

LONDON MICROFILM BUREAU LTD

WCRM26129

All superficial cracks in Portal Face Walls to be sealed with Guniting or 1:3 sand/cement mortar to match existing masonry and then low pressure grouted with 1:3 cement grout.

NOTE:- Shaded length of gully to be cleaned out, and all cracks repaired and sealed, then receive a New Waterproof Lining of Mastic Asphalt complying with B.S. 286 applied in two equal layers each 3mm thickness. (See Note 10).

Large crack approx 70mm wide to be filled with 1:3 sand/cement mortar which is to be fully rammed in and compacted. Existing clay outlet pipe to be plugged and sealed off with 1:3 sand/cement mortar.

Use 450 x 450 concrete sump and outlet pipe.

Position of New Mesh Pipe Cap. (Stoves not shown).

150 Internal Dia C.I. Pipe 1500 long cast into position and cut to suit on site. Lead to fall 1 in 5 to socket.

20 thick Mastic Asphalt lining applied in two equal layers. (See Note 10).

150 (6") C.I. Square Header Head.

150 (6") Dia Offset with 305 (12") projection and 135° bends.

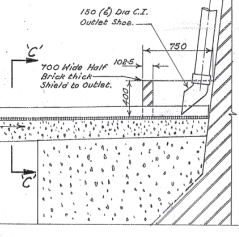
450 Square Sump with 150 (6") Dia C.I. concrete walls reinforced with steel mesh fabric B.S. 4883 to B.S. 4483. 155 sq metres required. See Detail X'.

150 (6") Dia C.I. Pipe Approx. 3000 long, cut to suit on site, to be secured to portal wall. See Detail Y'.

DETAIL X' SCALE-1:20

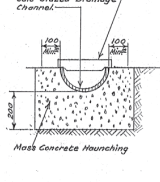
325 Internal Dia. Sole Drainage Channel. Existing timber lining to top of Manhole to be rebuilt in site elsewhere.

CROSS SECTION A-A' SCALE-1:100



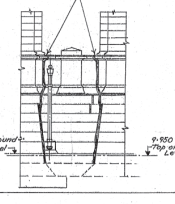
DETAIL Y' SCALE-1:20

Cover for 250 x 250 S.R.T. Cable Troughing to be supplied by the Board and fixed to the Concrete.



CROSS SECTION C-C' THRO. DRAINAGE CHANNEL SCALE-1:10

All large cracks to be sealed with Guniting or 1:3 sand/cement mortar to match existing masonry and then low pressure grouted with 1:3 cement grout.



ELEVATION B-B' SCALE-1:100

- NOTES:
- All dimensions are given in millimetres.
  - All drawings were drawn over the section of the B.R.B. Standard Specification for Engineering Works.
  - All dimensions shall be true from complying to B.S. 437.
  - All dimensions given to be cast iron.
  - All cast iron drainage channel linings shall be hot glazed and comply with B.S. 65.
  - All concrete work shall conform to Section 12 of the B.R.B. Standard Specification for Engineering Works. Concrete Codes are given on the drawing as follows:-
- | CODE    | GRADE | TYPE | SIZE | LOCATION  |
|---------|-------|------|------|---|
| Mess    | 15    | 20   |      | Anchoring to drainage channel base on top of Portal wall. |
| C30 D20 | 30    | 20   |      |   |
- Cement shall be Supreme Portland Cement to B.S. 4027.
  - Concrete (except for concrete slabs) to 270kg/m<sup>3</sup> Min to 400kg/m<sup>3</sup> Max. No admixtures will be permitted.
  - Finish to surfaces of sump to be Class C/14.
  - Wire Steel wire Mesh Fabric shall be as specified in B.S. 4883, Rev. 4/83, to inter-protect to drainage channel to concrete in the following items:
  - Chasing out.
  - Reinforcing all cracks with sand/cement mortar.
  - Sealing surface with bituminous primer.
  - Application of New Mastic Asphalt Waterproof Lining complying with B.S. 286 which is to be applied in two equal layers with a least thickness of 20mm.
- 11 The drawing is to be read in conjunction with the B.R.B. General Arrangement and all other drawings listed thereon.

