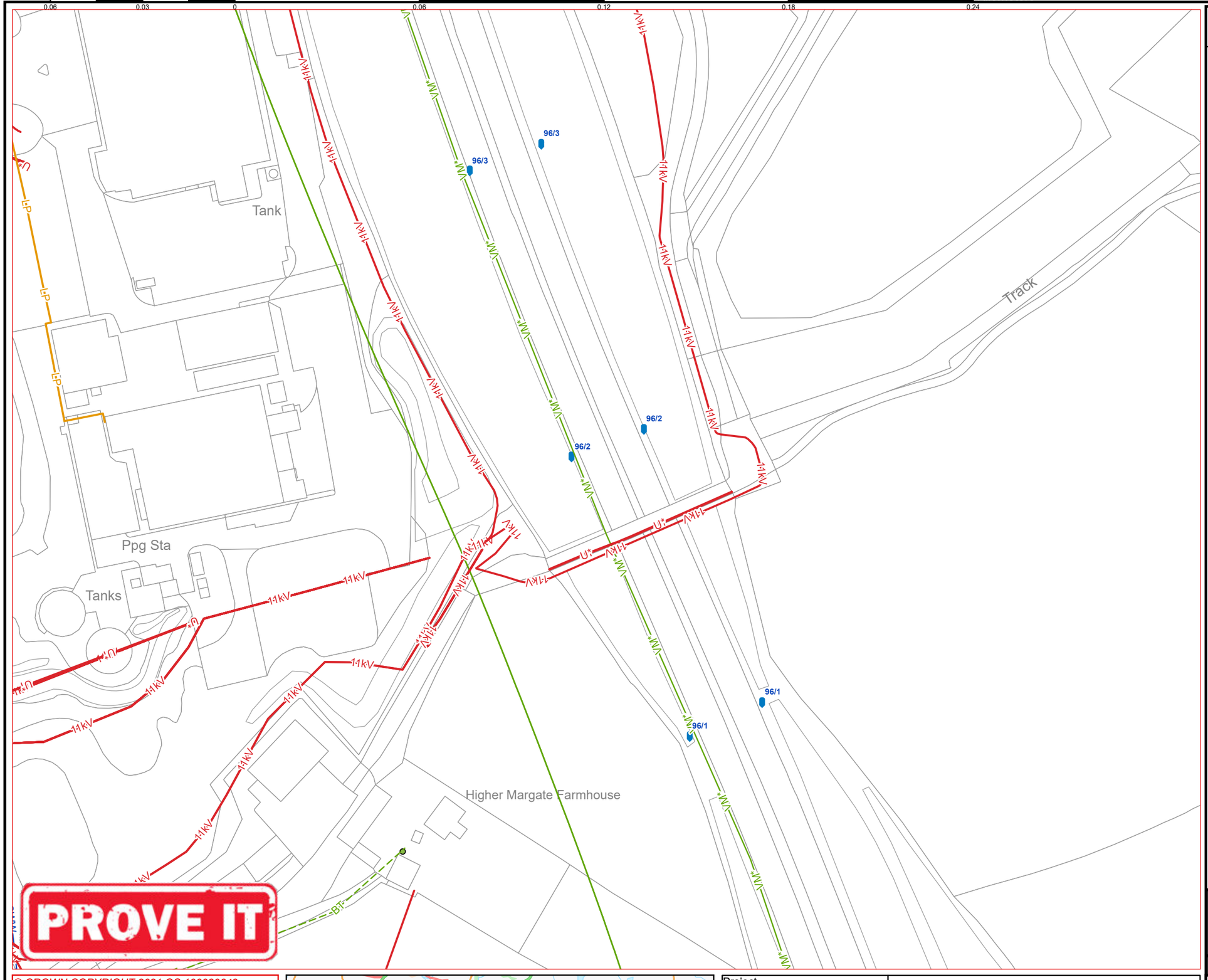
N

Kilometers

0.06 0.03 0 0.06 0.12 0.18 0.24



- - This is a SMART PDF - -
You can switch legend items on and off on the layer list to the top left of your PDF Reader

This data is produced from the PROVE-IT C2 STATS application, created and maintained by the Kier GIS department. Whilst every effort has been taken to ensure the accuracy of the data contained within this map, the information contained should not be used for any purpose other than as a general guide to the location of existing services. The download data herein is intended to fulfill the CDM C2 initial search requirements. Does not include highways street lighting currently. Please contact GIS@Kier.co.uk with any queries.

Exact positions & depths must be obtained by excavation trial holes.

Warranties and Liability: Kier Highways Limited does not accept any liability what so ever for the accuracy of the data contained within this drawing. The information provided in this drawing is based upon the information supplied and collected from numerous sources, whose accuracy cannot be guaranteed. While we make all possible efforts to ensure that the content provided herein is correct and up to date, however, we offer no guarantee as to its accuracy.

To be read in conjunction with C2 data from the PROVE-IT Datastore

PAS256 Split by layer type

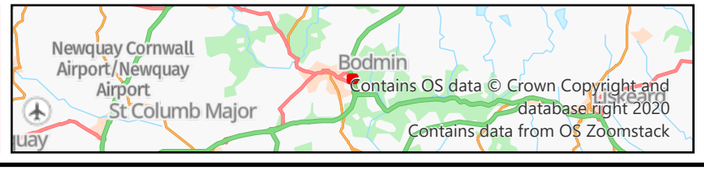
Gas
- LP Low Pressure

Electricity
- 11kV 11kv,Underground
- LV* Low voltage,Unknown
- U* Unknown,Unknown

Telecoms
- BT British Telecom,Overground
- VM* Virgin Media,Unknown
- <all other values>

Water
- SWW South West Water

Point Layers
- Telecoms
- Marker Posts



Project
C2 STATS Service Locations

Square Reference:	A30-0598
Coordinates:	208710E 66620N m
Valid until:	2021-08-19

AGENT KIER

CLIENT highways england

ORIGINAL DRAWING SIZE: A3 | SCALE: 1:1,250 |

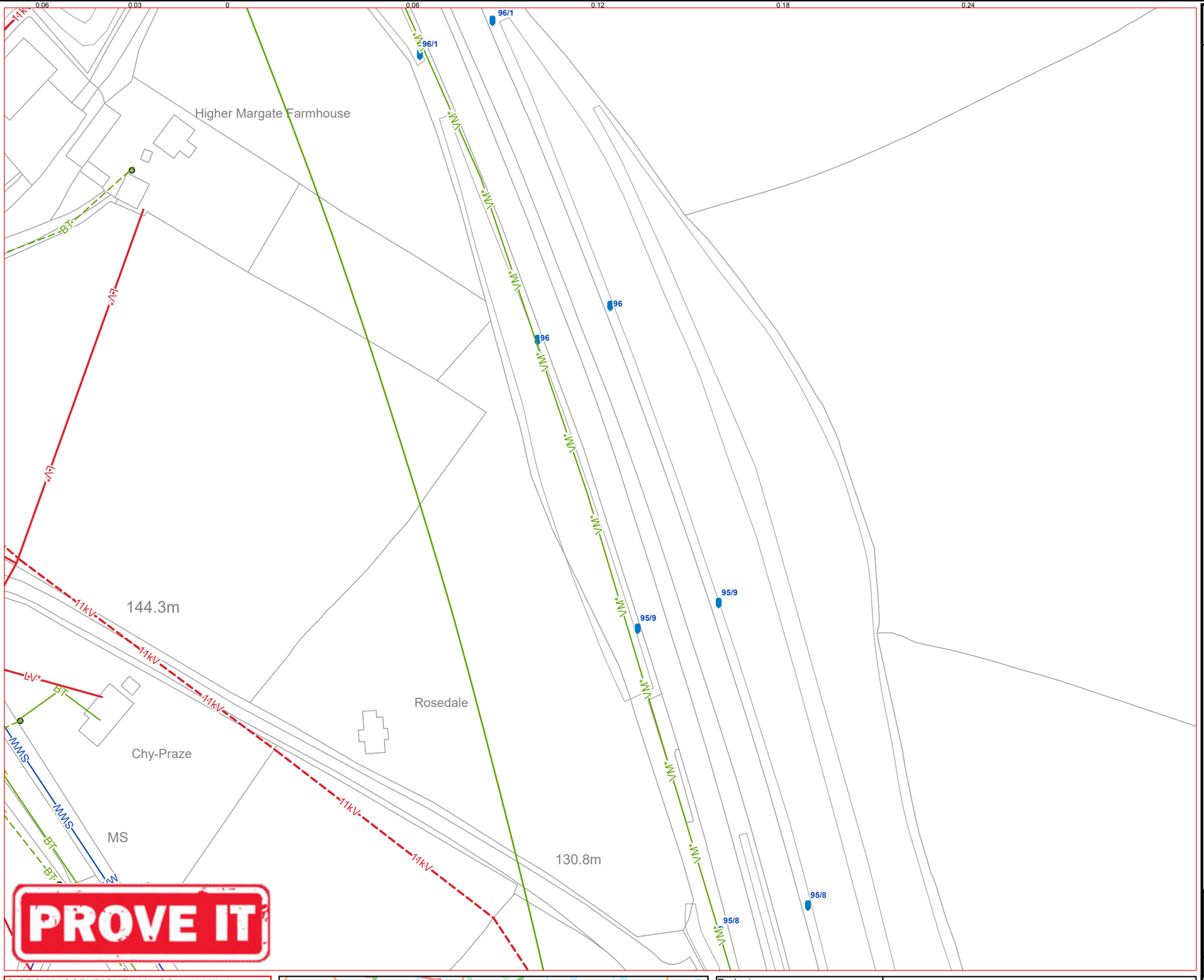
DRAWING NUMBER

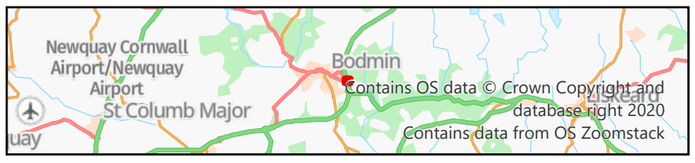
TOPO1250_A30-0598

N

Kilometers

0.06 0.03 0 0.06 0.12 0.18 0.24





Project

C2 STATS Service Locations

Square Reference:	A30-0599
Coordinates:	208796E 66399N m
Valid until:	2021-08-19

- - This is a SMART PDF - -
You can switch legend items on and off on the layer list to the top left of your PDF Reader

