

# Regional Investment Programme M25 Junction 10/A3 Wisley Interchange Preliminary Environmental Information Report

Volume 3 - Figures  
08/02/18

Status: A1 Signed off - Publication

Document Ref: HE551522-ATK-EGN-RP-LM-000004.docx



## Notice

This document and its contents have been prepared and are intended solely for Highways England's information and use in relation to M25 Junction10/A3 Wisley Interchange

Atkins Limited assumes no responsibility to any other party in respect of or arising out of or in connection with this document and/or its contents.

## Document history

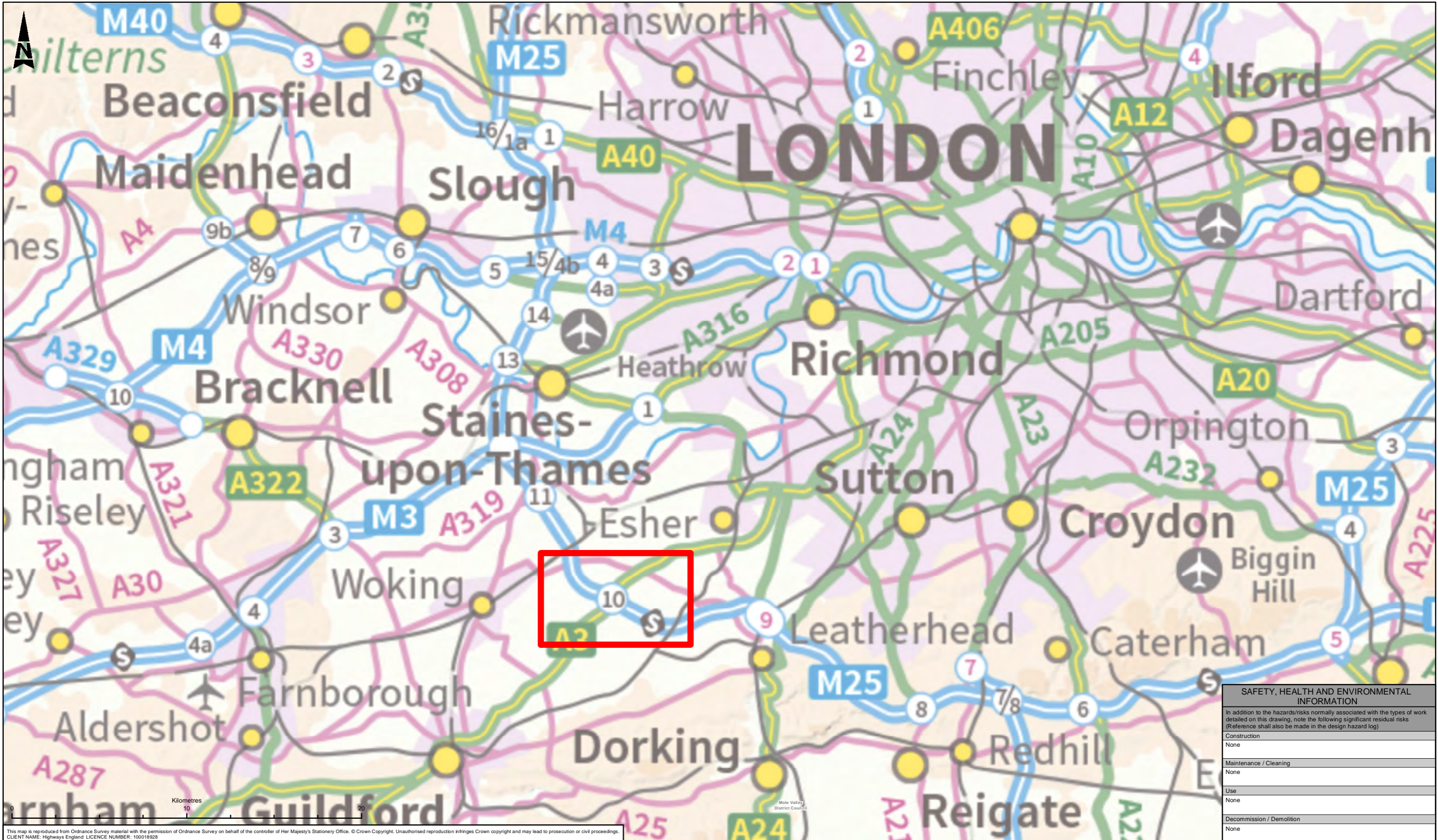
| Job number: HE551522 |        |                     | Document ref: HE551522-ATK-EGN-RP-LM-000004 |         |          |            |          |
|----------------------|--------|---------------------|---|---------|----------|------------|----------|
| Revision             | Status | Purpose description | Originated                                  | Checked | Reviewed | Authorised | Date     |
| C02                  | A1     | For HE Sign Off     | NDW   | NDW     | AMB      | AMB        | 08/02/18 |
| C01                  | A1     | For HE Review       | GB  | NDW     | AMB      | AMB        | 11/01/18 |
|                      |        |                     |   |         |          |            |          |
|                      |        |                     |   |         |          |            |          |
|                      |        |                     |   |         |          |            |          |
|                      |        |                     |   |         |          |            |          |
|                      |        |                     |   |         |          |            |          |
|                      |        |                     |   |         |          |            |          |
|                      |        |                     |   |         |          |            |          |