59411

Date	Description of revisions	By

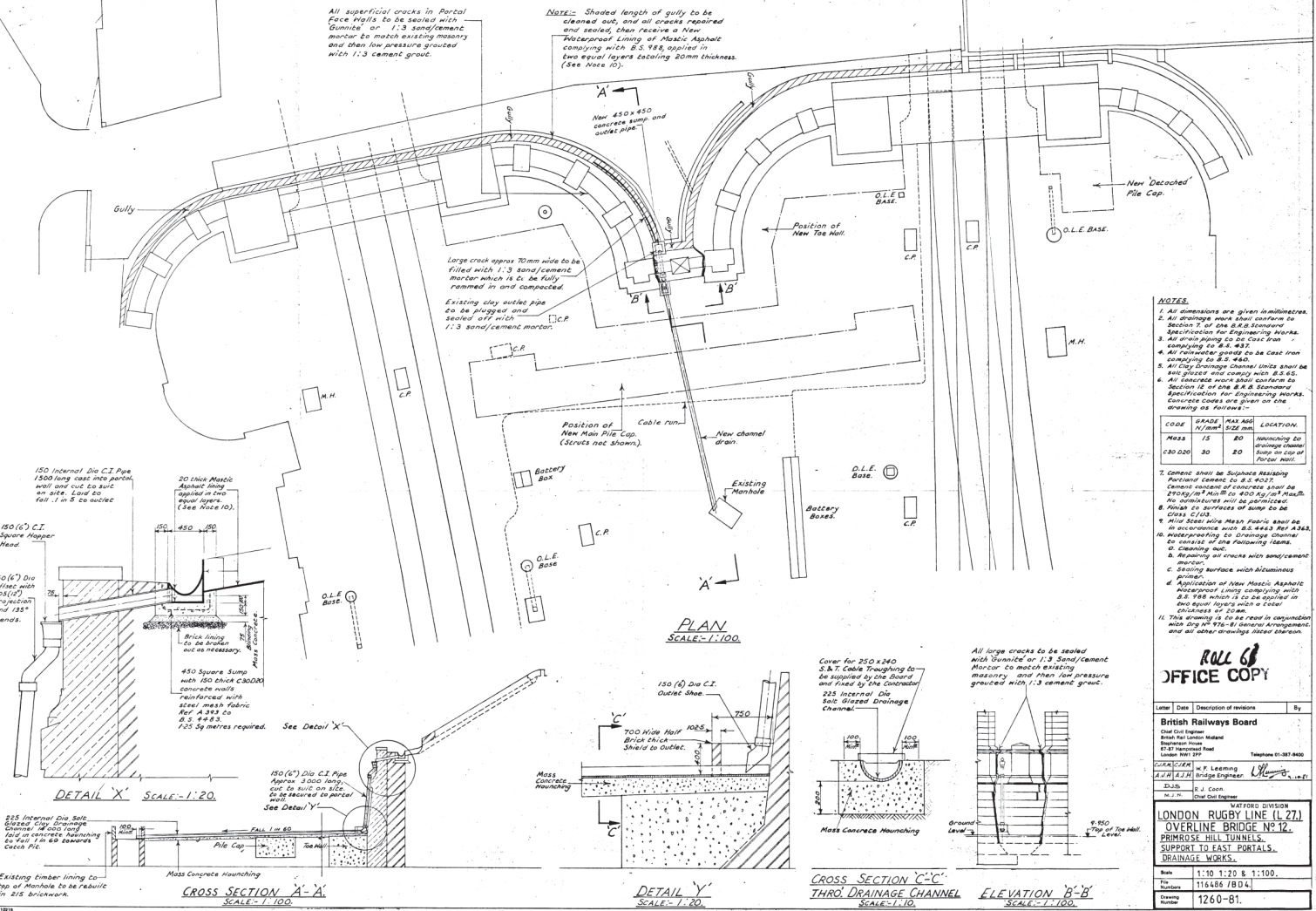
British Railways Board  
Chief Civil Engineer  
British Rail Station  
Engineering Dept.  
E.P. Mansfield Road  
London W9 2PS  
Telephone 01-267-8410

DESIGNED BY: F. Leeming  
DRAWN BY: A.J.R. Bridge Engineer  
CHECKED BY: R.J. Coen  
SCALE: Chief Civil Engineer

WATFORD DIVISION  
**LONDON RUGBY LINE (L 27)**  
**OVERLINE BRIDGE NO. 12.**  
PRIORSE HILL TUNNELS.  
SUPPORT TO EAST PORTALS.  
DRAINAGE WORKS.

Scale: 1:10 1:20 & 1:100.  
File: 116486/BD4.  
Drawing Number: 1260-81.

WCRM 30001



All superficial cracks in Portal face walls to be sealed with Gunitite or 1:3 sand/cement mortar to match existing masonry and then low pressure grouted with 1:3 cement grout.

NOTE: Shaded length of gully to be cleared out, and all drains repaired and sealed, then receive a New Waterproof Lining of Mastic Asphalt consisting with B.S. 1188 applied in two equal layers totaling 20mm thickness. (See Note 10).

Large crack approx 70mm wide to be filled with 1:3 sand/cement mortar which is to be fully rammed in and compacted. Existing clay outlet pipe to be plugged and sealed off with 1:3 sand/cement mortar.

150 Internal Dia C.I. Pipe 1500 long cast into portal wall and cut to suit on site. Load to fall 1 in 5 to outlet.

20 thick Mastic Asphalt lining applied in two equal layers. (See Note 10).

150 (6") C.I. Square Manhole Head  
150 (6") Dia Outlet with 100(6") manhole and 135° bends.

450 Square Sump with 150 thick C20/0A concrete walls reinforced with steel mesh fabric. Ref A 353 to B.S. 444:3. 725 Sq metres required. See Detail X.

225 Internal Dia Salt Gypsum Clay Drainage Channel 1500 long laid in trenches. Mastic to fall 1 in 60 towards Catch Pit.

150 (6") Dia C.I. Pipe Approx 3000 long cut to suit on site to be secured to portal wall. See Detail Y.

Existing timber lining to top of Manhole to be rebuilt in 215 brickwork.

CROSS SECTION A-A SCALE 1:100

DETAIL Y SCALE 1:20

CROSS SECTION C-C THRU DRAINAGE CHANNEL SCALE 1:10

ELEVATION B-B SCALE 1:100

NOTES

- All dimensions are given in millimetres.
- All drainage work shall conform to Section 2 of the B.S. Standards Specification for Engineering Works.
- All masonry to be cast from complying to B.S. 440.
- All City Drainage Channel Units shall be the correct size and comply with B.S. 65.
- All drainage work shall conform to Section 12 of the B.S. Standards Specification for Engineering Works. Concrete codes are given on the drawings as follows:-

CODE	GRADE	MAX AGG (mm)	LOCATION
Mess 15	B0	20	Masonry to drainage channel
C20/00	B0	20	Portal wall

- Cement shall be Supreme Best Portland Cement to B.S. 1227.
- Cement mortar of concrete shall be prepared from B.S. 440 G.P. 1/1. No admixtures will be permitted.
- Mesh to be applied to masonry to be Class C10.
- Wire Steel Mesh Fabric shall be in accordance with B.S. 444:3 Ref A 353.
- Waterproofing to drainage channel to consist of the following items:
  - Cleaning out.
  - Sealing all cracks with sand/cement mortar.
  - Sealing surface with Aluminium paint.
  - Application of New Mastic Asphalt waterproofing lining conforming with B.S. 1188 which is to be applied in two equal layers with a total thickness of 20mm.
- This drainage is to be fixed in conjunction with the V.P. 81 drainage arrangement and all other structural clearances.