This data is produced from the PROVE-IT C2 STATS application, created and maintained by the Kier GIS department. Whilst every effort has been taken to ensure the accuracy of the data contained within this map, the information contained should not be used for any purpose other than as a general guide to the location of existing services. The download data herein is intended to fulfill the CDM C2 initial search requirements. Does not include highways street lighting currently. Please contact GIS@Kier.co.uk with any queries.

Exact positions & depths must be obtained by excavation trial holes.

Warranties and Liability: Kier Highways Limited does not accept any liability what so ever for the accuracy of the data contained within this drawing. The information provided in this drawing is based upon the information supplied and collected from numerous sources, whose accuracy cannot be guaranteed. While we make all possible efforts to ensure that the content provided herein is correct and up to date, however, we offer no guarantee as to its accuracy.

To be read in conjunction with C2 data from the PROVE-IT Datastore

PAS256 Split by layer type

Electricity
- 11kV 11kv,Overground
- 11kV 11kv,Underground
- LV* Low voltage,Unknown

Telecoms
- BT British Telecom,Overground
- BT British Telecom,Underground
- VM* Virgin Media,Unknown
- <all other values>

Water
- SWW South West Water

Point Layers
- Telecoms
- Marker Posts

AGENT KIER

CLIENT highways england

ORIGINAL DRAWING SIZE: A3	SCALE: 1:1,250	© KIER 2021

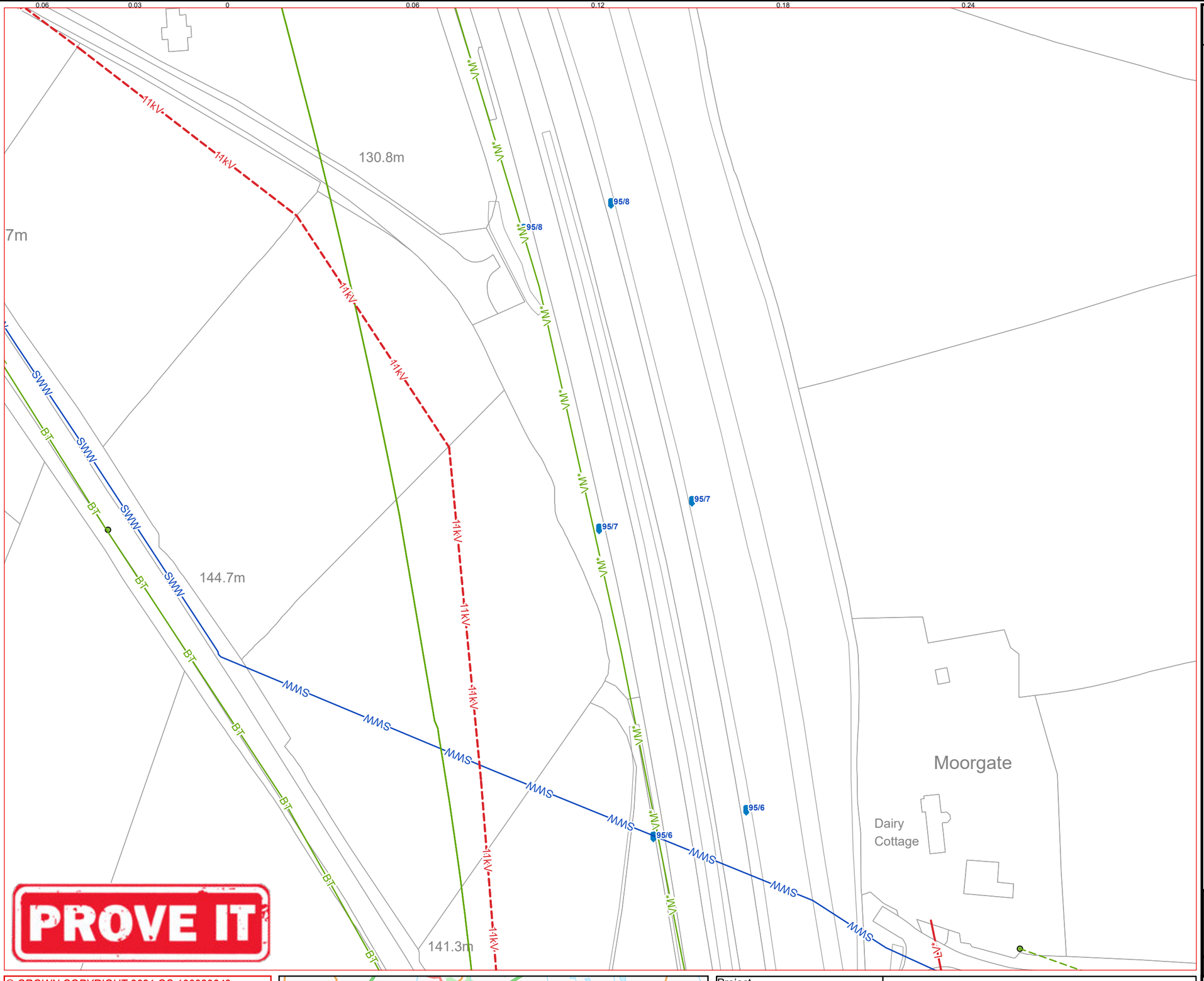
DRAWING NUMBER

TOPO1250_A30-0599

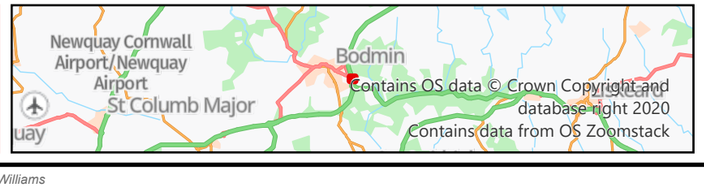
N

Kilometers

0.06 0.03 0 0.06 0.12 0.18 0.24



PROVE IT



- - This is a SMART PDF - -
You can switch legend items on and off on the layer list to the top left of your PDF Reader

This data is produced from the PROVE-IT C2 STATS application, created and maintained by the Kier GIS department. Whilst every effort has been taken to ensure the accuracy of the data contained within this map, the information contained should not be used for any purpose other than as a general guide to the location of existing services. The download data herein is intended to fulfill the CDM C2 initial search requirements. Does not include highways street lighting currently. Please contact GIS@Kier.co.uk with any queries.

Exact positions & depths must be obtained by excavation trial holes.

Warranties and Liability: Kier Highways Limited does not accept any liability what so ever for the accuracy of the data contained within this drawing. The information provided in this drawing is based upon the information supplied and collected from numerous sources, whose accuracy cannot be guaranteed. While we make all possible efforts to ensure that the content provided herein is correct and up to date, however, we offer no guarantee as to its accuracy.

To be read in conjunction with C2 data from the PROVE-IT Datastore

PAS256 Split by layer type

Electricity
- 11kV 11kv,Overground
- LV* Low voltage,Unknown

Telecoms
- BT British Telecom,Overground
- BT British Telecom,Underground
- VM* Virgin Media,Unknown
- <all other values>

Water
- SWW South West Water

Point Layers
- Telecoms
- Marker Posts

Project	C2 STATS Service Locations
Square Reference:	A30-0600
Coordinates:	208860E 66171N m
Valid until:	2021-08-19