# Table of contents

## Chapter

|   |    |
|---|----|
| Table of contents   | 3  |
| 1. Introduction Figures                                       | 4  |
| 2. The Project Figures  | 5  |
| 3. Assessment of Alternatives Figures (not used)              | 6  |
| 4. Environmental Assessment Methodology Figures (not used)    | 7  |
| 5. Air Quality Figures  | 8  |
| 6. Noise and Vibration Figures                                | 9  |
| 6.1 Baseline Noise Levels                                     | 9  |
| 7. Biodiversity Figures                                       | 11 |
| 8. Road Drainage and the Water Environment Figures (not used) | 12 |
| 9. Landscape Figures  | 13 |
| 10. Geology and Soils Figures                                 | 14 |
| 11. Cultural Heritage Figures                                 | 15 |
| 12. Materials and Waste Figures (not used)                    | 16 |
| 13. People and Community Figures                              | 17 |
| 14. Climate Change and Disaster Prevention Figures (not used) | 18 |
| 15. Cumulative Effects Figures                                | 19 |

## 1. Introduction Figures



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018928

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     | C01      | FM    | NW      | AB       | GB         | 31/01/18   |

Drawing Suitability: **PUBLISHED**

Status: **A1**

**ATKINS**  
Member of the SNC-Lavalin Group

Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

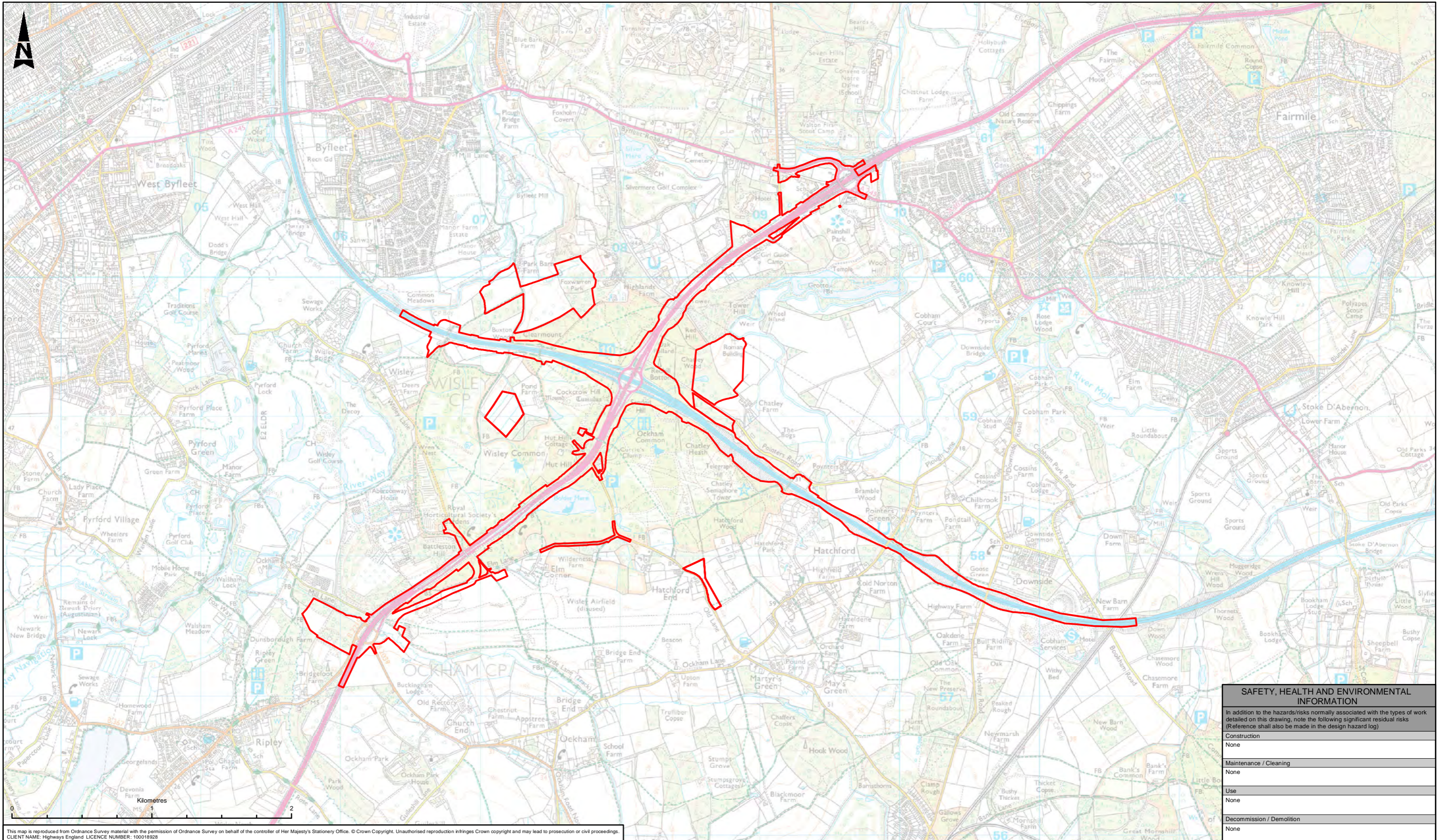
Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017) www.atkinsglobal.com

