



M8 M73 M74 MOTORWAY IMPROVEMENTS

DBFO AGREEMENT

Schedule 2 - New Works Requirements

Part 7: Third Parties

TS/MTRIPS/WKS/2011/04



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SCHEDULE 2

NEW WORKS REQUIREMENTS

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SCHEDULE 2 - NEW WORKS REQUIREMENTS

PART 7: THIRD PARTIES

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1. General

- 1.1 The Company shall comply with the requirements of a Relevant Authority / third party detailed in this Part 7 of these New Works Requirements.
- 1.2. Where within this Agreement there is a requirement to consult with a Relevant Authority / third party the Company shall identify the Relevant Authority / third party and comply with their requirements whether or not such requirements or the Relevant Authority / third party are identified within this Part 7 of these New Works Requirements.
- 1.3. Where as a consequence of consultation with a Relevant Authority / third party a requirement is specified which contradicts any other requirement of this Agreement, the Company shall discuss such with the Scottish Ministers and where appropriate shall introduce a Company Change in accordance with Clause 35.
- 1.4. The Company shall consult with those Relevant Authorities / third parties detailed in this Part 7 of these New Works Requirements as appropriate, and shall where reasonable take account of comments received.
- 1.5. Reference to those Relevant Authorities or third parties within this Part 7 of these New Works Requirements shall mean these Relevant Authorities or third parties or their successor(s).
- 1.6. The Company shall take all necessary measures to avoid causing damage to Apparatus. The Company shall make its own detailed inquiries of the Relevant Authorities and third parties and shall satisfy itself as to the existence of the exact position of any such Apparatus and the depth, size and gradient thereof.
- 1.7. The Company shall provide Consultation Certificates in accordance with the Certification Procedure.
- 1.8. The terms “works” and “Works” in Appendix 1 shall be taken to mean the New Works whenever the context is relevant.
- 1.9 The term “Company” in Appendix 1 shall be taken to mean the Relevant Authority unless the context indicates otherwise.

2. Relevant Authorities / Third Parties

- 2.1 Subject to paragraph 1.2 above the special requirements of certain Relevant Authorities / third parties have been reproduced in a form provided by them.
- 2.2 Where necessary, the Company shall establish with the Relevant Authority / third party the definition of terms within each of the special requirements as applicable to the New Works.
- 2.3 Without prejudice certain terms have been related to the definitions given in this Agreement. Where this has been done the terms are detailed at the start of each of the special requirements.
- 2.4 The Special Requirements are detailed in Appendix 1 and are summarised as follows:
 - 2.4.1. A.Special Requirements in Relation to Working on Trafficked Highways;
 - 2.4.2. B.Special Requirements in Relation to the Scottish Government Agriculture Food and Rural Communities Directorate;
 - 2.4.3 C.Special Requirements in Relation to Scottish Natural Heritage;
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- 2.4.5. E.Special Requirements in Relation to the Scottish Environment Protection Agency;
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 - 2.4.15. O.Special Requirements in Relation to Coal Authorities;
 - 2.4.16. P.Special Requirements in Relation to Traffic Scotland;
 - 2.4.17. Q.Special Requirements in Relation to Thus Plc;
 - 2.4.18. R.Special Requirement in Relation to Virgin Media;
 - 2.4.19. S.Special Requirements in Relation to Scottish Canals; and
 - 2.4.20. T.Special Requirements in Relation to Trafficmaster.
- 2.5 Other Relevant Authorities / third parties shall include but not be limited to the following:
- 2.5.1. the Police;
 - 2.5.2. the ambulance service; and
 - 2.5.3. the fire brigade.

APPENDIX 1

Appendix 1A - Special Requirements in Relation to Working on Trafficked Highways

A. Special Requirements in Relation to Working on Trafficked Highways

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement; and

“Contract” means the Agreement

These Special Requirements relate to the South East Trunk Road Network. The following address can replace the contact details used in these special requirements for the South West Scotland Trunk Road Network:

Amey Infrastructure Services
South West Unit
Langmuir Way
Bargeddie
Glasgow
G69 7RW

Tel No. 0141 781 6900

Furthermore, these Special Requirements relate to the incumbent (June 2012) 3G Operating Companies. Contact details for the succeeding Operating Companies will be provided following the award of the Transport Scotland 4G Operations and Maintenance Contract for the respective network.

Conditions and general requirements for Applicants wishing to carry out works on the South East Scotland Trunk Road Network.

All traffic management must be in strict accordance with the Traffic Signs Manual - Chapter 8 and BEAR Scotland Ltd will only deal with the applicant. The following points must be adhered to when making application and whilst occupying a slot on the network:

- (a) Applicants **must** notify ‘Traffic Scotland’ 15 minutes prior to placing the first cone on the network and again when all Traffic Management is lifted by telephoning **0141 287 9283**.
- (b) Signs must be erected of an appropriate size to display the name and telephone number of the organisation undertaking the works.
- (c) All traffic management must be in strict accordance with TSM Chapter 8.
- (d) All vehicles must comply with clause 2.2.1 of the Traffic Signs Manual (TSM) - Chapter 8 volume 1 (1991).
- (e) All site personnel must wear approved high visibility clothing as per Clause 1.4 of TSM Chapter 8.
- (f) All traffic management equipment must be kept in clean and proper order throughout the duration of the works.
- (g) Two hourly checks are required on all traffic management works. These must be undertaken and recorded for all works including overnight works. Checks must be carried out and recorded.

Appendix 1A - Special Requirements in Relation to Working on Trafficked Highways

- (h) The attached network access form must be completed in full. The following information must accompany the completed form.
 - (i) Method statement for the works
 - (ii) Traffic management layout drawing
 - (iii) Contact names and addresses for the works including night-time cover.
- (i) BEAR Scotland Ltd and Her Majesty's Constabularies reserve the right to remove or have removed any traffic management works, if safe to do so, should exceptional circumstances arise, e.g., a road traffic accident.
- (j) The BEAR Scotland Ltd network is subject to restricted working hours on certain sections. These will be detailed if applicable. It is the responsibility of the applicant to seek clarification of any restrictions that may apply before commencing work.
- (k) Central reserve signs for any dual carriageway or motorway must be established using the Mobile Lane Closure technique as detailed in Volume 8 Section 4 of the DMRB (ref. TD49/97). This process must be strictly adhered to.
- (l) Works of type A will be subject to discussions with the Local Police prior to a slot on the network being allocated.
- (m) BEAR Scotland Ltd will have the final decision on allocation of slots on the network. **This decision is non-negotiable.**
- (n) A minimum notice period of four weeks is required for works of one-week duration or less. A six-week minimum notice will be required for works over a one-week period. This does not affect the Statutory Undertakers Emergency powers.
- (o) Requests that involve emergency works/repairs will be treated on their individual merits.
- (p) For works that require a Temporary Traffic Regulation Order i.e. road closure, speed limit and contraflow a minimum notice period of eight weeks will be required to allow for consultation with relevant parties i.e. Bus Companies, Local Authorities, Police, etc.

Any queries please contact:

The Traffic Officer
BEAR Scotland Ltd
6A Dryden Road
Bilston Glen
Loanhead
Midlothian
EH20 9TY
Telephone: 0845 413 0200

Appendix 1A - Special Requirements in Relation to Working on Trafficked Highways

NETWORK ACCESS FORM

ORIGINATOR OF WORKS :	
TRAFFIC MANAGEMENT CONTRACTOR :	
CONTRACTOR FOR THE WORKS :	
ADDRESS :	HEAD OFFICE TEL:
	SITE CONTACT TEL:
Route No.	
Location	
Date(s) From:	
To:	
Time(s)* From:	
To:	
Closure Type**	
Lanes Closed***	
Section 1.01 Speed Limit on Road/ Proposed Speed Limit	
Brief Description of Works	
Method Statement	
Temporary Traffic Management Proposals (Attach plan where appropriate)	
Consultation with local authorities, police etc	
Is Traffic Order Required? (If yes approval is conditional)	
Expected Delay****	

Appendix 1A - Special Requirements in Relation to Working on Trafficked Highways

NOTES

Access will ONLY be granted on condition that Traffic Scotland is informed by telephone (0141 287 9283) 15 minutes prior to the first cone being placed on the network when all traffic management has been lifted.

* Time Restrictions may apply

** A, B, or C

*** L1, L2, L3, slip lane, hardshoulder, lay-by, verge, footway

**** To be completed by the Traffic Officer

BEAR Scotland Ltd Response
Approved Yes/No
Signed
Date

Before completing this form please read the conditions and general requirements for applicants wishing to carry out works on the trunk road network.

Form to be completed in full and returned to:

The Traffic Officer
BEAR Scotland Ltd
6A Dryden Road
Bilston Glen
Loanhead
Midlothian
EH20 9TY

Telephone: 0845 413 0200

Appendix 1A - Special Requirements in Relation to Working on Trafficked Highways

CLOSURE TYPE A, B OR C

TYPE A: are those systems, which are allowed to remain in operation in all traffic flows and visibility conditions. They include all systems involving contraflows and other works of long duration.

TYPE B: are those systems which are allowed to remain in operation when the traffic demand is less than the available carriageway capacity when the System is in place and there is good visibility. If the work cannot be completed within the allocated time for completion, then, either the Traffic Management System is to be removed and normal traffic conditions reinstated, or additional signing and lamps to the standard of a TYPE A Traffic Management System is to be installed.

TYPE C: similar to TYPE B but the majority of traffic signs required are vehicle mounted. They are carried out when traffic flows permit, in good visibility and generally in daylight although nighttimes systems are permissible. They include continuous mobile operations as well as those, which involve movement and periodic stops of short duration.

NOTIFICATION/APPLICATION FOR INSTALLATION OF PORTABLE TRAFFIC SIGNALS

CONDITIONS

1. At least SEVEN WORKING DAYS NOTICE SHALL BE GIVEN for all works other than emergency and urgent works. For emergency and urgent works, e.g., when circumstances arise which could result in immediate danger to the public or serious damage to the road), this notice must be sent WITHIN TWO HOURS of work starting.
2. Wherever signal control is to be used at a works site, which contains or is near a JUNCTION two scaled plans showing the proposed temporary site layout must accompany this application. It is a STATUTORY REQUIREMENT for the Roads Authority to issue WRITTEN site approval BEFORE signals are installed, in these instances.
3. The signal equipment and traffic signs must satisfy fully all the requirements set out in the Traffic Signs Regulations and General Directions 2002, and all other relevant regulations, directions and technical memoranda.
4. Procedures, layouts and operations shall be in accordance with the "Safety at Street Works and Road Works – A Code of Practice" and "Traffic Signs Manual – Chapter 8".

Appendix 1A - Special Requirements in Relation to Working on Trafficked Highways

5. The mode of operation of the signals shall be "Vehicle Actuation" to the Department of Transport's booklet "An introduction to the Use of Traffic Actuated Portable Traffic Signals" (the pink booklet), unless otherwise agreed by the Roads Authority in writing.
6. If an external supply of electricity is required for the operation of the signals a separate application must be made to Scottish Hydro Electric and to the Area Engineer (lighting section) for such a supply.
7. All apparatus whether hired or owned by the user will be subject to a "beck and call" maintenance contract. The user must establish a safe working method of traffic control within 2 hours of the notification of a fault or defect.
8. The apparatus must be inspected and tested before delivery to site and the user must satisfy the Roads Authority and Police that the equipment meets all the necessary requirements and that a competent person has made the pre-delivery check.

Further copies of this form may be obtained from:

The Traffic Officer
BEAR Scotland Ltd
6A Dryden Road
Bilston Glen
Loanhead
Midlothian
EH20 9TY

Telephone: 0845 413 0200

Appendix 1A - Special Requirements in Relation to Working on Trafficked Highways

NOTIFICATION / APPLICATION FOR INSTALLATION OF PORTABLE TRAFFIC SIGNALS

SIGNALS MUST BE VEHICLE ACTUATED UNLESS OTHERWISE AGREED WITH BEAR SCOTLAND LTD

To: **BEAR Scotland Ltd.** (Please note there is a statutory requirement to notify BEAR Scotland Ltd. of all portable signal installations and it is necessary to obtain approval in writing for those sites, which contain or are near a junction)

6A Dryden Road

Bilston Glen

Loanhead

Midlothian

EH20 9TY

1. I (name of applicant).....
on behalf of (state firm, address and phone no.).....

.....
Give notice of intention to place and operate portable traffic signals at (state location)
.....

.....
In accordance with the overleaf conditions. The intended dates of operations are:-

2. Start date and time Will signals be operational at all times YES/NO
Finish date and time If no please state times of operation.....

3. **BEAR Scotland Ltd must be notified within 48 hours of signals being removed from the carriageway.**

4. List below two named employees and the signal hire company contacts, (at least one of whom shall be available at any time), who are in the first instance, to be called out at any time by the Police or by BEAR Scotland Ltd to rectify signals which are not working or not working properly.

Named Contacts:-

NAME	CONTACT ADDRESS and TELEPHONE No
(a) (Employee).....	Day
	Night
(b) (Employee).....	Day
	Night
(c) (Signal Company)	Day
	Night

I agree to meet all costs which are incurred by BEAR Scotland Ltd in respect of the connection, operation and disconnection of the signals and in respect of giving emergency attention in the event that the "named contacts" cannot be reached or are unable to rectify any fault within 2 hours of the first notification that the signals or associated signing are faulty.

Address where invoices to be sent if different from above:-
.....

Signed Date On behalf of

Appendix 1A - Special Requirements in Relation to Working on Trafficked Highways

Traffic Management Requirements

Where work is carried out on or adjacent to a road open to vehicles, all vehicles and mobile plant operating on or adjacent to that road in the execution of the operations shall be painted in a conspicuous colour as described hereafter:

- (i) All vehicles used in mobile lane closures as defined in Section 6 "Type C Works" in Chapter 8 of the Traffic Signs Manual shall be painted in non-reflectorised yellow (Colour No. 355 to BS381 C or similar). Similarly all vehicles engaged in Operations within unprotected trafficked lanes for example, setting up major traffic management layouts such as tapers and contraflows) on dual carriageways and other high speed roads shall be painted non-reflectorised yellow.
- (ii) All other vehicles undertaking Operations shall be generally light in colour preferably but not necessarily non-reflectorised yellow and/or provide, over the full width and height of the vehicle which is exposed to approaching vehicles, conspicuous markings and signs to define clearly that the vehicle is a roadworks vehicle.
- (iii) Vehicles shall have a sign board reading "Highway Maintenance" (to Diagram 740A of Schedule 12 Part V of the Traffic Signs Regulations and General Directions 1994) fixed at the rear. The lettering shall be 150 millimetres "x height" except that for light vans and cars it shall be the largest "x height" that can be accommodated out of the following heights: 37.5, 50, 62.5 or 100 millimetres. The lettering shall be block capital letters from the alphabet described in the Traffic Signs Regulations and General Directions 1994 Schedule 13 Part II on a yellow non-reflectorised background in accordance with BS 381, Colour No. 355. In addition all purpose vehicles and plant shall be provided with either roof mounted light bars or at least two amber flashing beacons and light vans and cars shall be provided with a roof mounted amber flashing distinctive lamp.
- (iv) All warning lamps shall be switched on when the vehicle or plant is manoeuvring into or out of the location of the Operations, operating at low speed on the carriageway or hard shoulder open to vehicles or standing on a carriageway or hard shoulder open to vehicles.

Weekly Programme of Intent

Weekly Programme of Intent – The Contractor shall by **1200hrs** each following day, provide the Operating Company's Traffic officer with a detailed summary of Traffic Management Installation which have been in use on the Contract on each day, in the format attached.

