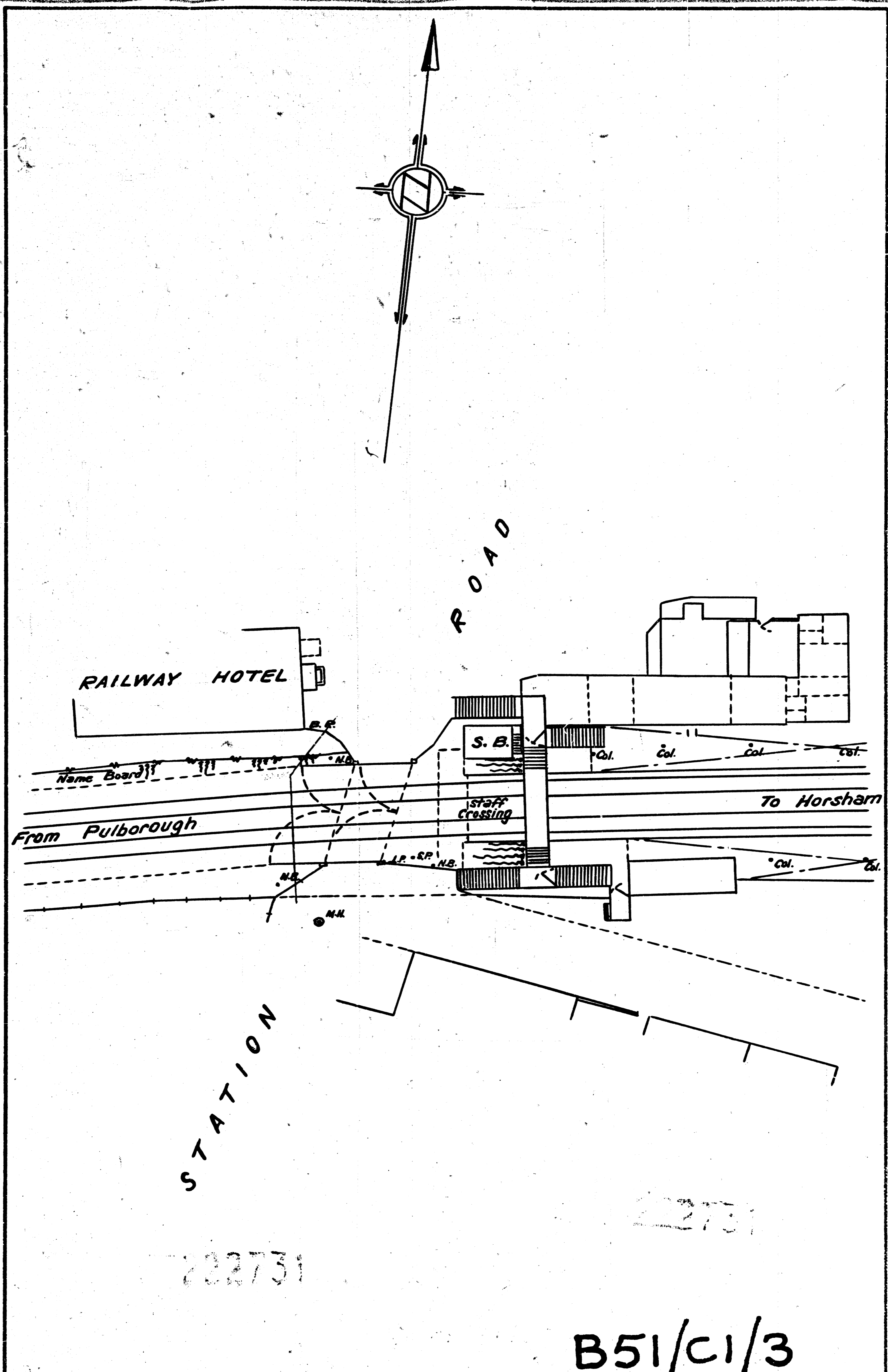
The information contained in these records is indicative only and should not be relied on for any purpose. No warranty or guarantee is given as to its accuracy or completeness and no liability is accepted by Network Rail for any errors or omissions or for the consequences of reliance on this information for any purpose. The actual position of infrastructure, plant, equipment and boundaries must be verified on site and the position of any underground cables or service pipes verified by cable detector or other suitable means. This information is confidential and should not be divulged to any other person or used for a purpose other than the purpose for which it was requested. The document may not be reproduced, stored in a retrieval system or transmitted in any form or by any means without the permission of Network Rail.







8 7 6 5 4 3 2 1  
PLANDALE S.M.A.



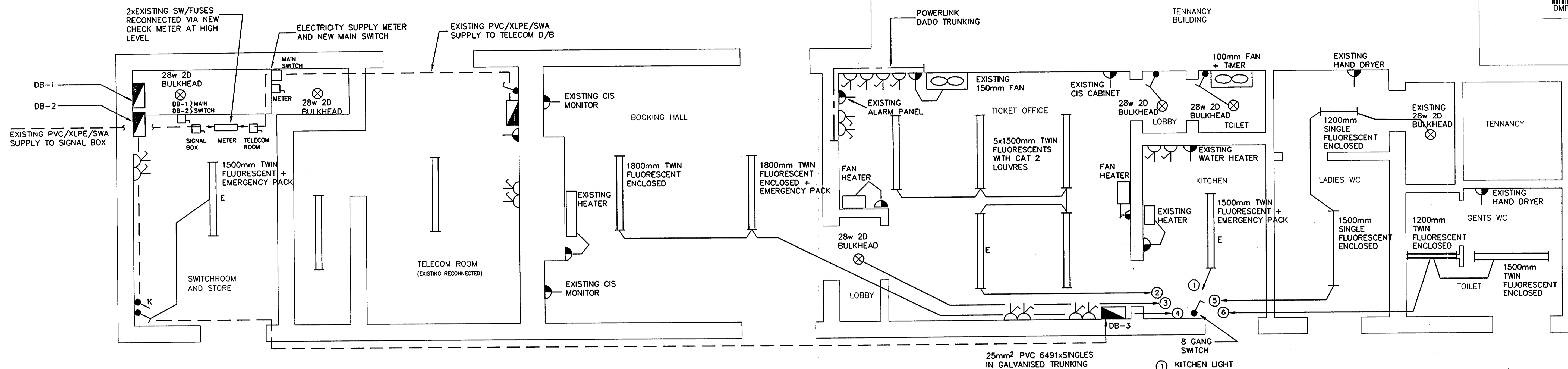
B51/C1/3

BRITISH RAILWAYS CHIEF CIVIL ENGINEER'S DEPT.		ADDRESS BRIGHTON STATION		SOUTHERN REGION BRIGHTON DISTRICT	
CORRES.	<b>BILLINGSHURST STATION</b>				REVISED
25/368	<b>NEW GAS MAIN FOR S.E.G.B.</b>				
DRAWN	TRACED	APPROVED	DISTRICT ENGINEER	D. E. No.	13965 S/I
CHECKED	DATE 28.10.57	SCALES 40' to 1 inch	CHIEF CIVIL ENGINEER	C.C.E. No.	

H.M.L. 446/56

B.R. 906/5

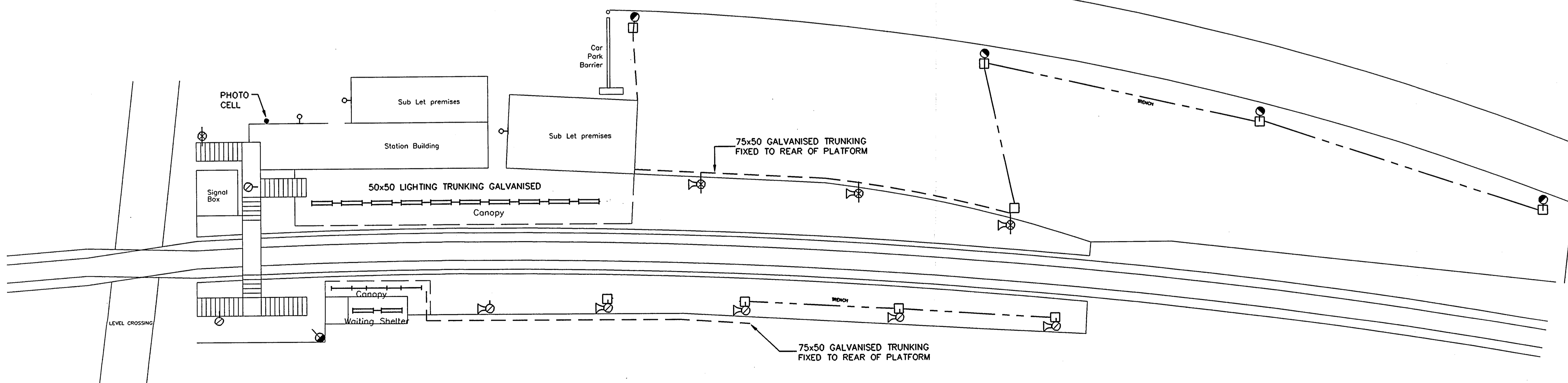
Neg. No. S.13522



KEY

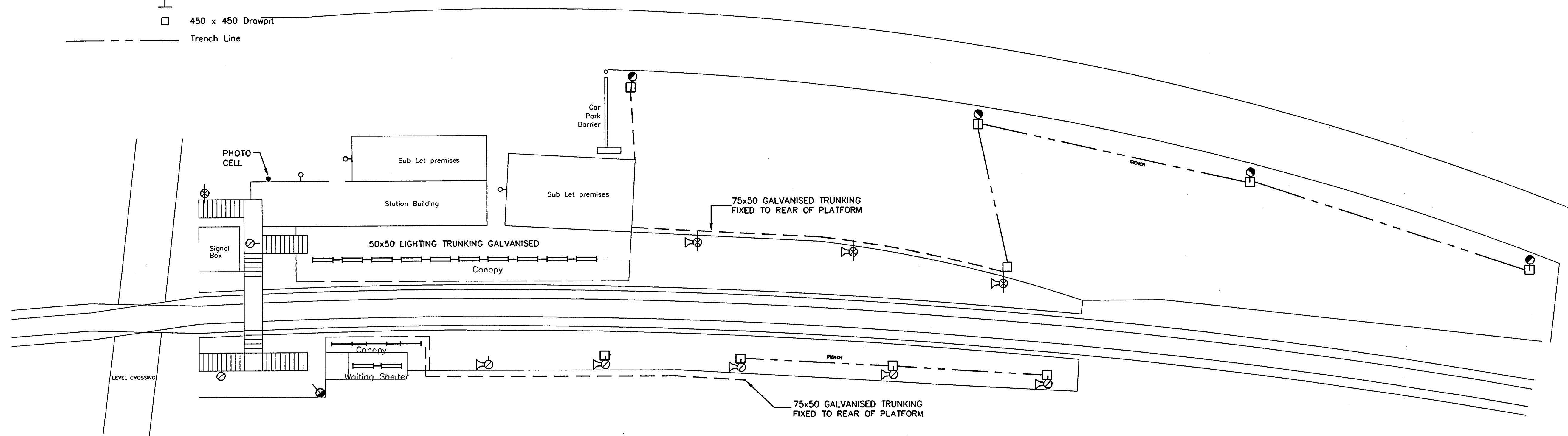
- 6.0M Abacus Lift & Tilt Column with Single Spigot and Urbis 70W ZX1 Fitting
- 6.0M Abacus Lift & Tilt Column with Twin Urbis 70W ZX1 Fitting
- 6.0M Abacus Lift & Tilt Column with 100W ZX1 Deep Bowl
- 8.0M Urbis Deep Bowl 100w Head
- Public Address Speakers
- Single Urbis 58w Fluorescent Fitting
- Twin Urbis 2x58w Fluorescent Fitting
- Wall Mounted 70W Son Bulkhead
- 450 x 450 Drawpit
- Trench Line

- ① KITCHEN LIGHT
- ② TICKET OFFICE LIGHTS
- ③ TICKET OFFICE LOBBY LIGHT
- ④ BOOKING HALL LIGHTS
- ⑤ LADIES WC
- ⑥ GENTS WC
- ⑦ EMERGENCY TEST KEY SWITCH
- ⑧ EMERGENCY TEST KEY SWITCH