Client: **highways england**

|                      |                       |   |               |
|----------------------|-----------------------|---|---------------|
| Project Title        |                       | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10 |               |
| Drawing Title        |                       | FIGURE 1.1<br>LOCATION PLAN                   |               |
| Project              | Originator            | Volume  |               |
| HE551522 - ATK - EGN | XX - GS - GI - 000002 |   |               |
| Original Size: A3    | Scale: 1:200,000      | Project Ref. No: ---                          | Sheet: 1 of 1 |
|                      |                       |   | Rev: C01      |

## 2. The Project Figures



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018928

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |

**LEGEND**



DCO Boundary

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

|                           |      |
|---------------------------|------|
| Construction              | None |
| Maintenance / Cleaning    | None |
| Use                       | None |
| Decommission / Demolition | None |

Description

Status Revision Drawn Checked Reviewed Authorised Issue Date

Description

Status Revision Drawn Checked Reviewed Authorised Issue Date

Description

Status Revision Drawn Checked Reviewed Authorised Issue Date

Description

Status Revision Drawn Checked Reviewed Authorised Issue Date

Drawing Suitability

**PUBLISHED**

**ATKINS**

Member of the SNC-Lavalin Group

Copyright © Atkins Limited (2017)

Client



Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL  
Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055  
www.atkinsglobal.com