This should be sent by Fax to: **0131 440 3118**

Daily Record of Traffic Installations

Daily Record of Traffic Installations – The Contractor shall by **1200hrs** each following day, provide the Operating Company's Traffic Officer with a detailed summary of Traffic Management Installations which have been used in the Contract on each day, in the format attached. This should be sent by Fax to: **0131 440 3111**

Appendix 1A - Special Requirements in Relation to Working on Trafficked Highways

WEEKLY PROGRAMME OF INTENT AND NOTIFICATION OF CARRIAGEWAY OCCUPATIONS											Estimated delay to be completed by the					
SOUTH EAST UNIT											Traffic Officer					
PROGRAMME PERIOD - WEEK COMMENCING Monday :																
LOCATION			ACTIVITY DETAILS	DAYS							DURATION		CARRIAGEWAY OCCUPATION DETAILS			
ROUTE JUNCTION NAME/NUMBER DIRECTION			LOCATION/DESCRIPTION/REASON/DIVERSION	M	T	W	T	F	S	Su	START	END	CLOSURE TYPE A, B, or C (SPEED LIMIT)	ESTIMATED DELAY	TRAFFIC MANAGEMENT CONTRACTOR/CONING BY	MAIN CONTRACTOR
ROUTE	FROM	TO														

E-MAIL TO [REDACTED] :[REDACTED]@nadics.com OR FAX TO 0131 663 8016

ALL REQUESTS MUST INCLUDE A SITE MOBILE/ 24HOUR CONTACT NUMBER TEL: _____ NAME: _____

CODING FOR USE IN "ESTIMATED DELAY" COLUMN	ABBREVIATIONS
The first digit indicates the extent of the delay	HS HARD SHOULDER
1 LITTLE OR NO DELAY	NS NEARSIDE
2 SLIGHT DELAY	OS OFFSIDE
3 MODERATE DELAY	CL CENTRE LANE
4 SERIOUS DELAY	RL ROUNDABOUT
	TL TURNING LANE
The second digit indicates the time the delay is expected	SL SLIP LANE
1 AT ALL TIMES	CF CONTRAFLOW
2 PEAK HOURS	
3 OFF PEAK HOURS	NB NORTHBOUND
	SB SOUTHBOUND
	EB EASTBOUND
	WB WESTBOUND
	SCT SINGLE CARRIAGEWAY TEMP LIGHTS
	MLC MOBILE LANE CLOSURE

COMMENTS: THE ABOVE INFORMATION IS BASED ON PLANNED WORKS WHICH MAY HAVE TO BE CHANGED AT SHORT NOTICE AS CIRCUMSTANCES DICTATE. IT SHOULD NOT THEREFORE BE TAKEN AS NECESSARILY COMPREHENSIVE.

IN CASE OF QUERY CONTACT:
TELEPHONE: _____

**Appendix 1B - Special Requirements in Relation to the Scottish Government
Agriculture Food and Rural Communities Directorate**

B. Special Requirements in Relation to the Scottish Government Agriculture Food and Rural Communities Directorate

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement; and

“Contract” means the Agreement; and

“Engineer” means the Scottish Ministers.

1. Special requirements in relation to the Scottish Government Agriculture Food and Rural Communities Directorate are as follows:

Before commencing any work over any portion of the Site the Contractor shall confirm with Scottish Government Representative, details of any restrictions relating to the prevention of the spread of animal, plant and/or poultry diseases which may for the time being be in force relating to the Site and any surrounding land and/or access ways to which the Contractor or any sub-contractor employed by him may have to seek to gain entry for the purpose of the Works. The Scottish Government Representative, can be contacted at the following point:

Address:	The Scottish Government Agriculture Food and Rural Communities Directorate Pentland House 47 Robb’s Loan Edinburgh EH14 1TY
Telephone:	08457 741741
Fax:	01397 795 001

2. The Contractor shall ensure that his employees or the employees of any sub-contractor employed by him shall avoid all contact with livestock on or adjacent to the Site and keep strictly to any route which has been agreed with any owner/occupier of land affected by the Works at all times.
3. Where it is necessary for the purpose of the Works to enter land on which livestock are or may be kept the Contractor shall take all precautions to prevent any livestock penetration from adjacent land onto such land and/or contact between any livestock on that land and other livestock from adjacent land.
4. Where it is necessary for the purpose of the Works to enter land which is or has recently been occupied by livestock, the Contractor shall provide at each entry or exit to such land, appropriate arrangements for disinfecting all footwear and vehicles upon entry or exit from such land to the satisfaction of the Engineer. He shall ensure that all footwear and vehicles are cleansed of all dirt and mud before disinfecting with a clean

**Appendix 1B - Special Requirements in Relation to the Scottish Government
Agriculture Food and Rural Communities Directorate**

- disinfectant, regularly replenished at the correct dilution and which carries a valid citation on the label certifying approval by Scottish Government Agriculture Food and Rural Communities Directorate.
5. The Contractor shall not enter buildings occupied or used by livestock for the purpose of the Works without the express written consent of the owner/occupier. When such entry is necessary, rubber boots and protective over garments of an appropriate type shall be worn at all times which shall be disinfected upon the entry and exit from such buildings in accordance with the instructions given at paragraph 5 above.
 6. Notwithstanding any other provisions within the Contract the Contractor shall take all necessary precautions to ensure that streams, ditches and water troughs are not polluted as a result of carrying out of the Works and that ditches and drainage outfalls are adequately protected from damage pollution and/or silting to the satisfaction of the Engineer.
 7. The Contractor shall ensure that litter and/or debris resulting from the Works is not left or allowed to accumulate on or adjacent to the Site in areas accessible to livestock. The Contractor shall particularly make every effort to remove discarded foodstuffs remaining from human consumption - these may carry infectious agents harmful to livestock.
 8. The Contractor shall ensure that all gates are kept closed and appropriately secured and shall make every effort to avoid damage to fences, hedges, trees and walls in order to prevent livestock from straying. Where such damage does occur the Contractor shall take immediate action to secure any resulting breach from the penetration and/or escape of livestock and immediately thereafter notify the Engineer who shall consult the owner/occupier as appropriate.
 9. In addition to the above requirements the Contractor shall take all necessary precautions to protect farmers' stock herds against the risk/spread of Brucellosis. Such precautions shall include, but not be limited to, the provision by the Contractor at each entry or exit to such land, appropriate arrangements for disinfecting all footwear and vehicles upon entry or exit from such land to the satisfaction of the Engineer. He shall ensure that all footwear and vehicles are cleansed of all dirt and mud before disinfecting with a clean disinfectant, regularly replenished at the correct dilution and which carries a valid citation on the label certifying approval by Scottish Government Agriculture Food and Rural Communities Directorate.
 10. The Contractor shall strictly comply with any restrictions and/or precautions relating to the movement of soil which may be requested by the Scottish Government Agriculture Food and Rural Communities Directorate in the interest of restricting the spread of crop diseases, such as (but not restricted to):
 - (i) Rhizomania (affecting beet)
 - (ii) Red Core Disease (affecting strawberries)
 - (iii) Wart Disease (affecting potatoes)
 - (iv) Verticillium Wilt (affecting hops)
 - (v) Cyst Nematodes (affecting potatoes/beet)
 11. The Contractor shall strictly comply with any restrictions and/or precautions relating to the movement of soil which may be requested by the Scottish Government Agriculture Food and Rural Communities Directorate in the interests of preventing the spread of the following plant species:
-

**Appendix 1B - Special Requirements in Relation to the Scottish Government
Agriculture Food and Rural Communities Directorate**

- (i) Japanese Knotweed
- (ii) Giant Hogweed

In particular any soil or other such arising contaminated with or suspected of being contaminated with the rhizomes and/or roots of these species SHALL NOT be spread to areas currently free of these plants but shall be disposed of as directed by the Scottish Government Agriculture Food and Rural Communities Directorate Representative.

11.1 With regard to livestock diseases these include but are not restricted to :

1. Foot and Mouth Disease
2. Newcastle Disease (Fowl Pest)
3. Swine Fever
4. Swine Vesicular Disease

Should an outbreak of any of the above highly infectious diseases occur in the area the Contractor and/or any sub-contractor employed by him shall not enter further upon any land and shall immediately inform the Engineer and request instructions. The Engineer shall consult with and seek instructions immediately from the Scottish Government Agriculture Food and Rural Communities Directorate Representative.

12. Carcase Burial Pits

- (i) Such pits contain the remains of animals which have been slaughtered for the purposes of containing certain diseases (particularly Foot and Mouth, but occasionally Anthrax). Unauthorised exhumation of such carcasses is illegal. Where there is prior knowledge that Carcase Burial Pits may exist in the area of the Works the Scottish Government Agriculture Food and Rural Communities Directorate Representative may be able to offer assistance in their location. However, if during the course of the Works a Carcase Burial Pit is encountered by the Contractor or any sub-contractor employed by him all work shall cease at that location and the Contractor shall appropriately secure that area of the Site against access and immediately inform the Engineer and request instructions. The Engineer shall consult with and seek instructions immediately from the Scottish Government Agriculture Food and Rural Communities Directorate Representative.

Compliance with the above requirements shall not relieve the Contractor of any of his obligations under the Contract.

Appendix 1D - Special Requirements to Secure the Protection of the Archaeological Heritage

C. Special Requirements in Relation to Scottish Natural Heritage.

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement.

1. Special requirements in relation to Scottish Natural Heritage are as follows:

- (i) The Contractor shall take cognisance of the environmental importance of any area affected by the Investigation and shall comply with all relevant legislation.
 - (a) The Contractor shall consult with Scottish Natural Heritage if any operation affects a statutory protected area, including but not restricted to, Hamilton Low Parks Site of Special Scientific Interest (SSSI).
 - (b) The Contractor shall consult with Scottish Natural Heritage if any operation affects a statutory protected species. Where protected species are affected by the Works, the Contractor shall prepare and submit a Species Protection Plan in advance to Scottish Natural Heritage which shall be agreed before such operations proceed.
 - (c) The Contractor shall provide the findings of pre-construction ecological surveys to Scottish Natural Heritage as part of on-going consultations.
 - (d) The Contractor shall consult with Scottish Natural Heritage before and during works affecting Hamilton Low Parks SSSI, and maintain written records of such consultations. Scottish Natural Heritage shall be informed of planned works a minimum of 7 days prior to commencing works within the SSSI. Fencelines to secure and mark the boundary of the works adjacent to and within the SSSI shall be inspected and agreed with SNH in advance of works commencing.

The Contractor shall meet all other requirements of the appropriate regulating body in respect of water quality, air quality and noise emissions.

Address: Scottish Natural Heritage

30 Hope Street

Lanark

ML11 7NE

Telephone: [REDACTED]

Contact [REDACTED], Area Officer

Appendix 1D - Special Requirements to Secure the Protection of the Archaeological Heritage

Email: [REDACTED]

- (ii) The Contractor shall liaise with the Ecologist appointed by the Scottish Ministers and inform the Engineer a minimum of 7 days prior to commencing Works in any environmentally sensitive areas as identified at the start of the contract.

Appendix 1D - Special Requirements to Secure the Protection of the Archaeological Heritage

D. Special Requirements to Secure the Protection of the Archaeological Heritage.

1. Undiscovered remains

Under principles and procedures agreed between Historic Scotland (HS) and the Scottish Ministers responsibility for the main programme of archaeological mitigation work (i.e. archaeological excavation and recording) along the route of any trunk road scheme lies with the Scottish Ministers through Historic Scotland. Historic Scotland has advised that no advance archaeological investigation is required before commencement of the New Works; however unknown archaeological remains may still be present thereafter. The Company shall be aware that such unknown remains may be present and be revealed in the course of works. In such circumstances the Company shall ensure that procedures are in place to draw upon the services of an appropriately qualified Archaeological Contractor to liaise with Historic Scotland and to advise on and oversee necessary protection and mitigation measures.

2. Control of Ancillary Works

- (a) Where not already assessed within the Environmental Statements for the Scheme, the Company shall engage an appropriately qualified Archaeological Contractor to advise on the location, outwith the road line, of all Constructional Plant and temporary Works including borrow pits, spoil heaps, surplus soil disposal areas, haul roads, work camps, material storage areas. These may be on areas of land outwith the locations fully studied during the scheme assessment process.
- (b) The Archaeological Contractor shall have access to all Archaeological Reports on the Study Area prepared as part of the Environmental Assessment process. For works outwith the boundaries of the Study Area he shall undertake sufficient Desk Based Research and Field Research to identify the location, significance and extent of all sites of archaeological interest in the wider search area.
- (c) The Company shall make full use of the above information and the advice of his Archaeological Contractor to plan the works in accordance with current Government policy for the protection of the archaeological heritage. In general Works shall be planned to avoid significant archaeological features.
- (d) Currently no Scheduled Monument Consent is required. Should Works outwith the areas addressed in the Environmental Statements be required, prior to Works of any type within the boundary of any Scheduled Areas or Scheduled Ancient Monuments. Any application for Scheduled Monument Consent shall include a detailed specification for any proposed fieldwork mitigation. If Scheduled Monument Consent is granted, no Works may take place until Historic Scotland has approved the results of the fieldwork mitigation. Early contact with Historic Scotland is vital if works of any kind are proposed or suggested within, or within 50m of the boundary of, any Scheduled Monuments or Scheduled Areas.
- (e) For areas which the Archaeological Contractor research suggests may be archaeologically sensitive but the full potential remains uncertain, prior archaeological evaluation may be required to establish the facts before a final decision is reached on whether either of the two mitigation options should apply as detailed in 3.4 and 3.5 above..

Appendix 1D - Special Requirements to Secure the Protection of the Archaeological Heritage

- (f) Where it has been determined that archaeological site(s) should be preserved but they lie so close to any proposed Works that they may be at risk from inadvertent damage, the Company, using the advice of his Archaeological Contractor, shall arrange for temporary fencing to be erected around the site(s) prior to works commencing. If any Scheduled Monuments or areas are involved, Historic Scotland's prior written agreement must be sought on the area to be fenced. No Works of any nature will be permitted within these fenced-off areas.
- (g) For any Works requiring Planning Permission, the Company shall submit to the planning authority, as part of his planning application, a statement of his archaeological assessment of the area, the implications of his development upon it and the details of any archaeological mitigation proposed.

3. Design and Mitigation: Methodologies

The Design and mitigation shall be in accordance with current good practice guidelines within Scotland including, but not limited to, the following:

- (h) Institute of Field Archaeologists 1990 (revised 2002) "Code of Approved Practice for the Regulation of Contractual Arrangements in Field Archaeology".
- (i) Institute of Field Archaeologists 2001 "Standard and Guidance for the Collection, Documentation, Conservation and Research of Archaeological Material".
- (j) Institute of Field Archaeologists 1994 (revised 2001) "Standard and Guidance for Archaeological Field Evaluation".
- (k) Institute of Field Archaeologists 1994 (revised 2001) "Standard and Guidance for an Archaeological Watching Brief".
- (i) Institute of Field Archaeologists 1995 (revised 2001) "Standard and Guidance for Archaeological Excavation".
- (l) Institute of Field Archaeologists 1996 (revised 2001) "Standard and Guidance for the Archaeological Investigation and Recording of Standing Buildings or Structures".
- (m) Institute of Field Archaeologists 1985 (revised 2006) "Code of Conduct".
- (n) Institute of Field Archaeologists 1994 (revised 2001) "Standard and Guidance for Archaeological Desk Based Assessments".
- (o) McKinley, Jacqueline I and Roberts, Charlotte 1993 "Excavation and post-excavation treatment of cremated and inhumed human remains", IFA Technical Paper No. 13.
- (ii) Association for Environmental Archaeology's Working Paper No. 2, Environmental Archaeology and Archaeological Evaluations (1995).

Appendix 1E - Special Requirements in Relation to the Scottish Environmental Protection Agency

E. Special Requirements in Relation to the Scottish Environment Protection Agency

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement.

Special Requirements in Relation to the Scottish Environment Protection Agency (SEPA) are as follows:-

1. The Contractor shall comply with the Water Environment (controlled Activities) (Scotland) Regulations 2005.

The Control of Pollution Act 1974 (COPA 1974) which controlled discharges of poisonous, noxious or polluting substances and trade and sewage effluents to controlled waters in Scotland, was replaced by the Water Environment (Controlled Activities) (Scotland) Regulations 2005 (CAR), on 1 April 2006.

It is important to consult SEPA well in advance of any engineering activities in or near the water environment and any point source discharge activities as it is an offence under the 2005 Regulations to carry out a controlled activity without an authorisation.

Further details are provided in the Practical Guide on CAR via the web link below:

http://www.sepa.org.uk/pdf/wfd/regimes/car_practical_guide.pdf

SEPA Contact Name: [REDACTED]
Address: SEPA South West
Area SEPA West
5 Redwood Crescent
Peel Park
East Kilbride
GLASGOW
G74 5PP
Telephone: 01355 574200

Appendix 1F - Special Requirements in Relation to Scottish Water

F. Special Requirements in Relation to Scottish Water

The terminology used in these Special Requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement; and

“Contract” means the Agreement.

1.1 Special requirements in relation to Scottish Water are as follows:

1.2.1 Scottish Water Authority supplies water and sewerage services.

In these Special Requirements the following terms shall have the meanings assigned to them:

'Authority' means the Roads Authority (RA) initiating the roads development.