ROLL 68 OFFICE COPY

Date	Description of revision	By

British Railways Board  
 Chief Civil Engineer  
 British Rail London Midland  
 Structures Dept  
 London, NW1 3JF Telephone 01-387 8400

Author: J.F. Leeming  
 Drawing Engineer: J. Leeming  
 J.C. Coon  
 Civil Engineer

LONDON RUGBY LINE (L 27)  
 OVERLINE BRIDGE NO 12  
 PRIMROSE HILL TUNNELS  
 SUPPORT TO EAST PORTALS  
 DRAINAGE WORKS.

Scale: 1:10, 1:20 & 1:100.  
 File Number: 116485/BD4.  
 Drawing Number: 1260-B1.

1.10.92/192



WCRM 31195

Adelaide Road  
Pavement

Top of slope

Rubble drains 2 wide  
& 2 deep & 20 long

Manhole

Rubble drain 2 wide  
& 2 deep behind  
wall

Rubble drain 3 wide & 2 deep  
to run from top of slope  
to refuge in wall

Existing garden walls to be  
demolished and CL lines (see plan)  
to be extended to match existing

Brickwork to be  
built up as determined  
on site

Section thro wall A-A

Topping continuous  
except for 2" gap  
at 10'-0" crs.

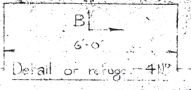
Wall to be taken  
down when piece  
inserted thro rebar

Outlet to discharge over parapet  
to be provided in PW drainage scheme

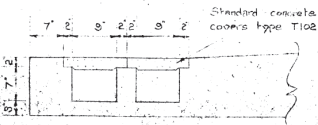
Section thro wall at refuge B-B

2" gap for drainage of  
cable at 10'-0" crs.

Standard concrete  
covers type T102



Detail of refuge - 4"



Detail of cable tray

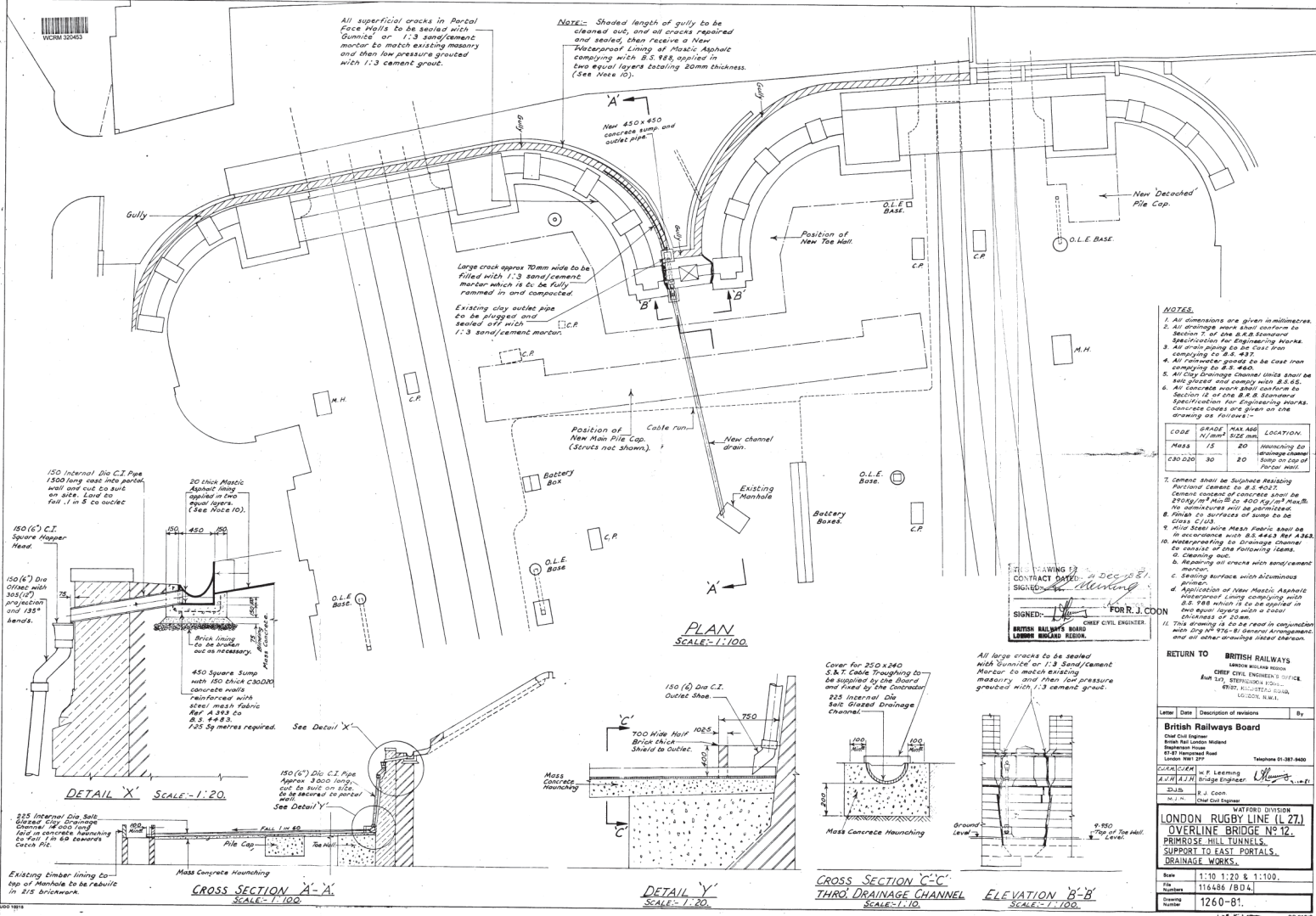
- Notes in place line points 1-24 at 5' crs.
- (i) Changers (4-1-52) last chain 4-3 taken from wall to RE shown at points 5-17
  - (ii) Rubble drain behind wall to extend from points 4-23
  - (iii) Rubble drain branches at 45° to more than 3' & vary up slope.