Status

**A1**

Project Title

**ROAD IMPROVEMENT PROGRAMME  
M25 Junction 10**

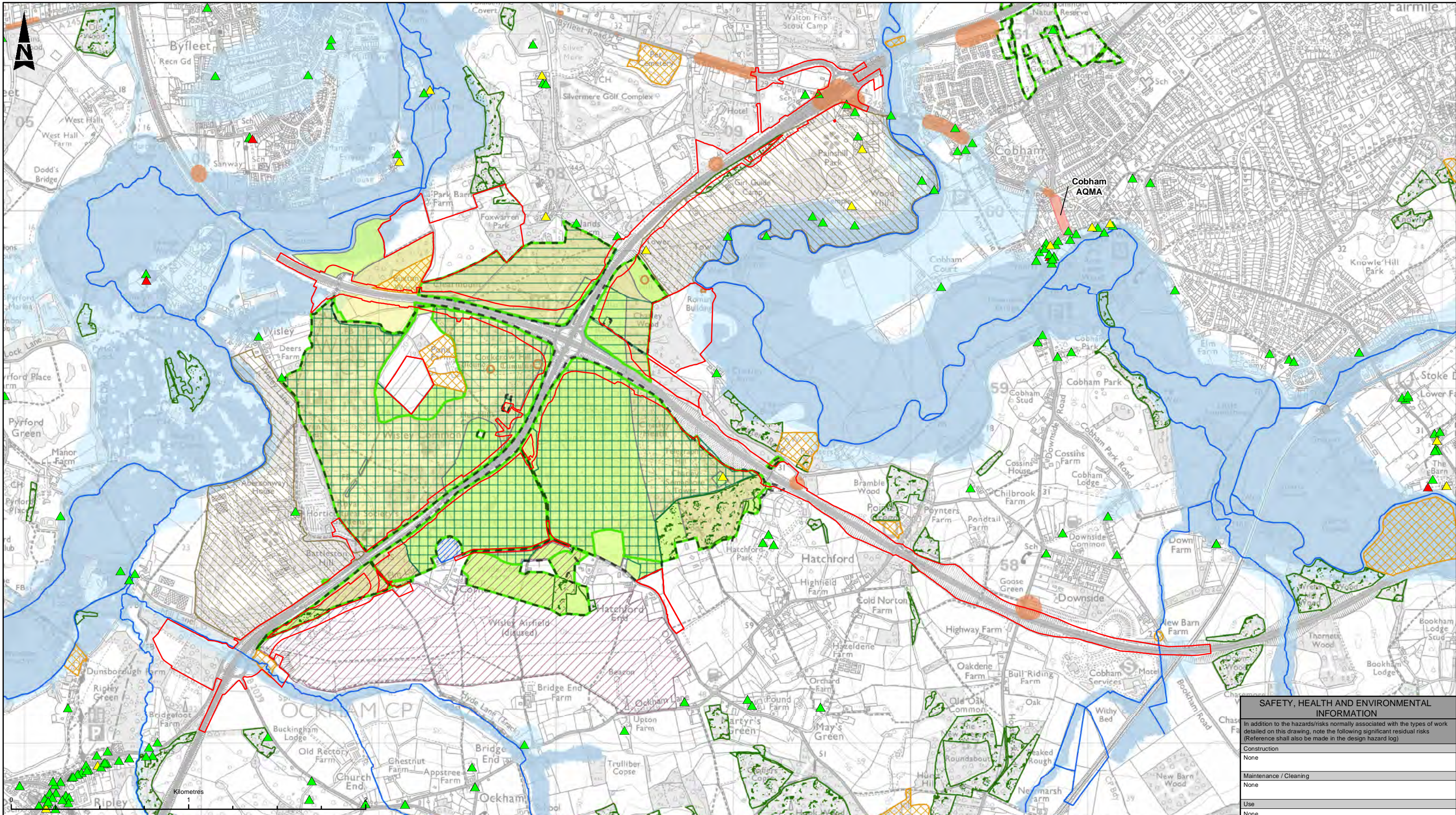
Drawing Title

**FIGURE 2.1  
ROUTE PROTECTION PLAN**

Drawing Number

Project | Originator | Volume  
HE551522 - ATK - EAC  
XX - GS - GI - 000001

Original Size: A3 Scale: 1:25,000 Project Ref. No.: --- Sheet: 1 of 1 Rev: C01



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018828  
 © Historic England 2017. Contains Ordnance Survey data © Crown copyright and database right 2017. The Historic England GIS Data contained in this material was obtained in 2017. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk.  
 © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2017. NB The LNR national dataset is 'indicative' not 'definitive'. Definitive information can only be provided by individual local authorities and you should refer directly to their information for all purposes that require the most up to date and complete dataset.  
 Contains Environment Agency information © Environment Agency copyright and/or database right 2016. All rights reserved. © Crown copyright and database rights 2014 Ordnance Survey 100024136. Contains information © Local Authorities.  
 Contains public sector information licensed under the Open Government Licence v3.0.

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| LEGEND  |                                   |                           |
|---|-----------------------------------|---------------------------|
| DCO Boundary                                  | Registered Common Land            | Registered Park & Garden  |
| Site of Special Scientific Interest (SSSI)    | Registered Village Green          | Scheduled Monument        |