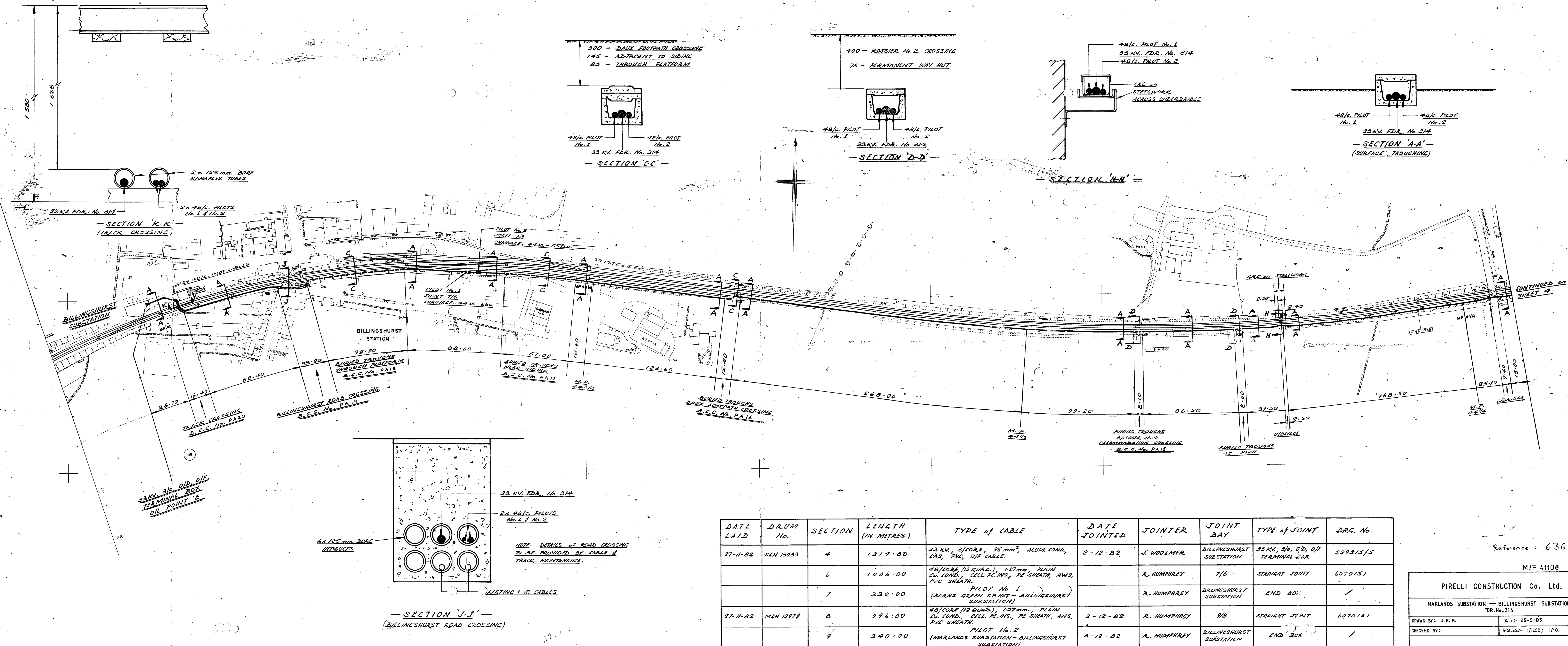
**AS INSTALLED  
DRAWING**

AGENT	GEOFFREY OSBORNE LTD MAINTENANCE DIVISION NORTH WING, WRAY COPPICE OAKS ROAD REIGATE SURREY RH2 0LE
CLIENT	RAILTRACK PLC
PROJECT	BILLINGSHURST STATION
TITLE	ELECTRICAL INSTALLATION
SCALE	N.T.S.
<b>BOOKER&amp;BEST</b> Electrical & Mechanical Contractors Windmill House Windmill Road St Leonards on Sea East Sussex TN38 9BZ Tel: (01424)434391 Fax: (01424)446833	



Tel: (01424)434391 Fax: (01424)446833

**AS INSTALLED  
DRAWING**



DATE LAID	DRUM No.	SECTION	LENGTH (IN METRES)	TYPE of CABLE	DATE JOINTED	JOINTER	JOINT BAY	TYPE of JOINT	DRC. No.
27-11-82	SZN 13083	4	1314.80	33 KV, 3/CORE, 95 mm <sup>2</sup> , ALUM. COND., CAS, PVC, O/F CABLE.	2-12-82	J. WOODMER	BILLINGSHURST SUBSTATION	33 KV, 3/6, O/D, O/F TERMINAL BOX	529315/5
		6	1006.00	48/CORE (12 QUAD.), 1.27 mm, PLAIN CU. COND., CELL PE. INS., PE SHEATH, AWS, PVC SHEATH.		R. HUMPHREY	7/6	STRAIGHT JOINT	6070151
		7	330.00	PILOT No. 1 (BARNES GREEN T.P. HUT - BILLINGSHURST SUBSTATION)		R. HUMPHREY	BILLINGSHURST SUBSTATION	END BOX	/
27-11-82	MZH 12979	8	996.00	48/CORE (12 QUAD.), 1.27 mm, PLAIN CU. COND., CELL PE. INS., PE SHEATH, AWS, PVC SHEATH.	2-12-82	R. HUMPHREY	9/8	STRAIGHT JOINT	6070151
		9	340.00	PILOT No. 2 (MARLANDS SUBSTATION - BILLINGSHURST SUBSTATION)	3-12-82	R. HUMPHREY	BILLINGSHURST SUBSTATION	END BOX	/

Reference : 636

M/F 41108

PIRELLI CONSTRUCTION Co. Ltd.

MARLANDS SUBSTATION - BILLINGSHURST SUBSTATION  
FDR. No. 314

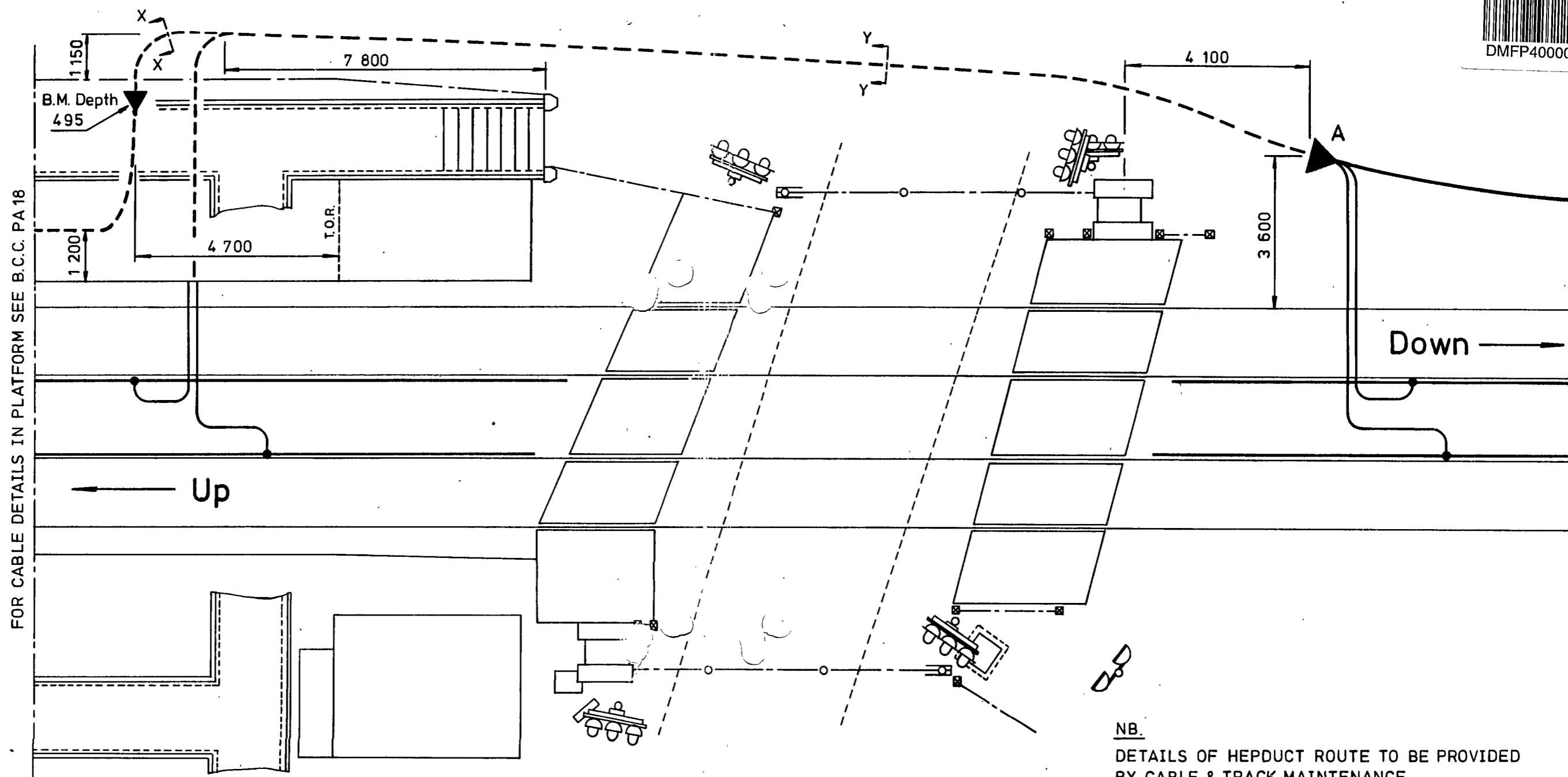
DRAWN BY: J.R.M. DATE: 25-5-83  
 CHECKED BY: SCALES: 1/1250; 1/10.

DRAWING No 615021 SHEET 5

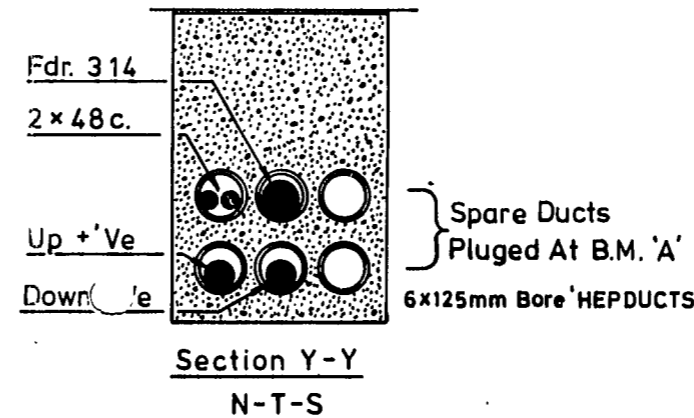
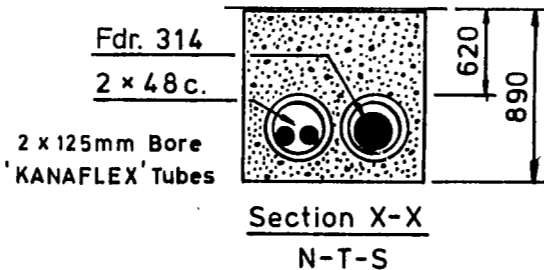
To BARNES GREEN T.P. HUT  
BILLINGSHURST STN.

# Billingshurst Road Crossing (Auto Barriers)

To BILLINGSHURST SUB. STN.  
To PULBOROUGH STN.



Standard metric troughing.	S M T
Bell mouth in inspection chamber.	
Surface route.	—
Buried route.	- - -
Lead to ducts	← →
Surface feeder joint.	○
Buried feeder joint.	●
Surface pilot joint.	□
Buried pilot joint.	■
<b>Scale: 1:100</b>	
Dimensions are for route location only & do not refer to cable length.	



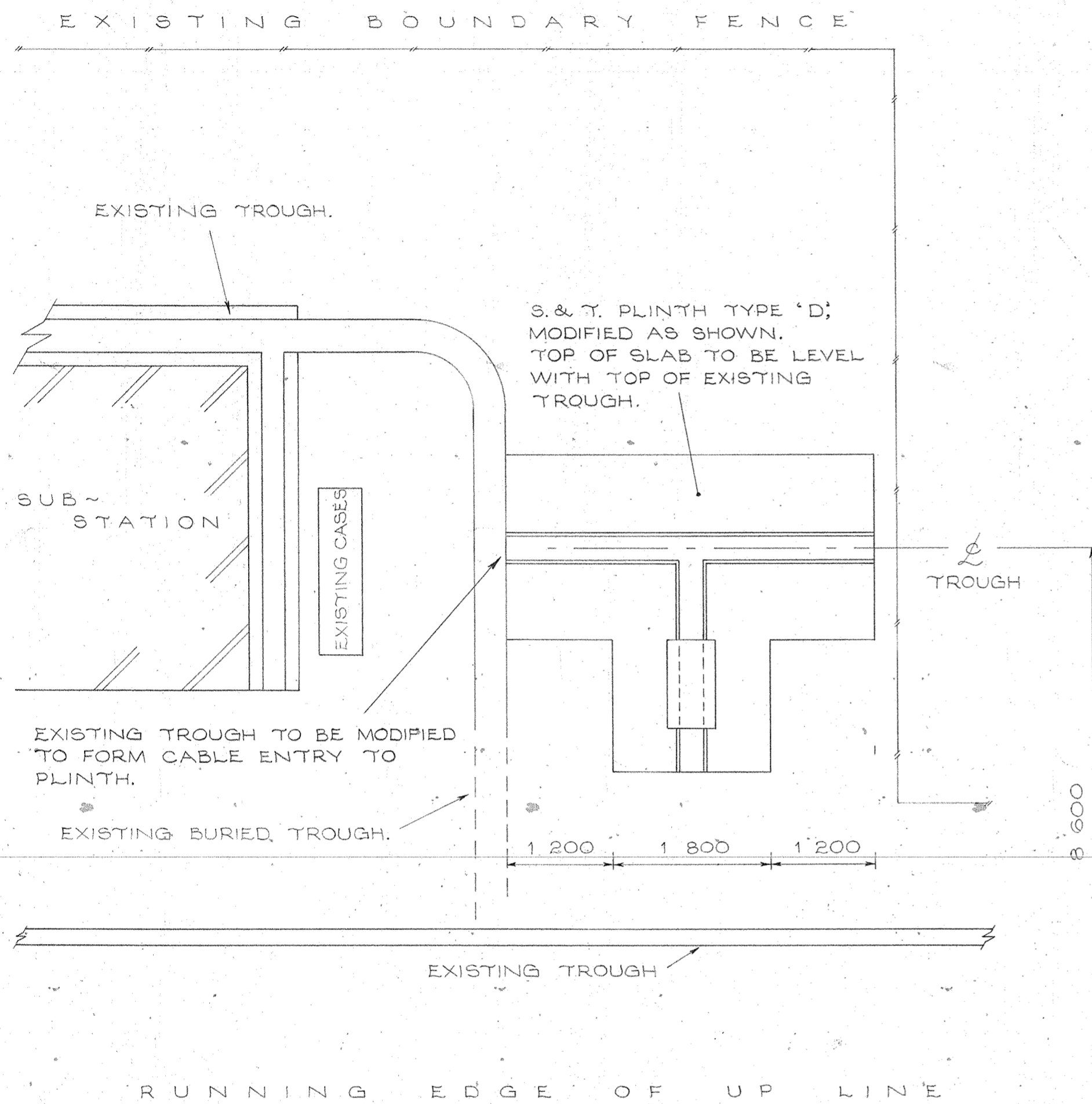
NB.  
DETAILS OF HEPDUCT ROUTE TO BE PROVIDED  
BY CABLE & TRACK MAINTENANCE.