LONDON RUGBY LINE (L27)  
O/BIDGE NO. 12

BRITISH RAILWAYS LONDON MIDLAND REGION  
CHIEF CIVIL ENGINEER'S DEPT. LONDON DISTRICT  
REVISED  
OFFICE COPY  
PRIMROSE HILL  
SLIP IN OUTING SLIP  
UP SIDE  
DELEGATED APPROVED  
1400/221  
1/11/61  
SHEET 1 OF 1

LONDON DISTRICT  
SCALES  
2" = 4'-0"  
No. 171 120-62  
1/11/61

Roll 2  
61  
W



All superficial cracks in Portal Face Walls to be sealed with Gunited or 1:3 sand/cement mortar to match existing masonry and then low pressure grouted with 1:3 cement grout.

NOTE: Shaded length of gully to be cleaned out, and all cracks repaired and sealed, then receive a New Waterproof Lining of Mastic Asphalt complying with B.S. 988, applied in two equal layers eaching 20mm thickness. (See Note 10).

Large crack approx 70mm wide to be filled with 1:3 sand/cement mortar which is to be fully rammed in and compacted. Existing clay outlet pipe to be plugged and sealed off with 1:3 sand/cement mortar.

- NOTES
1. All dimensions are given in millimetres.
  2. All drainage work shall conform to Section 7 of the B.R. Standard Specification for Engineering Works.
  3. All drain piping to be cast iron complying with B.S. 487.
  4. All fallwater grade to be cast iron complying with B.S. 464.
  5. All Clay Drainage Channel (D.C.) shall be 150mm wide complying with B.S. 552.
  6. All concrete work shall conform to Section 18 of the B.R. Standard Specification for Engineering Works. Concrete Codes are given on the drawing as follows:-

CODE	GRADE	MAX. AGG. SIZE	LOCATION
Mess 15	60	125mm	Haunching to drainage channel
C30/D20	30	20	Step on top of Portal Wall

7. Cement shall be Sphulphate Resisting Portland Cement to B.S. 4027.
8. Cement concrete of concrete shall be 200kg/m<sup>3</sup> (150lb/cu.ft.) 4000kg/m<sup>3</sup> (250lb/cu.ft.) strength.
9. Mortar to surfaces of some to be Class C115.
10. All Steel wire Mesh Fabric shall be in accordance with B.S. 4463 Ref A262.
11. This drawing is to be read in conjunction with Drg No 976-B General Arrangement and all other drawings of this station.

THIS DRAWING IS CONTRACT DATED 20 DEC 85.  
 SIGNED: [Signature] FOR J. COON  
 CHIEF CIVIL ENGINEER  
 BRITISH RAILWAYS BOARD  
 LONDON BRICKLAY BUILDING

RETURN TO BRITISH RAILWAYS  
 CHIEF CIVIL ENGINEER'S OFFICE  
 6th FLOOR, BRICKLAY BUILDING, 99, MARK LANE, LONDON, E.C.3

Letter	Date	Description of revisions	By

BRITISH RAILWAYS BOARD	
Chief Civil Engineer	J. Coon
Chief Engineer	[Signature]
Chief Surveyor	[Signature]
Chief Inspector	[Signature]
Chief Clerk	[Signature]
Chief Draughtsman	[Signature]
Chief Estimator	[Signature]
Chief Accountant	[Signature]
Chief Inspector of Works	[Signature]
Chief Inspector of Traffic	[Signature]
Chief Inspector of Stores	[Signature]
Chief Inspector of Buildings	[Signature]
Chief Inspector of Electrical & Mechanical Works	[Signature]
Chief Inspector of Signalling	[Signature]
Chief Inspector of Traction & Rolling Stock	[Signature]
Chief Inspector of Transport	[Signature]
Chief Inspector of Public Relations	[Signature]
Chief Inspector of Safety	[Signature]
Chief Inspector of Security	[Signature]
Chief Inspector of Training	[Signature]
Chief Inspector of Welfare	[Signature]
Chief Inspector of Works	[Signature]
Chief Inspector of Traffic	[Signature]
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Chief Inspector of Welfare	[Signature]