| Special Protection Area (SPA)                 | Public Open Space                 | Grade I listed building   |
| Local Nature Reserve (LNR)                    | Access Land as on 1:25,000 OS Map | Grade II* listed building |
| Ancient Woodland                              | Land Fill Site (Historic)         | Grade II listed building  |
| Air Quality Management Area                   | Flood Zone 3                      |                           |
| Important Area for Noise                      | Flood Zone 2                      |                           |
| Site of Nature Conservation Importance (SNCI) | Watercourses                      |                           |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     |          | JVR   | NW      | AB       | GB         | 06/02/18   |

**ATKINS**  
 Member of the SNC-Lavalin Group  
 Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL  
 Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

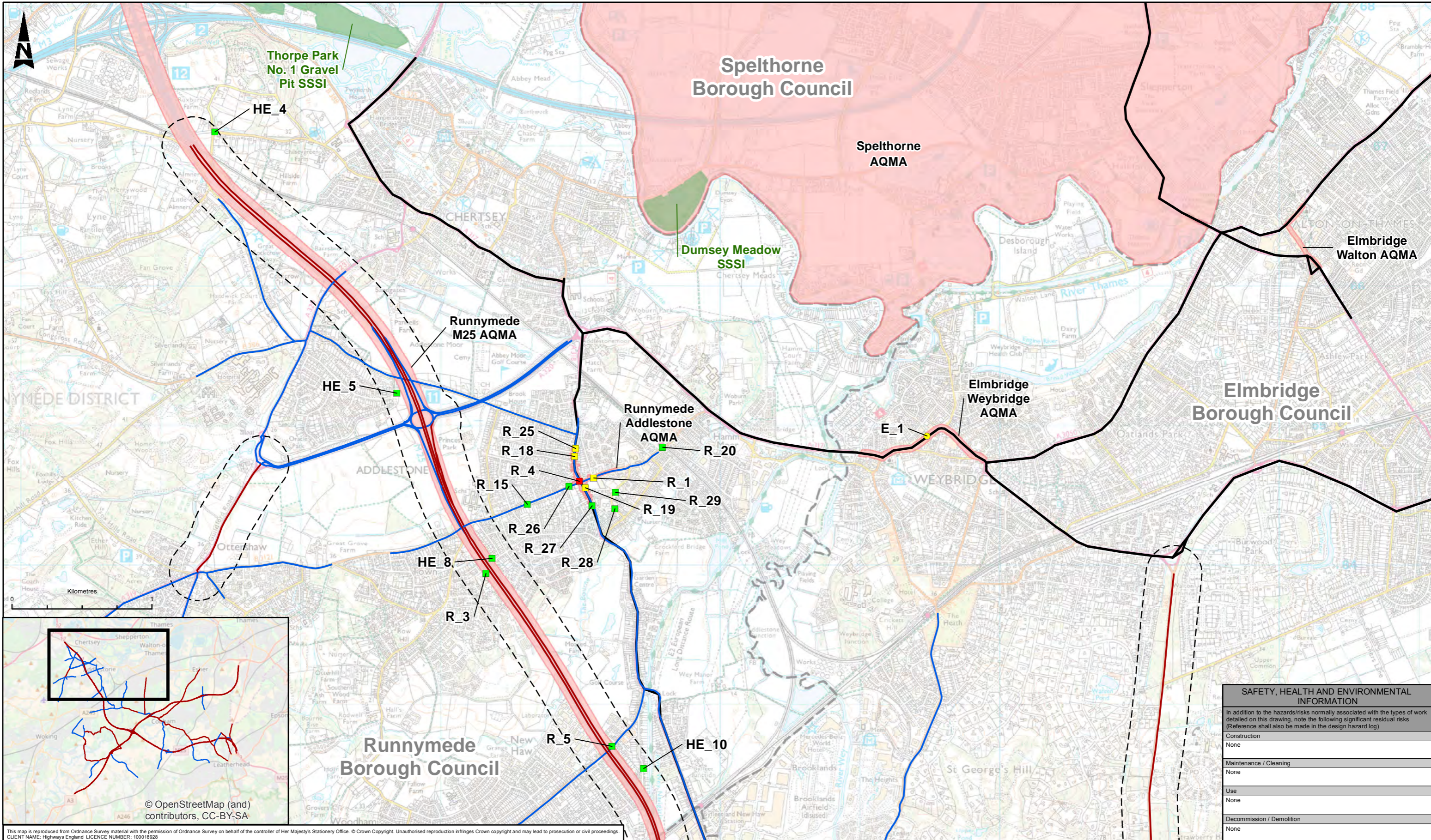
|                   |                 |  |               |
|-------------------|-----------------|--|---------------|
| Project Title     |                 | ROAD IMPROVEMENT PROGRAMME M25 Junction 10             |               |
| Drawing Title     |                 | FIGURE 2.2 ENVIRONMENTAL CONSTRAINTS PLAN              |               |
| Drawing Number    |                 | Project: HE551522 - ATK - EGN<br>XX - GS - GI - 000001 |               |
| Original Size: A3 | Scale: 1:20,000 | Project Ref. No: ---                                   | Sheet: 1 of 1 |
| Revision: C01     |                 | Rev: C01   |               |