Reference : 636

British Railways (SR) CM & EE Dept Southern House Croydon		
<b>Marlands S/S To Billingshurst</b>		
<b>1982 CABLE RENEWALS</b>		<b>S/S</b>
FEEDER No. 314 & 2 x 48 CORE SUPERVISORY PILOT CABLES.		
Drn. <b>P.N. 25-4-83</b>	App	Chart No <b>PA 19</b>
Chd. <b>P.N. 25-4-83</b>	Agd.	

# NOTES

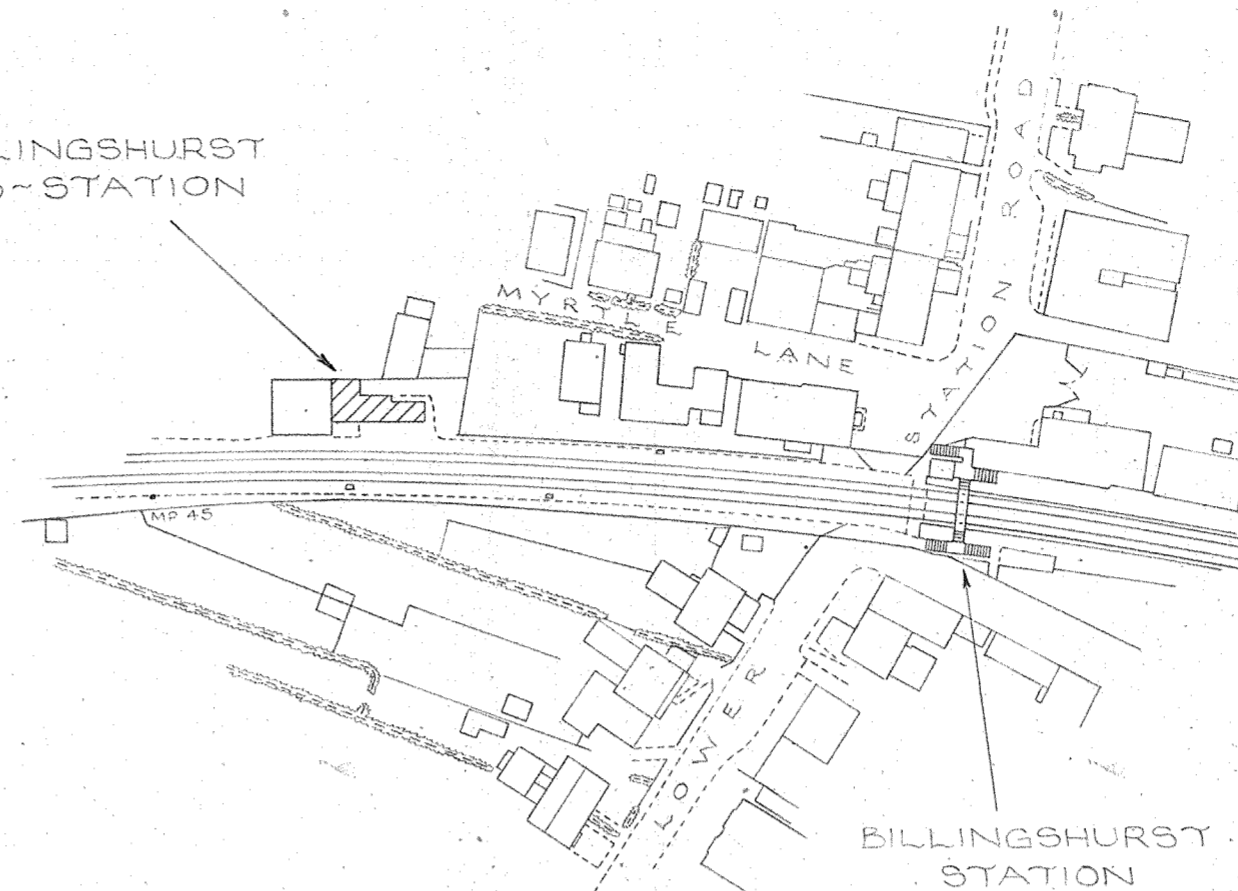
1. FOR PLINTH DETAILS SEE DRG. N° 7/2273<sup>R/E</sup> 52.



PLAN

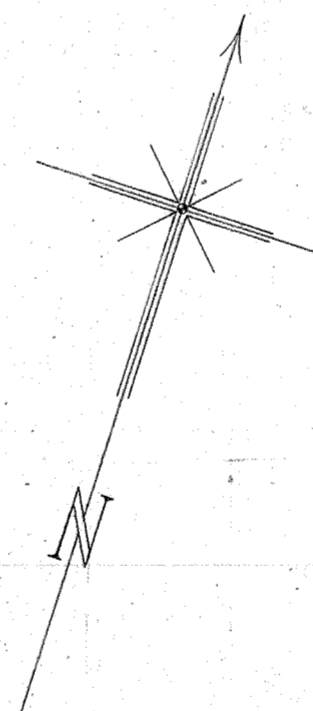
SCALE ~ 1:50

BILLINGSHURST SUB-STATION



SITE PLAN

SCALE ~ 1:1250



Letter	Date	Description of revisions	By
<b>British Railways Board</b> Chief Civil Engineer British Rail Southern Southern House Croydon CR9 1DY Telephone 01-686 3422			
K.H.			
P.L.			
JULY '85 Regional Civil Engineer			
MID SUSSEX A.W.S. BILLINGSHURST SUB-STATION SETTING OUT DETAILS FOR S. & T. PLINTH			
Scale	1: 50 & 1: 1250		
File Numbers	282154		
Drawing Number	B 51/3/9		

282154

B 51/3  
594 x 420

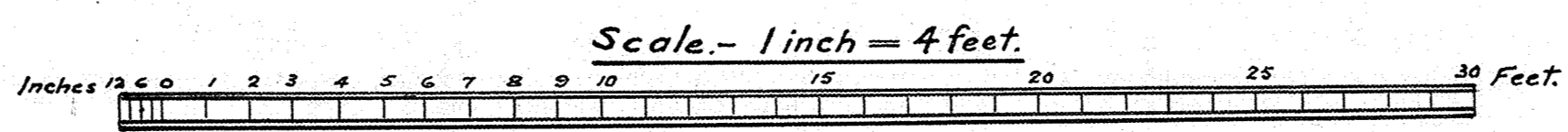
3 days before



# S.R. ELECTRIFICATION.

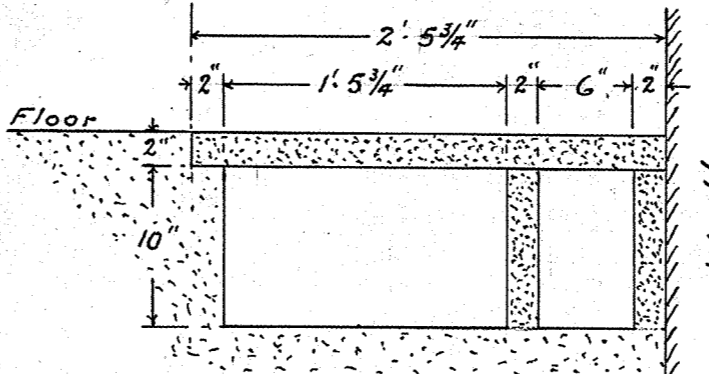
## BILLINGSHURST SUBSTATION.

### DETAILS OF RAFT.



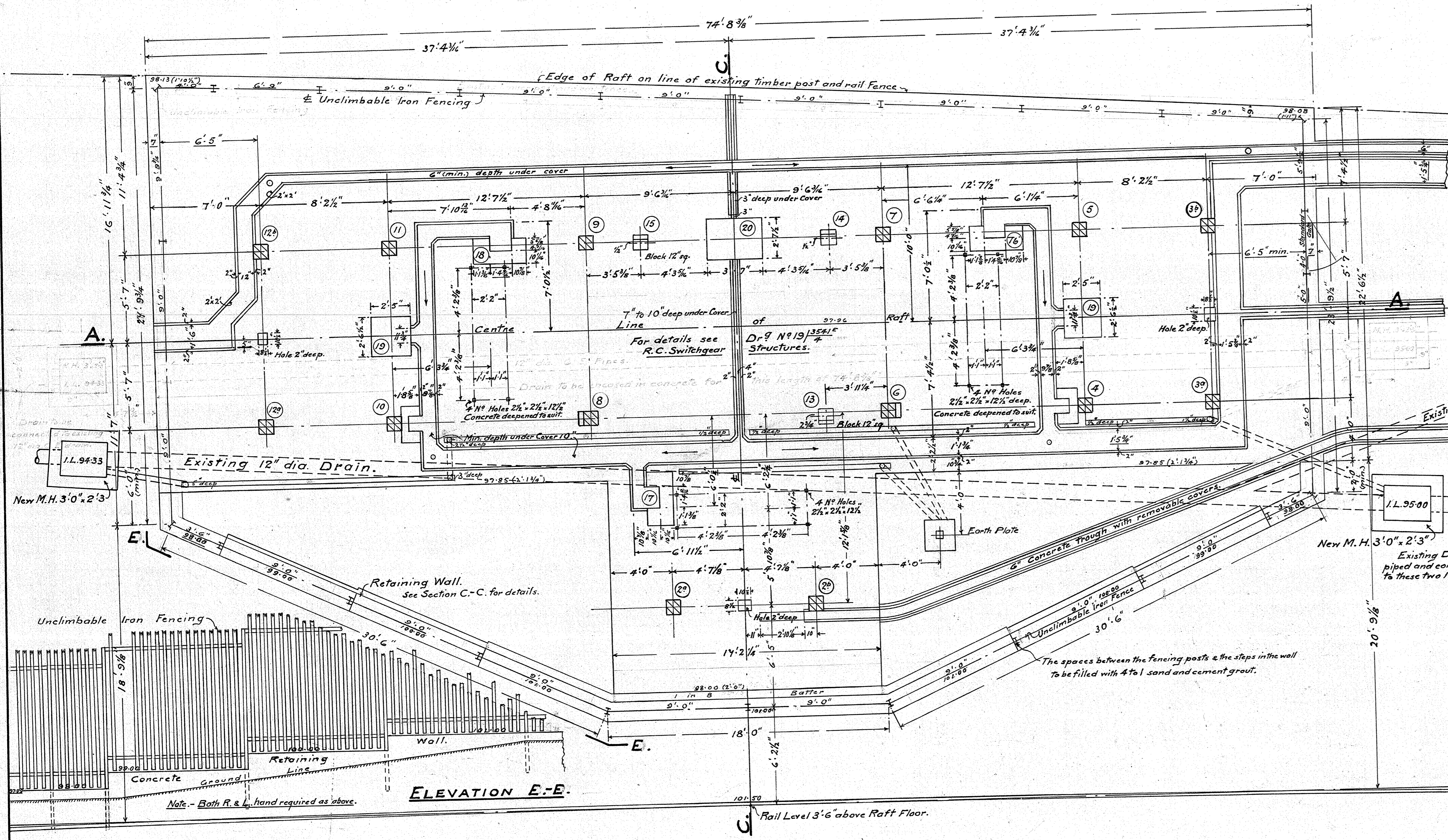
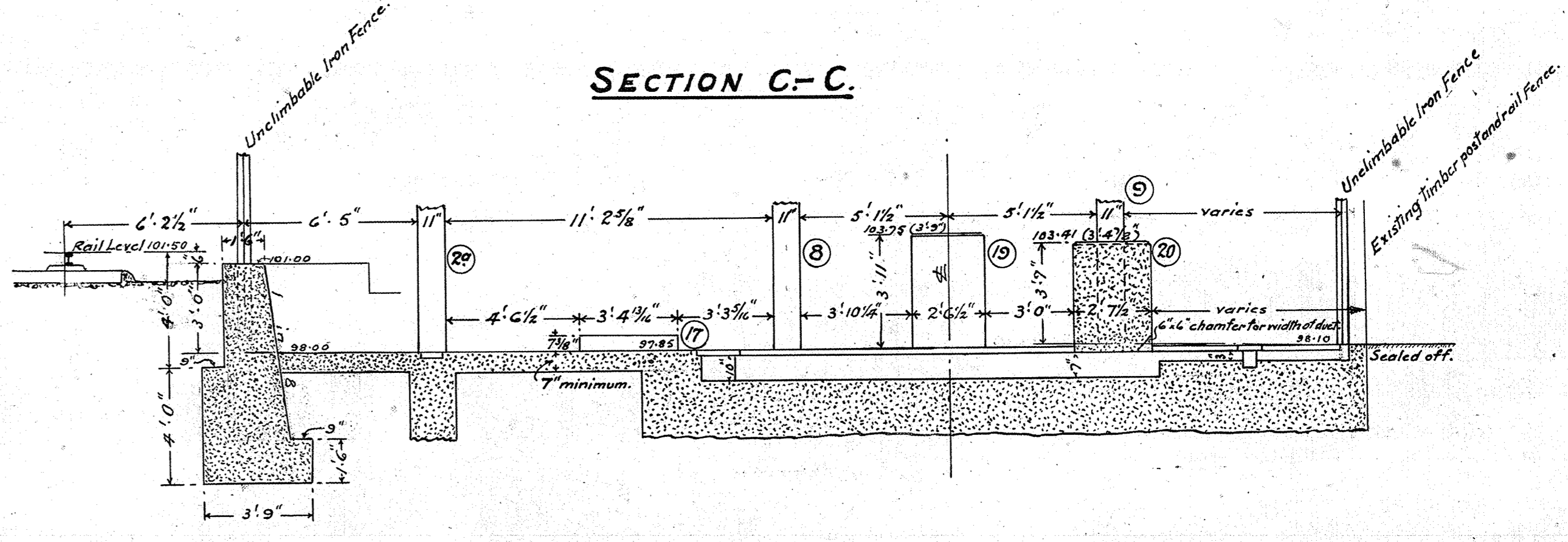
Notes. Dimensions in brackets are depths below level of Substation floor, i.e. 100.00.  
All Plinths to be cast monolithic with Raft.  
Concrete - Foundations to Walls, etc. 8:1.  
Mass in " 6:1.  
Reinforced. 4:2:1.

