

Kier Highways Project No: 570129A
Client Reference No:
570129A M4 J19 & M32 J1&J3 Lighting Replacement
Pre-Construction Information

	Yes	No
Are Works to be carried out under the Commission / Contract Health and Safety Plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Scheme notifiable under the CDM Regulations 2015?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1. Last longer than 30 working days and have more than 20 workers simultaneously at any point in the project;	<input type="checkbox"/>	<input type="checkbox"/>
2. Exceed 500 person days	<input type="checkbox"/>	<input type="checkbox"/>

Project type as categorised by GG104 (if applicable to contract / delete in not required)	A
<small>* If applicable GG104 will determine the Kier Highways minimum Scheme Principal Designer (Scheme PD) level. Refer to SHEMS-FOR-HIG-S-055 for GG104 type categorisation and minimum Scheme PD level. Type A projects the Design Team Lead, Type B projects the Senior Manager, Type C projects the Service Director.</small>	

This document has been produced in accordance with the recommendations and requirements of the Construction (Design and Management) Regulations 2015.

Prepared by: Designer	
Reviewed by; Design Team Lead	
Accepted by: Scheme PD	

'Reviewed by' & 'Accepted by'



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Site Specific Hazards Identified in Design		
<p><i>ONLY</i> include significant and unusual hazards that a competent contractor would need to know, could not reasonably foresee, or are likely to be difficult to manage effectively.</p> <p>Note – Consideration to be given to all ‘populations’ affected, Workers, Users, Other Parties.</p>		
Activity	Residual Hazard	Comments
All Activities	Working on or adjacent to the live carriageway	Traffic Management and buildability reviewed with Contractors during the design stage to ensure the scheme can be built safely. Traffic management designed by the CWF Contractor in accordance with Chapter 8. Works to be carried out under full slip closure.
All Activities	Public Risk	Contractor to erect warning and prohibition signs. Public access routes within the site limits shall be closed with signed diversion routes in place. Consider additional controls as pedestrian barrier and extra personnel. Unauthorised pedestrian use of motorway is prevalent at night at this location.
Workers	Lifting chambers manual handling	Hazard cannot be designed out. Contractor will be aware of the hazard and safe working method. Avoid where possible
All activities	Covid 19	Government guidelines on social / physical distancing to be incorporated into RAMS

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1 Project Description

Scope of Works

The proposed GPR, duct survey and trial pits works are essential to develop a LED luminaire and column replacement schemes for M4 Junction 19 & M32 Junction 1 & 3.

This project is to undertake electrical and communication duct survey across the area shown on drawing(s):

- HE570129A-KIER-VGN-M4_J19_SR-DE-EO-0100_11;
- HE570129A-KIER-VGN-M32_J1_SR-DE-EO-0100_11;
- HE570129A-KIER-VGN-M32_J3_SR-DE-EO-0100_11.

To undertake trial pits and cores across the area shown on drawing(s):

- HE570129A-KIER-VGN-M4_J19_SR-DE-EO-0100_13;
- HE570129A-KIER-VGN-M32_J1_SR-DE-EO-0100_13;
- HE570129A-KIER-VGN-M32_J3_SR-DE-EO-0100_13.