AGENT: KIER | CLIENT: highways england

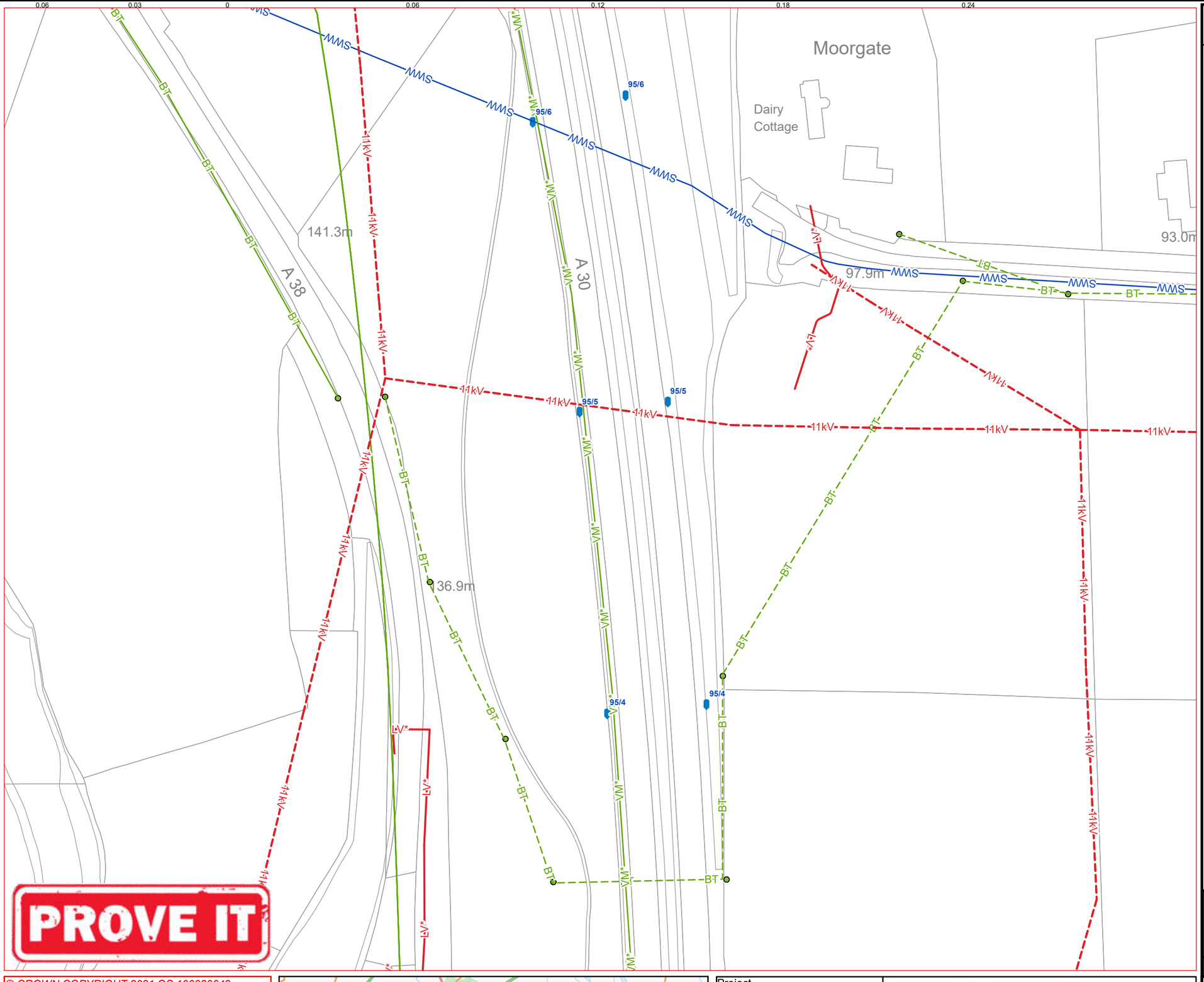
ORIGINAL DRAWING SIZE: A3 | SCALE: 1:1,250 | © KIER 2021

DRAWING NUMBER

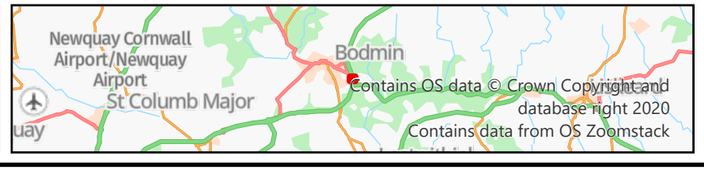
TOPO1250_A30-0600

N

0.06 0.03 0 0.06 0.12 0.18 0.24 Kilometers



PROVE IT



Project

C2 STATS Service Locations

Square Reference:	A30-0601
Coordinates:	208899E 65940N m
Valid until:	2021-08-19

- - This is a SMART PDF - -
You can switch legend items on and off on the layer list to the top left of your PDF Reader

This data is produced from the PROVE-IT C2 STATS application, created and maintained by the Kier GIS department. Whilst every effort has been taken to ensure the accuracy of the data contained within this map, the information contained should not be used for any purpose other than as a general guide to the location of existing services. The download data herein is intended to fulfill the CDM C2 initial search requirements. Does not include highways street lighting currently. Please contact GIS@Kier.co.uk with any queries.

Exact positions & depths must be obtained by excavation trial holes.

Warranties and Liability: Kier Highways Limited does not accept any liability what so ever for the accuracy of the data contained within this drawing. The information provided in this drawing is based upon the information supplied and collected from numerous sources, whose accuracy cannot be guaranteed. While we make all possible efforts to ensure that the content provided herein is correct and up to date, however, we offer no guarantee as to its accuracy.

To be read in conjunction with C2 data from the PROVE-IT Datastore

PAS256 Split by layer type

Electricity
- 11kV 11kv,Overground
- LV* Low voltage,Unknown

Telecoms
- BT British Telecom,Overground
- BT British Telecom,Underground
- VM* Virgin Media,Unknown
- <all other values>

Water
- SWW South West Water

Point Layers
- Telecoms
- Marker Posts

AGENT KIER

CLIENT highways england

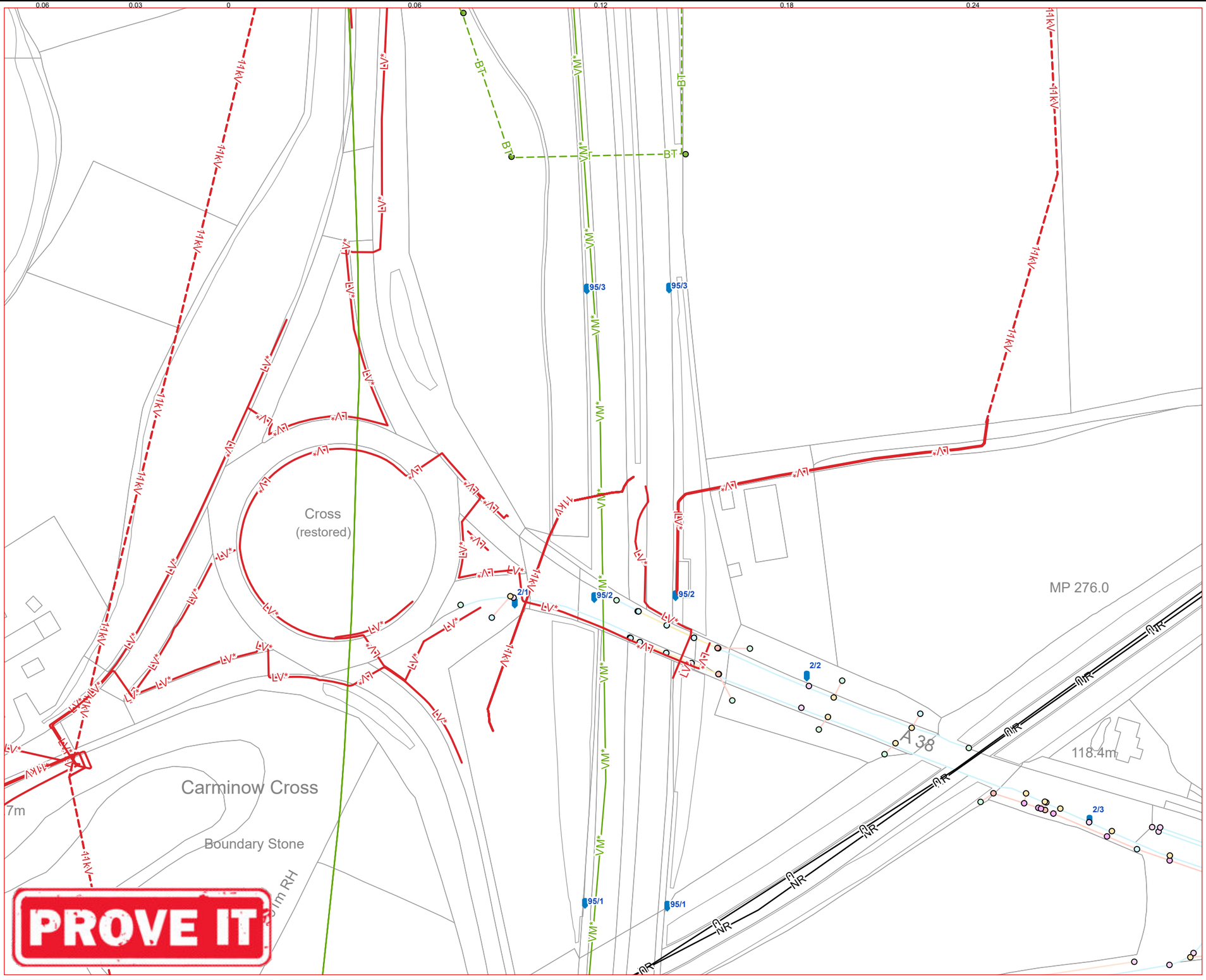
ORIGINAL DRAWING SIZE: A3 | SCALE: 1:1,250 | © KIER 2021

DRAWING NUMBER

TOPO1250_A30-0601

N

0.06 0.03 0 0.06 0.12 0.18 0.24 Kilometers



- - This is a SMART PDF - -
You can switch legend items on and off on the layer list to the top left of your PDF Reader

This data is produced from the PROVE-IT C2 STATS application, created and maintained by the Kier GIS department. Whilst every effort has been taken to ensure the accuracy of the data contained within this map, the information contained should not be used for any purpose other than as a general guide to the location of existing services. The download data herein is intended to fulfill the CDM C2 initial search requirements. Does not include highways street lighting currently. Please contact GIS@Kier.co.uk with any queries.