The positions for the concrete Troughing beyond the Raft will be decided later.



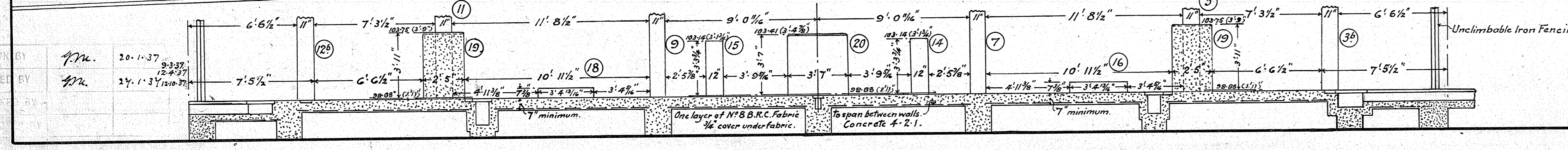
Detail at D-D.

### SECTION C-C.

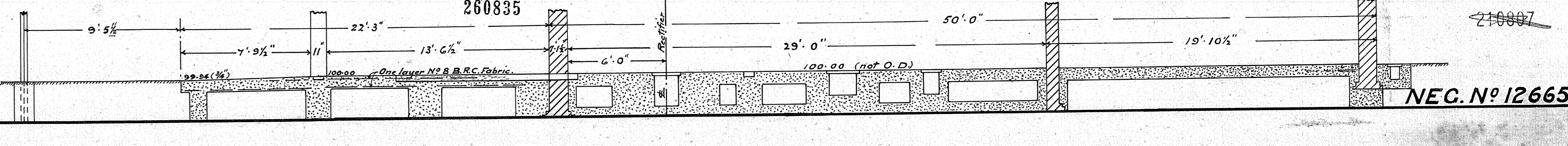


ELEVATION E-E.

### SECTION A-A.



### SECTION B-B.



CHIEF CIVIL ENGINEER'S OFFICE  
PLAN No. B51/3/3  
DATE 16 JUN 1981  
SOUTHERN HOUSE, CROYDON

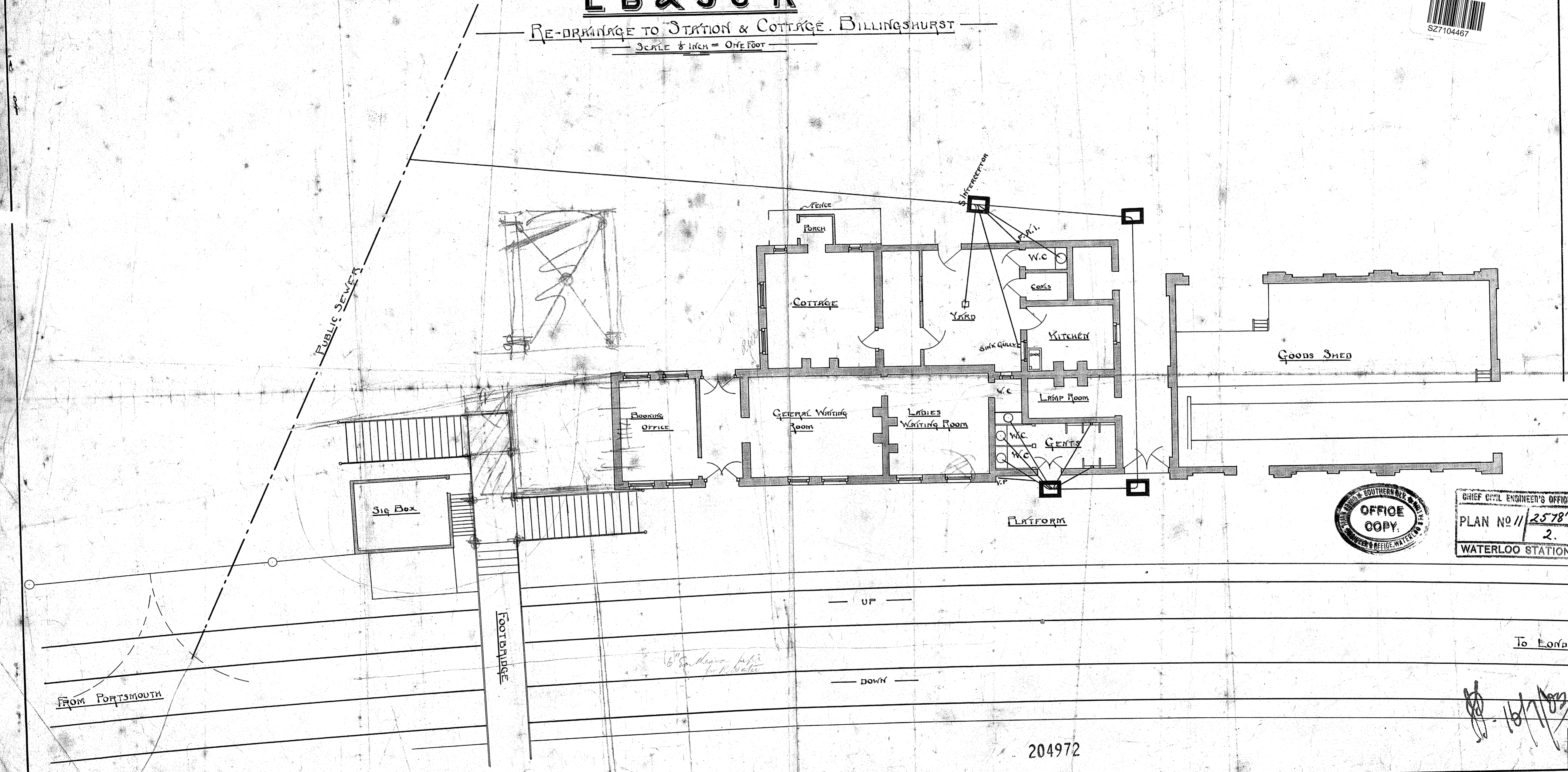
NEC. N° 12665.