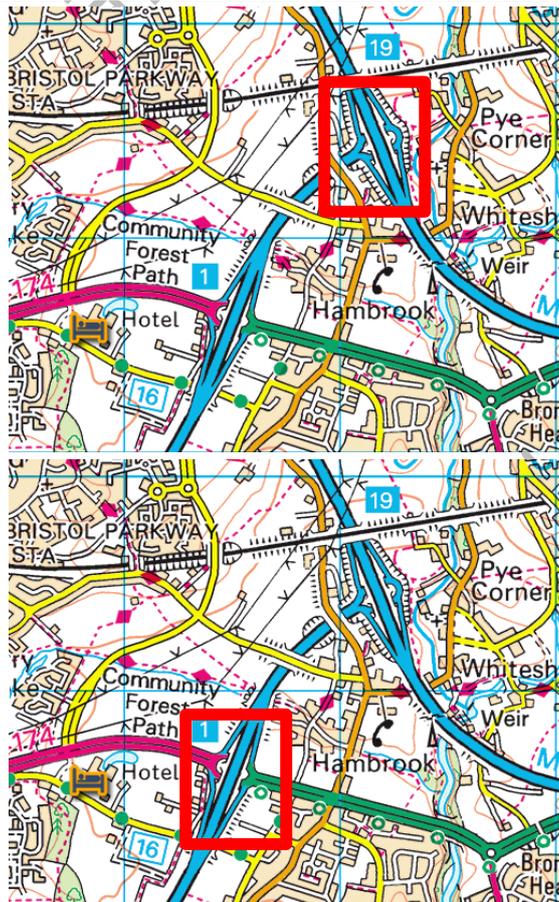
To undertake Ground Penetrating Radar survey shown on drawing(s):

- HE570129A-KIER-VGN-M4_J19_SR-DE-EO-0100_14;
- HE570129A-KIER-VGN-M32_J1_SR-DE-EO-0100_14;
- HE570129A-KIER-VGN-M32_J3_SR-DE-EO-0100_14.

Location

M4 J19

M32 J1



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1 Project Description

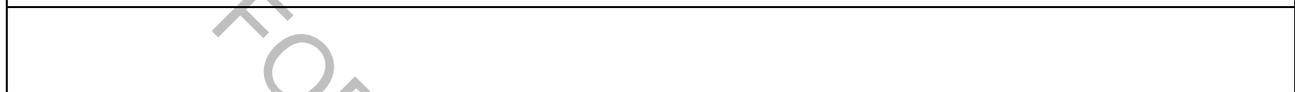
M32 J3



See Location Plan listed in current Document Issue Sheet or Appendix A.

Site Address M4 J19, M32 J1 & M32 J3

Site Photographs



MP M32 J3	From	1.3	To	1.9	OSGR M32 J3	From	360204, 174326	To	360641, 174580
M32 J1	From	6.7	To	7.4	M32 J1	From	363369, 178277	To	363631, 178920
M32 J0	From	7.9	To	8.2	M32 J0	From	363971, 179344	To	364140, 179463
M4 J19		181.5		182.1	M4 J19		364230, 179177		364018, 179712

Traffic Management

Traffic Management will be junction and lane closure (TBC by HE)

M4 – J19 Traffic flow on slip roads;
 Northbound Exit Slip Road: 4,233
 Northbound Entry Slip Road: 29,994
 Southbound Exit Slip Road: 28,626
 Southbound Entry Slip Road: 13,908
 Motorway slip road is National Speed Limit (70mph)

M32 – J1 Traffic flow on slip roads;
 Northbound Exit Slip Road: 13,986
 Northbound Entry Slip Road: 18,525
 Southbound Exit Slip Road: 17,658
 Southbound Entry Slip Road: 13,259
 Motorway slip roads are National Speed Limit (70mph)
 Gyratory is 50mph

M32 – J1 Traffic flow on slip roads;
 Southbound Exit Slip Road: 16,332
 Slip Roads are 40mph / 30mph



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1 Project Description					
Anticipated Working Hours, subject to Traffic Counts			Day / Night working TBC by HE		
Mobilisation Period	TBC	Anticipated start date	TBC	Anticipated end date	TBC

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2 Scheme Management and Contact Details		
Local Authority (South Gloucestershire Council)		
South Gloucestershire Council Council Offices, Badminton Rd, Yate, Bristol BS37 5AF	Contact	
	Position	
	Tel	01454 868000
	Email	https://www.southglos.gov.uk/transport-and-streets/streets/highway-asset-management/