'Undertaker' means **Scottish Water (SW)**.

'Undertaker's Representative' means the staff of the Scottish Water or its authorised representatives and/or agents.

1.2.2 The Contractor shall be assumed to be appointed by the Roads Authority (or Transport Authority) for the purposes of designing, constructing and/or managing the roads/transport scheme).

1.2.3 Before commencing any work or moving heavy plant or equipment over any portion of the Site the Contractor shall confirm details of all underground plant within the Site belonging to the Authority with the appropriate Authority's Representative for the area and service involved.

1.2.4 Where such details show that the Contractor's works or the movement of plant or equipment may endanger the Authority's pipes or plant, the Contractor must give Scottish Water at least one week's notice of the date on which it is intended to commence such work or movement of plant and equipment in order that the presence of buried Plant can be indicated by markers. The Contractor shall ensure that the Authority's plant is protected from damage, but if any damage should occur THE AUTHORITY should be notified immediately

1.2.5 At all times the contractor shall consider potential risks to SW apparatus and shall take measures to protect such apparatus, in line with best industry practice.

1.2.6 Before commencing any work involving the movement of heavy plant or equipment over any portion of a site, the Contractor shall confirm details of all underground plant within the site belonging to SW with the appropriate SW representative for the area and service involved. If necessary, trial holes shall be excavated to confirm position of SW apparatus. NB Trial holes shall only be done with the expressed permission of Scottish Water.

1.2.7 Where such details show a conflict between SW pipes or plant and the Contractor's works, the Contractor shall give Scottish Water at least two weeks notice of the date on which it is intended to commence such work or

Appendix 1F - Special Requirements in Relation to Scottish Water

movement of plant and equipment in order that the presence of buried plant can be confirmed and indicated by markers.

- 1.2.8 The Contractor's method statement and safe system of work shall state clearly what measures are to be used to avoid damaging Scottish Water's apparatus and these shall be submitted to SW for consideration. The Contractor shall ensure that SW's plant is protected from damage, but if any damage should occur then SW shall be notified immediately.
- 1.2.9 The Contractor shall ensure that all method statements and risk assessments that are done which impact on SW apparatus are site specific, appropriate and comply with Scottish Water's Standards and Procedures. The Contractor shall submit method completed method statements and risk assessments to SW for information and comment and shall comply with SW's DOMS (Distribution, Operations and Maintenance Strategy) procedures.
- 1.2.10 Any damage to Scottish Water's apparatus shall be reported immediately to Scottish Water using the SW Call Centre number 0845 601 8855.
- 1.2.11 All costs due to damage to SW apparatus shall be charged to the third party that caused the damage. Costs charged may include any operational costs that were incurred by SW in order to mitigate loss of service and inconvenience to SW customers and hence these costs may be significant.
- 1.2.12 The following specific requirements must also be adhered to:
- (i) All surface apparatus site belong to Scottish Water including manhole covers, toby covers, valve covers, gratings etc shall be identified on site in advance of the works commencing.
 - (ii) On completion of the works the contractor shall again identify the apparatus and check it is still accessible and functional and shall take immediate remedial action if that is not the case.
 - (iii) The level of covers shall be adjusted to suit the new scheme. Alternatively covers shall be replaced or renewed as appropriate to suit the new roads scheme.
 - (iv) Before any work is carried out in the vicinity of pipelines trial holes shall be carefully excavated by hand as required to confirm the position of the pipe.
 - (v) Assistance in tracing SW apparatus can normally be arranged by SW's local representative, who shall be contacted before any trial holes are excavated.
 - (vi) Allow, in general, at least 300 millimetres clearance horizontally and vertically round Scottish Water's pipes in order to allow future repair and maintenance work to be made to the pipe.
 - (vii) The Contractor shall provide appropriate consolidation on reinstatement in order to reduce the effect of subsidence on SW apparatus.
 - (viii) Mechanical excavation shall not be used at the vicinity of SW apparatus. Machinery working can be used but only if agreed by SW. (see SW document "Working in the Vicinity of a Live Main").

Appendix 1F - Special Requirements in Relation to Scottish Water

- (ix) Fencing may be required at specific points to exclude access by mechanical plant except at designated crossing points where suitable protection to the main shall be provided. Bridging works may be required at pipe crossings.
- (x) SW shall be consulted before a decision is made to use explosives within 400m of a water main.
- (xi) Once exposed, a water main will be treated with the utmost care to prevent damage from any source. It shall be supported as necessary at all stages of excavation and back filling, to the satisfaction of SW. Only short lengths shall be exposed at any time with only one joint being exposed.
- (xii) In the event of a marker being disturbed for any reason, it shall not be replaced other than in the exact position and to its former depth, unless the repositioning is carried out at the discretion and under the supervision of SW's representative.
- (xiii) Written permission shall be obtained from Scottish Water before water is obtained from the Public Supply and in particular the use of fire hydrants is permitted but only if a Scottish Water licensed standpipe is used.
- (xiv) Scottish Water shall be consulted before any piling is carried out within 15 metres of a water main. Any piling works adjacent to SW apparatus shall be carried out to the recommendations of BS 5228-2:2009 and to SW local requirements. Scottish Water reserves the right not to accept any piling works (or other works) that may pose an unacceptable risk to SW apparatus.
- (xv) Damage to a water main however slight, and even if only to the coating of a pipe, shall be reported immediately to the Undertaker and work suspended and men withdrawn as appropriate until an opportunity to assess the extent of any repair necessary is given.
- (xvi) If traffic is required to cross over a water main on site then the crossing arrangements shall be designed by the contractor and submitted to SW for consideration and acceptance. Such arrangements shall be designed so as to limit loading and settlement on the pipe and to limit risk of damage to the asset to acceptable levels. To avoid doubt, it should be noted that the final responsibility for the crossing point design lies with the contractor.
- (xvii) Water mains are normally laid at between 750 millimetres and 1500 millimetres cover but larger mains often cannot follow minor variations in the ground contours readily and may be shallower or deeper than this.
- (xviii) Sewer pipe depths can vary from 750mm to over ten metres and present significant risks. The primary risks relate to
 - a) Falling from heights due to deep manholes.
 - b) Noxious fumes and gases within the sewer system
- (xix) Under no circumstances must anyone enter a sewer on site and manhole covers should not be removed unless under SW's strict control arrangements.

Appendix 1F - Special Requirements in Relation to Scottish Water

- (xx) No work shall be done to the sewer or system without the expressed permission of Scottish Water by means of the issue of an Access Transfer Certificate.
 - (xxi) Directional drilling or any other type of non open cut installation of services shall not take place near Scottish Water plant or mains without written permission being given.
 - (xxii) Where other apparatus or services are to be laid alongside a water main, a minimum separating distance shall be agreed on site. All trenches crossing the line of a water main shall be kept as near a right angle to the axis of the main as possible (i.e. shortest possible crossing).
 - (xxiii) As part of the DOMS procedures and as part of the contractor's method statement, contingency arrangements may be required on site to cover the possibility of a SW asset being rendered inoperable by the contractor. Contingency arrangements should include
 - a) Contact names and details
 - b) Contingency options
 - c) Emergency procedures
 - (xxiv) Where it is necessary to lay new apparatus across and above a water main an appropriate distance shall be left between the bottom of the new apparatus and the top of the main. This shall be agreed with SW
 - (xxv) Where apparatus shall pass below a water main the trench shall be excavated by hand. Care will be taken so as to avoid undermining the water main (or sewer) and proposals shall be submitted by the contractor and agreed with SW
 - a) 48 hours notice of intention to back-fill under, over or adjacent to a water main shall be given to SW who then may arrange a representative to advise as to the suitability and consolidation of back-fill material over the pipeline.
 - b) Backfill material shall be suitable excavated or imported inert material. Material shall be agreed with SW.
- 1.2.13 The following tree planting requirements must also be adhered to:
- (i) Before tree planting is carried out near mains approval shall be obtained from Scottish Water.
 - (ii) The consent to plant trees will indicate what areas may be planted and also the type of trees.
 - (iii) The only hardwood plants which can not be planted directly across the water main are hedge plants such as Quickthorn, Blackthorn, etc. and these shall only be planted where a hedge is necessary either for screening purposes or to indicate a field boundary. Poplar and Willow trees shall not be planted within 10m of a water main.
 - (iv) The following trees and those of similar size (be either deciduous or evergreen) shall not be planted within 6m of a water main or sewer e.g. Ash, Beech, most Conifers, Elm, Horse Chestnut, Lime, Maple, Oak, Sycamore. Apple and Pear trees also come under this category.

Appendix 1F - Special Requirements in Relation to Scottish Water

- (v) Raspberries, Gooseberries and Blackcurrant may be planted close to a water main or sewer but a 4m strip (1.5m each side of the water main) shall be left clear at all times.
- (vi) Dwarf Apple Stocks may be planted to within 3m of a water main or sewer.
- (vii) In cases where screening is required, the following are shallow-rooting and may be planted close to the mains or sewer:
 - (viii) Blackthorn, Broom, Cotoneaster, Elder, Hazel, Laurel, Privet, Quickthorn, Snowberry and most ornamental shrubs.
- (ix) Christmas Trees (Picca Abies) may be planted to within 3m of the main or sewer. However, permission is given on the strict understanding that the Christmas Trees are clear felled at intervals not exceeding seven years.
- (x) Before any landscaping is carried out near water mains approval shall be obtained from Scottish water.
- (xi) Any consent to landscape will indicate the maximum and minimum depth of earth allowed to be added or subtracted to the overburden over the length of the pipe within which this applies. No heavy plant shall be used on or around the pipe without the express permission of SW in case of structural damage.
- (xii) However, no landscaping over the length of the pipe and the indicated width on the consent will be allowed that would affect SW's ability to reach the pipe in the event of an emergency.

1.2.14 The following other requirements must also be adhered to:

- (i) The Contractor shall not allow material to enter the sewerage system or discharge to the sewerage system without the express permission of Scottish Water.
- (ii) In the event of any damage whatsoever to Water or Sewerage apparatus the Contractor shall immediately inform CUSTOMER SERVICES AT SCOTTISH WATER 55 BUCKSTONE TERRACE EDINBURGH EH10 6XH. TELEPHONE: 0845 601 8855. FAX: 0131 445 5040. (Ask for Service Request Desk).
- (iii) The contractor should liaise with one or more of the following:-
 - a) Service Relocation team at 0141 355 5590 (For all NRSWA major Works projects in the first instance.
 - b) Scottish Water's local staff
 - c) SW Asset Delivery staff
 - d) Other SW employees as appropriate.

Appendix 1G - Special Requirements in Relation to South Lanarkshire Council

G. Special Requirements in Relation to South Lanarkshire Council – Planning and Environment Department.

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement.

1.1 Special requirements in relation to South Lanarkshire Council are as follows:

1.1.1 The Contractor is required to comply with the special requirements of the following Planning and Environmental Departments, which should be contacted 7 days prior to commencement of the contract with full details of the proposed Works.

Address: Montrose House
154 Montrose Crescent
Hamilton
ML3 6LB

Contact Name: [REDACTED]

Telephone: [REDACTED]

Appendix 1H - Special Requirements in Relation to North Lanarkshire Council

H. Special Requirements in Relation to North Lanarkshire Council – Roads Department

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement.

1.1 Special requirements in relation to North Lanarkshire Council are as follows:

1.1.1 The Contractor is required to comply with the special requirements of the Roads Department which should be contacted 7 days prior to commencement of the contract with full details of the proposed Works:

Address: Planning Office
Planning and Environment Department
North Lanarkshire Council Offices
Bronway
Cumbernauld
G67 IDZ

Contact Name: [REDACTED]

Telephone: [REDACTED]

Address: Pollution Control
Planning and Environment Department
453 Main Street
Coatbridge
ML5 3RS

Contact Name: [REDACTED] (Noise and Air Quality)

Telephone: [REDACTED]

Appendix 1I - Special Requirements in Relation to Glasgow City Council, Transport Planning Department

I. Special Requirements in Relation to Glasgow City Council, Transport Planning Department

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement.

1.1 Special requirements in relation to Glasgow City Council are as follows:

- 1.1.1 The Contractor is required to comply with the Special Requirements of the Transport Planning Department, which should be contacted 7 days prior to commencement of the contract with full details of the proposed Works:

Address: Glasgow City Council
Land and Environmental Services
Richmond Exchange
20 Cadogan Street
G2 7AD

Head of Department TBC
Telephone 0141 287 9000

Contact Name: [REDACTED]
Telephone; [REDACTED]

Appendix 1J - Special Requirements in Relation to British Telecommunications PLC

J. Special Requirements in Relation to British Telecommunications PLC

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement; and

“Contract” means the Agreement.

Special requirements in relation to British Telecommunications Plc are as follows:

13. In this Special Requirement the following terms shall have these meanings assigned to them:

- a. **‘Company’** means British Telecommunications Plc (**“BT”**).
- b. **‘Company Representative’** means the staff of BT, or its authorised representatives or Agents.
- c. **‘Apparatus’** means all boxes, cabinets, poles and plant including any associated cabling and/or ducting owned by BT.

- (i) All works in the public highway are subject to the New Roads and Street Works Act 1991, and the Promoter of the work is legally responsible to bear the cost of safeguarding Apparatus. The “highway” includes carriageway, verges, footpaths, etc.
- (ii) Before commencing any work, or moving of heavy plant or equipment over any portion of the site the contractor shall confirm details of the Apparatus, owned, leased or rented by the Company, within the site with the Company Representative, who can be contacted as detailed in para.(xi).

Apparatus maps are also available at www.bt.com/btplant. Please contact 0800 169 3849 for a user ID and password to access the system.

- (iii) Where such details show that the works or the movement of plant or equipment may endanger the Apparatus, the Contractor must give the Company Representative at least 7 days notice of the date on which it is intended to commence such works or the movement of plant or equipment in order that the presence of any sub-surface Apparatus can be indicated by markers to be supplied by the Company and placed by the Contractor under supervision of the Company Representative. The Contractor shall ensure that all Apparatus, particularly surface running cable, is adequately protected from damage and the Engineer shall approve such protective measures. In the event of a Company marker being disturbed for any reason it shall not be replaced other than in the exact position and to its former depth unless the repositioning is carried out at the direction and under the supervision of the Company Representative.
- (iv) In the event of a Company marker being disturbed for any reason it shall not be replaced other than in the exact position and to its former depth unless the

Appendix 1J - Special Requirements in Relation to British Telecommunications PLC

repositioning is carried out at the direction and under the supervision of the Company Representative.

- (v) The Contractor shall take particular care in relation to the protection of Apparatus, where such Apparatus includes the presence within the site of optical fibre and/or co-axial cabling. The Contractor shall make every effort to avoid the disturbance of the Company's network which, if damaged, can prove costly to reinstate. The Contractor shall make every effort to avoid the disturbance of Apparatus more than is absolutely necessary for the completion of the works in accordance with the Contract.

- (vi) When excavating, or backfilling around Apparatus, the Company Representative shall be given adequate notice, which should be not less than 7 days, of the Contractor's intentions in order that he may supervise the works. The Contractor should note that the normal depth of cover for Apparatus and ducts is as follows :-

- (a) in footways 350 millimetres, which is to be maintained
- (b) in carriageways 600 millimetres, which is to be maintained.

Where the 350/600 millimetres depth of cover cannot be maintained the Contractor shall carry out the instructions of the Company Representative for the protection of the Apparatus. Where the required depth of cover cannot be maintained over cabling, such cables may have to be diverted.

- (vii) All excavation adjacent to Apparatus is to be carried out by hand until the exact extent and/or location of Apparatus is known. Mechanical borers and/or excavators shall not be used within 1.0 metres of Apparatus or 2.0 metres of any pole without the supervisory presence of a Company Representative. To prevent any movement of Apparatus during excavation, complete shuttering shall be used as directed by the Engineer if:

- (a) excavation is deeper than the depth of cover of adjacent Apparatus;
- (b) excavation is within 1.0 metres of Apparatus in stable soil; or
- (c) excavation is within 5.0 metres of Apparatus in unstable soil.

If for completion of the works the Contractor intends using any of the following:

- 2. pile driving equipment within 10.0 metres of Apparatus;
- 3. explosives within 20.0 metres of Apparatus; or
- 4. laser equipment within 10.0 metres of Apparatus

the Contractor shall advise the Company Representative, in writing, in order that any special protective measures for the Apparatus affected may be arranged.