✓ 10/3/04

**LB & SCR**

RE-DRAINAGE TO STATION & COTTAGE. BILLINGSHURST

SCALE 1/8 INCH = ONE FOOT

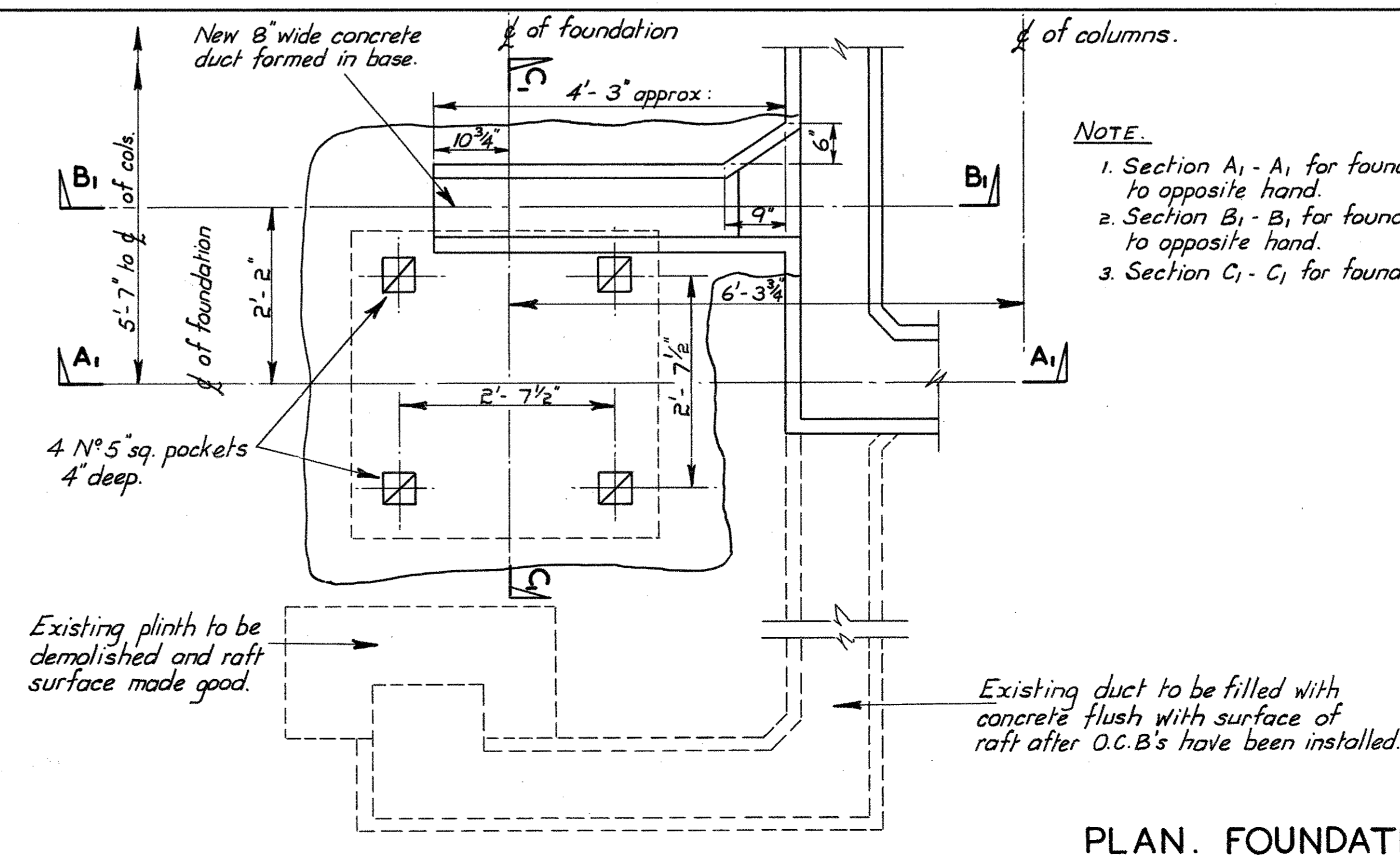
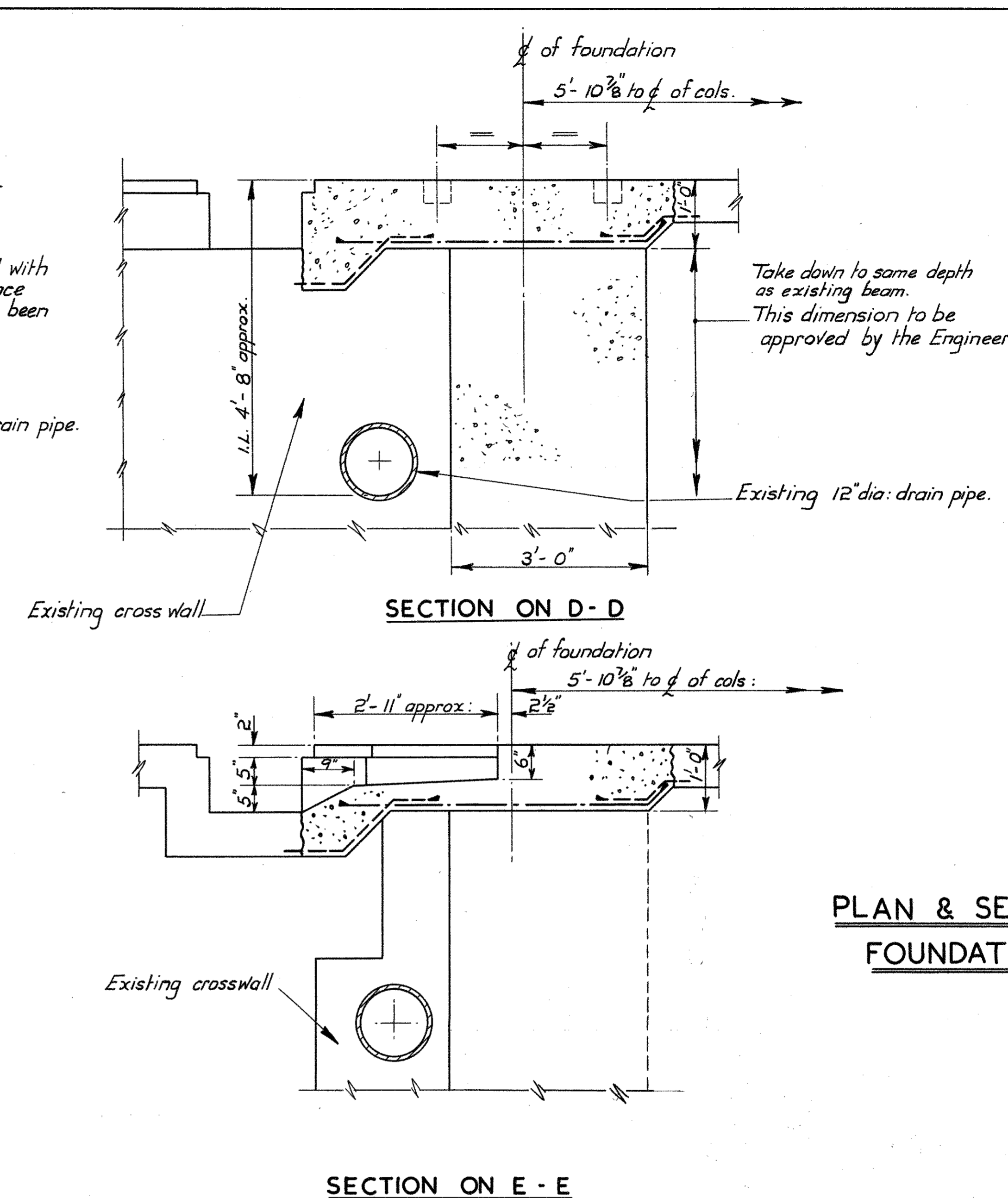
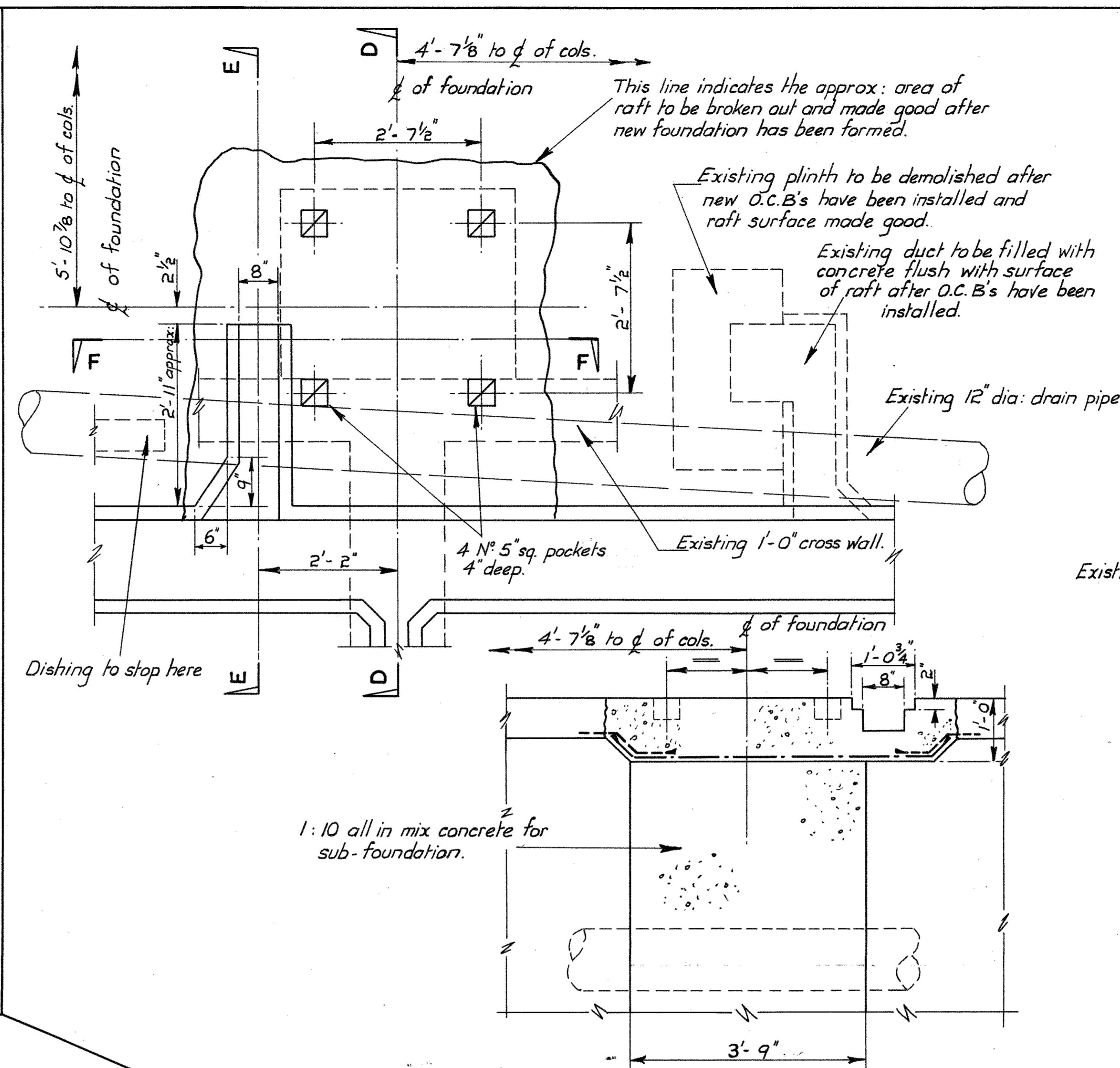
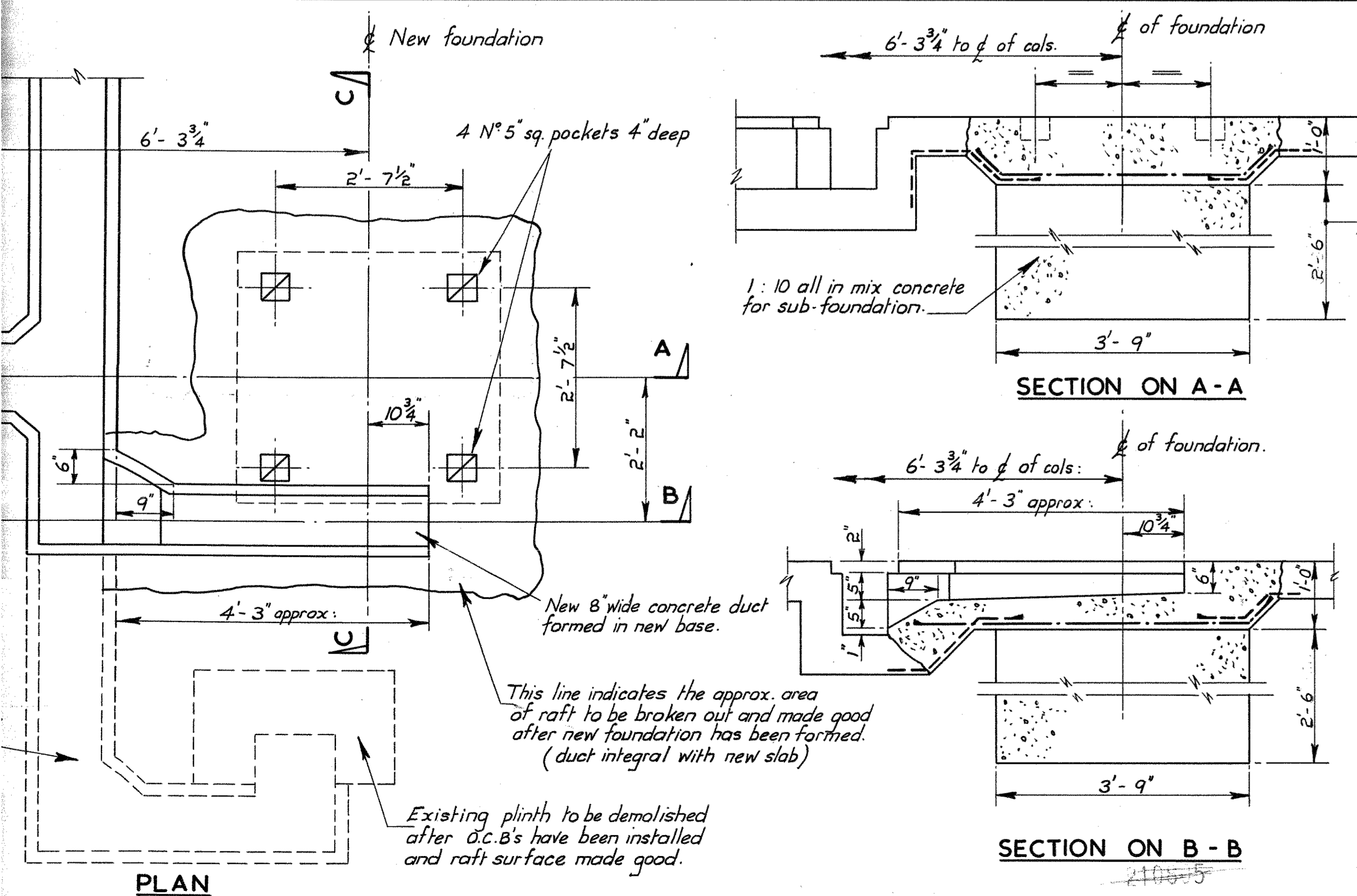
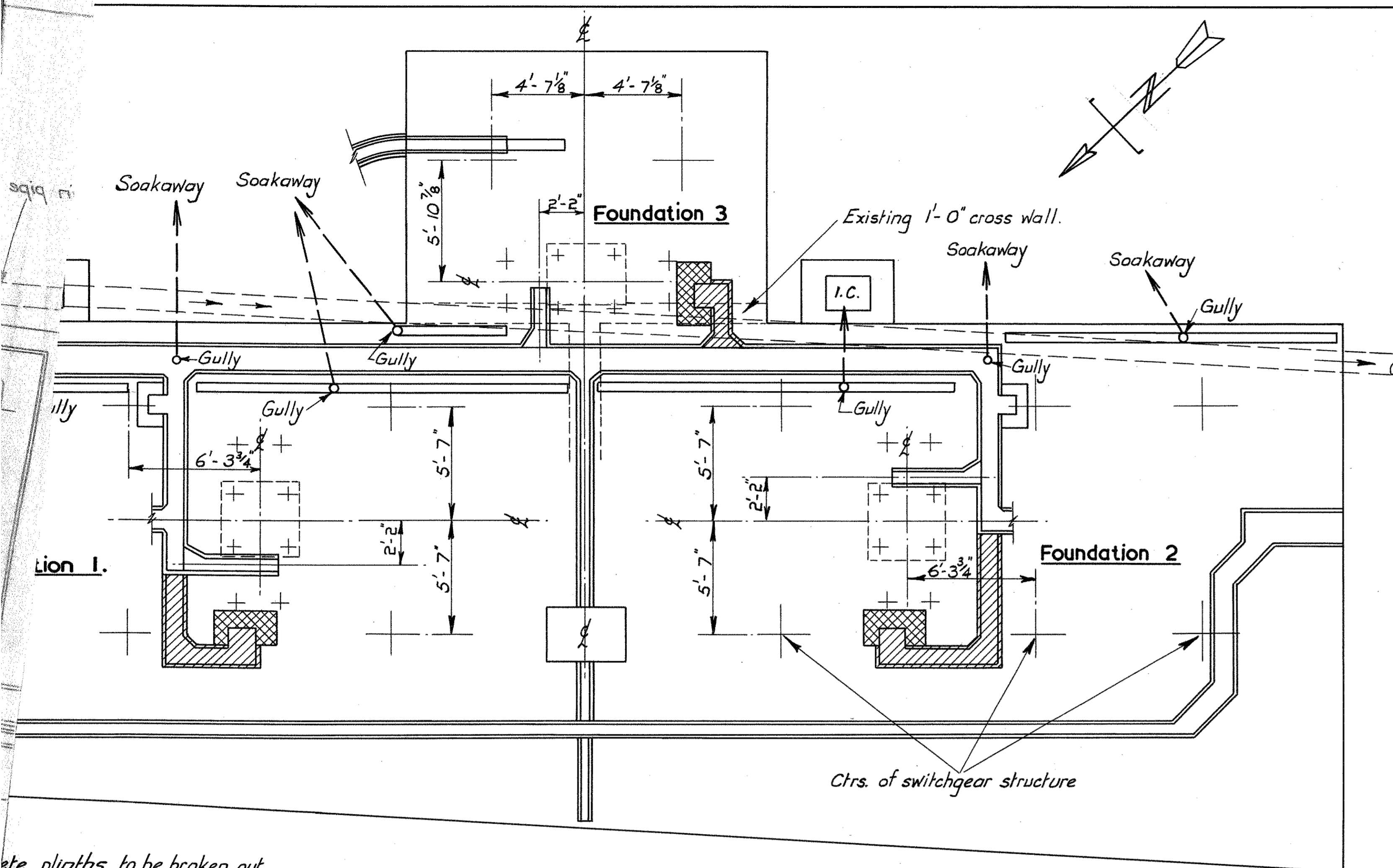