Exact positions & depths must be obtained by excavation trial holes.

Warranties and Liability: Kier Highways Limited does not accept any liability what so ever for the accuracy of the data contained within this drawing. The information provided in this drawing is based upon the information supplied and collected from numerous sources, whose accuracy cannot be guaranteed. While we make all possible efforts to ensure that the content provided herein is correct and up to date, however, we offer no guarantee as to its accuracy.

To be read in conjunction with C2 data from the PROVE-IT Datastore

PAS256 Split by layer type

Electricity
- 11kV 11kv,Overground
- 11kV 11kv,Underground
- LV* Low voltage,Unknown
- U* Unknown,Unknown

Telecoms
- BT British Telecom,Overground
- VM* Virgin Media,Unknown
- <all other values>

Other Services
- NR Network Rail
- U Unknown

Point Layers
- Telecoms

HADDAMS Points
- Connector Node
- Catchpit
- Ghost Node (was Ghost Manhole)
- Gully
- Manhole
- Phantom Node

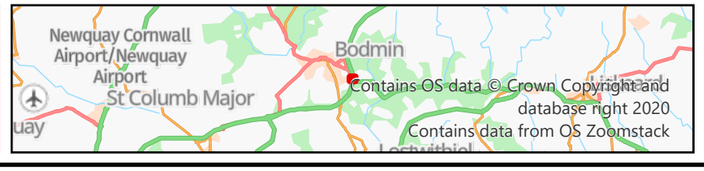
HADDAMS Lines
- Combined Kerb and Drainage Channel
- Ditch
- Edge Channel
- Pipework
- Marker Posts

AGENT KIER | CLIENT highways england

ORIGINAL DRAWING SIZE: A3 | SCALE: 1:1,250 | © KIER 2021

DRAWING NUMBER

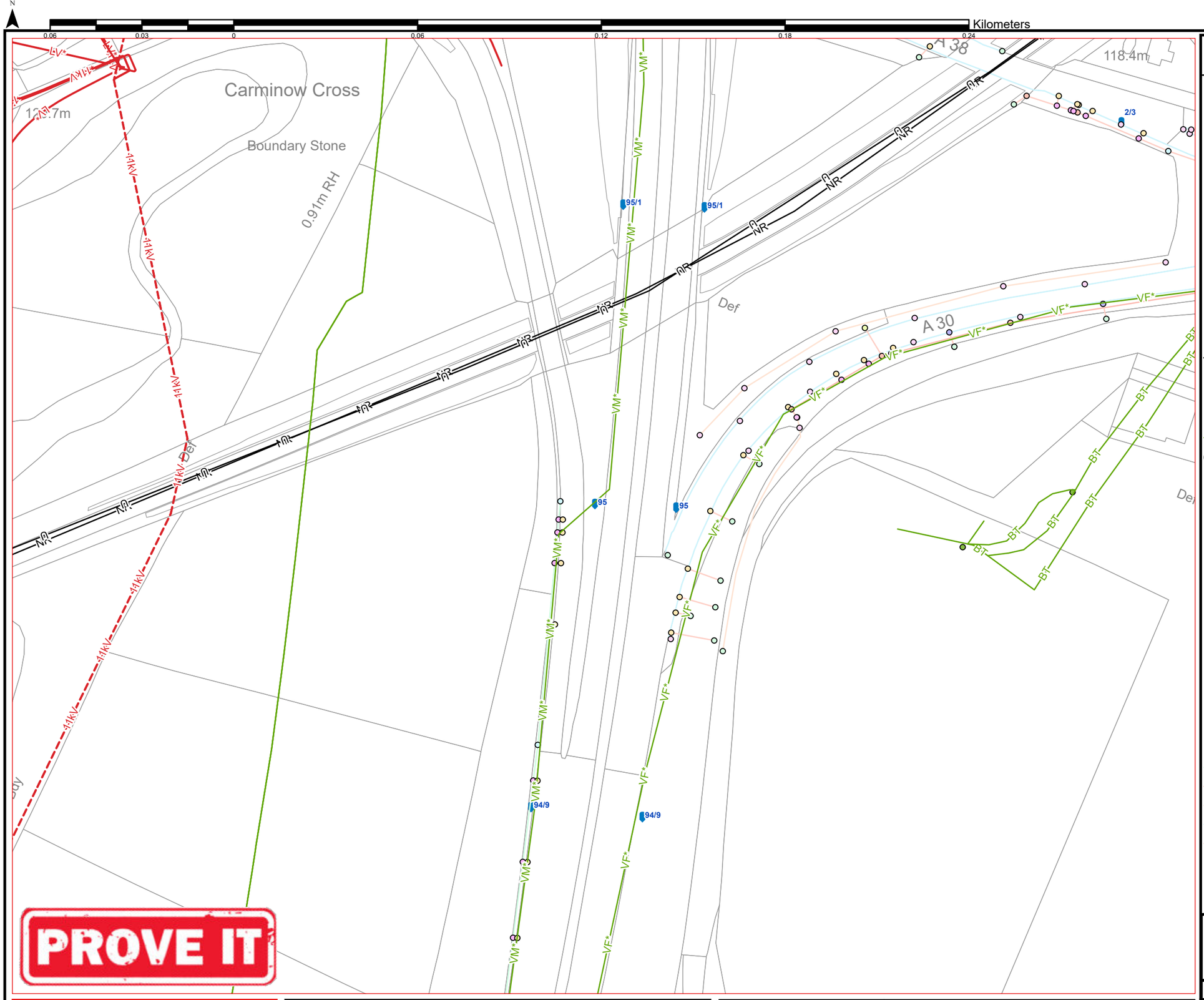
TOPO1250_A30-0602

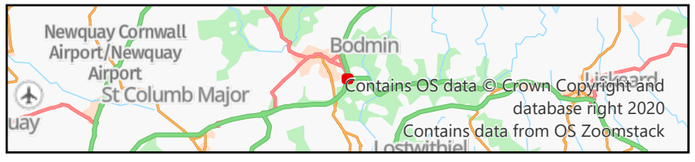


Project

C2 STATS Service Locations

Square Reference:	A30-0602
Coordinates:	208913E 65704N m
Valid until:	2021-08-19





Project

C2 STATS Service Locations

Square Reference:	A30-0604
Coordinates:	208901E 65470N m
Valid until:	2021-08-19

- - This is a SMART PDF - -
You can switch legend items on and off on the layer list to the top left of your PDF Reader

This data is produced from the PROVE-IT C2 STATS application, created and maintained by the Kier GIS department. Whilst every effort has been taken to ensure the accuracy of the data contained within this map, the information contained should not be used for any purpose other than as a general guide to the location of existing services. The download data herein is intended to fulfill the CDM C2 initial search requirements. Does not include highways street lighting currently. Please contact GIS@Kier.co.uk with any queries.

Exact positions & depths must be obtained by excavation trial holes.

Warranties and Liability: Kier Highways Limited does not accept any liability what so ever for the accuracy of the data contained within this drawing. The information provided in this drawing is based upon the information supplied and collected from numerous sources, whose accuracy cannot be guaranteed. While we make all possible efforts to ensure that the content provided herein is correct and up to date, however, we offer no guarantee as to its accuracy.

To be read in conjunction with C2 data from the PROVE-IT Datastore

PAS256 Split by layer type

Electricity
- 11kV 11kv,Overground
- 11kV 11kv,Underground
- LV* Low voltage,Unknown
- U* Unknown,Unknown

Telecoms
- BT British Telecom,Underground
- VM* Virgin Media,Unknown
- VF* Vodafone,Unknown
- <all other values>

Other Services
- NR Network Rail
- U Unknown

Point Layers

- Telecoms

HADDAMS Points
- Connector Node
- Catchpit
- Grip Inlet
- Ghost Node (was Ghost Manhole)
- Gully
- Inlet
- Manhole
- Outlet
- Phantom Node

HADDAMS Lines
- Gravity Drain
- Combined Surface and Sub-Surface Filter Drain
- Ditch
- Edge Channel
- Pipework
- Marker Posts

AGENT KIER

CLIENT highways england

ORIGINAL DRAWING SIZE: A3 | SCALE: 1:1,250 | © KIER 2021

DRAWING NUMBER

TOPO1250_A30-0604

ANNEXE 3 - ASBESTOS ACTION PLAN (AAP)

(Format as required by Annex 3 of IAN 63/05 Rev 01)

AREA 1: ASBESTOS ACTION PLAN

For,

Asset Name: South of Carminow to North of Callywith

Organisation: Accord mp [Surveying Organisation: Ashcroft Group]

Plan Owner: [redacted]

Date first compiled: 07/01/2008

CONTENTS PAGE

Life History Summary

Date	Plan Status and Comments	Plan compiled By (name)	Reviewed by(name)	Approved by Plan Owner (name)
Jan 2008	Initial Plan	[redacted]	[redacted]	[redacted]

[redacted]

SECTION 1 - SCOPE AND DESCRIPTION

ASSET NAME	[South of Carminow to North of Callywith]
ASSET REFERENCE NO(S)	[Mile Post: 94/0 – 99/0]
LOCATION	[A30]
OTHER DEFINING REFERENCE/NAME	[]
BRIEF DESCRIPTION OF ASSET	[5km Section]

SECTION 2 - DESK STUDY AND SURVEYS UNDERTAKEN

2.1 DOCUMENTS REVIEWED

Asset Drawing Arrangement Plan

2.2 CORRESPONDENCE WITH PRODUCT MANUFACTURERS

2.3 SURVEYS UNDERTAKEN FOR INITIAL AAP

Date: 07/01/2008

Type 2 Standard sampling, identification and assessment survey (Sampling survey)

The purpose and procedures used in this survey are the same as for a Type 1, except that representative samples are collected and analysed for the presence of asbestos. Samples from each type of suspect ACMs found are collected and analysed to confirm or refute the surveyor's judgement. If the material sampled is found to contain asbestos, other similar homogeneous materials used in the same way can be strongly presumed to contain asbestos. Less homogeneous materials will require a greater number of samples. The number should be sufficient for the surveyor to make an assessment of whether asbestos is or is not present. Sampling may take place simultaneously with the survey, or as in the case of some larger surveys, can be carried out as a separate exercise, after the Type 1 survey is complete.