### 3. Assessment of Alternatives Figures (not used)

## 4. Environmental Assessment Methodology Figures (not used)

## 5. Air Quality Figures



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

**LEGEND**

- Local Authority Boundary
- Designated Ecological Sites
- Air Quality Management Area
- DEFRA PCM Roadside NO<sub>2</sub> Concentrations (2015)
  - <math>< 40 \mu\text{g}/\text{m}^3</math>
  - > 40 <math>\mu\text{g}/\text{m}^3</math>
- 200m study area around Affected Road Network
- Affected Road Network
- Unaffected Road Network

**Diffusion Tube Monitoring Sites (2015)**

**Annual Mean NO<sub>2</sub> Concentration**

- No data
- <math>< 36 \mu\text{g}/\text{m}^3</math>
- <math>36 \text{ to } 40 \mu\text{g}/\text{m}^3</math>
- > 40 <math>\mu\text{g}/\text{m}^3</math>

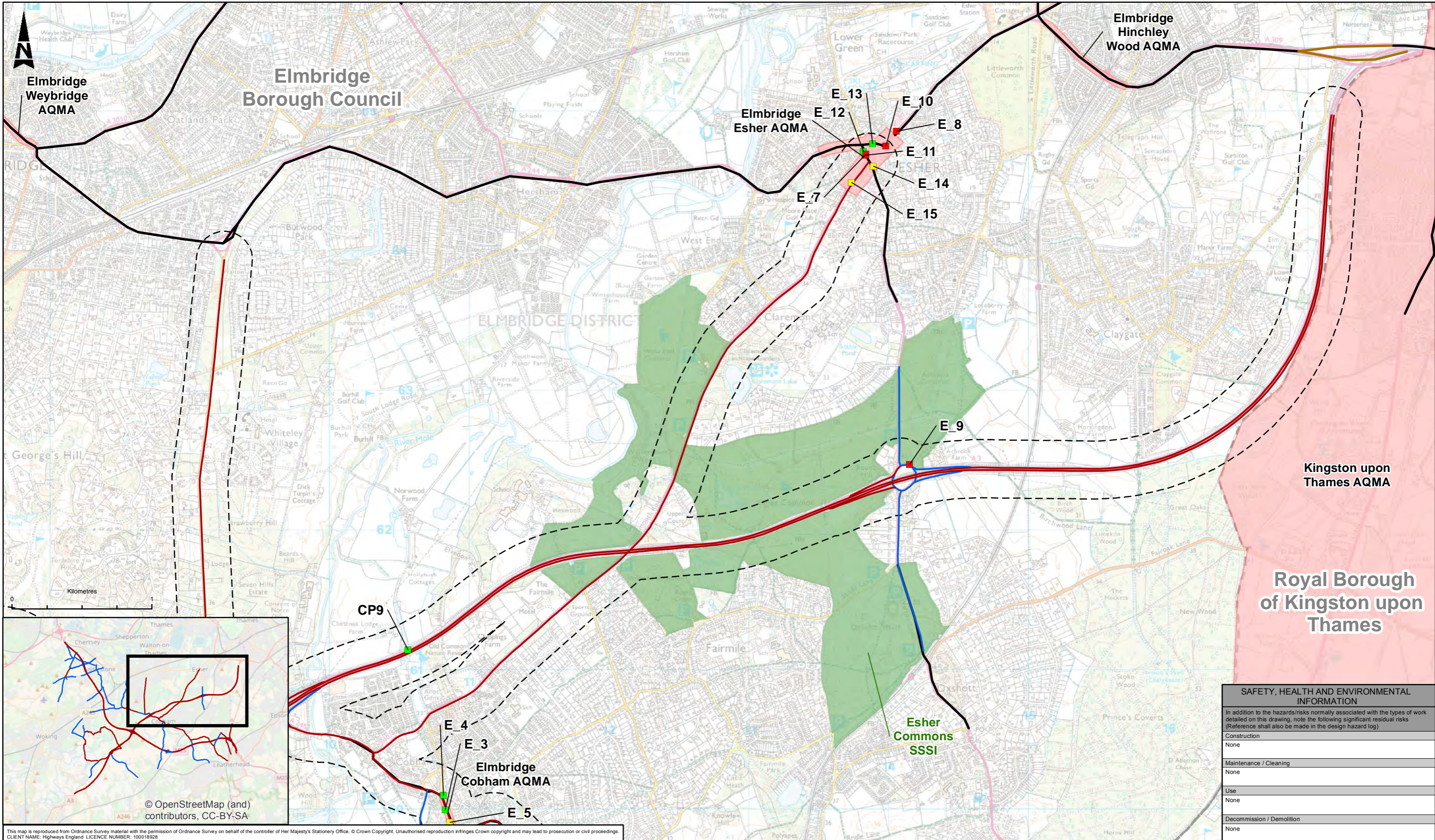
**Continuous Monitoring Sites (2015)**

**Annual Mean NO<sub>2</sub> Concentration**

- No data
- <math>< 36 \mu\text{g}/\text{m}^3</math>
- <math>36 \text{ to } 40 \mu\text{g}/\text{m}^3</math>
- > 40 <math>\mu\text{g}/\text{m}^3</math>

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

|             |          |                     |         |   |            |                |  |  |  |
|-------------|----------|---------------------|---------|---|------------|----------------|--|--|--|
| Description |          | Drawing Suitability | Status  | Project Title   |            |                |  |  |  |
| Status      | Revision | Drawn               | Checked | Reviewed  | Authorised | Issue Date     | PUBLISHED  | A1   | ROAD IMPROVEMENT PROGRAMME M25 Junction 10 |
| Description |          |                     |         | Epsom Gateway<br>Ashley Avenue<br>Epsom<br>Surrey<br>KT18 5AL<br>Tel: +44 (0) 1372 726140<br>Fax: +44 (0) 1372 740055<br>Copyright © Atkins Limited (2017) www.atkinsglobal.com |            | Drawing Title  |  | FIGURE 5.1<br>AIR QUALITY CONSTRAINTS<br>SHEET 1 of 5                          |  |
| Description |          |                     |         | Client  |            | Drawing Number |  | Project   Originator   Volume<br>HE551522 - ATK - EAQ<br>XX - GS - GI - 000004 |  |
| Status      | Revision | Drawn               | Checked | Reviewed  | Authorised | Issue Date     | Original Location Type Project Role Sheet Number Rev<br>Size: A3 Scale: 1:25,000 Ref. No. --- 1 of 5 C01 |  |  |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018928

| LEGEND |  | Diffusion Tube Monitoring Sites (2015) |   | Continuous Monitoring Sites (2015) |   |
|--------|--|--|---|------------------------------------|---|
|        | Local Authority Boundary                                 |  | No data   |                                    | No data   |
|        | Designated Ecological Sites                              |  | <math>< 36 \mu\text{g}/\text{m}^3</math>              |                                    | <math>< 36 \mu\text{g}/\text{m}^3</math>              |
|        | Air Quality Management Area                              |  | <math>36 \text{ to } 40 \mu\text{g}/\text{m}^3</math> |                                    | <math>36 \text{ to } 40 \mu\text{g}/\text{m}^3</math> |
|        | DEFRA PCM Roadside NO <sub>2</sub> Concentrations (2015) |  | <math>> 40 \mu\text{g}/\text{m}^3</math>              |                                    | <math>> 40 \mu\text{g}/\text{m}^3</math>              |
|        | Affected Road Network                                    |  |   |                                    |   |
|        | Unaffected Road Network                                  |  |   |                                    |   |
|        | 200m study area around Affected Road Network             |  |   |                                    |   |

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     |          |       |         |          |            |            |