- (viii) All Company manhole, joint box and/or other access points and chambers within the site shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and/or any further equipment required by the Company for the

Appendix 1J - Special Requirements in Relation to British Telecommunications PLC

maintenance of its Apparatus must be maintained at all reasonable times. The Contractor should particularly note the footway type chambers are not specified for carriageway loading and will need to be adequately protected and/or demolished and rebuilt under supervision of a Company Representative where such chambers are likely to be placed at risk, either temporarily or permanently, from the movement of plant and/or equipment on the site. The Company Representative shall be given reasonable access to all Apparatus and chambers when required. Where BT installs Apparatus during the works this new Apparatus shall be treated as existing Apparatus for the purpose of these Special Requirements.

- (ix) For Frame and Covers that necessitate a change in level please contact the local office. If you wish to provide recessed frames and covers they will have to be supplied by the Company's agreed supplier. The Contractor must be prepared to supply and install such frames and covers in future, and must supply names of who will be liable for future maintenance.

- (x) In the event of any damage whatsoever to Apparatus the Contractor must immediately inform BT and report the occurrence as follows :

Call BT fault reporting on **0800 800 154**

WARNING

Entry into all BT underground structures is prohibited to all unauthorised personnel.

- (xi) For free on site assistance prior to commencement of works :

Tel : 0800 917 3993

Fax : 020 8326 4050

E-mail : dbyd@bt.com

Seven working days notice is required.

(Office hours: Monday to Friday 08:00 to 17:00)

Appendix 1J - Special Requirements in Relation to British Telecommunications PLC

Compliance with the above requirements does not relieve the Contractor of any of his obligations under the Contract.

Appendix 1K - Special Requirements in Relation to Scotland Gas Networks LTD

K. Special Requirements in Relation to Scotland Gas Networks Ltd – Distribution & Transmission

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement;

“Contract” means the Agreement; and

“Engineer” means the Scottish Ministers.

1.1 Special requirements in relation to Scotland Gas Networks Ltd are as follows:

1.1.1 In these Special Requirements the following terms shall have the meanings assigned to them:

‘Company’ means Scotland Gas Networks Ltd.

‘Company Representative’ means the staff of Scotland Gas Networks Ltd or its Authorised Representatives and Agents.

‘Apparatus’ means all surface or sub-surface equipment and plant including any gas pipeline(s), main and/or service owned, leased or rented by Scotland Gas Networks Ltd.

1.1.2 Before commencing any work or moving heavy plant or equipment over any portion of the Site the Contractor shall confirm details of any Distribution and/or Transmission Apparatus within the Site with the Company Representative, who can be contacted at the following point:

Address: [REDACTED]
Scotland Gas Networks Ltd
95 Kilbirnie Street
Glasgow
G5 8JD

E-mail: [REDACTED]@sgn.co.uk

Telephone: [REDACTED]

or for on-site location of plant:

Moleseye (was Susiephone) 0800 800 333

1.1.3 Where such details show that the work or the movement of plant or equipment on the Site may endanger any Apparatus, the Contractor shall give the Company Representative at least 7 days written notice of the date on which it is intended to commence such Works or the movement of plant and equipment in order that the presence of any sub-surface Apparatus can be indicated by markers to be supplied by the Company and placed by the Contractor under the supervision of the Company Representative. The Contractor shall ensure that all Apparatus is adequately protected from damage and such protective measures shall be to the satisfaction of the Company Representative. In the event of a Company marker being disturbed for any reason it shall not be replaced other than in the exact position and to its former depth unless the repositioning is carried out at the direction and under the supervision of the Company Representative.

Appendix 1K - Special Requirements in Relation to Scotland Gas Networks LTD

- 1.1.4 In the event of a Company marker being disturbed for any reason it shall not be replaced other than in the exact position and to its former depth unless the repositioning is carried out at the direction and under the supervision of the Company Representative.
- 1.1.5 The Contractor shall carry out all works in connection with the Contract with reference to the requirements of the following publications:
- (i) Institute of Gas Engineers: IGE / SR / 18 Part 1 (1990), Communication 1947 - 'Safe Working in the vicinity of Gas Pipelines, Mains and Associated Installation' (Part 1: 'Operating at Pressures in Excess of 2 Bar').

Health and Safety Executive (HSE): HS (G) 47 - 'Avoiding danger from underground services'.

M8 Diversions, New Shawhead TRS & Associated Works

SGN Special Requirements

The Special Requirements for works in the vicinity of Scotland Gas Networks apparatus are defined with the document entitled;

"SPECIFICATION FOR SAFE WORKING IN THE VICINITY OF TRANSCO HIGH PRESSURE GAS PIPELINES AND ASSOCIATED INSTALLATION – REQUIREMENTS FOR THIRD PARTIES". Hereby referred to as T/SP/SSW/22.

This document advises what works can be carried out and what works must be notified to Scotland Gas Networks. Appropriate timescales for advance notification are outlined within the document.

Notification of works must be given to [REDACTED], Pipelines Engineering Manager, by e mail at, [REDACTED]@sgn.co.uk.

This document and the following list of additions shall be applicable to all SGN apparatus, whether live and in service, temporarily decommissioned or shown as planned on design drawings for diversions to accommodate the new M8, Baillieston to Newhouse and Associated Network Improvements, herein further referred to as the 'new road'.

In addition to this document, the following Special Requirements shall apply to the road construction works;

1. Planned diversions to SGN apparatus are based on the Specimen Design issued with the road construction tender for the new road as prepared by the Scottish Ministers and their agents.
2. No variations from the Specimen Design of the new road at interface points with existing or proposed SGN apparatus, shall be permitted. Any variation to the Specimen Design at other locations shall not affect the existing or proposed SGN apparatus or its proposed method of installation.

Appendix 1K - Special Requirements in Relation to Scotland Gas Networks LTD

3. The order of works for the SGN diversions shall be only as prescribed by SGN and shall not be subject to any outside interference.
4. 24 hour access to SGN apparatus and installations shall be maintained by the roads contractor at all times throughout the road construction works.
5. Any works associated with the new road, not covered by the Specimen Design, which impact upon SGN apparatus shall be subject to the conditions of this document, the relevant roads legislation, and the conditions outlined above.
6. Prior to any de-watering works being undertaken in the vicinity of SGN apparatus an estimated settlement profile shall be produced and submitted to SGN for acceptance a minimum of four weeks in advance of the proposed start date of the de-watering.
7. At the interface between the new M8 Motorway and the 250mm HP Gas Pipeline at Orchard Farm, the road drainage ditches shall be formed using concrete channels to prevent any future reduction in cover to the pipeline. The invert level of the drainage ditch shall not vary from that shown in the Specimen Design.
8. The road construction contractor shall install vehicle restraint barriers of a type acceptable to SGN around the curve of the realigned B7070, North Road as mitigation against vehicles leaving the road and colliding with the New Shawhead TRS.
9. SUDS pond overflow routes shall not be designed to pass across the line of SGN pipelines without prior consultation and consent from SGN plant protection department.

Scotland Gas Networks Ltd Cathodic Protection Policy T/PL/ECP1.

- 1.1.6 The Contractor shall avoid the disturbance of Apparatus more than is absolutely necessary for the completion of the Works in accordance with the Contract. In particular 'Thrust Blocks' and other such support shall NOT be disturbed without the specific written approval of the Company Representative. The Contractor should particularly note that large diameter Gas pipelines may either be:
 - (a) High Pressure pipelines frequently operating at pressures exceeding 7 bar; or
 - (b) Low, Medium and Intermediate pressure local distribution mains below 7 bar.

For differing reasons either type poses a considerable hazard to safety if damaged. The Contractor shall also note that smaller Gas distribution pipes may be of yellow plastic, cast iron, steel or other such material and that unless specifically known to the contrary any such services encountered during the course of the Works should be assumed to be Gas pipelines and treated as such in accordance with these Special

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Requirements until positively identified otherwise and the Engineer so notified in writing.

- 1.1.7 No vehicle plant or machinery shall cross, stand, operate or travel within 3.0m of any Apparatus particularly gas pipelines except as approved by the Company Representative. The Contractor shall agree his methods of working near any Apparatus with the Company Representative and ensure that any Apparatus is adequately protected from damage by the use of wooden sleeper tracks or reinforced concrete rafts at crossing points as appropriate. Temporary fencing of adequate strength shall be erected to regulate the movement of vehicles plant and machinery in the vicinity of Apparatus. All such protective measures shall be to the satisfaction of the Company Representative.
- 1.1.8 Where for the purposes of completing the Works in accordance with the Contract it is necessary to lay a new service across an existing Gas pipeline whether above or below a minimum clearance of 600 millimetres shall be left between the outside of the Gas pipeline and the new service to be installed. Under no circumstances shall a new service be laid parallel above or below a gas pipeline. Hydraulic or other form of pressure testing of any new services shall not be permitted within 6.0 metres of any Gas pipeline unless precautions have been taken involving the use of pre-installation tested pipeline having a design factor of 0.3 for a distance of 6.0 metres either side of the Gas pipeline and/or such additional precautions including but not limited to sleeving barriers and the like as the Company Representative may require in consultation with the Engineer.
- 1.1.9 The Contractor shall particularly note that Gas pipelines and other Apparatus of the Company are usually cathodically protected to Scotland Gas Networks Ltd Policy T/PL/ECP1. The Company will require interaction tests to be carried out to determine whether its own system will be adversely affected by any new service and/or its protective measures. Any work requiring the removal modification and/or movement of Apparatus shall only be carried out by the staff of the Company and/or its authorised contractors and Agents. In the event that any cathodic protection posts and/or associated Apparatus require to be removed replaced and/or moved for the purposes of the Works the Contractor shall give not less than seven days' written notice of the requirement to the Company.
- 1.1.10 When excavating or backfilling around Apparatus, the Company Representative shall be given not less than 3 days written notice, of the Contractor's intentions in order that he may supervise the Works.
- 1.1.11 Backfilling shall be in 150 millimetres layers, or as may otherwise be directed, consolidated layer by layer to the satisfaction of the Company Representative. Fill shall be free from flints, stones and carbonaceous material. Where slabbing reduces such depth, clean sand filling shall be used.
- 1.1.12 All excavation adjacent to Apparatus is to be carried out by hand until the exact extent and/or location of Apparatus is known. The Contractor shall note the following:

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- (i) Mechanical borers shall not be used within 15 metres of Apparatus; and
 - (ii) Hand held power assisted tools shall not be used within 1.5 metres of Apparatus without the supervisory presence of a Company Representative.
- 1.1.13 To prevent any movement of Apparatus during excavation, complete shuttering shall be used as directed by the Engineer if:
- (i) Excavation is deeper than the depth of cover of adjacent Apparatus;
 - (ii) Excavation is within 3.0 metres of Apparatus in Stable Soil; and
 - (iii) Excavation is within 6.0 metres of Apparatus in unstable soil.

Where excavation results in the exposing of Gas pipelines or other Apparatus, protective timber cladding shall be applied to the Gas Pipelines or Apparatus to the satisfaction of the Company Representative and shall be maintained until such excavation is reinstated and backfilled.

- 1.1.14 If for the completion of the Works the Contractor intends using any of the following:
- (i) Pile driving equipment within 15.0 metres of Apparatus (or such greater distance as may be required to ensure that the MAXIMUM peak particle velocity as measured at the Apparatus does NOT exceed 25 millimetres per second);
 - (ii) Explosives within:
 - (a) 400.0 metres of exposed Apparatus; or
 - (b) 100.0 metres of buried Apparatus.
 - (iii) Hot Works welding and the like within 15.0 metres of Apparatus; and
 - (iv) Hydraulic testing within 6.0 metres of Apparatus.

The Contractor shall advise the Company Representative, giving at least 7 days written notice, in order that any special protective measures for the Apparatus affected may be arranged. The Contractor SHALL NOT proceed with the use of any of the above without the written consent of the Company Representative.

- (iii) All Apparatus manholes and/or other access points and chambers within the Site shall be kept clear and unobstructed. Access for vehicles, winches and/or any further equipment required by the Company for the maintenance of its Apparatus, shall be maintained at all reasonable times and unless otherwise agreed in writing by the Company representative a clearance of 6.0 metres shall be allowed for such access.
- (iv) The covers to Apparatus manholes and/or other access points and chambers shall only be lifted under the direct supervision of the Company Representative. No employee of the Contractor or of any sub-contractor employed by the

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Contractor shall enter any chamber and/or Apparatus of the Company unless under the supervision of the Company Representative and in any case not before a gas check as specified by the Company Representative has been carried out in the presence of the Company Representative and such checks have shown it to be safe to enter the chamber and/or Apparatus. The Company Representative shall be given reasonable access to all Apparatus and chambers when required.

- (v) In the event of any damage whatsoever even of a minor nature to Apparatus particularly to Gas pipeline coatings and/or test leads the Contractor shall immediately inform the Engineer and report the occurrence by contacting the Company Representative. The Company Representative will arrange for repairs to be carried out.

2. Emergency Action

2.1.1 The following actions shall be taken by the Contractor in the event of a gas leak in any Apparatus:

- (i) Evacuate all personnel from the vicinity of the pipeline damage or leak.
- (ii) Remove and/or extinguish all sources of ignition for a distance of at least 200 metres in all directions from the location of the leak. This precaution shall include a ban on the use of any electrical equipment falling within this limit.
- (iii) IMMEDIATELY inform the Company, the Engineer and (if required) the Emergency services in that order.

THE EMERGENCY TELEPHONE NUMBER OF THE COMPANY IS:

0800 111 999

- (iv) Secure the area from the approach of all employee traffic and/or the general public.
- (v) Render every assistance to the Emergency Services and/or the Company as shall be requested for the purposes of mitigating damage arising from the leak and/or for the purposes of securing public safety.
- (vi) DO NOT ATTEMPT TO SEAL ANY LEAK OF GAS AT THE POINT OF DAMAGE
- (vii) Compliance with the above requirements shall not relieve the Contractor of any of his obligations under the Contract.

Appendix 1L - Special Requirements in Relation to Scottish Power PLC

L. Special Requirements In Relation To Scottish Power Plc – Distribution & Transmission

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendment:

“Contractor” means the Company as defined in the Agreement; and

“Contract” means the Agreement.

1. In these Special Requirements, specific terms shall have the meanings assigned to them:

- (i) **'Company'** means SCOTTISH POWER PLC or its successors and assigns.
- (ii) **'Company Representative'** means the Chief Civil Engineer of the said 'Company' defined at 1(i) of this Special Requirement or other duly Authorised Engineer Representative and/ or Agent appointed for the time being to act on behalf of the said 'Company'.
- (iii) **'Plant or Equipment'** means any plant equipment gear machinery apparatus or appliance or any part thereof as defined in the Construction (General Provisions) Regulations 1961 and the Construction (Lifting Operations) Regulations 1961 owned leased or rented by the said 'Company' defined at 1 (a) of this Special Requirement.
- (iv) **'Electricity Cable(s)'** means any cabling including but not limited to 'Overhead Electricity Lines' or 'Buried Electricity Cables' owned leased or rented for the purpose of electricity transmission and supply by the said 'Company' as defined at 1.(i) of this Special Requirement.
- (v) Before commencing any work or moving heavy plant or equipment over any portion of the Site owned occupied leased or rented by the Company the Contractor shall consult the Company Representative as early as possible and in any event not less than fourteen days before it is proposed to commence work to ascertain whether any Electricity Cable(s) or Plant or Equipment will be affected by the Works and to confirm details of any restrictions or requirements that the Company Representative may consider necessary for the safe carrying out of the Works. The Company Representative can be contacted at the following point:

Distribution Network

[REDACTED]

Scottish Power Network Connections

65 Fullarton Drive

Cambuslang

Glasgow

G32 8FA

Telephone: [REDACTED] , Fax: [REDACTED]

Appendix 1L - Special Requirements in Relation to Scottish Power PLC

Transmission Network

[REDACTED]

SP Energy Networks

New Alderstone House

Dove Wynd

Bellshill

ML4 3FF

Telephone: [REDACTED] , Fax: [REDACTED]

- (vi) Where such details show that the Works or the movement of plant or equipment may endanger the equipment of the Company, the Contractor must ensure that the presence of any Electricity Cable(s) Plant or Equipment can be indicated by markers to be supplied by the Company and placed by the Contractor under the supervision of the Company Representative. The Contractor shall ensure that all Electricity Cable(s) Plant or Equipment are adequately protected from damage to the satisfaction of the Company Representative.
- (vii) The Work shall be carried out in conformity with the Requirements of the Health and Safety Executive and Guidance Notes:
- (i) No. GS6 'Avoidance of Danger from Overhead Electric Cables'
 - (ii) No. GS33 'Avoiding Danger from Buried Electricity Cables'
- (viii) Except under such restrictions as the Company Representative may impose for the safety of persons and the protection of property WORKS SHALL NOT BE CARRIED OUT or cranes or other plant erected operated and/or dismantled or materials stored WITHIN THE 'PROHIBITED SPACE' WHICH IS THAT SPACE WITHIN A RADIUS OF :
- 1. 15.0 metres OF LIVE OVERHEAD ELECTRICITY LINES WHERE LINES ARE CARRIED ON STEEL TOWERS
 - 2. 9.0 metres OF LIVE OVERHEAD ELECTRICITY LINES WHERE THE LINES ARE CARRIED ON WOOD POLES
- TOGETHER WITH ANYWHERE VERTICALLY ABOVE THIS SPACE. These distances shall be maintained at all times between any Overhead Electricity Lines or anything connected to such Overhead Electricity Lines owned leased or rented by the Company.
- (ix) The Contractor and any sub-contractor employed by him shall particularly note and bring to the attention of their respective employees the danger of 'Flash-over' where as a result of the very high voltages being transmitted potentially lethal shocks can occur in close proximity to live Overhead Electricity Lines WITHOUT ANY CONTACT BEING MADE.