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3. Scheme Specific Requirements			
	Yes	No	Comments
Does an H&S file exist?		X	
Site Welfare	X		<i>Principal contractor to provide</i>
Security / Segregation		X	
Are there any other projects taking place in the vicinity?		X	?
Are there any restrictions on vehicle movements?	X		<i>All site vehicles (incl. delivery vehicles) must abide by the TM requirements and regulations</i> 1. <i>enter and exit site from the dedicated points;</i> 2. <i>Comply with the designated site safety speed limits;</i> <i>All vehicles within Traffic Management shall comply with the conspicuity requirements of Chapter 8.</i>
Are there any restrictions on deliveries, waste collection, or storage?	X		<i>No deliveries to take place unless Traffic Management is in place.</i> <i>No waste shall be stored on site.</i> <i>Waste Carriers Licence required</i>
Are there any parking restrictions?	X		<i>All vehicles and plant within the works area shall be parked in a safe area clear of access and egress points.</i> <i>All vehicles and plant shall be removed from the carriageway prior to removal of traffic management.</i> <i>No Private vehicles are allowed on site</i>
Height Restrictions	X		
Overhead Cables	X		<i>Positions of overhead cables are shown on contract drawings. Safe working heights to be determined in accordance with GS6 where required.</i>
Structures	X		<i>See Appendix F.</i>
Will fire precautions be required?		X	<i>Suitable fire precautions shall be in place and in accordance with the Contractors hot works permit.</i>
Are emergency procedures and means of escape required?		X	<i>The Contractor shall ensure that emergency procedure plans are in place and all staff have been inducted.</i> <i>One lane will remain serviceable throughout the works duration for emergency services at all times.</i> <i>Nearest A&E hospital</i> <i>Bristol Royal Infirmary</i> <i>Upper Maudlin St</i> <i>Bristol</i> <i>BS2 8HW</i>
Are there any areas in or around the site classified as no-go areas?		X	<i>No site personnel shall enter the safety zones or tapers within the extents of the traffic management unless trained and competent for installation/removal/maintenance of TM.</i> <i>Sub-Contractor's Method Statements and Risk Statements shall contain suitable risk control to protect pedestrian workers and plant operators.</i>

3. Scheme Specific Requirements			
	Yes	No	Comments
Are there any noise restrictions?	X		Residents adjacent to sites, Noise consideration. However, <i>unlikely to be applicable due to the nature of the works.</i>
Are temporary works required?		X	<i>Unlikely to be applicable due to the nature of the works.</i>
Are there any vibration restrictions?		X	<i>Unlikely to be applicable due to the nature of the works.</i>
Are there any poor or hazardous ground conditions		X	<i>Unlikely to be applicable due to the nature of the works.</i>
Are there any unstable structures?		X	<i>Unlikely to be applicable due to the nature of the works.</i>
Are there any areas classed (existing or designed) classed as confined spaces?		X	<i>Unlikely to be applicable due to the nature of the works.</i>
Are there any smoking restrictions?	X		<i>No smoking is allowed on site. Designated smoking areas to be confirmed during site inductions.</i>
Any environmental constraints identified?		X	<i>Unlikely to be applicable due to the nature of the works.</i>

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Materials and Substances with Health and/or Safety Hazards

Asbestos

If Asbestos Containing Materials are found during construction, all works shall stop immediately and the area is to be isolated from the workforce. The Contractor must inform the Principal Contractor, who will then implement the necessary emergency response procedures in line with the Company policy.

Under no circumstances will the Contractor attempt to remove any Asbestos Containing Materials without prior consent from the overseeing organisation.

Lead

Scope of Works are unlikely to encounter lead. Consider existing paint coatings to bridge beams.

Tar based pavement/surfacing

Risk of Tar in lower pavement layers. Has testing been carried out. PAK Tests are indicative only and need confirming by laboratory testing. Has Tar been confirmed? Is further testing required? Tar is unlikely to be encountered in surface course. If Tar has been identified locations should be clearly marked on the schemes drawings.

Leptospirosis/Weil's disease / Psittacosis *Contact with highway drainage during resurfacing works potential risk of Weil's disease. The Contractor is to ensure sufficient welfare facilities are in place at all times. All appropriate PPE must be worn at all times.*

Any instances of illness / sickness on site should be reported to the Site Manager/Principal Contractor Representative immediately and the persons affected should seek medical advice.