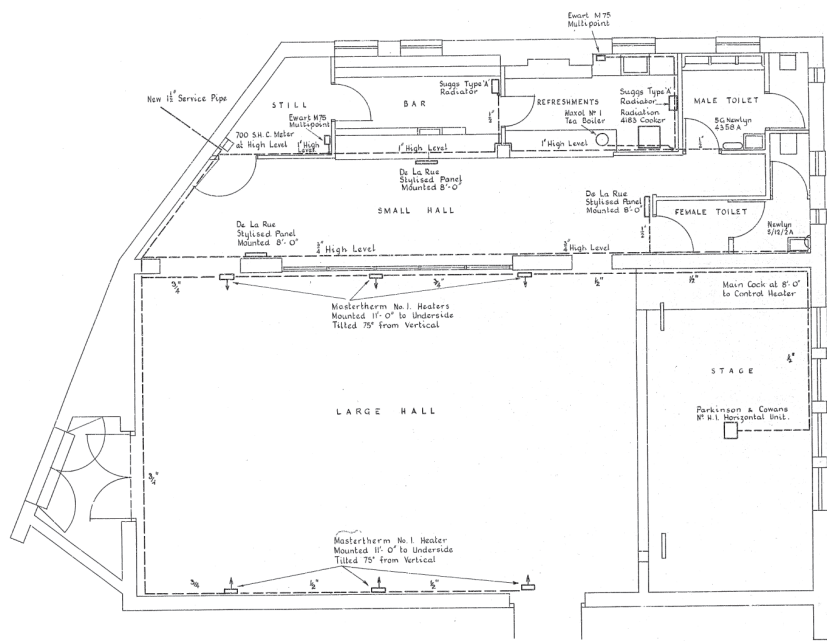
DETAIL X SCALE - 1:20

CROSS SECTION A-A SCALE - 1:100

DETAIL Y SCALE - 1:20

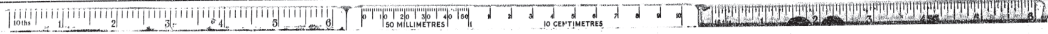
CROSS SECTION C-C THRO DRAINAGE CHANNEL SCALE - 1:10

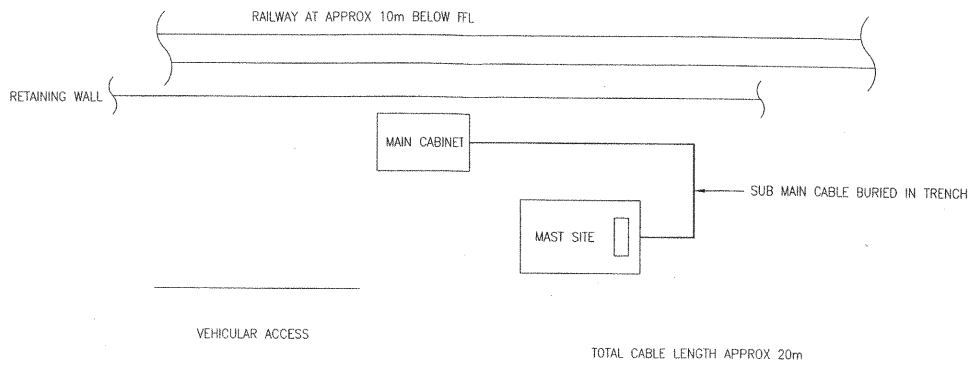
ELEVATION B-B SCALE - 1:100



38277

BRITISH RAILWAYS		LONDON MIDLAND REGION	
CHIEF CIVIL ENGINEERS DEPT		HEATING & LIGHTING SECTION	
REVISED		PRIMROSE HILL	
		STAFF ASSOCIATION ACCOMM	
		GAS SERVICES	
		HEATING HOTWATER & COOKING	
D.E. CORRES.	APPROVED	SCALES	
D.G.W.		4 FT. TO 1 IN.	
SHEET OF	CHIEF CIVIL ENGINEER	D.E. NO.	717-56
		C.E. NO.	





NW0548402

Status  
**FOR APPROVAL**

Scale  
**N.T.S**

Revision  
**0**

Client  
**NETWORK RAIL**

Contract  
**GSM-R NETWORK  
POWER SUPPLIES**

Title  
**PRIMROSE HILL TUNNELS  
CABLE ROUTE/  
LAYOUT**

Drawn By  
**36418/SK 693**

Bailey Rail  
48 Broadway, Peterborough, PE1 1YW  
Tel 01733 425 700 Fax 01733 425 701

Electrical and Mechanical Engineering Contractors

Drawn By  
**T.L.W**

Checked By  
**K.B**

Date  
**08.12.03**

Date  
**08.12.03**



Rev	Date	By	Description





DATE	12-11-2008
BY	DL
PROJECT	PRIMROSE HILL TUNNEL
CLIENT	NSW RAIL
SCALE	AS SHOWN
PROJECT NO.	013355-04
DATE	12-11-2008
BY	DL
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CLIENT	NSW RAIL
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CLIENT	NSW RAIL
SCALE	AS SHOWN
PROJECT NO.	013355-04

ACCESS ROUTE TO BITS FROM EUSTON RAILWAY STATION

- FROM EUSTON TAKE SANDY CREEK STREET NORTH ROUND BENDING TOWARDS EMBURY.
- CONTINUE ALONG SANDY CREEK STREET TO CHALK FARM ROAD.
- APPROX. 400 YARDS AFTER LEAVING CHALK FARM ROAD TAKE LEFT TURN A FOLLOW SIGN FOR SUPERSTORES.
- APPROX. 400 YARDS WEST OF SUPERSTORES TAKE RIGHT TURN TO ACCESS POINT.
- THE BITS IS APPROX. 400 YARDS TO THE WEST OF THE ACCESS GATE & IS ACCESSIBLE BY VEHICLE.

REFERENCE DRAWINGS

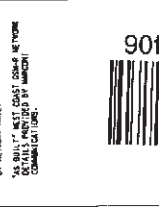
- EMBUERY LAYOUT DRAWING NO.1
- EMBUERY ELECTRICAL DRAWING
- EMBUERY MECHANICAL DRAWING
- EMBUERY CIVIL & CONCRETE DRAWING
- EMBUERY ELECTRICAL DRAWING
- EMBUERY MECHANICAL DRAWING
- EMBUERY CIVIL & CONCRETE DRAWING
- EMBUERY ELECTRICAL DRAWING
- EMBUERY MECHANICAL DRAWING
- EMBUERY CIVIL & CONCRETE DRAWING

LEGEND

- SEE DRAWING FOR DETAILS
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NOTES