Appendix 1L - Special Requirements in Relation to Scottish Power PLC

- (x) Debris produced when trimming or felling trees and/or from demolition MUST NOT fall or be projected into the 'Prohibited Space'. Similarly excavation spoil must not be dumped or accumulated so as to cause infringement of the 'Prohibited Space'.
- (xi) Special care MUST be taken when using material, which shall include but not be limited to, rope wire and/or measuring tape and the like.
- (xii) The Contractor shall exercise particular care when carrying out work which involves the use of water jets or piped slurry. Liquids when being carried or used for the purposes of the Works MUST NOT be allowed to splash fall or otherwise be projected into the 'Prohibited Space'.
- (xiii) If a crane or other equipment is used crane stops fencing and warning notices shall be provided by the Contractor to ensure that there can be no encroachment on the 'Prohibited Space' by crane load or other equipment even if the crane load or equipment slips fails or overturns.
- (xiv) Portable ladders used in the vicinity of the live Overhead Electricity Lines shall be of wood or other non-conducting material and shall not be reinforced by metal attachments running along stiles of the ladders. Even ladders without reinforcement can lead to serious electrical shocks if allowed to come close to live overhead equipment and therefore special precautions must be taken to ensure that the ladder cannot slip and encroach on the 'Prohibited Space'.
- (xv) Any disturbance of or an attachment to any Plant or Equipment or Electric Cable(s) shall ONLY be carried out by the staff of the Company or its authorised contractors and/or agents.
- (xvi) Long objects, which shall include but not be limited to, pipes scaffold poles ladders and/or long handled tools or any object of such length that if carried vertically could infringe on the 'Prohibited Space' MUST BE CARRIED HORIZONTALLY.
- (xvii) Where for the purposes of completing the Works in accordance with the Contract the need arises to operate within and/or travel through the 'Prohibited Space' the Contractor shall give the Company Representative not less than twenty eight days written notice of the dates upon which it is intended to operate plant or equipment or carry out any work. The permission of the Company Representative MUST be obtained in writing BEFORE any plant or equipment is operated or work of any kind is carried out WITHIN the above distances. Such operations or work shall only be

Appendix 1L - Special Requirements in Relation to Scottish Power PLC

carried out in the presence of the Company representative unless notice shall have been obtained in writing from the Company Representative that such a presence on Site is not required.

- (xviii) In the event of the Company requiring emergency and/or maintenance work to be executed on the Electricity Cable(s) whether Overhead Electricity Lines or Buried Electricity Cables during the period of the Contract the Contractor shall afford all reasonable facilities and access to the staff of the Company or its authorised contractors and/or agents.

- (xix) Work should not be carried out in the immediate vicinity of the overhead lines during periods of poor visibility. If this is not reasonably practicable additional precautions **MUST** be taken including but not limited to the erection of appropriate barriers to ensure maintenance of the appropriate safety clearances.

- (xx) Compliance with the above requirements shall not relieve the Contractor of any of his obligations under the Contract or of the responsibility for taking every precaution to avoid risk to persons and/or damage to property.

Appendix 1M - Special Requirements in Relation to Network Rail

M. Special Requirements in Relation to Network Rail

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement; and

“Contract” means the Agreement.

Introduction

The railway is a particularly hazardous environment. The danger from train movements, overhead power lines, buried cables and electrified rails at ground level must not be underestimated. The Industry's safety policy and safety management systems require the enhancement of some society legislation and the following Special Requirements in relation to Network Rail indicate areas where the legislative requirements are strengthened.

These requirements apply to all types of work on Network Rail land i.e. surveying, inspection, construction and maintenance.

1. Definitions

In these Special Requirements, the following terms shall have the meanings assigned to them:

- a. **‘Contractor’** means any person or company to whom a contract for the whole (or any part) of the Works is let and for whom the Other Party is the Scottish Ministers.
- b. **‘Isolation’** means planned arrangements for the predetermined period for the interruption of traction electricity between defined locations.
- c. **‘Network Rail Company Standards’** means a standards document issued by Network Rail for its own use (as amended by Network Rail from time to time) in relation to the railway as a whole which applies to the performance of the Works.
- d. **‘Network Rail’s Representative’** means a person duly authorised to act on Network Rail’s behalf.
- e. **‘Other Party’** means a party which has contractual obligations to Network Rail under a works agreement in respect of the design, construction and maintenance of a bridge over or under the railway Infrastructure.
- f. **‘Possession’** means planned safety arrangements which control or prevent the normal movement of rail traffic on the Railway Infrastructure between defined locations and for a predetermined period.
- g. **‘Railway’** means the Railway Infrastructure, Network Rail’s activities in carrying out the operation, maintenance and replacement of the Railway Infrastructure, and traffic on the Railway Infrastructure.
- h. **‘Railway Infrastructure’** means Network Rail’s Infrastructure and operational track.
- i. **‘Safety Personnel’** means the personnel required to implement safe working practices on or about the Railway Infrastructure.

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- j. **'Service'** means electricity cables, gas pipes, water pipes (including piped sewage), other pipelines or signalling telecommunication plant cables and equipment irrespective of owner.
- k. **'Temporary Speed Restriction'** means a planned restriction on the speed of rail traffic between defined locations for a specific period of time.
- l. **'The Works'** means the design and construction, and where the Other Party is obliged to carry it out, the maintenance of a bridge over or under the Railway Infrastructure and all tasks incidental thereto.
- m. **'Work Site'** means any lands or other places, on, or under, in or through which the works are to be executed.

2. **Access**

2.1 **Written Authority**

Before any activity is undertaken in connection with the Works requiring access to land in the ownership of Network Rail, written authority shall be obtained from Network Rail's Representative for access to such land including the conditions under which such access will be granted.

2.2 **Procedures for Safe Access to Railway Property**

Robust procedures must be established and maintained to ensure safe access for all persons to land in the ownership of Network Rail in connection with the Works and such procedures must be submitted to Networks Rail's Representative for written approval prior to access being granted.

2.3 **Trespass**

No person shall be permitted to access land in the ownership of Network Rail beyond the agreed limits of the Works Site or access route for the duration of the Works.

2.4 **Crossing the Railway Tracks**

No person shall cross or convey constructional plant and/or materials across or along any railway track unless special arrangements are made and written consent obtained from Network Rail.

Where public rights of way exist over occupation and/or accommodation level crossings and/or bridges, these crossings shall only be used in the way that they are intended to be used by the public unless special arrangements are made and written

Only in very exceptional circumstances will the provision of a temporary level crossing be permitted. Where Network Rail is prepared to accept the provision of a temporary level crossing for constructional traffic and/or public use sufficient time must be allowed for obtaining the appropriate approvals and the period of notice required by Network Rail for making the necessary arrangements for carrying out the work.

3. **Risk Management**

Appendix 1M - Special Requirements in Relation to Network Rail

3.5 Robust Procedures for Safe Access and for Safe Working Practices

Systems, procedures and working practices that avoid risk to the Railway arising from the Works and that protect those persons involved in the execution of the Works from risks arising from the Railway must be developed and implemented in conjunction with the Contractor's Health and Safety Plan, as defined in the Construction (Design and Management) Regulations 1994 (as amended from time to time). These shall be submitted to Network Rail's Representative for written approval prior to the Works being undertaken.

Specific training (i.e. Personal Track Safety Training) and competency requirements apply to persons who work on the Railway Infrastructure or require access on or near the line. The training and competence requirements of the Works must be agreed in writing with Network Rail's Representative before access is allowed.

3.6 Services

A full survey must be undertaken to ascertain the location and nature of all services within the Works Site or access route(s). All necessary protective measure must be incorporated and implemented to the satisfaction of the Network Rail's Representative.

The degree of existing protection provided to Services on or about the Railway Infrastructure can vary. Therefore Services must not be interfered with or moved unless authorised by Network Rail's Representative.

Additional precautions must be taken by the Contractor to establish the existence, position and location of any buried Services which may be present before any excavation, or the driving of objects into the ground, is undertaken. All necessary precautions shall be taken by the Contractor to avoid damaging buried Services when excavating, surcharging and driving object into the ground.

Should any unknown or unexpected Service be discovered or uncovered during the Works, the works in the vicinity of the Service must stop, ownership must be established, Network Rail and the owner of the Service must be informed and appropriate precautions for protection must be taken prior to recommencing the works.

Any service not diverted must be supported, maintained, protected as necessary and kept in working order in its existing location.

Where temporary or permanent service diversions are necessary a method and routing specification must be agreed with Network Rail's Representative. The service provided shall be maintained at all times unless otherwise agreed with Network Rail's Representative.

Any equipment (Cable Avoiding Tools (CATS) for example) utilised to establish the position of buried Services must be of a type approved by Network Rail for use on the Railway Infrastructure.

3.7 Use of explosives

Explosives must not be used on or about the Railway Infrastructure without the prior written agreement of Network Rail. Evidence of full compliance with all current legislation relating to the acquisition, storage, keeping and use of explosives must be provided.

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3.8 Protection to Railway Equipment

Special protection to prevent damage to the tracks, signal and telecommunication equipment and all other railway equipment and contamination of track ballast during the execution of the Works shall be designed, constructed, maintained and removed on completion of the Works or as otherwise directed by Network Rail's Representative.

3.9 Confined Spaces

A considerable number of confined spaces exist on or about the Railway Infrastructure. In carrying out the Works all Scottish Ministers and contractors must fully comply with the requirements of the Confined Spaces Regulations 1997 and the associated Approved Code of Practice.

4. Programming of the Works

4.1 Possessions, Isolations and Temporary Speed Restrictions

The use of Possessions, Isolations and Temporary Speed Restrictions should be avoided to minimise disruption to railway traffic. If the need for Possessions, Isolations and Temporary Speed Restrictions cannot be avoided then they shall only be carried out on dates and at times agreed in writing by Network Rail's Representative.

The notice periods for booking of Possessions, Isolations and Temporary Speed Restrictions are dependant upon the duration and location of the Works. At the earliest opportunity advice should be sought from Network Rail's Representative as to the requirements for booking Possessions, Isolations and Temporary Speed Restrictions.

4.2 Initial Programme

An initial programme for the Works must identify the key construction activities timing constraints and indicate when Possessions, Isolations and Temporary Speed Restrictions are being sought.

4.3 Programme Development

The programme shall be developed taking account of comments from Network Rail's Representative and must be reviewed from time to time as required.

Network Rail may cancel or alter the dates and times of any agreed Possessions, Isolations and Temporary Speed Restrictions at short notice, if this proves necessary because of the overriding operational requirements of the Railway. If this occurs alternative arrangements will be made as soon as the situation permits.

5. Method Statements

Method Statements must include a comprehensive step-by-step account of how the relevant part of the Works will be executed (incorporating where necessary maintenance and subsequent removal) including:

- Working times
- Access routes and location plan

Appendix 1M - Special Requirements in Relation to Network Rail

- Plant usage and backup (including equipment and operator certificates)
- Superintendence, inspection and monitoring arrangements
- Temporary works

and as appropriate supported by:

- Design statements
- Drawings and cross sections
- Site and Ground Investigation reports including geotechnical interpretive reports
- Calculations
- Settlement, noise, vibration predictions
- Design check certificates
- Risk mitigation measures
- Storage, movement and clearance of materials and equipment
- Temporary or permanent diversion of services
- Earthing and bonding arrangements near electrified equipment
- Use of Surveying equipment

Method statements for works to be carried out in Possessions, Isolations and Temporary Speed Restrictions must also include a detailed programme for each work item, which must identify critical path activities and include contingency planning i.e. standby plant and equipment etc.

Method statements must be submitted for full consideration, comment and/or approval by Network Rail's Representative in sufficient time to allow for comments to be incorporated and revised proposals to be resubmitted as necessary.

6. Site Management

6.1 Site Representation

At the request of Network Rail, the Contractor or the Other Party must appoint a full time senior representative at the Work Site during the course of the Works.

6.2 Training

Prior to the commencement of and during the Works, familiarisation training and briefings shall be given to everyone who has access to the Works Site. Records of training and briefings are to be retained on the Works Site for inspection. Certain activities carried out during the Works may require railway specific training. These activities shall be identified and notified to the Contractor by Network Rail's Representative when the initial programme of works is submitted.

6.3 Contact Names and telephone numbers

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Prior to commencement of works on the Works Site Network Rail's Representative must be provided with a list of names and telephone numbers for personnel responsible for organising remedial action in the event of an emergency on the Work Site when the Works Site is unattended.

6.4 Accommodation for Network Rail's Representative

Serviced accommodation for the use of Network Rail's Representative shall be provided in line with the requirements of and to the satisfaction of Network Rail.

6.5 Advertisements

Advertisements must not be displayed on or about land in the ownership of Network Rail without the prior written consent of Network Rail.

6.6 Working Time

The Railway (Safety Critical Work) Regulations 1994, and the supporting guidance documents, place strict limitations upon the hours that can be worked by persons who undertake Safety Critical Work as defined by the regulations. During the Works contractors who have employees carrying out Safety Critical Work must be able to demonstrate compliance with the regulations.

6.7 Knowledge and Understanding of English

Supervisory staff on the Works must have sufficient knowledge of English (both spoken and written) to understand and relay safety information, instructions and training to all personnel.

6.8 Alcohol and Drugs

All personnel engaged in the Works must comply with Network Rail's current Policy on Alcohol and Drugs. A copy of this will be provided by Network Rail's Representative.

6.9 Clothing and Personnel Protective Equipment

All persons engaged in the Works must wear high visibility clothing of an approved colour, type and design (including retroreflective strips) acceptable to Network Rail. The personnel protective clothing must be worn correctly and kept in a clean condition.

6.10 Removal of Contractor's Employees

Network Rail may object to and require the immediate removal from the Works Site of any person thereon who in the opinion of Network Rail's Representative is not in a fit condition to carry out their duties, or is liable to endanger their own health and safety or that of others. Such persons will not be permitted further access to the Works Site without the written agreement of Network Rail's Representative.

6.11 Registers and Certificates

All registers, site diaries and certificates relevant to the Works must be available for inspection by Network Rail at the Works Site or other locations agreed with Network Rail's Representative.

6.12 Screens, Hoardings and Lights

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Temporary screens, hoardings, guard rails, barriers, fans, protective sheeting, fencing, etc, necessary to ensure the safety and protection of the Railway, the Works and all persons in the vicinity of the Works shall be designed, constructed, maintained and modified as appropriate and removed when no longer required in accordance with agreed method statements and shall not effect signal sighting, places of safety or affect or impair the vision of train drivers.

6.13 Notifications of Accidents to Network Rail

All accidents and occurrences causing damage to property or potentially affecting the safe working of the Railway; together with all Reportable Injuries and Dangerous Occurrences as defined in the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended from time to time) must be reported to Network Rail.

Details of all such events shall be recorded in a format agreed with Network Rail's Representative and a copy sent to Network Rail within 24 hours of any such event.

6.14 Storage and Clearance of plant equipment and materials

All plant equipment and materials shall be kept safe and secure when not in use and shall be located as to avoid opportunity for trespass and vandalism on or directed against the Railway or land in the ownership of Network Rail.