2.4 ADDITIONAL SURVEYS

SECTION 3 – RISK REGISTER AND ACTIONS

RISK REGISTER DOCUMENT

ASSET NAME				[South of Carminow to North of Callywith]							**ASBESTOS RISK REGISTER**	
ASSET DESCRIPTION AND REFERENCE				[Mile Post 94/0 – 99/0]								
Section	**Location/ Building name /Element name**	**Component Name / Description**	**Other ref**	**Survey Type 1, 2 or 3**	**Sample Ref**	**Positive test for ACM (For Section 1)**	**Material Assessment Score (MDHS100 refers)**	**Rating for disturbance during maintenance Low, Medium, High**	**Actions necessary - A, B, C or D**	**Photo ref**	**Grounds for presumed ACM (Section 2)**	**Grounds for presumed non-ACM (Section 3)**
Section 1 known ACMs												
Section 2 Presumed ACMs	SOS Box	All	-	2			N/A	Low	B – Unlikely to become intrusively disturbed.	-	No intrusive access. Sample prior to maintenance.	
	Electric Box	All	-	2			N/A	Low	B – Unlikely to become intrusively disturbed.	-	No intrusive access. Sample prior to maintenance.	
	Bridge Deck to Road Underpasses MP: 94/5 MP: 95/2 MP: 98/5	Waterproof Membrane System	-	2			N/A	Low	B – Unlikely to become intrusively disturbed.	-	No intrusive access to sample bridge deck. Sample prior to disturbance.	
Section 3 Presumed Non ACMs	MP: 94 / 5	Road Underpass	-	2		N/A			A	-		Reinforced Concrete Road Underpass.

ASSET NAME				[South of Carminow to North of Callywith]							ASBESTOS RISK REGISTER	
ASSET DESCRIPTION AND REFERENCE				[Mile Post 94/0 – 99/0]								
Section	**Location/ Building name /Element name**	**Component Name / Description**	**Other ref**	**Survey Type 1, 2 or 3**	**Sample Ref**	**Positive test for ACM (For Section 1)**	**Material Assessment Score (MDHS100 refers)**	**Rating for disturbance during maintenance Low, Medium, High**	**Actions necessary - A, B, C or D**	**Photo ref**	**Grounds for presumed ACM (Section 2)**	**Grounds for presumed non-ACM (Section 3)**
and confirmed non ACMs after testing	MP: 95/2	Road Underpass	-	2		N/A			A	-		Reinforced Concrete Road Underpass.
	MP: 98/5	Farm Route Underpass	-	2		N/A			A	-		Reinforced Concrete Farm Route Underpass.
	Soft Estate	All Crash Barriers	-	2		N/A			A	-		Metal Crash Barriers
	Soft Estate	Reflective Bollards	-	2		N/A			A	-		Plastic Reflective Bollards.
	Soft Estate	Guide, Direction, Regulatory and Warning Road Signs	-	2		N/A			A	-		Metal 'Warning' Signs (e.g. Caution Deer's).
	Soft Estate	Hard Stand	-	2		N/A			A	-		Gravel and Plastic Mesh Hard Stand
	Soft Estate	Vegetation	-	2		N/A			A	-		Grass and shrub land to

ASSET NAME				[South of Carminow to North of Callywith]							**ASBESTOS RISK REGISTER**	
ASSET DESCRIPTION AND REFERENCE				[Mile Post 94/0 – 99/0]								
Section	**Location/ Building name /Element name**	**Component Name / Description**	**Other ref**	**Survey Type 1, 2 or 3**	**Sample Ref**	**Positive test for ACM (For Section 1)**	**Material Assessment Score (MDHS100 refers)**	**Rating for disturbance during maintenance Low, Medium, High**	**Actions necessary - A, B, C or D**	**Photo ref**	**Grounds for presumed ACM (Section 2)**	**Grounds for presumed non-ACM (Section 3)**
												soft estate verge.

SECTION 4 – ACTION PLAN, MONITORING AND REVIEW

4A GENERAL ITEMS

4.1 This section contains the management actions which will be carried out to ensure that:-

- Asbestos materials requiring treatment or removal, (Action Levels C and D) are dealt with in a timely manner
- Known or presumed asbestos materials (Action Level B) that remain in situ, are maintained in a safe condition
- Procedures are in place to control all work which could effect, or potentially effect known or presumed asbestos materials.

Register Updates

4.2 The Risk Register included at Section 3 will be maintained and updated on receipt of new information. The Plan Owner will be responsible for approving all changes.

Remedial Work to ACM

4.3 The Plan Owner shall consult with the appropriate HA manager to gain approval to work required to any known ACM assessed by specialist surveyors to fall into Action Level C or D. On approval, the required work shall be carried out and the register updated.

Surveys

4.4 All specialist asbestos surveys shall comply with the requirements of MDHS 100 – Surveying, sampling and assessment of asbestos containing materials. This applies to Type 1, 2 or 3 surveys. A generic survey document is provided at Annex No 7.

Monitoring Inspection

All assets where ACM is known or presumed shall be re-inspected for signs of deterioration of the visible ACM, using the standard form in section 7. Such inspection will not include any intrusive work. If, on comparison with initial photographic evidence, the ACM shows signs of damage/deterioration, additional survey and assessment work shall be ordered before determining the extent of any remedial work. If the assessment shows the ACM to be Action Level C or D remedial work shall be instigated as 4.3 above. Inspection will therefore be targeted where surveys have shown ACMs to have the greatest risks from damage and disturbance.

4.6 ACM monitoring inspection frequencies shall be as follows [tick box for asset type].

Highway structures	2 years	
Highways lengths (including all assets within the highway boundary) Not possible to re-inspect non-accessible parts of assets	2 years	N/A
Buildings in maintenance compounds	6 months	
Other buildings and network assets outside the highway boundary	1 year	

In addition, other regular network inspections will facilitate collection of visible damage to ACM components. The Plan Owner shall ensure that information is passed on from such inspection reports with regard to ACMs, using the standard form in section 7.

Asbestos Hazard Labelling

4.7 No labels will be fixed to any part of the asset unless specifically recommended by the specialist surveyor's report. It is likely that labels could be fixed to the inside of electrical cabinets/boxes and any area of compound, buildings, etc. as agreed in conjunction with the AAP owner.

Communicating the Plan

4.8 The Plan Owner shall ensure that the information in this plan is communicated to all Third Parties likely to work in, on and around the asset. Annex no 4 – Process for Dealing with Third Parties – will be followed. Third Parties will include

- : other HA Providers
- : emergency services
- : utility companies whose equipment is carried over, under or through this asset.
- : Local Authorities
- : Network Rail
- : British Waterways
- : Navigation Authorities
- : private bridge owners
- : other companies, such as Trafficmaster

Planned Work

4.9 Before any planned work is carried out on this asset, the project manager for the work will follow the flow chart in the HA Interim Advice Note. This will ensure materials will be considered in advance of design work and incorporated in Design Risk Assessments and Health and Safety Plans prior to ordering or commencing any maintenance or construction works. This will also include sampling/testing in advance of any intrusive work in connection with other engineering surveys where ACM would be encountered, for example, testing in connection with Principle Inspections for highway structures. Contractors arriving at maintenance compounds to carry out building or other maintenance should be shown a copy of the appropriate AAP and risk register.

4.10 The Asbestos Control Check List (Annex No 5) will be used to monitor the process in 4.9. Each completed check list shall be included as part of this plan at Section 7, where ACMs were encountered.

Unplanned or Emergency Work

4.11 When an emergency incident occurs on the network which directly affects this asset or part of it, the "Process for Works after an Emergency Incident or Fly Tipping" (Annex No 6) shall be followed by the HA Provider(s). On completion of the `emergency' part of the work, including initial clearance, the Plan Owner shall ensure that any further work follows the `Planned work process" above.

Reviewing this Plan

4.12 This plan shall be reviewed by the Plan Owner no longer than 12 months after the initial plan was prepared, unless there is good reason to consider an interim review at 6 months. This latter interval could be invoked where the Plan Owner considers that significant issues have arisen via regular general inspection on the network or

that significant new information regarding the asset has come to light, for instance, following damage incidents.

4.13 The Review shall include answering the following key questions

- Has the Plan been communicated to others, including employees, other HA Providers, and appropriate Third Parties?
- Have the results of inspection and monitoring activity been recorded and included? Is there a need to change the frequency of ACM monitoring?
- Have any arrangements for ACM labelling, remedial treatment or removal been carried out and the plan updated?
- Has any work been carried out to the asset and any necessary documentation included in the Plan?