- 1. DRAWINGS PROVIDED UNDER JOINT VENTURE AGREEMENT.
- 2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
- 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
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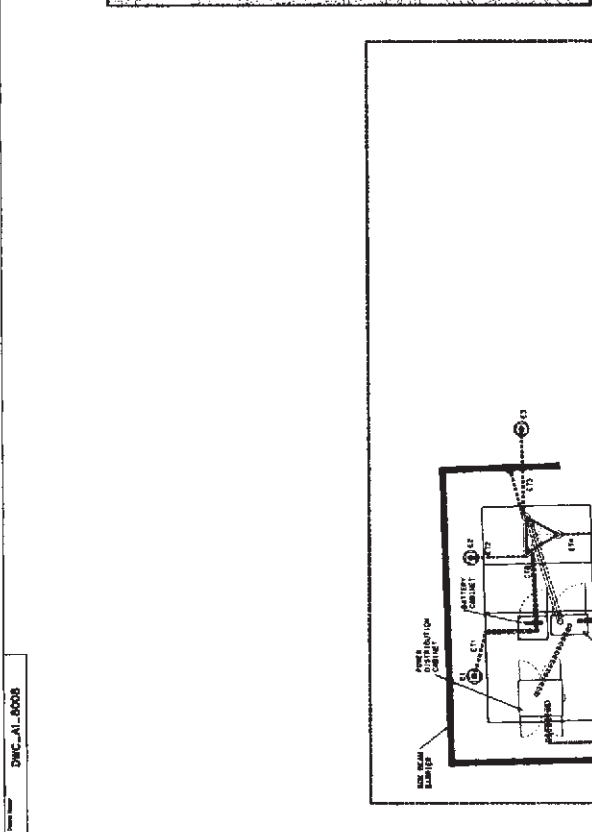
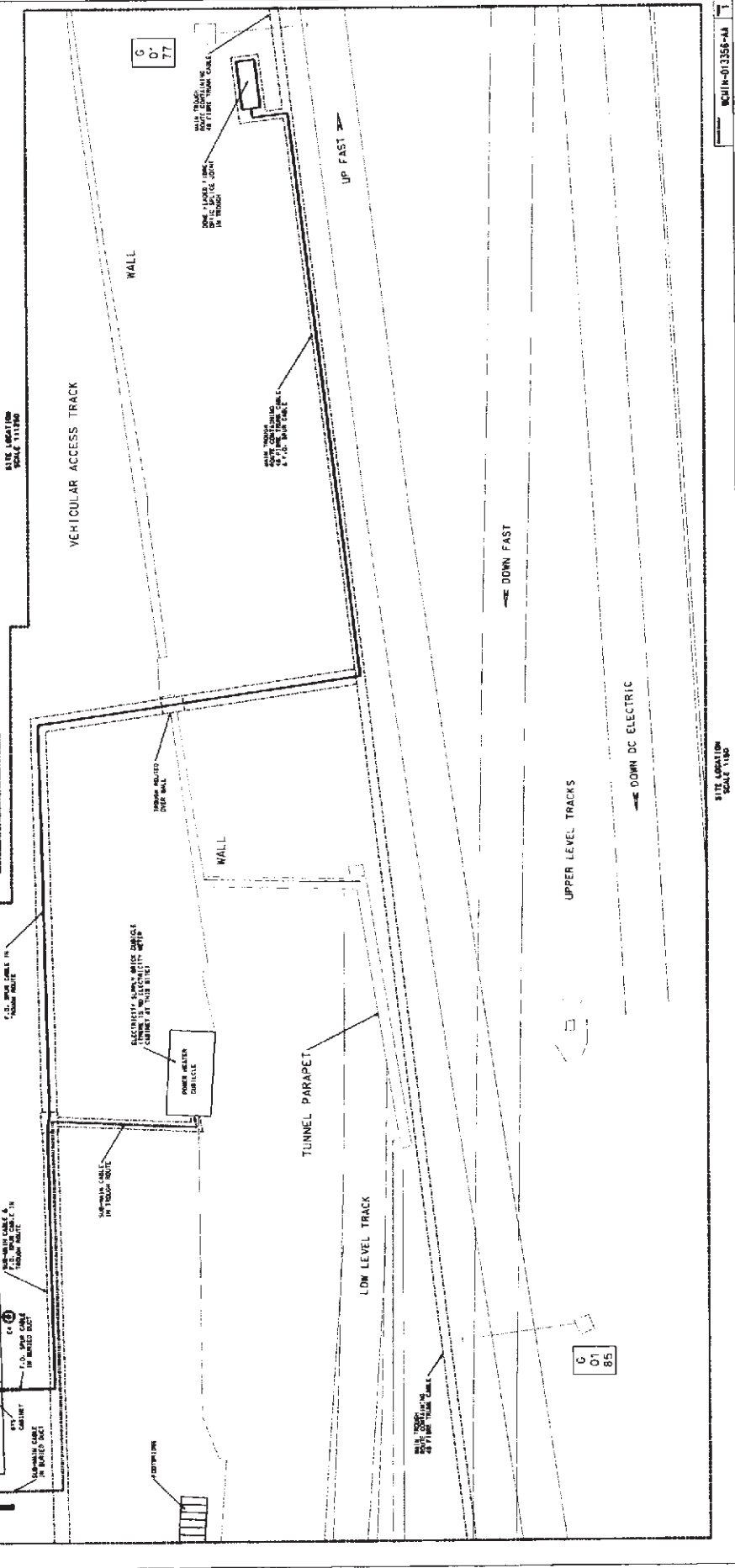
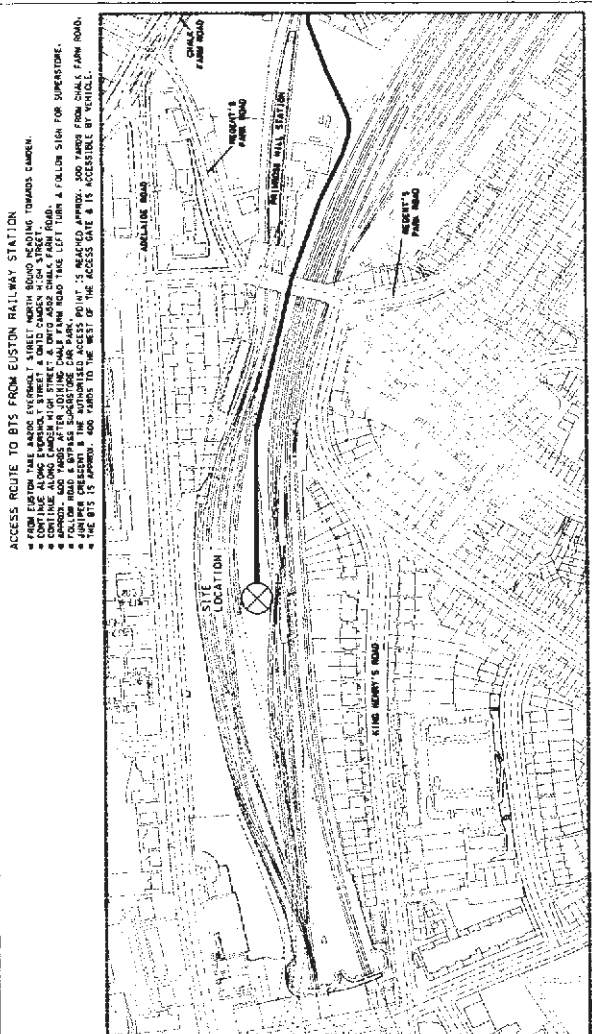