7. Working Methods near the Railway

7.1 Use of Plant and Equipment Adjacent to the Railway Infrastructure

No construction plant, equipment or materials shall be used or handled in such a manner that in the event of mishandling or failure they come within a vertical plane 3.0 meters from the nearest edge of the nearest rail on which trains may run or, on a station platform, within 3.0 meters of the platform edge unless previously proposed in a method statement which has been accepted by Network Rail's Representative. (refer to paragraph 8.3.1)

7.2 Stability of Track

Excavation near the Railway Infrastructure shall be in accordance with agreed method statements and not commence until all measures required to monitor and maintain the stability of the track and/or structure have been implemented and Network Rail's Representative has indicated that there is no further objection to proceeding with the excavation work.

7.3 Emergency Action

A detailed procedure for dealing with emergencies relating to the Work Site shall be produced in consultation with Network Rail's Representative. This procedure shall be accepted in writing by Network Rail before work starts and shall be reviewed and updated as circumstances vary. Key actions shall be set out on a poster to be prominently displayed in locations to be agreed with Network Rail's Representative. These must include the method of stopping trains in the event of an incident that could affect the safety of trains and/or persons and, in the case of an electrified line, how to arrange to have the current switched off.

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All staff and operatives shall be made fully conversant with this procedure. Auditable checks should be undertaken at intervals agreed with Network Rail's Representative to monitor this understanding and evidence thereof shall be maintained on site and available for inspection by Network Rail's Representative.

7.4 Rail Traffic during a Possession or Isolation

During a possession it may be necessary for engineers, trains and/or on-track machines to pass through the Work Site by prior arrangement. This will necessitate the temporary clearance of the railway track and cessation of those activities that could affect their passage or the safety of personnel on or near the line.

8. Electrified Railways

8.1 Electric Traction Equipment

Attention is drawn to the presence in some areas of electric traction equipment associated with either overhead line equipment above and at track level and/or third or fourth conductor rails at track level. Either system carries a potentially lethal electric current and the close proximity to this equipment can cause death or severe injury.

Warning notices acceptable to Network Rail shall be erected in prominent positions agreed by Network Rail's Representative.

All requirements as advised by Network Rail as to the earthing and bonding (or electrical segregation) of metalwork and foil covered sheet materials shall be complied with.

8.2 Robust Procedures for Safe Access and Safe Working Procedures

Further robust procedures (in addition to those referred to in paragraph 2.2) shall be established and maintained to ensure safe access for all persons to the Railway Infrastructure and safe working practices where the Railway Infrastructure is electrified. These procedures must be submitted to Network Rail's Representative for written approval prior to the Works being undertaken.

8.3 Precautions

Electric traction equipment is charged at high voltage and unless Isolation and permit to work arrangements are in force shall be treated as being live at all times and the following precautions shall be observed:

8.3.1 Overhead Line Equipment

Work shall not be carried out, cranes or other plant erected, operated and/or dismantled or materials stored within the prohibited space which is that space within a radius of 3.0 metres of the live overhead equipment together with anywhere vertically above this space.

The figure of 3.0 meters used in determining the prohibited space shall be increased by the length of any tool, equipment and/or material being handled. However, work on the track, platforms, walkways and

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the like below the overhead equipment is permitted without special precautions provided that tools, equipment and/or materials are not at any time raised above head height.

Long objects, which shall include but not limited to, pipes, scaffolds, poles ladders and/or long handled tools or any object of such length that if carried vertically could infringe on the prohibited space shall be carried horizontally below head height.

Electrically conductive surveying equipment shall not be used within 3.0 meters of any overhead line equipment or any rail.

Any disturbance of or any attachment to any equipment forming part of the electric traction system shall only be carried out with the full consent of Network Rail.

8.3.2 Third or Fourth Rail Electrification

Work in the vicinity of the third or fourth rail electrification will involve the provision of special protection or isolations to the equipment.

Electrically conductive surveying equipment shall not be used within 3.0 metres of any rail inducing electrified third rail.

8.4 Protective Screens

At the sole discretion of Network Rail's Representative it may be appropriate for protective screens adjacent to overhead line equipment or third/fourth rail electrification to be provided to enable certain works to continue without Isolations being required.

8.5 Crash Decks

At the sole discretion of Network Rail's Representative it may be appropriate for crash decks to be provided to enable certain works to be carried out above the Railway without Possessions and/or Isolations being required.

8.6 Temporary Access Structures

At the sole discretion of Network Rail's Representative it may be appropriate for a temporary access structure above the overhead line equipment to be provided to permit continued working without Isolations being required.

8.7 Erection and Removal of Screens and Platforms

Erection, inspection, maintenance and removal of screening and/or platforms and/or access structures shall be carried out under the protection of Isolations and Possessions unless otherwise agreed by Network Rail.

Appendix 1N - Special Requirements in Relation to Cable & Wireless Worldwide

N. Special Requirements in Relation to Cable & Wireless Worldwide

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement; and

“Contract” means the Agreement.

Special requirements in relation to Cable & Wireless Worldwide are as follows:

1. Introduction

This document sets out the procedure that will apply when Other Parties intend or are undertaking works in the vicinity of Cable & Wireless Worldwide apparatus.

2. Purpose of Document

This document provides a means by which the Cable & Wireless Worldwide specific special requirements relating to their apparatus regardless of it being situated in the public highway / road, private street, land or any other areas is made aware to Other Parties.

3. Scope

This document will be presented to Other Parties or Contractors to encourage those undertaking works within the vicinity of Cable & Wireless Worldwide apparatus to refer to and comply with. This is in order to protect where necessary the Cable & Wireless Worldwide apparatus and to avoid damage to the apparatus and loss of service.

A National Joint Utilities Group (NJUG) document NJUG 9 titled “Recommendations for the Exchange of Records of Apparatus between Utilities” provides useful reference material.

It should be noted that, where appropriate, additional information on avoiding danger from underground apparatus is contained within the HSG47 guidance book titled “Avoiding Danger from Underground Services.”

4. Cable and Wireless Worldwide Network and Apparatus

Damage to Cable & Wireless Worldwide apparatus is extremely disruptive and can be expensive to repair, especially where long lengths of cable have to be replaced.

In order to maintain the network integrity and minimise disruption to service, it is essential that disturbances are absolutely minimal. When working within the vicinity of Cable & Wireless Worldwide apparatus, extreme care is necessary in order to avoid costly repairs. The Other Parties / Contractor shall make every effort to ensure that disturbance of Cable & Wireless UK apparatus is no more than is absolutely necessary for the completion of the works in accordance with their contract. It should be noted that

Appendix 1N - Special Requirements in Relation to Cable & Wireless Worldwide

it is an offence to interfere with Cable & Wireless Worldwide apparatus without first contacting the company for advice.

5. Plant Records

It is the responsibility of the Other Parties undertaking works which may affect Cable & Wireless Worldwide apparatus to obtain all relevant Cable & Wireless Worldwide plant records from our agent Atkins Global prior to works commencing. This may be done by contacting the Atkins Global Plant Enquiries Team listed in section 19.

Plant records for such enquiries will generally be provided within 10 working days of receipt and in compliance with the New Roads and Street Works Act 1991 [NRSWA] requirements.

6. Definitions

The following definitions are applicable in this document:

1. "Apparatus" means all surface or sub-surface equipment and plant used by Cable and Wireless UK including any associated cables or ducts owned, leased or rented by Cable & Wireless Worldwide.
2. "Cable" means any polythene or other sheath containing optical fibres or metallic conductors.
3. "Depth of cover" means the depth from the surface to the topmost barrel of the duct nest, in the case of ducts encased in concrete, to the top of the concrete, and in the case of directly buried cable, the top of the cable.
4. "Jointing chamber" means any manhole, surface box or other chamber giving access to Cable & Wireless Worldwide apparatus or their network.
5. "Utility" means an organisation licensed to provide gas, water, electricity, Cable TV or telecommunications services.
6. "Developer" means an organisation licensed to develop industrial/residential premises or given licence to connect to utility apparatus.
7. "Contractor" means the individual, firm or company contracted to undertake the work for a Utility or Other Parties.
8. "Other Parties" means the Utilities, Highway Authorities, Developers, Street Authority (Roads Authority - Scotland).
9. "Site" means the location of, or in the vicinity of, the various works.

7. Requirements

Prior to commencing any work or moving heavy plant or equipment over any portion of the site, the Other Parties or Contractor shall notify Cable & Wireless Worldwide of their intentions. This may be done by contacting Cable & Wireless Worldwide, contact listed in section 19.

Appendix 1N - Special Requirements in Relation to Cable & Wireless Worldwide

Upon receipt of this notification, Cable & Wireless Worldwide will identify if their apparatus is affected. If any Cable & Wireless Worldwide apparatus is affected by the works then they will arrange for the necessary records and confirm details of Cable & Wireless Worldwide apparatus and network operated within the affected area or adjacent to the proposed work site.

7.1 Trial Excavations

Optic fibre cables are very susceptible to damage from excavation tools. They are not electrically conductive and cannot be located by radio induction methods. Once an approximate location is known, the exact location must be ascertained by means of hand dug pilot holes.

Where the work to be carried out by the Other Party or Contractor involves excavation in the vicinity of our clients' apparatus, the Other Party or Contractor shall, by trial excavation at his own expense, determine the exact location and depth of the Cable & Wireless Worldwide apparatus.

All excavations adjacent to the Cable & Wireless Worldwide apparatus are to be carried out by hand until the extent and /or location of the apparatus is known.

All excavation work shall be executed in accordance with the current issue of Health and Safety series booklet HSG47, Avoiding danger from underground services.

8. Depths of Cover

The Other Party or Contractor should note that the minimum depths of cover for Cable & Wireless Worldwide apparatus which shall be maintained together with specified separation requirements. Where the minimum depths of cover specified by Cable & Wireless Worldwide cannot be maintained, the Other Party or Contractor shall at their own expense, carry out the instructions of Cable & Wireless Worldwide requirements for the protection or diversion of their apparatus.

The Other Party or Contractor should have particular regard to the possibility of encountering Cable & Wireless Worldwide apparatus (including ducts and cables), at depths of cover other than that reported.

Surface cables (such as cables on bridges or walls) which are liable to be placed in danger from the Other Parties or Contractors works shall be protected, at the Other Parties expense, as directed by the Cable & Wireless Worldwide representative.

9. Separation

Reference should be made to HSG47 to ensure that adequate separation is achieved. The following details outline the specific requirements of Cable & Wireless Worldwide and capture the HSG47 requirements:-

9.1 High Voltage Cables

Appendix 1N - Special Requirements in Relation to Cable & Wireless Worldwide

High voltage single core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 500 millimetres.

High voltage multi-core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 350 millimetres.

In exceptional circumstances where the above clearances cannot be maintained, the separating distance may be reduced to a minimum of 175 millimetres. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the High Voltage cable and the Company Apparatus, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 millimetres from the concrete.

9.2 Low Voltage Cables

Low voltage cables of less than 1000 V shall have a minimum clearance from Company Apparatus of 180 millimetres. In exceptional circumstances where the above clearance cannot be maintained, the separating distance may be reduced to a minimum of 75 millimetres.

In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the services, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 millimetres from the concrete.

9.3 Ancillary Electrical Apparatus

Lamp posts, traffic posts and other such ancillary electrical apparatus shall have a minimum clearance of 150 millimetres from underground Company Apparatus and 600 millimetres clearance from above ground Company Apparatus.

9.4 High pressure gas mains and other Undertakers plant/equipment

High pressure gas mains shall have a minimum clearance of 450 millimetres from Company Apparatus. All other undertakers' plant and equipment, when running in parallel with Company Apparatus, shall have a minimum clearance of 200 millimetres. Where gas mains cross Company Apparatus, the minimum clearance shall be 200 millimetres. All other undertakers' plant and equipment, when running across Company Apparatus, shall have a minimum clearance of 100 millimetres. NJUG Volume 1, Guidelines on the positioning and colour coding of underground utilities' apparatus refers.

9.5 Other Undertakers plant

Other undertakers' plant and equipment which runs in parallel with Company Apparatus shall have a minimum clearance of 200 millimetres. All other undertakers' plant and equipment when running across Company Apparatus, shall have a minimum clearance of 100 millimetres.

Appendix 1N - Special Requirements in Relation to Cable & Wireless Worldwide

9.6 Tramways

Each separating distance shall be individually agreed with the Company Representative.

10. Jointing Chambers

10.1 Protection

Footway type jointing chambers are not designed to withstand carriageway loadings.

Where such chambers are liable to be placed at risk, either temporarily or permanently, from vehicular traffic or from the movement of plant and/or equipment, they will need to be adequately protected. Alternatively, they may have to be demolished and rebuilt to carriageway standards, at the Other Parties or Contractors expense under supervision of Cable & Wireless Worldwide representative.

All Cable & Wireless Worldwide jointing chambers and / or other access points shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and / or any further equipment required by Cable & Wireless Worldwide for the maintenance of its apparatus, must be maintained at all reasonable times.

10.2 Access

The covers to Cable & Wireless Worldwide jointing chambers and / or apparatus shall only be lifted by means of the appropriate keys and under the direct supervision of a Cable & Wireless Worldwide representative. Other Parties or Contractors shall not enter any Cable & Wireless Worldwide jointing chamber and / or apparatus unless under the supervision of a Cable & Wireless Worldwide representative and in any case not before the mandatory gas test has been carried out in the presence of Cable & Wireless Worldwide representative and such checks have shown it to be safe to enter the Cable & Wireless Worldwide chamber and / or apparatus. The Other Parties or Contractors shall be given reasonable access to Cable & Wireless Worldwide apparatus and chambers when required.

11. Notification Periods

Where the Other Parties or Contractors works or the movement of plant or equipment may endanger Cable & Wireless Worldwide apparatus, the Other Party or Contractor shall give Cable & Wireless Worldwide at least 7 working days notice in writing of the intended date to commence operations.

No excavation should be made without first consulting the relevant Cable and Wireless UK apparatus layout drawings, which will be made available from the Cable and Wireless UK agent Atkins Global on request and allowing 28 working days for processing the relevant drawings. However, should this not be possible, direct contact should be made to the Atkins Global Bristol Plant Enquiries Team as soon as possible to assess the situation.

Appendix 1N - Special Requirements in Relation to Cable & Wireless Worldwide

When excavating, moving or backfilling (including use of Foamed Concrete for Reinstatements – FCR) around Cable & Wireless Worldwide apparatus, Cable & Wireless Worldwide shall be given adequate prior written notice of the Other Parties or Contractors intentions, in order that the works may be adequately supervised. Such notice shall not be less than 3 working days.

12. Excavation and Backfill

All excavations adjacent to Cable & Wireless Worldwide apparatus are to be carried out by hand until the extent and or location of the Cable & Wireless Worldwide apparatus is known.

Use of mechanical borers and / or excavators shall not be used without the supervisory presence of a Cable & Wireless Worldwide representative or a given exemption.

Shuttering of the excavation or support to Cable & Wireless Worldwide apparatus, at the Other Parties or Contractors expense, shall be used as directed by the Cable & Wireless Worldwide representative.

At least 7 working days notice must be given to Cable & Wireless Worldwide in order that any special protective measures may be required to protect Cable & Wireless Worldwide apparatus, at the Other Parties or Contractors expense, when equipment such as pile driving, explosives, laser cutting high powered RF equipment or RF test gear, is to be used in conjunction with the works.

Other Parties or Contractors are advised to refer to the National Joint Utilities Group [NJUG] 4 Document which outlines the identification of small buried mains and services.

13. Foam Concrete

If foam concrete is being used as the backfill material, it shall not be used either above or within 500 millimetres of any Company Apparatus. A suitable material in accordance with the specification for the Reinstatement of Openings in Highways shall be substituted.

14. Attendance of Company Representative

If a situation requires the attendance on site of a Cable & Wireless Worldwide representative for a continuous period of more than 6 hours, suitable facilities shall be provided by the Other Party or Contractor, at their expense, to meet the office and ablution requirements. If a situation arises that requires urgent attention Cable & Wireless Worldwide will endeavour to attend site within 2 hours for all other occasions arising, 24 hours.

15. Damage Reports

In the event of any damage whatsoever occurring to our Cable & Wireless Worldwide apparatus, the Other Party or Contractor shall immediately inform Cable & Wireless Worldwide by contacting their 24/7 number, (for contact details please refer to section 19).

Appendix 1N - Special Requirements in Relation to Cable & Wireless Worldwide

All relevant costs of any subsequent repair and / or removal of the Cable & Wireless Worldwide apparatus shall be charged to the Other Party or Contractor, irrespective of who affects the repair.