CHIEF CIVIL ENGINEER'S OFFICE  
PLAN NO 11/2578/1  
2.  
WATERLOO STATION

To London

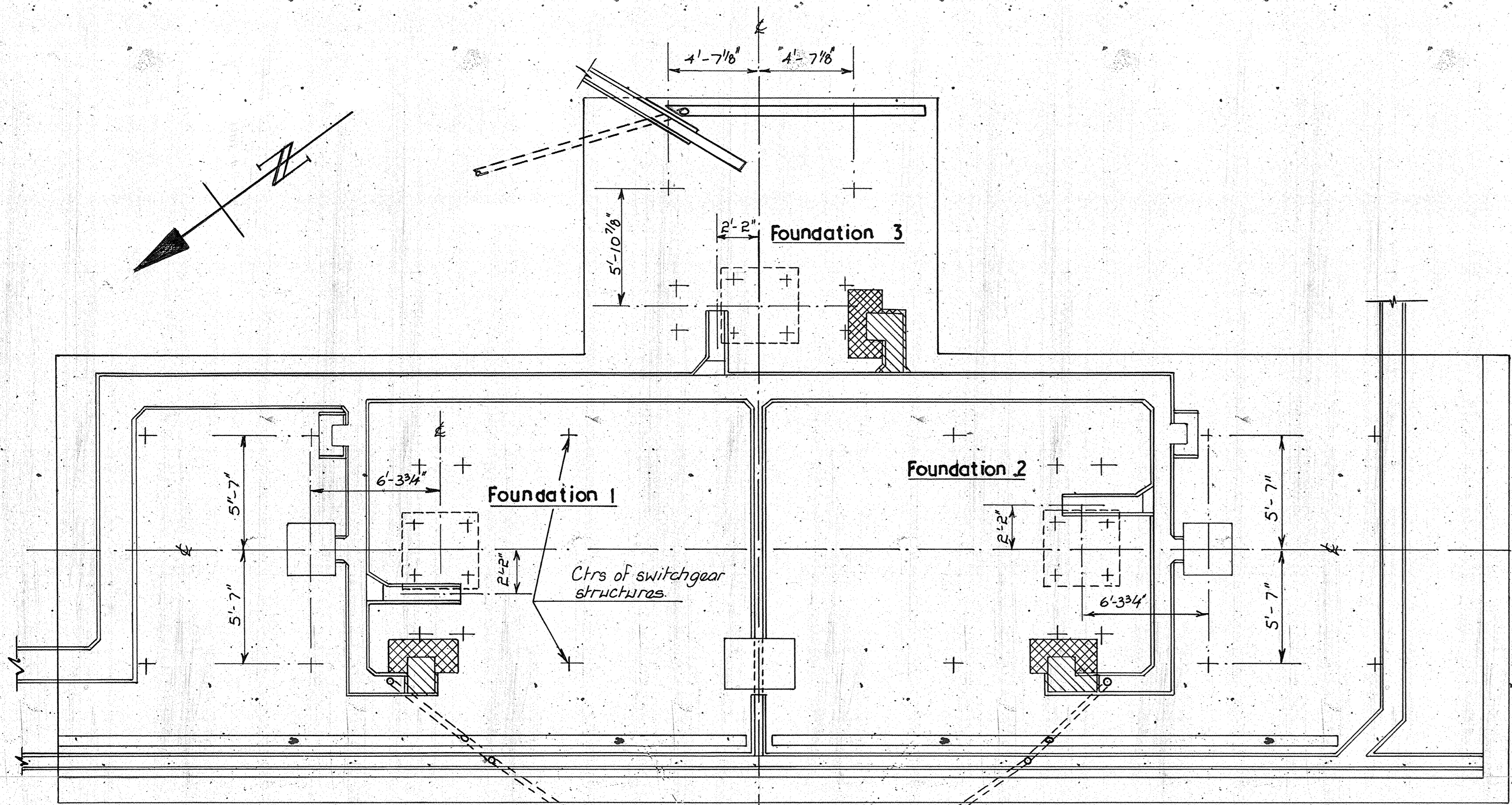
16/7/04

204972



- Notes.
- SZ7/093839
1. Concrete duct covers and timber infill pieces to be made and installed immediately after completion of foundations & ducts.
  2. All concrete to be 1:2:4 mix by volume unless noted otherwise on the drawing.
  3. Min. cover to reinforcement to be  $1\frac{1}{2}$ , except under new 4" deep pockets which should be a minimum of 2".
  4. New reinforcement to match existing in size and spacing.
  5. New reinforcement shown thus: ~~~~~ Existing reinforcement shown thus: ~~~~~
  6. New reinforcement to lap existing a minimum of 12".
  7. All areas of alteration have cross fall of 1 in 96 approx. on existing surfaces. New surfaces to be laid to match existing.
  8. See drg. N°7/2713/7/6/5, for details of duct covers and timber infill pieces.

Letter	Date	Description of revisions	By
<h2>British Railways Board</h2> <p>Chief Civil Engineer British Rail Southern, Southern House Croydon CR9 1DY</p> <p style="text-align: right;">Telephone 01-686 3422</p>			
T.C.E.	D.T.	<i>Shaw.</i>	
S.A.H.		<i>Electification Engineer.</i>	
App'd	75	<i>for J.B. Mawson.</i>	
<i>Shaw.</i>		Chief Civil Engineer	<i>Shaw.</i>
<h3>33KV SWITCHGEAR RENEWALS</h3> <h2>BILLINGSHURST SUBSTATION</h2> <h3>DETAILS OF STRUCTURAL ALTERATIONS TO RAFT</h3>			
Scale	$\frac{1}{4}" \text{ and } \frac{3}{4}" \text{ to } 1' - 0"$		
File Number	ELEC/GEN/223/4		
Drawing Number	12/2578 H/5		

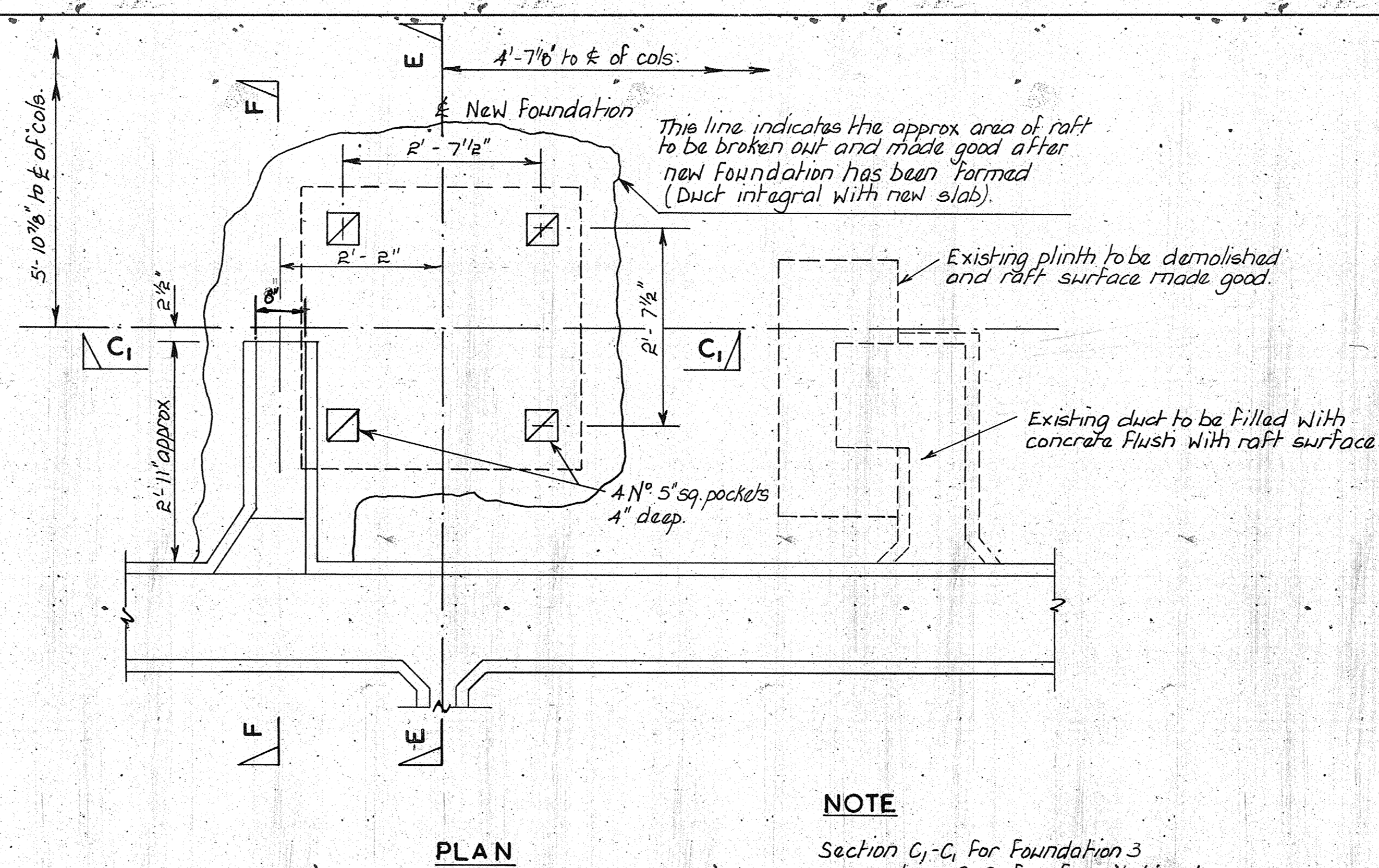


PLAN OF RAFT

SCALE: 1/4" = 1'-0"

Area to be filled with concrete.

Concrete plinth to be broken out and raft surface made good.

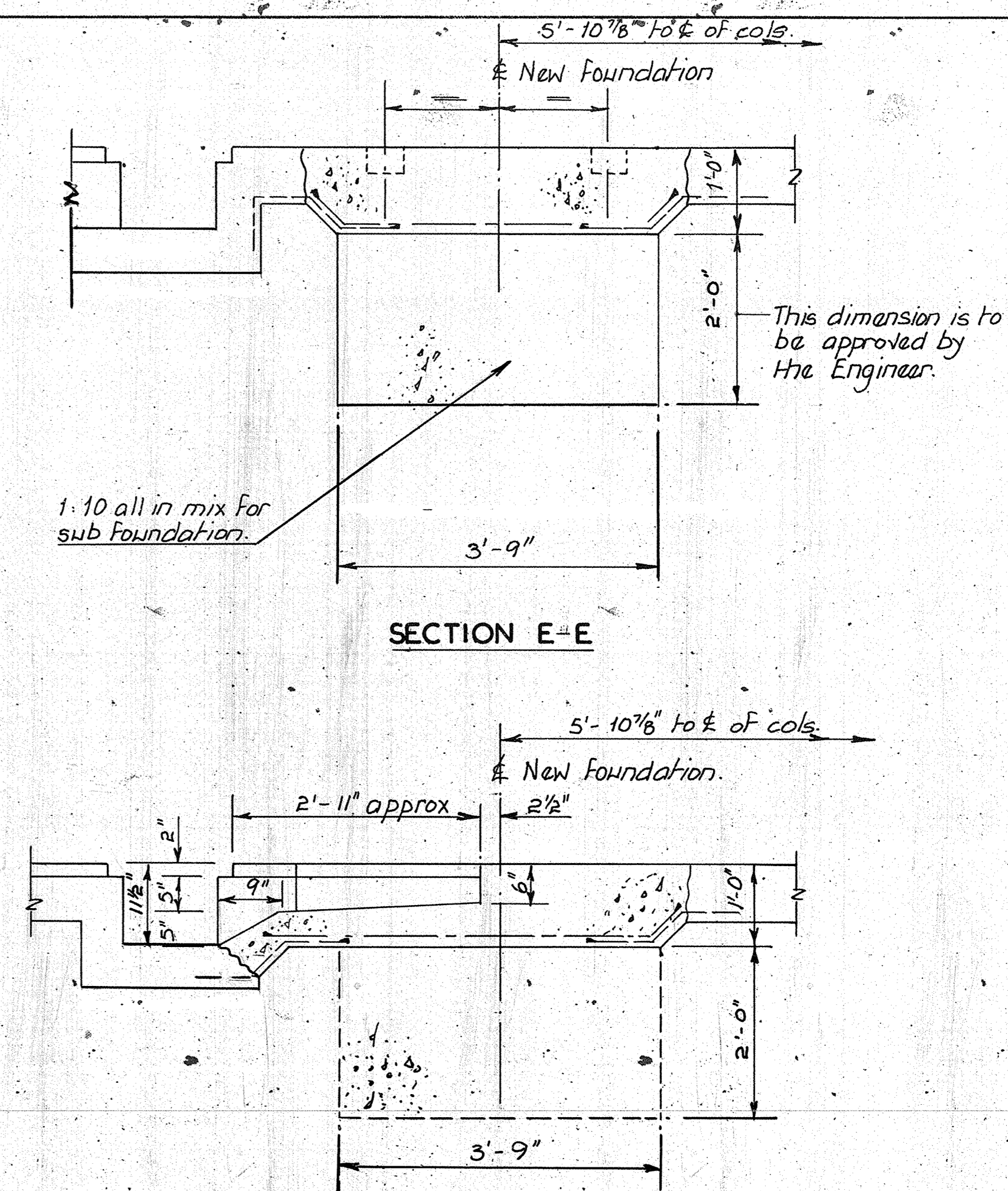


NOTE

Section C1-C1 for Foundation 3 as section C-C for Foundation 1.