DATE	12-11-2008
BY	DL
PROJECT	PRIMROSE HILL TUNNEL
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CLIENT	NSW RAIL
SCALE	AS SHOWN
PROJECT NO.	013355-04

NSW WEST COAST GBAR NETWORK  
 PRIMROSE HILL TUNNEL  
 SOUTH BITS SITE  
 GENERAL LAYOUT DRAWING

DATE	12-11-2008
BY	DL
PROJECT	PRIMROSE HILL TUNNEL
CLIENT	NSW RAIL
SCALE	AS SHOWN
PROJECT NO.	013355-04
DATE	12-11-2008
BY	DL
PROJECT	PRIMROSE HILL TUNNEL
CLIENT	NSW RAIL
SCALE	AS SHOWN
PROJECT NO.	013355-04





Underground Services Team  
National Records Centre  
Audax Road  
YORK

NRSWA Asset Enquiries

YO30 4GS

Tel: 01904 386391

Date: 29 July 2015

Your Reference **2015\_7935**

Our Reference: **LNW137638 AX5**

Dear NRSWA,

**Re: Underground Services Search: \*\*OP\*\* 9 Harley Road, London**

**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 Geographical Information Portal (GIP), 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/BUS/1030

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 to the Hazard Editor for entry into the Hazard Directory.

Yours sincerely

**Mandy Adams**

Distribution Administrator



## GUIDELINES TO BE READ IN CONJUNCTION WITH THE ENCLOSED INFORMATION

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.

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# UNDERGROUND SERVICES INFORMATION CHECKLIST



<b>YOUR REF</b>	2015_7935	<b>OUR REF</b>	LNW137638
<b>LOCATION</b>	**OP** 9 Harley Road, London	<b>ELR</b>	LEC1
<b>MILEAGE FROM</b>	1.1680	<b>MILEAGE TO</b>	2.0040
<b>Utility Company/Internal Source</b>	<b>Category</b>	<b>Enc</b>	<b>Notes</b>
GI Portal	Marlin	Yes	
Hazard Directory	Hazard	Yes	
Civils LNW	NRG	Yes	
eBrowser	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)



Asset Information - Data Services  
[GeospatialReportingAnalysis@NetworkRail.co.uk](mailto:GeospatialReportingAnalysis@NetworkRail.co.uk)

LEGEND

- Stations
- Rail Network
- INDMBoundaries**
- IMDM Bletchley
- IMDM London Euston
- IMDM Lancs and Cumbria
- IMDM Liverpool
- IMDM Manchester
- IMDM Saltley
- IMDM Sandwell & Dudley
- IMDM Stafford

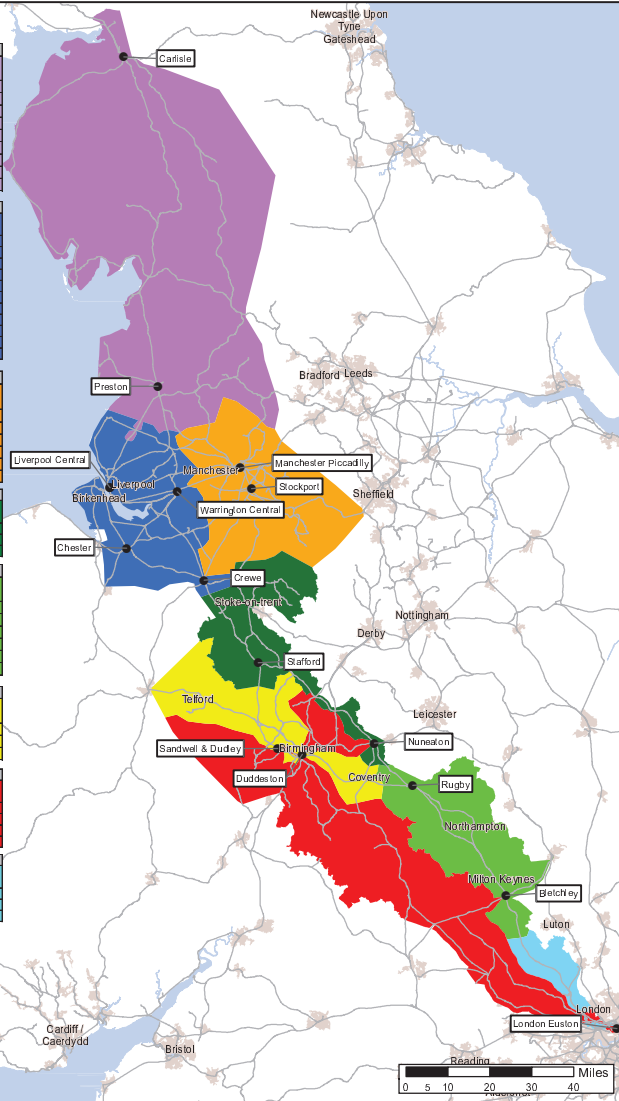
Local Contacts List -  
 LNWIIMDMs

Client: Buried Services  
 Job No: 10104 101 [Internal Use Only]