4.14 The results of the review are to be recorded, stating whether the management arrangements herein are still current and satisfactory and the document appended to this Plan. Any significant changes should be communicated as 4.8 above.

4B ASSET SPECIFIC ITEMS

4.15 Any special items for major structures
N/A

4.16 Any special items for maintenance compounds and other miscellaneous assets
An intrusive inspection (Type 3 Asbestos Survey) is required prior to any future maintenance work.

SECTION 5 – LOCATION PLANS AND DRAWINGS

This section includes the means whereby ACMs are identified on appropriate drawings. Where available, CAD or scanned drawings should be used.

Location Plans – Annex 1.

SECTION 6 – DETAILED ASBESTOS SURVEY REPORTS

[Detailed reports etc should be listed and included here as Annex A, B etc]
Asbestos Report – Annex 1.

SECTION 7 – UPDATE SHEETS AND OTHER DOCUMENTS

This section comprises update sheets and other evidence in respect of the following:

- Results of specific ACM monitoring inspections (use standard form attached)
- Feedback comments from other routine network inspections with respect to ACM (use standard form attached completed only when a problem has been identified)
- Results of AAP review process (use standard form attached)
- Completed Asbestos Control Check List for planned work carried out on the asset which required an addition or amendment to this plan
- Summary report following an emergency incident. Asbestos Control Check List also used if incident involved work to an asset component containing asbestos
- Other miscellaneous feedback received from other HA Providers, emergency services, utility companies or other Third Parties with regard to ACM in this asset.

FEEDBACK RECORD FROM ROUTINE NETWORK INSPECTIONS
(ASBESTOS ISSUES ONLY)

Asset Name	
Asset Reference	
Date	Name of Inspector reporting
Comments Signed	
Date	Name of Inspector reporting
Comments Signed	
Date	Name of Inspector reporting
Comments Signed	
Date	Name of Inspector reporting
Comments Signed	

RECORD OF SPECIFIC ASBESTOS MONITORING INSPECTIONS

Asset Name	
Asset Reference	
Date	Name and status of person carrying out the inspection
Comments/Outcome Signed	
Date	Name and Status of person carrying out the inspection
Comments Signed	
Date	Name and Status of person carrying out the inspection
Comments Signed	
Date	Name and Status of person carrying out the inspection
Comments Signed	

RECORD OF REVIEW PROCESS FOR AAPs

Asset Name		
Asset Reference		
Review Date	Reviewer	Plan Owner

1. COMMUNICATION – Has the Plan been communicated to others?

   - to employees ?
   - to other HA Providers?
   - to emergency services?
   - to utility companies and other Third Parties?

   } Provide feedback

2. INSPECTION/MONITORING – Have the results of inspection and monitoring activity been recorded and included?

   - Provide comments on records and any need to change the monitoring frequency.
   - Include comments on whether the Risk Register needed updating or otherwise amending.

3. LABELLING, REMEDIAL TREATMENT AND REMOVAL OF ASBESTOS – Have recommendations from specialists been carried out?

   - labelling – was any required? Include comments.
   - remedial work – has it been carried out and the register updated? Include comments and refer to evidence.
   - removal work – has it been carried out? Include comments and refer to documentary evidence for safe removal and disposal.

4. MAINTENANCE OR OTHER WORK – Has any work been carried out to the asset or part of the asset which affected an ACM?

   - planned work. Include comments and refer to documentary evidence and any updating.
   - emergency work. Include comments and refer to documentary evidence and any updating.

5. OVERALL REVIEW OBSERVATIONS

List any observations and recommendations to this Plan and any possible general modifications to management systems or procedures.

In Summary state whether Plan should be modified. Yes / No

6. Reviewed by

Name: _____

Signed: _____

Date: _____

7. Approved by Plan Owner

Name: _____

Signed: _____

Date: _____

Annex I

Asbestos Survey Report

Type II Survey

FOR ASBESTOS CONTAINING MATERIALS

On behalf of

Accord mp

At

South of Carminow to North of Callywith

South of Carminow to North of Callywith
Disclaimer

This consultancy contract was completed by Ashcroft Environmental Surveyors Ltd on the basis of a defined programme of work and terms and conditions agreed with the Client. We confirm that in preparing this report we have exercised all reasonable skill and care bearing in mind the project objectives, the agreed scope of works, prevailing site conditions and the degree of manpower and resources allocated to the project, as agreed.

Ashcroft cannot accept responsibility to any parties whatsoever, following the issue of this report, for any matters arising which may be considered outside of the agreed scope of works.

This report is issued in confidence to the Client and Ashcroft cannot accept any responsibility to any third parties to whom this report may be circulated, in part or in full, and any such parties rely on the contents of the report solely at their own risk.

Unless specifically assigned or transferred within the terms of the agreement, the consultant asserts and retains all Copyright, and other Intellectual Property Rights, in and over the report and its contents.

Any questions or matters arising from this report may be addressed in the first instance to the Project Manager.

UKAS ACCREDITATION

UKAS accreditation extends to the on site Surveying activities, for Survey types I, II and III, and to the reporting of the findings of the on-site Survey inclusive of the Material Hazard Assessment. Accreditation does NOT extend to interpretation of that data to generate priority assessments in an Asbestos Management Plan.

	CONTENTS
	FRONT COVER
	DISCLAIMER AND SCOPE OF ACCREDITATION
	CONTENTS PAGE
1.0	**INTRODUCTION AND TERMS OF REFERENCE**
	1.1 CLIENTS INSTRUCTIONS 1.2 SCOPE OF SURVEY
2.0	**SUMMARY PAGES**
	2.1 SUMMARY OF ACMS IDENTIFIED 2.2 EXCLUSIONS
3.0	**MANAGING WORKPLACE ASBESTOS**
	3.1 LEGISLATIVE FRAMEWORK 3.2 MATERIAL HAZARD ASSESSMENT 3.3 SURVEY PROCEDURES 3.4 BULK SAMPLE ANALYSIS 3.5 ASBESTOS MANAGEMENT
4.0	**SURVEY REPORT**
	APPENDICES
1	Schedules of samples and certificates of analysis
2	Drawings

1.0. INTRODUCTION and terms of reference

1.1 CLIENTS INSTRUCTIONS

Ashcroft Environmental Surveyors Ltd were instructed by Accord mp to undertake this:

Type II asbestos survey of **South of Carminow to North of Callywith and** compliance with annex no. 7- Asbestos Survey Specification of the Highways Agency Interim Advice Note 63/05 rev 01.

Surveying was undertaken on the 07/01/2008 with Leigh Kerrison, acting as Lead Surveyor.

The objective of this survey was to locate and assess asbestos containing materials in accordance with MDHS 100 and the Control of Asbestos Regulations 2006.

1.2 Scope of Survey

This survey inspection report details all areas that were accessed and lists all known areas that were access was not possible.

Any area not referred to directly in this report should be assumed **not** to have been inspected and further information sought before any work is permitted to take place within this area.

2.0 SUMMARY PAGE

2.1 ACMS IDENTIFIED

SITE	South of Carminow to North of Callywith	SURVEY REF: AESL/BBH/329	Survey Type II
Report by:		Approved by:	Date:
[redacted]		[redacted]	07/01/2008

REF NO	AREA	ITEM	ASBESTOS TYPE	MHA	REQUIRED ACTION
South of Carminow to North of Callywith					

2.2 EXCLUSIONS: AREAS NOT ACCESSED – See Section 4 for Further Exclusions

EXCLUSIONS	
No Access	SOS Box
No Access	Electric Box
No Access	Waterproof Membrane System to Road Underpasses

A fully intrusive Type 3 Survey is required prior to any major works; including maintenance and repair.

3.0 MANAGING WORKPLACE ASBESTOS

Note: this document is current at February 2008. The reader shall satisfy himself that the statements made remain true at the date of reading and may contact the author to obtain further information.

3.1 LEGISLATIVE FRAMEWORK:

The Health and Safety at Work etc Act 1974 enshrines "the duty of every employer to ensure, so far as is reasonably practicable, the health, safety and welfare at work of all his employees". The Management of Health & Safety at Work Regulations 1999 requires that the approach to discharging this duty be via the structured approach of risk assessment. The Control of Asbestos at Work Regulations 1987 (as amended and now revoked), provided explicit duties on employers who work with asbestos.

Under the Control of Asbestos Regulations 2006, an explicit duty is created (Regulation 4) on all employers to ensure the safe management of asbestos as it occurs in all work places. This is backed up by guidance contained in three Approved Codes of Practice (ACoPs) "work which requires a licence", "work which does not require a licence" and "The management of asbestos in non domestic premises". There are several other guidance documents namely: Health & Safety Executive Publications – HSG227, A comprehensive guide to Managing Asbestos in Premises", IND (G) 223 rev 3 Nov 2002: "A short guide to Managing Asbestos in Premises", and MDHS 100 "Surveying, Sampling and Assessment of Asbestos Containing Materials".

Higher levels of risk can be created by unnecessarily removing asbestos, than by leaving good condition materials in place and introducing management procedures to control the risk. Some of the key elements of such management procedures are: -

- Identification of Asbestos Containing Materials
- Assessment of risk posed by materials, and selecting appropriate control measures such as:
  - Labelling of materials, improving their condition
  - Reporting procedures for accidental Damage,
  - Permit-to-work system for contractors/maintenance work,
  - Provision of information to contractors/employees/staff/visitors, and
  - Periodic inspections to reassess risk levels and ensure that procedures are adequate.