PLAN & SECTIONS

FOUNDATION 3

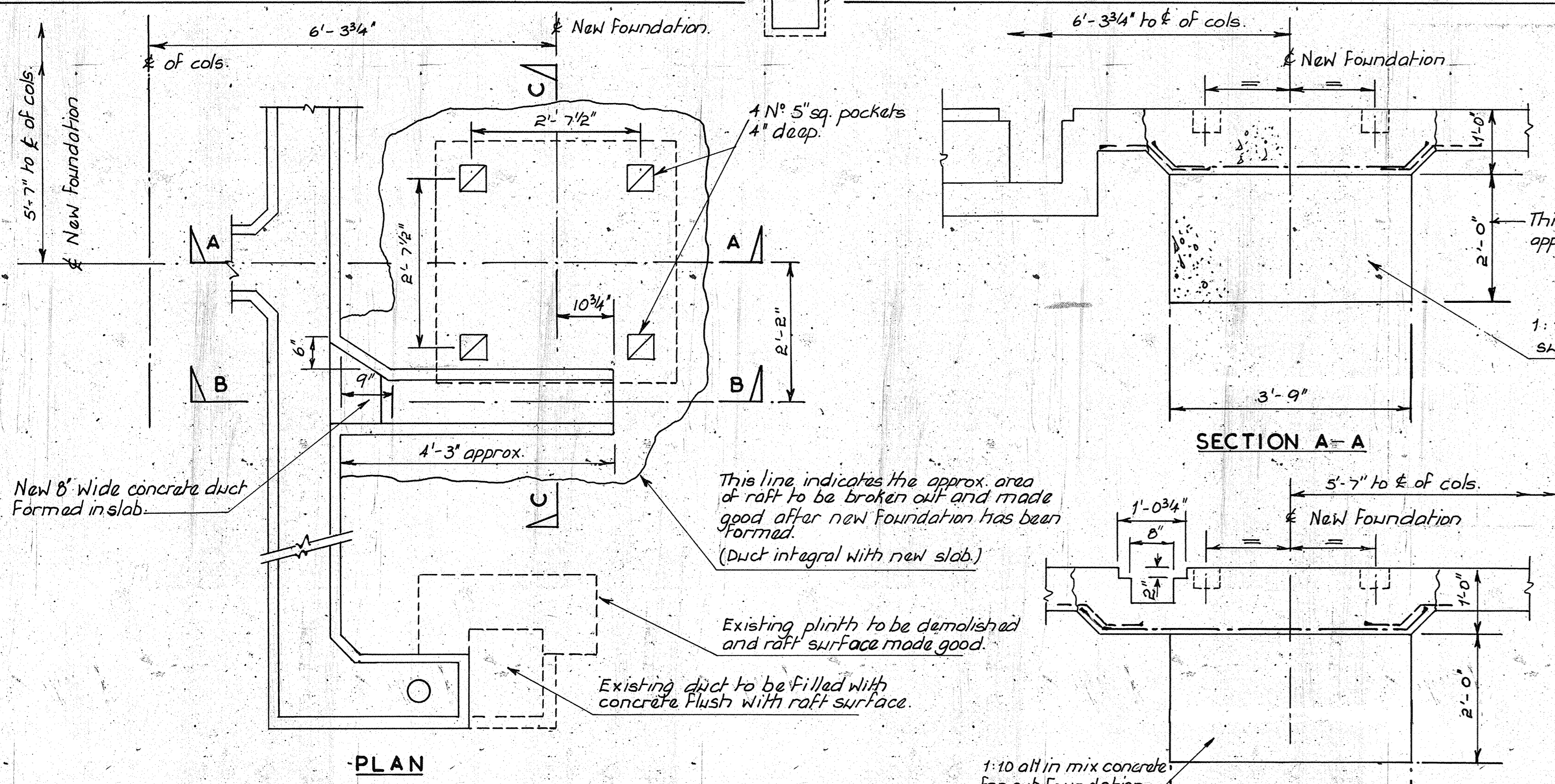


SECTION E-E

SECTION F-F

NOTES

- All concrete to be 1:2:4 mix by volume unless otherwise noted on drawing.
- Min cover to reinforcement to be 1 1/2" except under new 4" deep pockets which should be a min of 2".
- New reinforcement to match existing in size and spacing.
- New reinforcement shown thus: Existing reinforcement shown thus:
- New reinforcement to lap existing a min of 12".
- All areas of alterations have cross falls of 1 in 96 approx on existing surfaces. New surfaces to be laid to match existing.
- See dra N° 7/2273/71/G/6 for details of duct covers and timber infill pieces.
- Concrete duct covers and timber infill pieces to be made and installed immediately after completion of foundations and ducts.

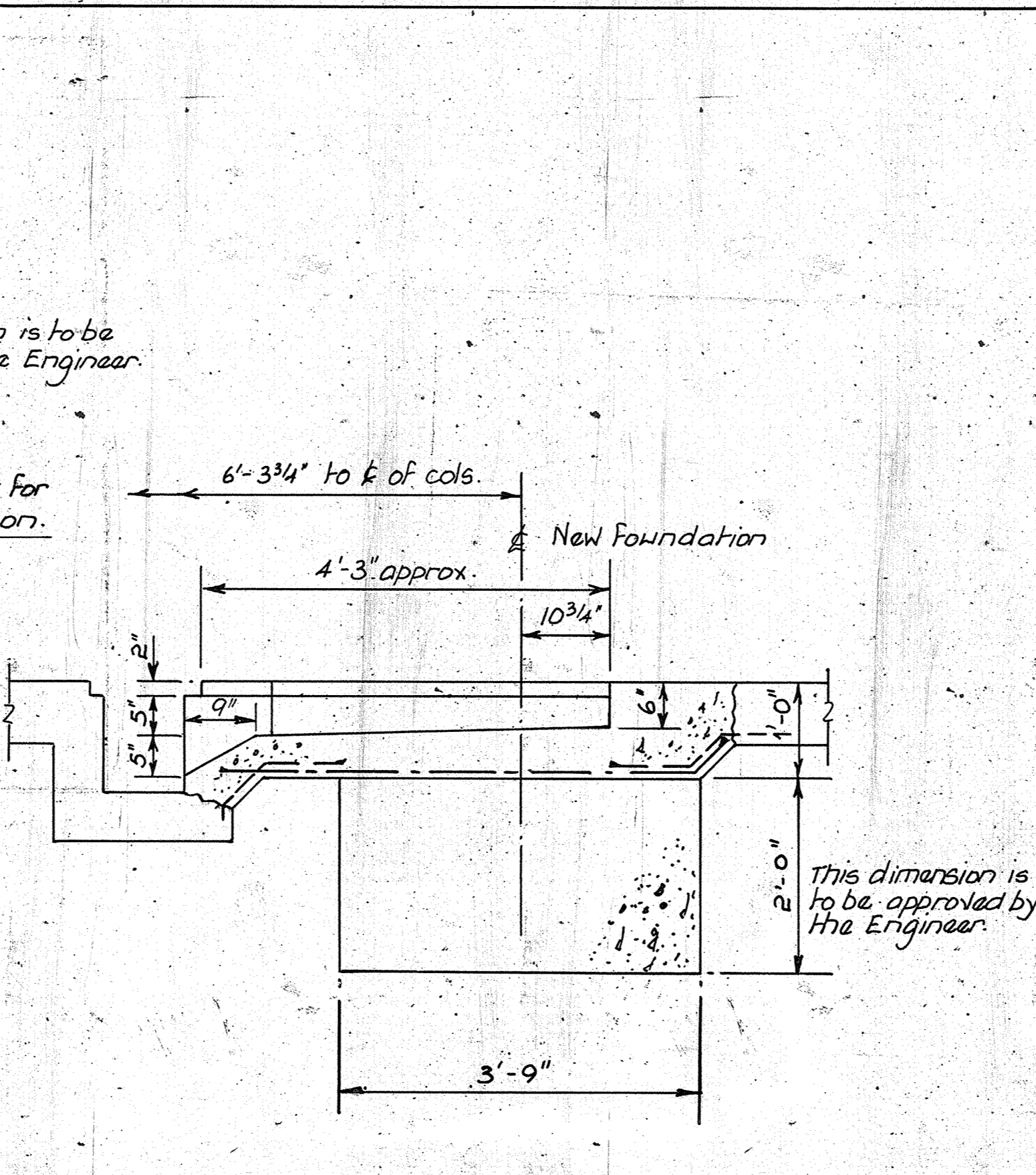


PLAN & SECTIONS

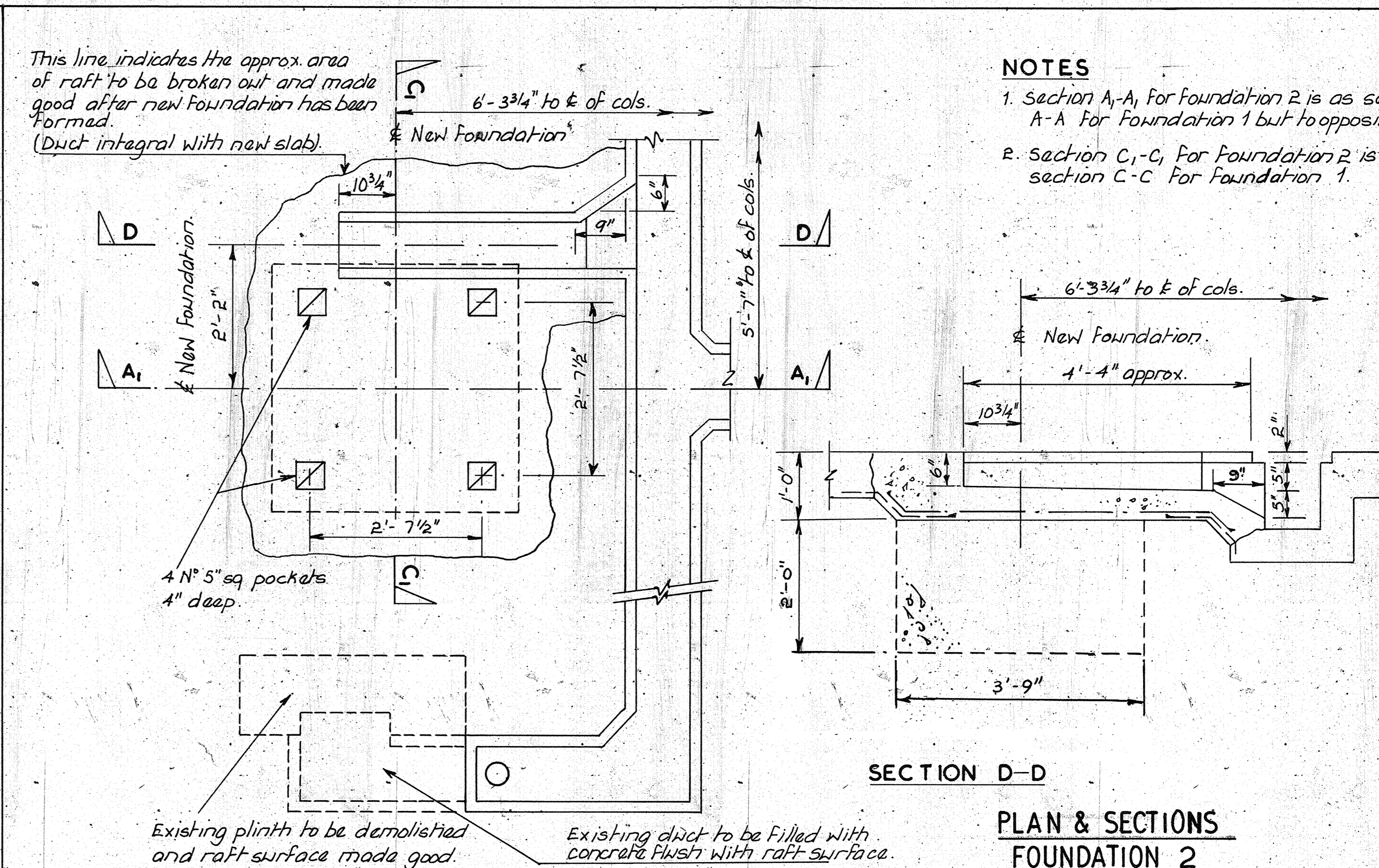
FOUNDATION 1

SECTION A-A

SECTION C-C

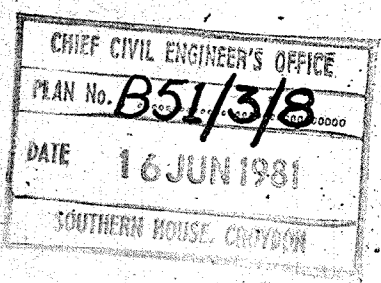


SECTION B-B



NOTES

- Section A-A for Foundation 2 is as section A-A for Foundation 1 but to opposite hand.
- Section C1-C1 for Foundation 2 is as section C-C for Foundation 1.



Letter Date Description of revisions By

**British Railways Board**  
Chief Civil Engineer's Department  
British Rail Southern  
Southern House  
Croydon CR9 1DY  
Telephone 01 886 3422

D.J. B.M.W.  
B.A.N.  
JUL 75  
ELECTRIFICATION ENGINEER  
Chief Civil Engineer

**33KV SWITCHGEAR RENEWALS**  
**BILLINGSHURST**  
**CODMOREHILL SUBSTATION**  
**DETAILS OF STRUCTURAL**  
**ALTERATIONS TO RAFT**

Scale 1/4" and 3/4" to 1'-0"  
File Numbers ELEC/08N/1223/1  
Drawing Number 12/2616E/5

260834

240798

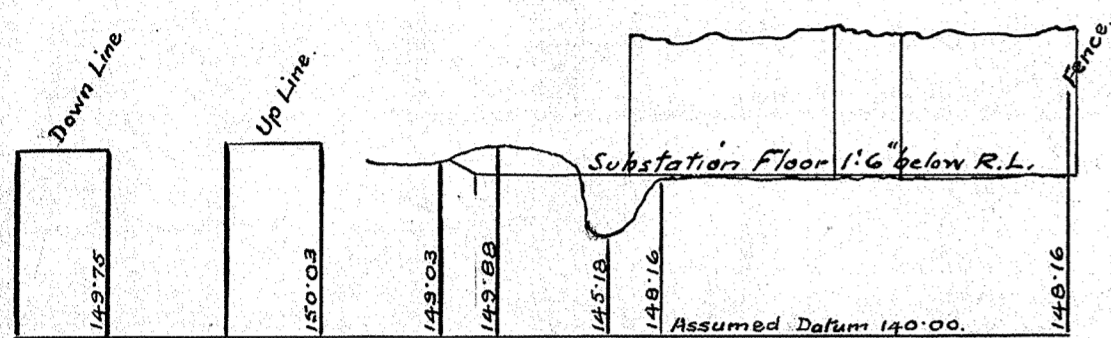
260834

# S.R. ELECTRIFICATION.

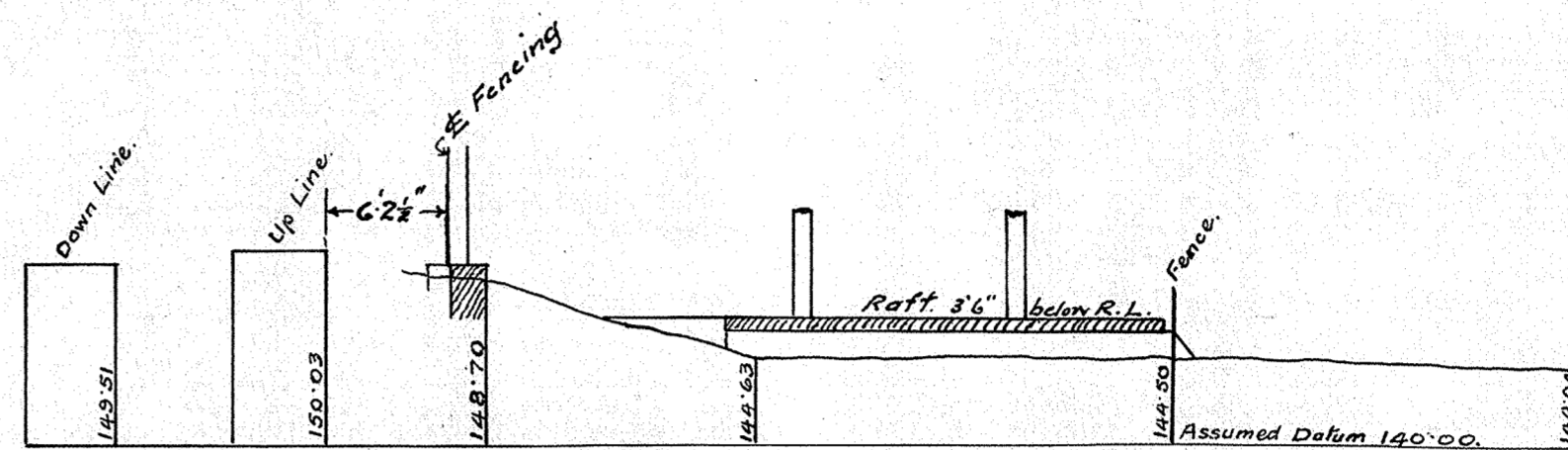
## BILLINGSHURST SUBSTATION.