Covid-19 pandemic

The Contractor is to ensure they are protecting their workforce and minimising the risk of spread of infection. They must comply with the latest Government advice on working safely during coronavirus covid-19 which is currently available at <https://www.gov.uk/guidance/working-safely-during-coronavirus-covid-19/construction-and-other-outdoor-work>. Further guidance is given in the Construction Leadership Council's "Construction Sector – Site Operating Procedures". The latest version may be found at <http://cic.org.uk/important-documents.php>

The health and safety requirements of any construction activity must not be compromised. If an activity cannot be undertaken in line with social distancing being implemented, or by exception, safely, without risk and mitigating measures then it shall not take place.

M4 J19 Existing Services

4.1 Existing Services				
Refer to STATS plans listed in Appendix D				
Statutory Undertaker	Not Present	Over head	Under ground	Comments
Electricity				
400/132kV [pylons]		X		Adjacent to works area
66kV	X			
33kV		X		Adjacent to works area
11kV			X	Adjacent to works area
240/415Volts			X	Within works area, locate prior to works
Water (Foul and Potable)				
Public Foul			X	Within works area, locate prior to works
Pressurised Foul	X			
Public Combined Gravity			X	
Pressurised Combined	X			
Culverted Watercourse	X			
Water Main			X	Within works area, locate prior to works
Aqueduct	X			
Communications				
Communications				
British Telecom				
British Telecom			X	Within works area, locate prior to works
National Grid				
National Grid				
Transco				
LP Mains	X			
MP Mains	X			
IP Mains	X			
LHP Mains	X			
NHP Mains	X			
Government Pipelines				
Government Pipelines	X			
Fisher German Pipelines				
Fisher German Pipelines	X			
Energis				
Energis	X			
Motorway Communication				
Motorway Comms			X	Within works area, locate prior to works
Street Lighting				
Street lighting			X	Information not available for accurate location of Street Lighting cables.
Highway Drainage				
Other				
SSE			X	Adjacent to works area
Vodafone			X	Adjacent to works area
Virgin Media			X	Adjacent to works area
Railway			X	Adjacent to works area
Instalcom			X	Adjacent to works area
Zayo			X	Adjacent to works area

M32 J1 Existing Services

4.2 Existing Services		Refer to STATS plans listed in Appendix D		
Statutory Undertaker	Not Present	Over head	Under ground	Comments
Electricity				
400/132kV [pylons]		X		Within works area, unaffected by works
66kV	X			
33kV	X			
11kV		X	X	Within works area, locate prior to works
240/415Volts			X	Within works area, locate prior to works
Water (Foul and Potable)				
Public Foul			X	
Pressurised Foul	X			
Public Combined Gravity	X			
Pressurised Combined	X			
Culverted Watercourse	X			
Water Main			X	Within works area, locate prior to works
Aqueduct	X			
Communications				
Communications	X			
British Telecom				
British Telecom			X	Within works area, locate prior to works
National Grid				
National Grid	X			
Transco				
LP Mains	X			
MP Mains	X			
IP Mains	X			
LHP Mains	X			
NHP Mains	X			
Government Pipelines				
Government Pipelines	X			
Fisher German Pipelines				
Fisher German Pipelines	X			
Energis				
Energis	X			
Motorway Communication				
Motorway Comms			X	Within works area, locate prior to works
Street Lighting				
Street lighting			X	Information not available for accurate location of Street Lighting cables.
Highway Drainage				
Other				
Virgin Media			X	Within works area, locate prior to works