**ATKINS**  
Member of the SNC-Lavalin Group

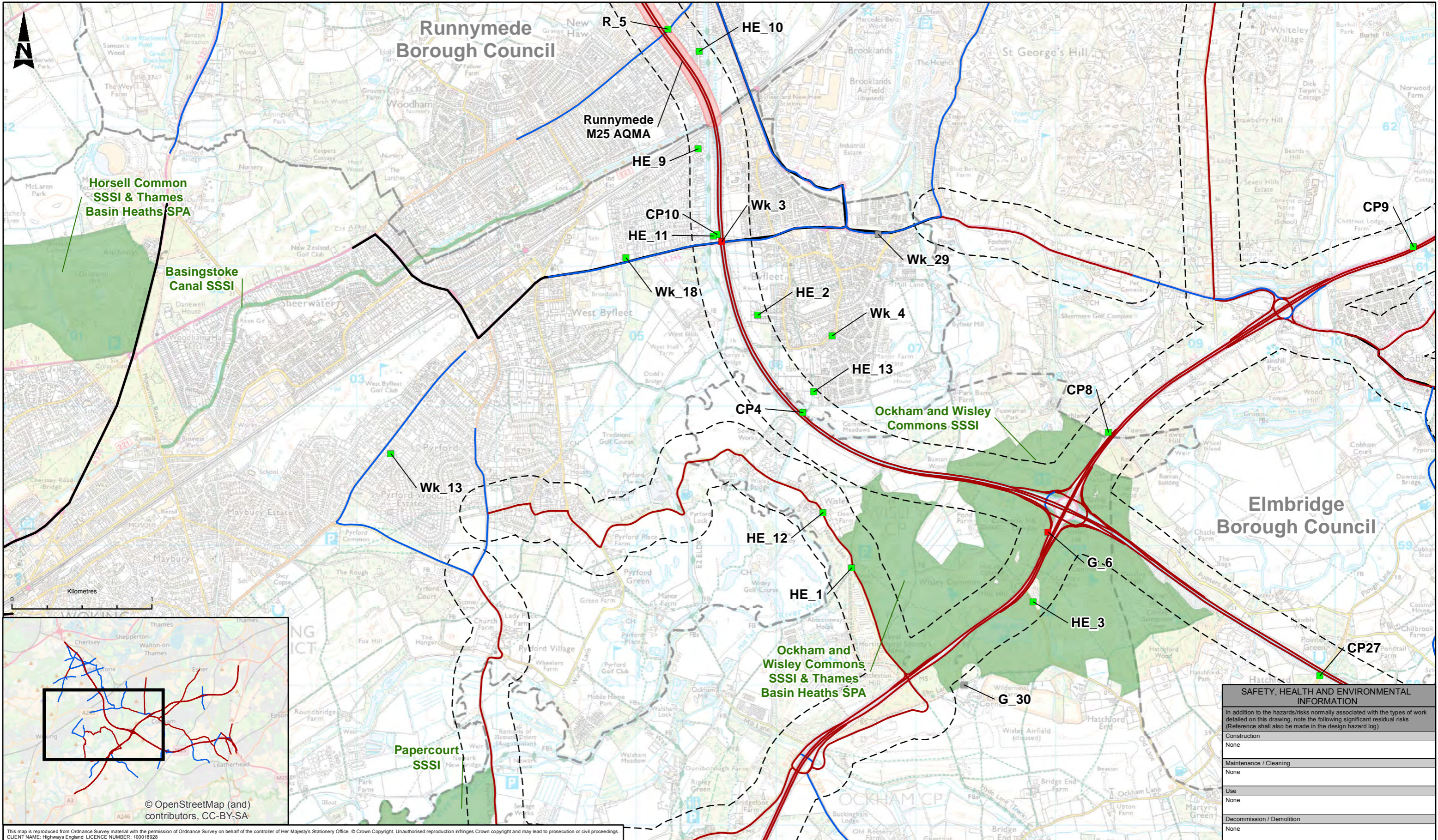
Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055  
www.atkinsglobal.com

Copyright © Atkins Limited (2017)

**highways england**

| Project Title   |                       |                     |               |          |
|---|-----------------------|---------------------|---------------|----------|
| ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10         |                       |                     |               |          |
| Drawing Title   |                       |                     |               |          |
| FIGURE 5.1<br>AIR QUALITY CONSTRAINTS<br>SHEET 2 of 5 |                       |                     |               |          |
| Drawing Number  |                       |                     |               |          |
| Project   | Originator            | Volume              |               |          |
| HE551522 - ATK - EAQ                                  | XX - GS - GI - 000005 |                     |               |          |
| Original Size   |                       |                     |               |          |
| A3  | Scale: 1:25,000       | Project Ref. No: -- | Sheet: 2 of 5 | Rev: C01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

**LEGEND**

- Local Authority Boundary
- Designated Ecological Sites
- Air Quality Management Area
- DEFRA PCM Roadside NO<sub>2</sub> Concentrations (2015)
  - < 40 µg/m<sup>3</sup>
  - > 40 µg/m<sup>3</sup>
- 200m study area around Affected Road Network
- Affected Road Network
- Unaffected Road Network

**Diffusion Tube Monitoring Sites (2015)**

**Annual Mean NO<sub>2</sub> Concentration**

- No data
- < 36 µg/m<sup>3</sup>
- 36 to 40 µg/m<sup>3</sup>
- > 40 µg/m<sup>3</sup>