### CROSS SECTIONS.

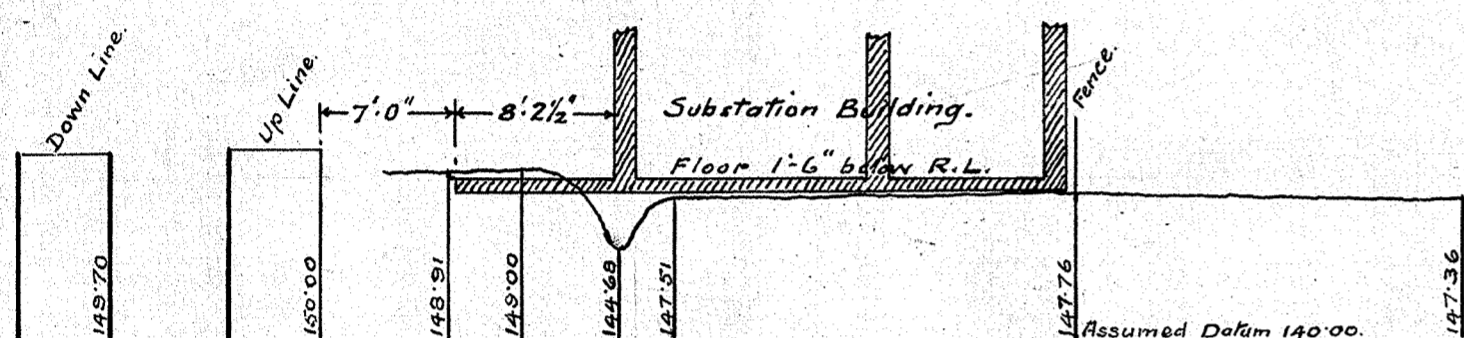
Scales: -40' & 10' to 1 inch.



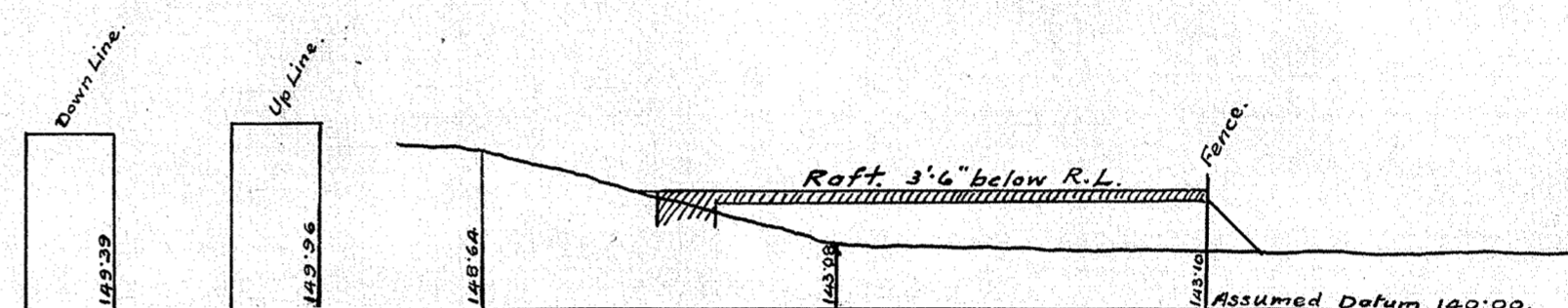
SECTION N°1.



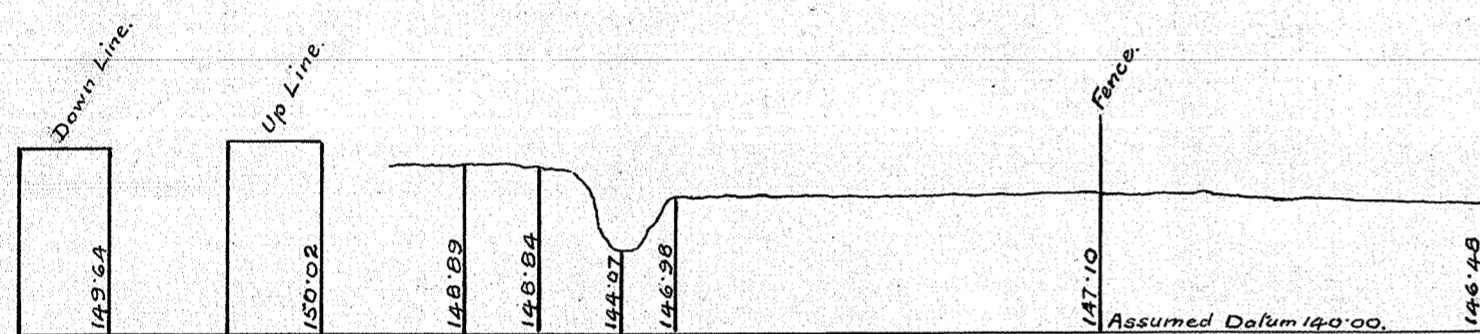
SECTION N°5.



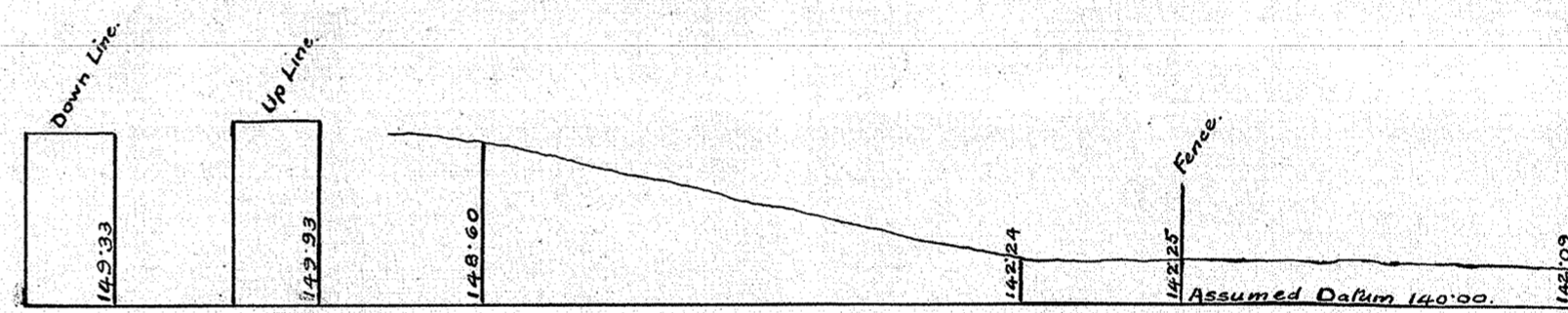
SECTION N°2.



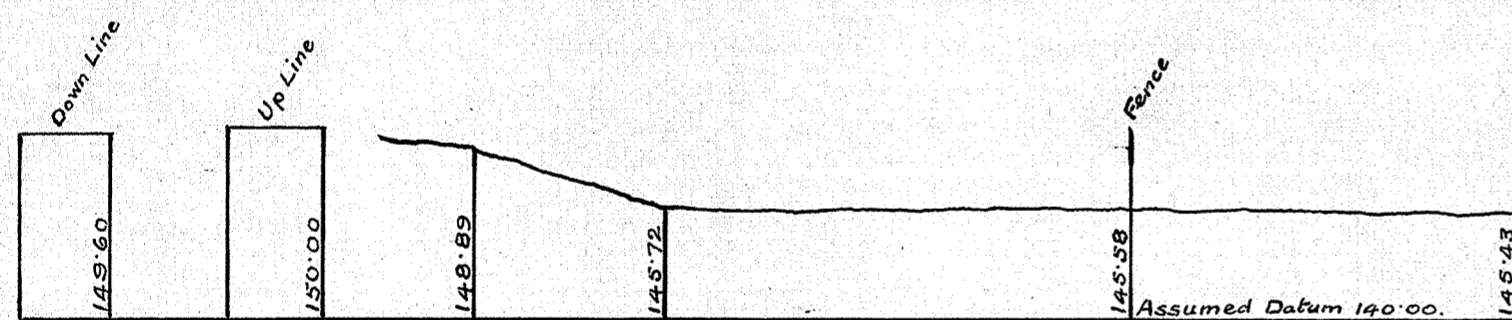
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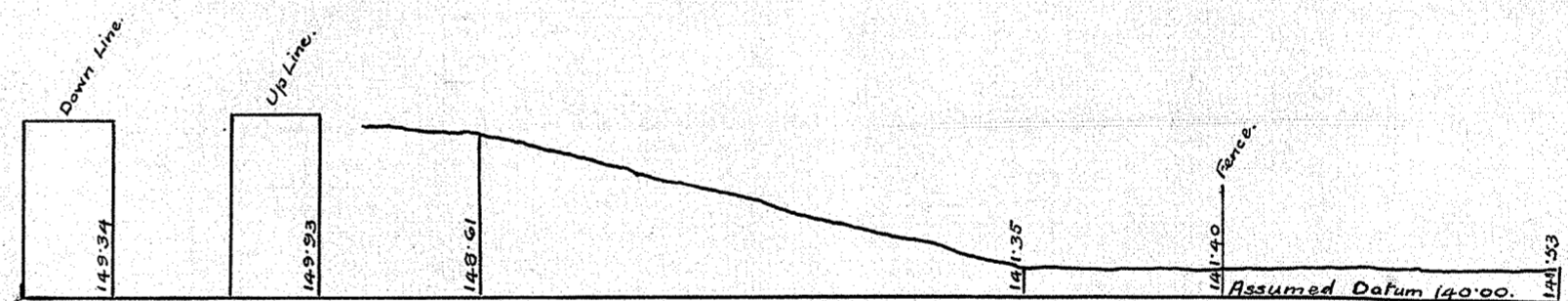
SECTION N°3.



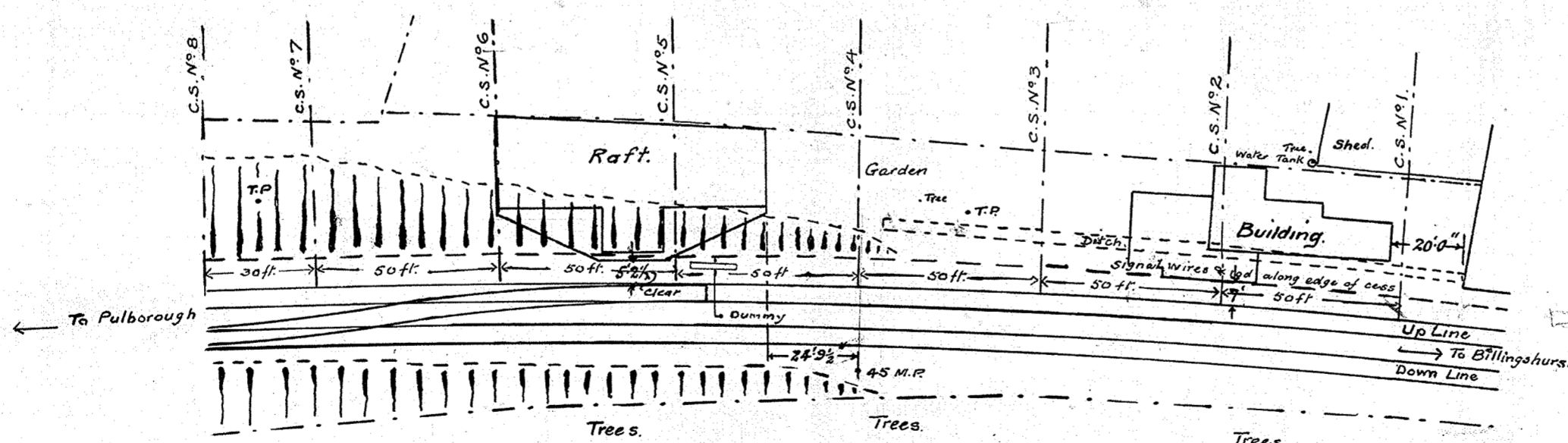
SECTION N°7.



SECTION N°4.



SECTION N°8.



260836

210813

260836

E.12489.

DRAWN BY	Emb	31/8/36
TRACED BY	Emb	1/9/36
CHECKED BY	G.L.	14.9.36
APPROVED BY		

CHIEF CIVIL ENGINEER'S OFFICE  
PLAN No. B51/3/2  
DATE 16 JUN 1981  
SOUTHERN HOUSE, WIDEN