The above requirements do not relieve the Other Party or Contractor of any of their obligations under their contract.

16. References

The following reference materials relate to this document:

Document Number	Document Title
Volume B	Generic Documents for Tendered and Period Contract Works for C&W.
ISBN 0 10 542291 6	New Roads and Street Works Act 1991
0 7176 1744 0	HSG47 Avoiding Danger from Underground Services
NJUG 4	The Identification of Small Buried Mains and Services
NJUG 7	Recommended Positioning of Utilities' Apparatus for New Works on New Developments and in Existing Streets
NJUG 9	Recommendations for the Exchange of Records of Apparatus Between Utilities
ISBN 0-11- 552546-7	Code of Practice for Recording of Underground Apparatus in Streets (010503)

17. Document History

Issue Status	Summary of Changes from Previous Version	Date
5	Major revision to incorporate omitted items from client's document SOE 4461 Issue 7	January 2003
Issue 6	Change doc reference from NRSWS to OSM	March 2002

18. Office Address Details

Glasgow Office Cable & Wireless Worldwide Pavillion 1	Manchester Office Cable & Wireless Worldwide Unit M
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Appendix 1N - Special Requirements in Relation to Cable & Wireless Worldwide

1 – 2 Berkeley Square 99 Berkeley Street Glasgow G3 7HR	Atlas Business Park Wythenshawe Manchester M22 5RR
Bristol Office Cable & Wireless Worldwide Unit 1, Tamar Road St Philips Bristol BS2 0TY	

Appendix 1N - Special Requirements in Relation to Cable & Wireless Worldwide

14. Street Works Team Contacts for Cable & Wireless Worldwide

Function	Name	Job Title	Address	Phone	Mobile	Fax	Email Address
Co-ordination	[REDACTED]	National Street Works Manager	Glasgow Office (see above)	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]@cw.com
Customer Complaints	CMC	Customer Management Centre	n/a	08456 021585	n/a	n/a	n/a
Liability Claims	[REDACTED]	Damage Claims Coordinator	Glasgow Office (see above)	[REDACTED]	n/a	n/a	claims@cw.com
Diversionsary Works C2/C3	Atkins Global	Plant Enquiries Team	Atkins Global, PO Box 290, 500 Aztec West, Almondsbury, Bristol, BS32 4RZ.	01454 662881	01454 663330	n/a	osm.enquiries@atkinsglobal.com
Diversionsary Works C4 / Escalations	[REDACTED]	Diversionsary Works Controller	Smale House, Floor 2E, 114 Great Suffolk Street, London,	[REDACTED]	n/a	n/a	c3requests@cw.com

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Function	Name	Job Title	Address	Phone	Mobile	Fax	Email Address
			SE1 OSL				
Emergencies (24 Hour) Faults and Defects	CMC	Customer Management Centre	n/a	0845 3014123	n/a	n/a	n/a
Plant Enquiries - Cable & Wireless Inc. Thus Plc, (formerly Scottish Telecom), Your Comms (formerly Norweb), Energis & Mercury Communications	Plant Enquiries Team	n/a	Atkins Global PO Box 290 500 Aztec West, Almondsbury, Bristol, BS32 4RZ	01454 662881	n/a	01454 66333 0	Osm.Enquiries@atkinsglobal.com

Appendix 10 - Special Requirements in Relation to the Coal Authority

O. Special Requirements in Relation to the Coal Authority

The terminology used in these special requirements shall have the meanings assigned to them as detailed in this section with the following amendments:

“Contractor” means the Company as defined in the Agreement;

“Authority” means the Coal Authority or its successors and assigns;

“Authority’s Representative” means the staff of the Coal Authority or its Authorised Representatives and Agents;

“Agreements” means the **Permission to Enter or Disturb Coal Authority Mining Interests** and the **Incidental Coal Agreement** (also known as an **Agreement to Dig and**

Carry Away Coal in the course of Non-Mining Activities) as issued by the Coal Authority, further details for which can be found at the end of this document;

“Coal Mining Interests” means coal, coal mine workings or coal mine entries owned by the Authority;

“Contractor” means the person or persons appointed to carry out works which would involve disturbance of, entry to or removal of Coal Mining Interests.

Special requirements in relation to the Coal Authority are as follows:

(It should be assumed that all coal, coal mine workings and coal mine entries are owned by the Authority unless the Authority confirms otherwise)

2. Before commencing any work, which would involve disturbance of, entry to, or removal of, Coal Mining Interests, the Contractor shall ensure that such Agreements with the Authority as permit the proposed works are in place.

3. The Authority’s Representative shall so far as is reasonably possible have free access for inspection at all times to the area where work is being carried out in the vicinity of Coal Mining Interests which are encountered in the course of the works.

4. The Contractor and/or any sub-contractor employed by him shall not enter any Coal Mining Interests without the prior written consent of the Authority. The Contractor shall also be in possession of up-to-date mining information relevant to the site and where necessary seek appropriate professional advice.

5. The Contractor shall take all necessary measures for the protection and securing of any Coal Mining Interests on the site whether of a disused nature or not for the prevention of accidents and to prevent any unauthorised access or accidental losses or damage thereto.

6. The Contractor and/or any sub-contractor employed by him shall not discharge nor permit to be discharged any water or other liquid or tip any condemned or surplus material or waste of any kind whatsoever into any Coal Mining Interests on the site.

7. The Contractor will ensure that appropriate equipment is available on the Site and that procedures are adopted to detect the presence or emission of gas in harmful concentrations from any part of the Site, and will take appropriate action to protect

Appendix 10 - Special Requirements in Relation to the Coal Authority

members of the public and workmen. Furthermore, the Contractor will take all appropriate measures to prevent mine gases migrating into neighbouring properties as a result of the works and, where it is necessary to ensure public safety, extend the gas monitoring regime to include offsite properties.

8. The Contractor and/or any sub-contractor employed by him shall take all necessary precautions to ensure that any Coal Mining Interests on the site are fully protected from any accidental falls or flows of liquids and/or materials, which by themselves or in combination with any existing deposited materials and/or liquids could cause or aggravate pollution of underground water and/or could cause harm to persons or property on the surface or sub-surface and/or impede any operations of the Authority.

9. Should it be found necessary to significantly change the method of treatment, design or specification of the works from that contained in the application to the Authority (a copy of which will be provided to the Contractor by the Council), the prior permission of the Authority and the Council must be obtained by extension or modification to the Permit before proceeding (such permission not to be unreasonably withheld).

10. All hazards directly or indirectly caused by the permitted works and the proposed remedial actions should be reported to the Coal Authority Permission Department as soon as reasonably practicable.

11. On completion of the works the Contractor shall leave any Coal Mine Interests on the site in a safe and secure condition sealed as necessary such that access is not possible to any person and this shall be to the satisfaction of the Authority. Information constituting a completion report shall be forwarded to the Authority fully detailing the work carried out along with any interpretation, recommendations, issues or constraints identified therein.

12. Compliance with the above requirements shall not relieve the Contractor of any obligations under the contract or current UK Legislation.

13. The carrying out of the above "Special Requirements" and work shall in no way involve the Coal Authority in any expense or release those parties holding the Agreement from compliance with the Agreements own terms and conditions.

IMPORTANT NOTE:

Where development is proposed over areas of coal and past coal workings at shallow depth, the Coal Authority is of the opinion that applicants should consider wherever possible removing the remnant shallow coal. This will enable the land to be stabilised and treated by a more sustainable method; rather than by attempting to grout fill any voids and consequently unnecessarily sterilising mineral reserves.

At the planning stage Developer's should be mindful of the Coal Authority's published policy in respect to building over or within the zone of influence of mine entries. Such construction, which should be avoided if at all possible, requires the Coal Authority's prior approval through the Permissions Process.

Any development site that falls wholly or partially within a Coal Authority defined 'Coal Mining Development Referral Area' will require submission of a 'Coal Mine Risk

Appendix 10 - Special Requirements in Relation to the Coal Authority

Assessment' in support of any planning application. (House holder planning applications are exempt from this requirement).

INFORMATION:

Details for applications for Permission to Enter or Disturb Coal Authority Mining Interests can be found on the Coal Authority's website at :-

<http://coal.decc.gov.uk/en/coal/cms/services/permits/permits.aspx>

Details for applications for Incidental Coal Agreements can be found on the Coal Authority's website at :-

http://coal.decc.gov.uk/assets/coal/Incidental_Coal_Application.pdf

Plans showing the Coal Mining Development Referral Area's, the requirements of a Coal Mining Risk Assessment, and matters relating to any Planning Application can be found on the Coal Authority's website at :-

<http://coal.decc.gov.uk/en/coal/cms/services/planning/strategy/strategy.aspx>

“Guidance on Managing the Risk of Hazardous Gases when Drilling or Piling Near Coal” can be obtained from the Coal Authority's website at:-

<http://coal.decc.gov.uk/Media/viewfile.ashx?FilePath=coal/whatwedo/4860-guidance-on-managing-the-risk-of-hazardous-gases-w.pdf&filetype=4&minwidth=true>

[REDACTED]

The Coal Authority
Licensing & Permissions Manager, Scotland, NW & NE England
200 Lichfield Lane
Mansfield
Notts.
NG18 4RG

Tel: [REDACTED]

Fax: [REDACTED]

Email: [REDACTED]@coal.gov.uk

Appendix 1P - Special Requirements in Relation to Traffic Scotland

P. Special Requirements in Relation to Traffic Scotland

1. In this Special Requirement, the following terms shall have the meanings assigned to them:

'Authority' means Transport Scotland , Trunk Roads Network Management.

'Traffic Scotland Maintenance Contractor' means the specialist service contractor(s) employed by the Authority Representative to maintain the Traffic Scotland system and provide services to ensure the continuous operation of Traffic Scotland Apparatus.

'Traffic Scotland Apparatus' means all surface or sub-surface equipment, any electrical power or communication service and any associated cabling and ducting owned, leased or rented by the Authority for the purposes of the provision of 'Traffic Scotland Facilities'.

'Traffic Scotland Facilities' comprise:

- i. Variable Message Signs (VMS)
 - ii. Emergency Telephones
 - iii. Overhead Motorway Signalling Units (MSU)
 - iv. Motorway Access Control Unit (MAC)
 - v. Closed Circuit Television Cameras
 - vi. Verge mounted Hazard Warning Signals
 - vii. Sub-surface and overhead traffic detection equipment. (Traffic Scotland detectors)
 - viii. ATDC traffic detection solely for SRTDb (ATDC detectors)
 - ix. Control and Road Information Centres.
 - x. Local Journey Time Signs and Cameras
2. Before commencing any work or moving heavy plant or equipment over any portion of the site, the Contractor shall confirm with the Authority details of the Traffic Scotland Apparatus installed within the site. The Authority can be contacted at the following point:

Address: Traffic Scotland Control Centre (TSCC)

Transport Scotland (Trunk Roads Network Management)

Forth Bridge Crossing

Forth Place

South Queensferry

EH30 9SF

Appendix 1P - Special Requirements in Relation to Traffic Scotland

Contact: To be advised

Telephone: To be advised

Fax: To be advised

3. The approximate positions of Traffic Scotland Apparatus within the site, where known, will be shown on contract drawings or Traffic Scotland record drawings, but no guarantee can be given as to the accuracy of these drawings. Traffic Scotland Apparatus, other than Traffic Scotland and ATDC loop detector sites are usually, but not exclusively, located within the verges, central reserves, and road crossings or in equipment above the carriageway. Traffic Scotland and ATDC loop detectors are installed in the carriageway, and on motorways in the hard shoulder.
4. On Motorways, Trunk and Principal Roads, where there is closely spaced (within one and a half kilometres) Traffic Scotland Apparatus, the main and local distribution communication and power cables run continuously within either or both verges and through road crossings to provide connections between Traffic Scotland Apparatus. At some locations the cabling will run within the central reserve and even outside the road boundary. On Trunk and other Roads where the Traffic Scotland Apparatus is not closely spaced, the cabling required to provide connections between equipment is located within the verge, central reserve or road crossings. These are local to the Traffic Scotland Apparatus and the positions of associated electrical power and communication services. Based on geographical areas the cable will be installed in ducts or be directly buried. Typically the depth of the ducts containing the cables should not have less than 600mm cover, except at road crossings where the minimum cover should be 900mm. However, there are locations, particularly within verges, where this minimum cover has not always been achieved and care should be taken as ducts and or cables may be located at any depth. However, it should be noted that not all cabling in the ducted cable areas are installed in ducts. Traffic Scotland and ATDC detectors are cut into carriageways and are normally visible on the surface but such visibility cannot always be guaranteed as detectors may have been installed before laying of the road wearing course.
5. The Contractor shall be responsible for locating the actual position of all Traffic Scotland Apparatus and shall mark the locations prior to any work commencing in the vicinity of Traffic Scotland Apparatus. The manner of such marking shall be dependent on the surface under which the Apparatus lies and such marking shall at all times be clearly visible to all parties working on the site. The Contractor shall notify all operatives, including sub-contractors employed by the Contractor, of the presence of Traffic Scotland Apparatus, particularly cabling, together with the need to exercise extreme care and attention to ensure the prevention of any damage.
6. The Contractor shall ensure that Traffic Scotland Apparatus remains operational at all times, with the exception of Apparatus that the Authority has previously agreed in writing can be isolated. Traffic Scotland Apparatus shall only be disconnected or made non-operational following, and at times indicated by, written agreement with the Authority.

Appendix 1P - Special Requirements in Relation to Traffic Scotland

7. The Contractor shall be responsible for ensuring that Traffic Scotland apparatus is protected from damage throughout the period of the works. The method of protection shall be such that the Contractor shall provide access to all Traffic Scotland Apparatus for the repair or inspection of any damage, within two hours of its notification, unless, the Authority specifically requires or agrees a different period of time for such access. Depending on the extent of damage or the fault being repaired, access for vehicles, winches, cable drums and/or any further equipment may be required by the Authority. Access to all chambers and cabinets forming part of the Traffic Scotland Apparatus shall be kept clear and unobstructed at all times. The Contractor shall particularly note that surface mounted cabling should not under any circumstances be aerially suspended without the prior consent of the Authority and then only in the manner specified by the Authority.
8. The Contractor shall not open any Traffic Scotland cabinet or isolate any Traffic Scotland electrical supply, other than to make a situation safe, without the consent of the Authority. Any disconnection or reconnection of Traffic Scotland Apparatus shall be undertaken by the Authority or the Traffic Scotland Maintenance Contractor.
9. Where Contract or Traffic Scotland record drawings, or site investigations undertaken by the Contractor, show that the Works, or access to these Works, will be within 20 metres of Traffic Scotland Apparatus, the Contractor shall give the Authority written notice of the date on which access to the works is required. The Contractor shall include with the aforementioned written notice a method statement detailing how they propose to comply with the Traffic Scotland Special Requirements. The Authority will review the Method Statement to ensure that it adequately protects the Traffic Scotland Apparatus, or minimises the risk of its damage to the satisfaction of the Authority. Where it does not provide this assurance the Authority shall advise that the Contractor requires to undertake additional measures to be compliant with these Special Requirements.
10. The Contractor shall give 24 hours written notice to the Authority before commencing any work within 1.5m of the line of surface or sub-surface Traffic Scotland Apparatus. Where the work comprises excavations, the Contractor shall ensure that all such excavations take place in the presence of one of the Contractor's supervisors who has knowledge of the location of Traffic Scotland Apparatus. The identity of the Contractor's supervisor for the purposes of such excavation shall be made known to the Authority.
11. All excavations adjacent to Traffic Scotland Apparatus shall be carried out by hand until the exact extent and/or location of such Apparatus is known. Where excavations cannot be carried out by hand mechanical excavators may be used using methods which shall not damage Traffic Scotland Apparatus. Mechanical borers, mechanical post drivers or any such method of work which can damage sub surface Traffic Scotland Apparatus shall not be undertaken by the Contractor within 5 metres of any surface Traffic Scotland Apparatus or within 1.5 metres of sub surface Traffic Scotland Apparatus.
12. To prevent any movement of Traffic Scotland Apparatus during excavation, adequate protective and stabilising measures shall be provided by the Contractor if:
Excavation is deeper than the depth of cover adjacent to Traffic Scotland Apparatus.
Excavation is within 1.5m of Traffic Scotland Apparatus in stable soil.
Excavation is within 5.0m of Traffic Scotland Apparatus in unstable soil.