This Survey identifies all ACMs with the stated intention that all will be removed as part of the demolition/refurbishment planned. The client is reminded that Regulation 4 came into force on 21st May 2004 and that actions may remain necessary to comply with Regulations 4 (3) and 4 (8) if full removal does not take place.

3.2 MATERIAL HAZARD ASSESSMENT

This assessment is based upon the criteria set out below (which in turn is based upon the guidance in MDHS 100). The higher the score, the greater the hazard posed by the material identified.

Criteria	Score		Total
Asbestos type	Chrysotile (1), Amosite and/or Crocidolite (2).		(1-2)
Material Type	Thermoplastic (1), Cement (2), Board (3), Insulation (4).	+	(1-4)
Damage (Condition)	Good (1), Fair (2), Poor (3).	+	(1-3)
Surface Treatment	Sealed (1), Untreated (2), Highly Friable (3).	+	(1-3)
	= Material Hazard Assessment		(4-12)

Material Hazard Assessment definitions

Management of safety generally requires action to be taken where this would be "reasonably practicable". General actions may be inferred from the Material Hazard Rating as follows:

Score	Classification	Action Summary
4,5,6:	Low hazard	Manage: reassess every 12-24 months.
7,8:	Medium hazard	Improve condition if reasonably practicable, strict management, inspect annually.
9,10:	High hazard	Action required (short term remedial, mid term removal).
11,12:	Severe Hazard	Seal off area immediately and remove materials as soon as practicable.

Material Hazard Assessment action guidelines

Local variations to these guidelines may occur subject to additional factors such as planned maintenance or frequency of use of any given area. This assessment does not absolve the Employer of his duties under the Management of Health and Safety at Work Regulations 1999, nor under Regulation 4 of the Control of Asbestos Regulations 2006.

A table showing all combinations possible for a Material Hazard Assessment (MHA) follows.

ASBESTOS CONTAINING MATERIALS (ACM's) MATERIAL HAZARD ASSESSMENT MATRIX									
Asbestos Content:		Chrysotile [1]				Amosite and/or Crocidolite [2]			
Material Type:		Plastic [1]	Cement [2]	Board [3]	Insulation [4]	Plastic [1]	Cement [2]	Board [3]	Insulation [4]
Condition:	Surface Treatment								
	Sealed [1]	4	5	6	7	5	6	7	8
Good [1]	Unsealed [2]	5	6	7	8	6	7	8	9
	Friable [3]	6	7	8	9	7	8	9	10
	Sealed [1]	5	6	7	8	6	7	8	9
Fair [2]	Unsealed [2]	6	7	8	9	7	8	9	10
	Friable [3]	7	8	9	10	8	9	10	11
	Sealed [1]	6	7	8	9	7	8	9	10
Poor [3]	Unsealed [2]	7	8	9	10	8	9	10	11
	Friable [3]	8	9	10	11	9	10	11	12

KEY and action guidelines:

Rating	Low Hazard	Medium Hazard	High Hazard	Severe Hazard
Scores and typical examples	Scores 4, 5 and 6 e.g. good condition, sealed Asbestos Cement sheet [5].	Scores 7, e.g. good condition, but unsealed Asbestos Insulation Board and 8 e.g.: poor condition, unsealed Asbestos Cement sheet.	Scores 9, e.g.: Poor condition, friable, Asbestos Cement, and 10, e.g. poor condition, friable Asbestos Insulation Board.	Scores 11 and 12. E.g. Poor condition, friable insulation.
Action Guidelines	Safe in normal conditions, label materials and inspect every 12-24 months for deterioration.	Improve condition and/or surface treatment of material or protect if reasonably practicable, label and reassess annually.	Action required: improve condition and surface treatment of material. If rating cannot be reduced, remove material at first reasonable opportunity.	Immediate Action Required: affected area to be sealed off promptly and material removed within 6 weeks or encapsulated and removed at first reasonable opportunity.

Material Hazard Assessment Matrix

3.3 SURVEY PROCEDURES

3.3.1 SURVEY TYPES

"Type I"

This survey essentially defers the need to sample and analyse for asbestos (or the absence thereof) until a later time (e.g. prior to demolition or major refurbishment). All areas must be accessed and inspected (e.g. above false ceilings and inside risers, service ducts, lift shafts etc) or presumed to contain asbestos. Any materials, which can reasonably be expected to contain asbestos, must be "**presumed"** to contain asbestos, and where it appears highly likely to contain asbestos there should be a "**strong presumption"** that it does. All materials, which are presumed to contain asbestos, must be assessed to determine the relative risk that they may present.

"Type II"

All efforts are made during a type II survey to identify the presence/absence of asbestos containing materials. However, asbestos is frequently concealed within the structural fabric of the building and shall be inaccessible within the scope of a superficial survey. Consequently, no such survey should be considered definitive and further exhaustive investigations are recommended in conjunction with any major refurbishment or demolition work.

It is understood and agreed that no Survey can guarantee that all the asbestos present in a building has been identified and Surveyors shall only be liable for financial loss if there is a negligent misstatement in respect of specific areas identified as having been tested and or investigated.

"Type III"

Such surveys are designed to provide the "further exhaustive investigations" referred to above. Whilst every effort is made to examine all voids and the like there remains a possibility that structural elements which can only be disturbed during demolition may conceal Asbestos Containing Materials, and that further materials may be hidden behind materials already identified (for example sprayed coatings behind Asbestos Insulating Board).

The survey report shall make explicit any such potential.

3.3.2 Exclusions

Generally, no survey can guarantee the identification of all asbestos containing materials and surveyors can only be held liable for negligent misstatements. Type 3 surveys will always include references to areas opened up, items identified and any specific exclusions remaining. Competent surveyors will be aware in many cases where there is a significant risk of the discovery of hidden materials and will make specific reference in the survey report to areas not examined. The need for further investigation will be highlighted as a recommendation in such cases.

Our surveyors have indicated inaccessible areas and elements found during the survey in Section 2. MDHS 100 states that where access can not be gained to an area it must be presumed that it contains asbestos. We, therefore, advise that further destructive surveying be undertaken should planned works be likely to affect these areas.

It should be noted that even when there is no asbestos found in any particular area this is not a *guarantee* that this location does not have asbestos present. Due caution must always be taken when dealing with building materials and any suspected materials must reported and left undisturbed until further investigation proves it is safe to proceed.

Particular problems can occur in type III surveys for the following reasons. The Survey report will highlight any such matters specifically applying to this site:

- MMMF pipework insulation: may have asbestos lining or may cover residue from previously asbestos lagged pipes. It is clearly unreasonable to expect 100% examination. Surveyors will make representative examinations of different types of MMMF insulation but there remains a risk of later discovery during demolition/refurbishment.
- Concealed voids: again, even using invasive construction techniques, there may be materials hidden within structural elements which will only come to light during the actual demolition process.

Using standard polarised light microscopy (PLM) as detailed in the HSE MDHS 77, it may not be possible to identify very fine asbestos fibres such as those present in some textured coatings. It is recommended that all textured coatings should be considered to contain asbestos fibre unless they are analysed using Scanning Electron Microscopy (SEM).

Asbestos containing materials have not been disturbed or removed during the course of this survey. There is the possibility for additional ACM to be present behind those identified which may only be discovered during subsequent asbestos removal work.

DIGITAL IMAGERY

Photographs which are included in this report are not altered by Ashcroft Environmental Surveyors Ltd in any way other than to change its orientation or to decrease or increase photo size.

3.4 BULK SAMPLE ANALYSIS

3.4.1 UKAS Accreditation

Bulk samples are submitted to an independent laboratory holding current UKAS accreditation for the analysis of such samples for asbestos content. The following clauses apply to the analysis.

3.4.2 Bulk Sample Analytical Procedure

All samples shall be prepared and analysed in accordance with documented in-house procedures, which are based upon MDHS 77 and relevant UKAS standards. These procedures incorporate the use of polarised light microscopy and dispersion staining for the identification of asbestos based materials.

3.4.3 Results

All sample analysis results are given on the Certificate of Analysis.

3.4.4 Comments

The comments, opinions and recommendations given on the Certificate of Analysis are outside the scope of UKAS Accreditation, which is limited to analytical techniques

To minimise the risk of exposure to fibres and damage to decorations or fabric not all ACMs were sampled. Some were strongly presumed or presumed to contain asbestos.

Strongly presumed is where the surveyor has good cause to suspect asbestos but a laboratory identification has not been undertaken to confirm this. Examples of this include the situation where there is similar material present throughout a building that has been sampled and confirmed to be asbestos in some places but not all. Where it has not been sampled but ***"visually identified"*** there will be a *"strong presumption"* that similar materials contain asbestos.

"Presumed" asbestos is where there is insufficient evidence to suggest a material does not contain asbestos. For example, where a sample has not or cannot be taken and there is no reasoned argument to suggest that the material does not contain asbestos.

3.5 ASBESTOS MANAGEMENT

The client is reminded that to achieve full compliance with Regulation 4, risk assessments and a written Management Plan will be required if materials are to remain in situ. Further information on the development of Management Plans is contained in the Appendices and clients may wish to consult HSE guidance; HSG227 'A Comprehensive guide to managing Asbestos in Premises".