Scale: 1 : 1 450 000 Date: 16/07/2015

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Route	Delivery Unit	Role	Name	Tel:	Mbbile:
London North Western	Lancs & Cumbria	Route Communications Engineer	Mike Ankers	01270 532585	07899 934169
		Section Manager (Signalling)	Peter James	01228 880208	07802 890050
	Carlisle	Section Manager (D&P)	John Noon	01228 880183	07802 890050
		S&T Maintenance Engineer	Jamie Ferguson	N/A	07866 266549
	Carlisle & Preston	E&P Maintenance Engineer	Paul Le Fevre	N/A	07802 597168
	Carlisle West	Section Manager (Signalling)	David Pith	01228 880072	07884 238445
Carlisle & Barrow	Section Manager (Signalling)	Paul Threlkwalte	N/A	07802 891942	
		Section Manager (Signalling)	Andy Bateson	01772 551642	07850 501033
	Section Manager (D&P)	Andy Welch	01772 443867	07113 986507	
Section Manager (S&T Maintenance Engineer)	Gary McCann	N/A	07802 597969		
London North Western	Liverpool	E&P Maintenance Engineer (S&T Rail/D&P)	Aron Corcoran	N/A	07764 162315
		Section Manager (Distribution)	Jim Stragg	N/A	07793 339263
		Section Manager (Plan)	Simon Rogers	N/A	07771 672025
		Section Manager (S&T Rail)	Paul Liner	N/A	07513 624660
	E&P Maintenance Engineer (OLE)	John Riley	N/A	07801 507073	
	Section Manager (OLE)	Andrew Scott	N/A	07793 787034	
	Cheshire Edge Hill (L pool)	Section Manager (Signalling)	Adam McCann	N/A	07793 647090
	Crewe	Acting Section Manager (Signalling)	Devin Goodwin	N/A	07761 163116
	Marseyside	Section Supervisor (Signalling)	Give Dickinson	N/A	07771 671423
	Liverpool/Marseyside	Acting S&T Maintenance Engineer	Steve Vaise	N/A	07734 740655
	Warrington	Section Manager (Signalling)	Dave Lee	N/A	07800 990055
Warrington/Crewe	S&T Maintenance Engineer	Madri Hart	N/A	07773 765924	
London North Western	Manchester	Section Manager (D&P)	John Thompson	N/A	07769 725867
		S&T Maintenance Engineer	Mike Windsor	N/A	07769 725814
	E&P Maintenance Engineer	David Hulme	N/A	07769 725862	
	Route Communications Engineer	Mike Ankers	01270 532585	07899 934169	
	Piccadilly	Section Manager (Signalling)	Kevin Mar	0161 2813171	07769 725850
Manchester & Stockport	Section Manager (Signalling)	Chris Booth	0161 228249	07769 725848	
Victoria	Section Manager (Signalling)	Kenneth Longworth	0161 2281156	07769 725856	
London North Western	Stafford	Section Manager (Signalling)	Andrew Lightfoot	01270 538448	07751 513559
		Section Manager (D&P)	Raf Weller	01270 538448	07751 513559
	Mariner	Section Manager (Signalling)	Marina Piga	01476 351680	07753 831238
Section Manager (Signalling)	David Trickett	01270 538448	07751 513559		
London North Western	Bletchley	Section Manager (Signalling)	Christian Slater	N/A	07834 147523
		Section Manager (E&P)	Lee Bassett	N/A	07764 333454
	Rugby	Section Manager (Signalling)	Andrew Boulton	01788 513624	07515 621526
	Bletchley & Rugby	Section Manager (E&P)	Paul Griffiths	N/A	07802 892211
London North Western	Sandwell & Dudley	S&T Maintenance Engineer	Clouid Tombo	01788 555596	07728 651541
		Section Manager (D&P)	Nick Pearson	01788 555596	07793 308278
	E&P Maintenance Engineer	David Maybury	N/A	07802 892210	
London North Western	Sandwell & Dudley	S&T Maintenance Engineer	Bosse Ackerman	N/A	07747 607178
		Section Manager (Signalling)	Richard Tjoper	N/A	07917 775689
	E&P Maintenance Engineer	Russell Cordingley	N/A	07515 615657	
Section Manager (Signalling)	Simon Mansel	N/A	07825 766766		
London North Western	Saltley	Section Manager (Signalling)	Andy Mackay	N/A	07880 885607
		Assistant S&T Maintenance Engineer	David Tilmansh	0121 3631915	07890 236648
	Section Manager (Signalling)	Trevor Juffs	N/A	07810 058238	
	Section Manager (D&P)	Paul Bowen	0121 3631916	07901 512330	
	S&T Maintenance Engineer	Dek Owen	N/A	07771 831340	
London North Western	London Euston	Section Supervisor (Signalling)	Paul Huntwell	N/A	07870 278117
		Section Manager (Signalling)	Clayton Munro	N/A	07801 181559
	Stansbridge Park	E&P Maintenance Engineer	Don Da Costa-Cheer	N/A	07743 813624
Section Manager (Telecoms)	Andy Grace	N/A	07880 503656		





# GI Portal

This material 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.

<b>Company Ownership</b>		//	Top of Slope
		//	Top of Slope
	Bridge (Rail over River)	//	Bottom of Slope
	Bridge (Rail over Road)	//	Bottom of Slope
	Bridge (Road over Rail)	⚡	Narrow Gauge Railway
	Bridge (Rail over Rail)	⚡	Standard Gauge Railway
	Level Crossing	//	Overhead Construction
	Tunnel	⚡	validate General Feature
	Contracted for Sale	//	Mean High Water
	Leasehold Ownership	⚡	Mean High Water
	Freehold Ownership	//	Mean Low Water
	Prohibitive Interest	⚡	Mean Low Water
	<b>Annotation</b>	⚡	Historic Cable Route
<b>Points</b>		<b>Miscellaneous</b>	
←	Bench Mark		Business Space
○	Boundary Post or Stone		Miscellaneous Asset Portfolio
⊕	Historic Site		Easements Wayleaves Telecoms
○	Disused Feature	<b>Utilities</b>	
●	General Feature		Business Space
	Positioned Boulder		Miscellaneous Asset Portfolio
	Positioned Coniferous Tree		Easements Wayleaves Telecoms
	Positioned Nonconiferous Tree		
●	Railway Structure		
●	Roadside		
+	Spot Height		
●	Tidal Water		
	Inland Water		
	Inland Water		
<b>Symbols</b>			
↖	Bench Mark		
	Boundary Half Mereing		
	Direction of Flow		
⚡	Switch		
←	Road Related Flow		
<b>Line Features</b>			
//	Building		
⚡	Building		
//	Building Overhead		
//	General Feature Edge		
⚡	General Feature		
//	General Feature Underground		