Appendix 1P - Special Requirements in Relation to Traffic Scotland

If the Contractor intends using any of the following:

- i. Pile driving equipment within 10m of Traffic Scotland Apparatus
- ii. Explosives within 20m of Traffic Scotland Apparatus

Then the Contractor shall advise the Authority, giving at least 7 days written notice, to permit any special protective measures for the affected Traffic Scotland Apparatus to be arranged.

13. In the event of any damage whatsoever to the Traffic Scotland Apparatus, the Contractor shall immediately inform the Authority. If damage to Traffic Scotland Apparatus occurs when the Authority is not available (normally outwith 0900 and 1700 Monday to Friday) the Contractor shall immediately inform the Traffic Scotland Maintenance Contractor at 01236 794019.
14. Once any damage has been reported, as required by paragraph 13, then the co-ordination and supervision for the repair of the damage shall become the responsibility of the Authority. If the damage results in any Traffic Scotland Apparatus no longer being operational then a temporary repair shall whenever feasible, be undertaken by the Traffic Scotland Maintenance Contractor to ensure the Traffic Scotland Apparatus is made operational at the earliest possible time. If practical and achievable the aforementioned temporary repair shall be undertaken in a permanent manner provided that the permanent repair can be undertaken within the same timescale as the temporary repair. The Contractor shall make plant and labour resources available at the Site to the Authority, for the purpose of carrying out non specialised work, (e.g. ducting, cabinet foundations, removal of damaged Traffic Scotland Apparatus), required to complete the temporary or permanent repair as detailed in this paragraph.
15. Once the Traffic Scotland Maintenance Contractor has completed a temporary repair the Authority shall make arrangements to have the permanent repair completed by the Traffic Scotland Maintenance Contractor. The Contractor shall make plant and labour resources available on Site to the Authority for the purpose of carrying out the non specialised work (e.g. ducting, cabinet foundations, removal of damaged Traffic Scotland Apparatus) necessary to complete the permanent repair as detailed in this paragraph. The Contractor shall be responsible for the reinstatement of Traffic Scotland Detectors in accordance with the Highway Agency Specification for the Installation of Detector Loops with modifications as specified by the Authority. If the Contractor has not arranged to reinstate Traffic Scotland Detectors within 14 days of damage occurring, the Authority shall have the right to carry out the repair and re-charge all costs to the Contractor.
16. The standard of permanent repair shall comply with the Traffic Scotland Apparatus standards applicable at the time of the damage occurring. In general terms
no joints shall be allowed in any of the existing cabling infrastructure.
all cabling shall be installed in ducts
the Traffic Scotland documentation and database records shall be marked up and all tests documented
replacement equipment shall be the agreed equivalent of that being replaced.

Appendix 1P - Special Requirements in Relation to Traffic Scotland

17. The Contractor shall provide to the Authority a written record of all works undertaken on Traffic Scotland Apparatus within 14 days of such works being completed. These records shall include the position of all new and repositioned Traffic Scotland Apparatus plus any associated test certificates. If tests and investigations prove the Traffic Scotland Apparatus has been damaged, the Authority shall provide such evidence to the Contractor. The co-ordination and supervision of the repair of the damage shall be responsibility of the Authority and the Traffic Scotland Maintenance Contractor shall undertake the repair.
18. Within one year of the completion of the works, the Authority retains the right to undertake tests and investigations to satisfactorily prove that Traffic Scotland Apparatus has not been damaged as a result of the works. If these tests and investigations prove that the Traffic Scotland Apparatus has not been damaged, the costs of such tests and investigations shall be the responsibility of the Authority.
19. These requirements do not relieve the Contractor of any of his obligations under the Contract.
20. The Contractor shall be responsible for advising the Traffic Scotland Control Centre of traffic conditions at or on the approach to the site, as detailed elsewhere within the Contract Documentation. Whether or not there are specific requirements for the Contractor to provide traffic condition information, the Contractor shall immediately inform the Traffic Scotland Control Centre (0141 300 8100), of any circumstances causing or will cause unplanned congestion associated with the works.
21. All of the Authority and Traffic Scotland Maintenance Contractor costs associated with the co-ordinating, supervision and making temporary and/or permanent repair, shall be the responsibility of the Contractor. All costs in connection with these works shall be the responsibility of the Contractor.
22. It should be noted that Trafficmaster have traffic detection equipment which may be either verge (normally coloured blue) or over-bridge mounted. The Authority has no maintenance responsibility for Trafficmaster equipment.

Appendix 1Q - Special Requirements in Relation to Thus PLC

Q. Special Requirements in Relation to Thus Plc

Not required – Included now within Appendix 1N Special Requirements in Relation to Cable & Wireless Worldwide.

Appendix 1R - Special Requirements in Relation to Virgin Media

R. Special Requirements in Relation to Virgin Media

Terminology used in these special requirements shall have the meanings assigned to them as follows:

“Contractor” means the Company as defined in the Agreement; and

“Contract” means the Agreement

Special requirements in relation to the Virgin Media are as follows:

- (i) Terminology used in these Special Requirements shall have the meanings assigned to them as follows:
- a. **‘Company’** means Virgin Media;
 - b. **‘Company Representative’** means the staff Virgin Media or its Authorised Representatives and Agents;
 - c. **‘Apparatus’** means all surface or sub-surface equipment and plant including any associated cabling and/or ducting owned, leased or rented by Virgin Media;
 - d. **‘Promoting Authority’** means the principal who has the power to undertake the proposed works and exchange notices with the Company;
 - e. **‘Engineer’** means the representative of the Promoting Authority who has the right to agree changes in design and/or costs that the Company may require; and
 - f. **‘Contractor’** means the company engaged in executing the works on behalf of the Promoting Authority.
- (ii) This Special Requirement only applies to schemes where the following conditions have been met.
- a. The scheme is a ‘Major Highway Works’ within the meaning of section 8 (3) of The New Roads and Streets Works Act 1991.
 - b. The Promoting Authority has agreed with the Company in relation to the necessary diversionary works:
 - (i) A detailed specification
 - (ii) A detailed estimate
 - (iii) Time slots and notice periods
 - (iv) A provisional programme for the scheme
 - c. The Promoting Authority has given the Company formal notice of their intention to execute the works.
 - d. The Promoting Authority has appointed an Engineer.
- (iii) Before commencing any work or moving heavy plant or equipment over any portion of the Site the Contractor shall confirm details of the Apparatus, owned, leased or rented by the Company, within the Site with the Company Representative, who can be contacted at the following point:-
- Address: National Plant Enquiries Team
Unit1/1A Courtauld Rd
Basildon, Essex
-

Appendix 1R - Special Requirements in Relation to Virgin Media

SS13 1ND

plant.enquiries.team@virginmedia.co.uk

- (iv) Where such details show that the works or the movements of plant or equipment may endanger the Apparatus of the Company, the Contractor must give the Company Representative at least 14 days notice of the date on which it is intended to commence such works or the movement of plant and equipment. In these cases, the presence of any sub-surface apparatus should be indicated by suitable markers to be supplied and placed by the Contractor under the supervision of a Company Representative. The contractor shall ensure that all Company Apparatus is adequately protected from damage and such protective measures shall be approved by the Company Representative and the Engineer.
- (v) In the event of a marker being disturbed for any reason, it shall not be replaced other than in the exact position and to its former depth unless the repositioning is carried out at the direction and under the supervision of a Company Representative.
- (vi) The Contractor shall take particular care in relation to the protection of all Company Apparatus, where such Apparatus includes the presence within the Site of optical fibre and/or co-axial cabling. The Contractor should particularly note that the damage to such Apparatus is extremely disruptive to the company network and costly to reinstate.
- (vii) The Company has a statutory duty to supply telephony services to their customers including the emergency '999' telephone service. Each time the Contractor damages the Company's Apparatus and interrupts supply, the Company's customers are seriously inconvenienced and left without the emergency '999' service. The Company will seek to recover all costs incurred in effecting repairs to apparatus damaged by the Contractor.
- (viii) The Contractor shall make every effort to avoid the disturbance of Apparatus more than is absolutely necessary for the completion of the Works in accordance with the Contract.
- (ix) When excavating around, moving or backfilling around Apparatus, the Company Representative shall be given adequate notice, which shall not be less than 3 days, of the Contractor's intentions in order that the Company Representative may supervise the works. The Contractor should note that the guideline depth of cover for Apparatus and ducts is as follows:-
 - a. In carriageways: Telecommunications cable duct routes, single or multiple way 450mm or 600mm
 - b. In footways: Telecommunications cable duct routes, single or multiple way 250mm or 350mm.

Depth of cover can vary due to specific site conditions and safe digging practice must be observed

Appendix 1R - Special Requirements in Relation to Virgin Media

Where the standard depth of cover cannot be maintained the Contractor shall carry out the instructions of the Engineer for the protection of Company Apparatus and such actions that follow from the Engineer's instruction shall be supervised by a Company Representative.

With regard to excavation in the vicinity of Company Apparatus and the ducts the Contractor should have particular regard to the possibility of reduced cover and the encountering of such Company Apparatus and ducts at depths of cover less than that given at a and b above.

- (x) All excavations adjacent to Company Apparatus shall be carried out by hand until the exact extent and/or location of Company Apparatus is known. Mechanical borers and/or excavation shall not be used within 1.0 metre of Company Apparatus without the supervisory presence of a Company Representative. To prevent any movement of Company Apparatus during excavation, complete shuttering shall be used as directed by the Engineering if :-

- (i) Excavation is deeper than the depth of cover of adjacent Company Apparatus.
- (ii) Excavation is within 1.0 metre of Company Apparatus in stable soil.
- (iii) Excavation is within 5.0 metres of Company Apparatus in unstable soil

If, for the completion of the Works, the Contractor intends using any of the following:-

- (i) Pile driving equipment within 100 metres of Apparatus
- (ii) Explosives within 200metres of Apparatus
- (iii) Laser equipment within 10.0 metres of Apparatus

- (xi) The Contractor shall advise the Company Representative, giving at least 14 days written notice, in order that any special protective measures for the Apparatus affected may be arranged.

- (xii) All Company manholes, joint boxes and/or other access points and chambers within the Site shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and/or any further equipment required by the Company for the maintenance of its Apparatus, must be maintained at all reasonable times. The Contractor should particularly note that footway chambers are not specified to withstand carriageway loadings. Where such chambers are likely to be places at risk, either temporarily or permanently, from the movement of plant and/or equipment on the Site they will need to be adequately protected and/or demolished and rebuilt under the supervision of a Company Representative.

- (xiii) The covers to Company chambers and/or Apparatus shall only be lifted by means of appropriate keys obtained from the Company Representative and under the direct supervision of the Company Representative. No employees of the Contractor or of any sub-contractor employed by the Contractor shall enter any chamber and/or Apparatus of the Company unless under supervision of the Company representative. In any case covers must not be lifted before the Company required mandatory gas check has been carried out in the presence of the Company Representative and such check has show it to be safe to enter the chamber and/or Apparatus and chambers when required.

- (xiv) In the event of any damage whatsoever to Company Apparatus the contractor shall immediately inform the Engineer and report the occurrence to the Company on telephone number 0870 888 3113 – option 2.

Appendix 1R - Special Requirements in Relation to Virgin Media

- (xv) The above requirements shall not relieve the Contractor of any of his obligations under the Contract.

Appendix 1S - Special Requirements in Relation to Scottish Canals

S. Special Requirements in Relation to Scottish Canals

Contact Details

[REDACTED]
Senior Project Manager
Canal House
1 Applecross Street
Glasgow, G4 9SP
[REDACTED]@scottishcanals.co.uk
[REDACTED]
[REDACTED]

Appendix 1T - Special Requirements in Relation to Trafficmaster

T. Special Requirements in Relation To Trafficmaster

Terminology used in these special requirements shall have the meanings assigned to them as follows:

“Contractor” means the Company as defined in the Agreement; and

“Contract” means the Agreement

Special requirements in relation to Trafficmaster Plc are as follows:

1. In these Special Requirements, the following terms shall have the Meanings assigned to them:

- a. **‘Company’** means Trafficmaster Plc
- b. **‘Company’s Representative’** means the Infrastructure Maintenance Manager or Designated Staff of the said ‘Company’ defined at 1.a of these Special Requirements or its Authorised Representatives and/or Agents.
- c. **‘Apparatus’** means all surface or sub-surface equipment and plant including any associated cabling and/or ducting owned, leased or rented by the said ‘Company’ defined at 1.1 of these Special Requirements.

Before commencing any work or moving heavy plant or equipment over any portion of the site, the contractor shall confirm details of the Apparatus within the site with the Company’s Representative, who can be contacted at the following offices:

ADDRESS	TELEPHONE NUMBER
Infrastructure Maintenance Team Trafficmaster Plc University Way Cranfield Beds MK43 0TR	01234 759000

1. Where such details show that the works or the movement of plant or equipment may endanger any Apparatus the Contractor shall give the Company’s Representative at least three months written notice, detailing how the works will affect apparatus, of the date on which it is intended to commence such works or the movement of plant or equipment in order that the presence of any sub-surface Apparatus, particularly surface running cabling, is adequately protected from damage and such protective measures shall be to the satisfaction of the Company’s Representative.
2. In the event of a Company marker being disturbed for any reason it shall not be replaced other than in the exact position and to its former depth unless the

Appendix 1T - Special Requirements in Relation to Trafficmaster

repositioning is carried out at the direction and under the supervision of the Company's Representative.

3. The Contractor shall take particular care in relation to the protection of the Apparatus, where such Apparatus includes the presence of cameras and equipment boxes. The Contractor should particularly note that damage to such Apparatus is extremely disruptive to the Company network and costly to reinstate. The Contractor shall make every effort to avoid the disturbance of Apparatus more than is absolutely necessary for the completion of the works in accordance with the contract.
4. In the event that the planned works will result in a need for Apparatus to be removed, the Contractor must provide the Company with at least three months notice in order to prepare the Apparatus for removal by the Company's Representative. In each case details of the planned works, including time scales, must be submitted to the Company in order to minimise disruption of the Company network.
5. When excavating, moving or backfilling around Apparatus, the Company's Representative shall be given adequate written notice, which shall not be less than one week, of the Contractor's intentions in order that he may supervise the works. The Contractor should note that the normal depth of cover for Apparatus and ducts is as follows:
 - (a) In carriageways 600 millimetres, which is to be maintained.
 - (b) In footways 450 millimetres, which is to be maintained.

Where the 600/450 millimetres depth of cover cannot be maintained the Contractor shall carry out the instructions of the Overseeing Organisation for the protection of Apparatus and such actions that follow from the Overseeing Organisation's instruction shall be supervised by the Company's Representative. Where the required depth of cover cannot be maintained over cabling, such cables as are affected shall be enclosed and protected in UPVC ducts to be supplied by the Company as directed by the Company's representative.

With regard to excavation in the vicinity of any Apparatus and ducts the Contractor shall have particular regard to the possibility of reduced cover and the encountering of Apparatus and ducts of cover less than that given at (i) and (ii) above.

6. All excavation adjacent to Apparatus shall be carried out by hand until the exact extent and/or location of Apparatus is known. Mechanical borers and/or excavators shall not be used within 1.0 metres of Apparatus without the supervisory presence of the Company's Representative. To prevent any movement of Apparatus during excavation, complete shuttering shall be used as directed by the Overseeing Organisation if:
 - (a) Excavation is deeper than the depth of cover of adjacent Apparatus.
 - (b) Excavation is within 1.0 metres of Apparatus in stable soil.
 - (c) Excavation is within 5.0 metres of Apparatus in unstable soil.

If after the completion of the works the Contractor intends to use any of the following:

- a. Pile driving equipment within 10.0 metres of Apparatus.
- b. Explosives within 20.0 metres of Apparatus.
- c. Laser equipment within 10.0 metres of Apparatus.

Appendix 1T - Special Requirements in Relation to Trafficmaster

The Contractor shall advise the Company's Representative, giving at least two weeks notice, in order that any special protective measures for the Apparatus affected may be arranged.

7. The covers to Company Apparatus shall only be opened by means of appropriate keys obtained from the Company's Representative and under the direct supervision of the Company's Representative. No employee of the Contractor or any sub-contractor employed by the Contractor shall enter any Apparatus of the Company unless under the supervision of the Company's Representative. The Company's Representative shall be given reasonable access to all Apparatus and Chambers when required.
8. In the event of any damage whatsoever to the Apparatus, the Contractor shall immediately inform the Company, the Overseeing Organisation and (if required) the Emergency Services.
9. Compliance with the above requirements shall not relieve the Contractor of any of his obligations under the contract.