The material hazard assessment algorithm identifies and scores the materials ability to release airborne fibres if disturbed. The material score can be used as an indicator to prioritise the remedial action. However, a management priority must be determined as part of a management plan by carrying out a priority assessment that will take into account factors such as:-

- The location of the material
- Its extent
- The use to which the location is put
- The occupancy of the area
- The activities carried on in the area
- The likelihood and frequency of maintenance activities in the area

The management plan may include the following:-

- Clean up debris
- Repair
- Encapsulate
- Enclose
- Remove
- Maintain and update log of ACMs
- Monitor condition
- Restrict access
- Label or colour code
- Inform
- Train
- Define safe systems of work

To manage the risk effectively it will be necessary to:

- Keep and maintain an up to date record of the location, condition, maintenance and removal of all asbestos materials on your premises
- Repair, seal or remove if there is a risk of exposure
- Maintain in a good state of repair and regularly monitor the condition
- Inform anyone likely to disturb asbestos of it's location and condition
- Have arrangements in place so that work which disturbs asbestos complies with the Control of Asbestos Regulations (CAWR)
- Review the plan at regular intervals and update if circumstances change

Please refer to Appendix 2 for information on Control of Asbestos Regulations 2006 Regulation 4 'Duty to manage'.

Generally, work with asbestos insulation, insulating board and spray coating **must not** be carried out without a licence from the HSE although there are exceptions for very minor works – more information is available in "A Guide to Asbestos (Licensing) Regulations 1983"as amended. As a general guideline, work on these materials should be carried out inside full enclosures incorporating negative pressure and decontamination facilities although minor works may be carried out in accordance with the "Asbestos Essentials Task Manual" (HSG210).

The removal of asbestos insulation, insulating board and spray coating is subject to a statutory 14 day notification to the Health and Safety Executive (HSE). The notification period is a condition of the removal contractor's licence. Note also there may be additional restrictions placed on a licence at the discretion of the HSE.

Following the introduction of the Special Waste Regulations 1996, all materials with an asbestos content greater than 0.1% by weight - including asbestos cement where applicable - is now classified as a Special Waste and must be disposed of at a site licensed to accept such waste. An appropriate consignment note is also required.

Although not a legal requirement, it is recommended that a licensed asbestos contractor should be engaged for any work with asbestos - including asbestos cement products – to ensure full compliance with all current legislation.

4.0 SURVEY REPORT

GENERAL – South of Carminow to North of Callywith

Mile Post: 94/0 - 99/0

Mil Post: 94/5, 95/2, 98/5 - Road underpass. Reinforced concrete structure with rubber expansion joints.

The waterproof membranes system to the bridge deck (located above the road underpasses MP: 94/5/ 95/2, 98/5) is presumed to contain asbestos. Sample prior to maintenance.

APPENDICES

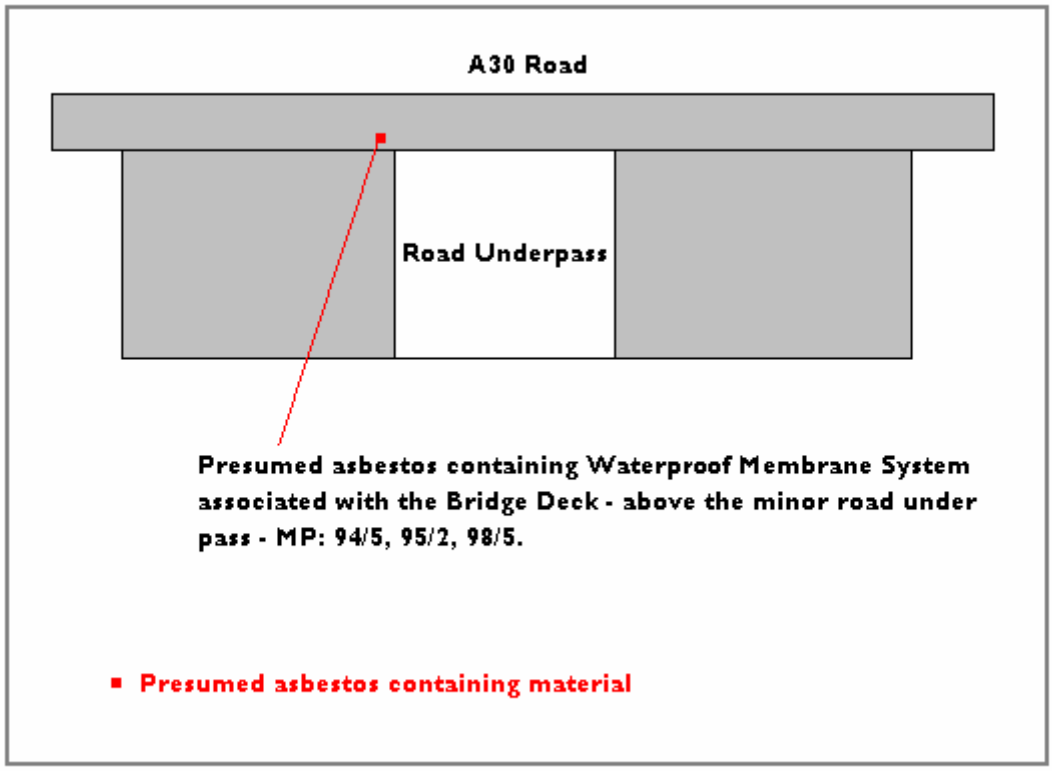
Appendix 1

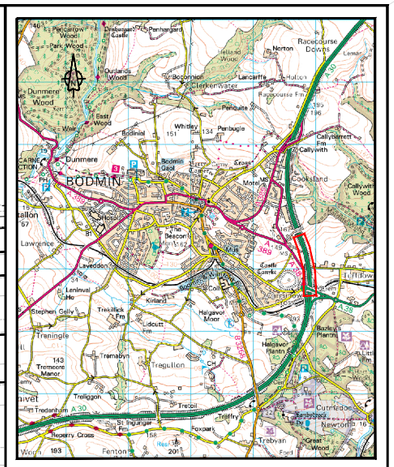
No Bulk Sample Certificates

Appendix 2

Drawing

- **Drawing 1 – Type 2 Survey**





LOCATION PLAN
1:50,000

RESIDUAL DESIGN HAZARDS

THE FOLLOWING HAS BEEN COLLECTED FROM THE PRE-CONSTRUCTION INFORMATION AND HIGHLIGHTS KNOWN RESIDUAL HAZARDS.

KEY — HS-# = HEALTH AND SAFETY RISK REFERENCE NUMBER; E-# = ENVIRONMENT RISK REFERENCE NUMBER

HS-01 - OVERBRIDGE
HS-02 - OVERHEAD TELEPHONE CABLES
HS-03 - OVERHEAD ELECTRICITY CABLES

NOTES

1. THIS IS A C.A.D. DRAWING AND SHOULD NOT BE AMENDED BY HAND.
2. DO NOT SCALE FROM THIS DRAWING; USE STATED DIMENSIONS ONLY. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
3. ALL STATUTORY UNDERTAKERS APPARATUS SHOWN ON THIS PLAN HAS BEEN TAKEN FROM THE PROVE-IT DATABASE JUNE 2021
4. THIS DRAWING SHOULD BE PRINTED AND READ IN COLOUR ONLY.
5. THE UTILITIES INDICATED ON THIS DRAWING HAS BEEN PREPARED FOR INFORMATION ONLY AND IS NOT TO BE USED FOR CONSTRUCTION/SITE INVESTIGATION OR LOCATING SERVICES.
6. THE LOCATION OF ALL SERVICES MUST BE CONFIRMED WITH THE RELEVANT SERVICE PROVIDER PRIOR TO UNDERTAKING ANY WORKS.
7. KIER TAKES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN ON THIS DRAWING, WHICH HAS BEEN COMPILED FROM PLANS PROVIDED BY THE UTILITY COMPANIES. THE LOCATION OF ALL SERVICES MUST BE CONFIRMED WITH THE RELEVANT SERVICE PROVIDER PRIOR TO UNDERTAKING ANY WORKS.

STATS KEY

TELEPHONE OVERHEAD
TELEPHONE UNDERGROUND
ELECTRICITY OVERHEAD
ELECTRICITY UNDERGROUND
WATER SUPPLIES

REV	DETAILS	CHKD	APPD	DATE
C2	NORTH ARROW ADDED TO LOCATION PLAN	AM	GR	28/06/2021
C1	FIRST ISSUE	SC	RP	21/12/2020

CLIENT: highways england
AGENT: KIER

SCHEME NAME: SCHEME 11 - 586
A30 CARMINOW CROSS TO HELLAND MP 95.2-96.1

DRAWING TITLE: STATUTORY UNDERTAKERS PLANT
(SHEET 1 OF 1)

DRAWN : DF	SCALE : 1:500	DRAWING STATUS	
DESIGN : DF	DIMENSIONS : m	WORK IN PROGRESS	
CHKD : SC	ORIG DWG SIZE: A1	PRELIMINARY DRAWING	
APPD : RP	COPYRIGHT© KIER	EXTERNAL ISSUE	✓
DATE : 21/12/2020		AS-BUILT	
SUITABILITY: A	FOR CONSTRUCTION		

DRAWING NUMBER

PROJECT	ORIGINATOR	VOLUME	SCHEME REFERENCE No.
HE570131D	KIER	GEN	570131D

LOCATION	TYPE	ROLE	NUMBER	REVISION
A30_MP_95-97_CR	DR	CH	010001	C 2