M32 J3 Existing Services

4.3 Existing Services		Refer to STATS plans listed in Appendix D		
Statutory Undertaker	Not Present	Over head	Under ground	Comments
Electricity				
400/132kV [pylons]	X			
66kV	X			
33kV	X			
11kV	X			
240/415Volts			X	Within works area, locate prior to works
Water (Foul and Potable)				
Public Foul			X	Within works area, unaffected by works
Pressurised Foul	X			
Public Combined Gravity	X			
Pressurised Combined	X			
Culverted Watercourse			X	Beneath SB slip, locate prior to works
Water Main			X	Within works area, locate prior to works
Aqueduct	X			
Communications				
Communications	X			
British Telecom				
British Telecom			X	Within works area, locate prior to works
National Grid				
National Grid	X			
Transco				
LP Mains			X	Within works area, locate prior to works
MP Mains	X			
IP Mains	X			
LHP Mains	X			
NHP Mains	X			
Government Pipelines				
Government Pipelines	X			
Fisher German Pipelines				
Fisher German Pipelines	X			
Energis				
Energis	X			
Motorway Communication				
Motorway Comms	X			
Street Lighting				
Street lighting			X	Within works area, locate prior to works
Highway Drainage				
			X	Within works area, locate prior to works
Other				
City Fibre			X	Within works area, locate prior to works
Rail			X	Within works area, locate prior to works
Virgin Media			X	Within works area, locate prior to works

5. Health and Safety file requirements

All information will be produced in an electronic format. The format of the electronic data issued is to be as follows: All documents and product data sheets are to be in PDF format, drawings are to be in PDF and AutoCAD DWG format.

The Principal Contractor shall collate all appropriate information as it becomes available, and this shall subsequently be collated in the File. The Principal Contractor is to implement an early procedure that advises contractors and materials suppliers of the detailed requirements for this record information. The health and safety file will be created and/or updated in accordance with the requirements of the IAN105/08.

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Appendix A - Location Plans

Locations shown on drawing(s):

HE570129A-KIER-VGN-M4_J19_SR-DE-EO-0100_01;

HE570129A-KIER-VGN-M32_J1_SR-DE-EO-0100_01;

HE570129A-KIER-VGN-M32_J3_SR-DE-EO-0100_01.

Appendix B - Construction Drawings

See Document Issue Sheet for list of current scheme drawings, alternately list below.

Reference	Rev	Title

Appendix C – Existing Records and As-Built Drawings

See Document Issue Sheet for list of existing records and as-built drawings, alternately list below.

Reference	Title
HE570129A-KIER-HLG-M4_J19_SR-DE-EO-0100_12	M4 J19 Asset Plan
HE570129A-KIER-HLG-M32_J1_SR-DE-EO-0100_12	M32 J1 Asset Plan
HE570129A-KIER-HLG-M32_J3_SR-DE-EO-0100_12	M32 J3 Asset Plan

Appendix D - Statutory Undertaker Drawings

See Document Issue Sheet for list of statutory undertaker drawings, alternately list below.

Title	Company
HE570129A-KIER-HLG-M4_J19_SR-DE-EO-0100_02	Western Power Distribution
	Wessex Water
	BT
HE570129A-KIER-HLG-M32_J1_SR-DE-EO-0100_02	Virgin Media
	Wales and West Utilities
	Vodafone
HE570129A-KIER-HLG-M32_J3_SR-DE-EO-0100_02	Bristol Water
	Colt
	Instalcom
	City Fibre

Appendix E – Overhead cables

See GS6 Measurements and Essential Safety Data, or alternately list below.

Overheads cables are identified and clearly marked on the contract drawings.

Appendix F - List of Structures

Structure	Type	Location Ref	Str key	OSGR
Old Gloucester Road Overbridge	Overbridge	M4 J19		363968,179350
Hambrook Interchange	Overbridge	M4 J19		364134, 179490
Filton Lane Underpass	Underbridge	M32 J1		363626, 178933
Filton Lane Interchange	Overbridge	M32 J1		363520, 178659
Faber Farm Underpass	Underbridge	M32 J1		363372, 178268
Parkway Retaining Wall	Retaining Wall	M32 J3		360276, 174405
Merstham Footbridge	Overbridge	M32 J3		360931, 180034
Frome Culvert	Culvert	M32 J3		360139, 174170
Sign Gantry	Gantry	M32 J3		360577, 174516
New Stapleton Road Railway	Overbridge	M32 J3		360654, 174574

Appendix G - Asbestos Action Plans

Refer to SWDSC Asbestos Control Checklists for:

M4 J19;

M32 J1;

M32 J3.

037 AAP M32 Whole Length