**Continuous Monitoring Sites (2015)**

**Annual Mean NO<sub>2</sub> Concentration**

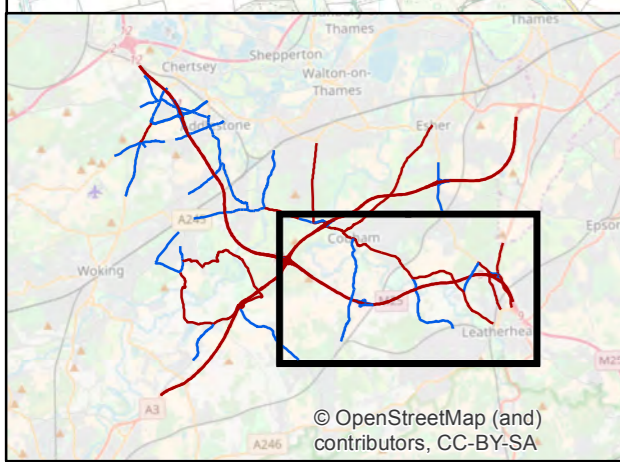
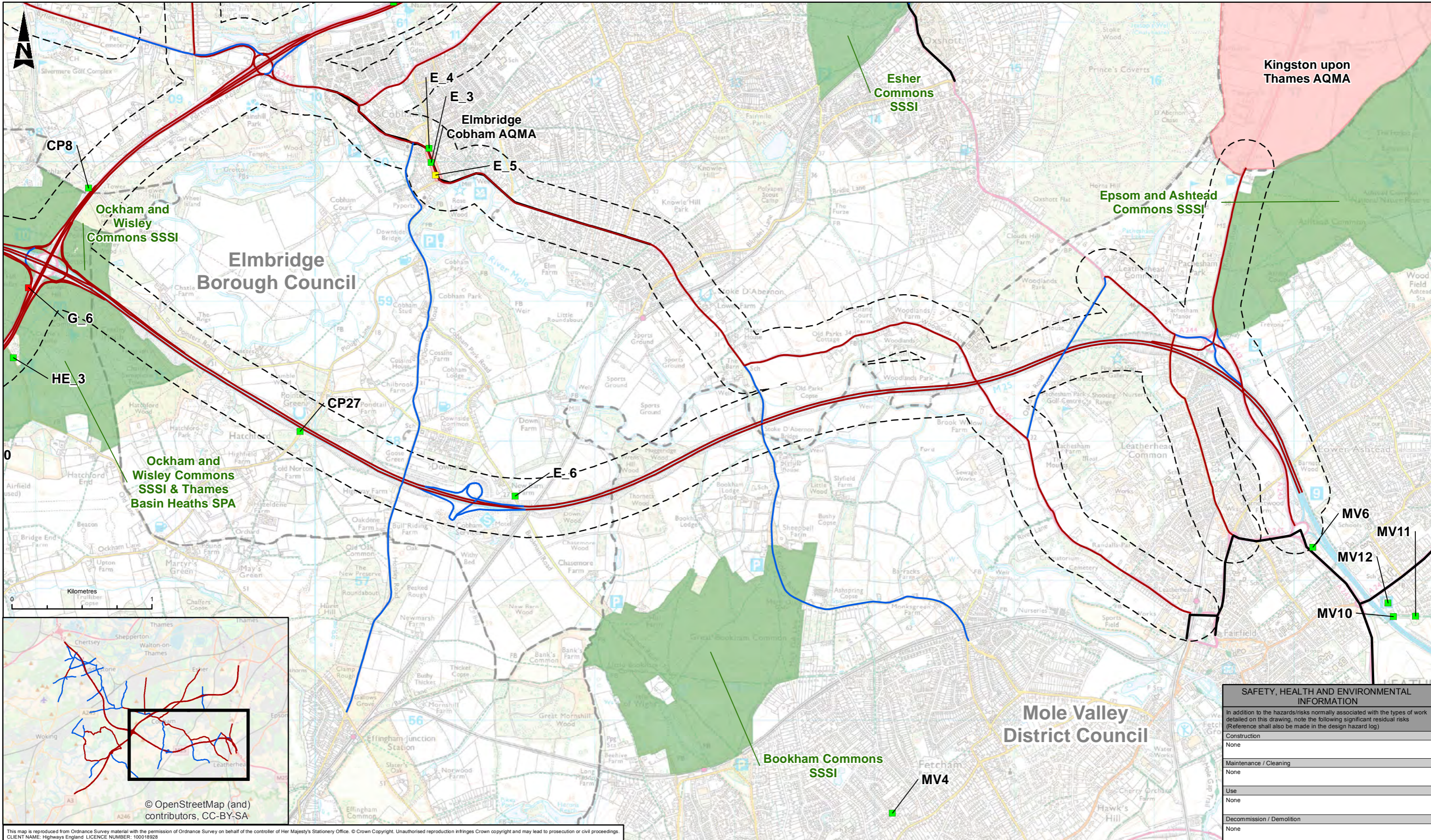
- No data
- < 36 µg/m<sup>3</sup>
- 36 to 40 µg/m<sup>3</sup>
- > 40 µg/m<sup>3</sup>

| Description | Status    | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|-----------|----------|-------|---------|----------|------------|------------|
| Published   | PUBLISHED | A1       | SD    | NW      | AB       | GB         | 01/02/18   |

**ATKINS**  
 Member of the SNC-Lavalin Group  
 Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL  
 Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |  |
|---|--|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |  |
| Construction  | None   |
| Maintenance / Cleaning  | None   |
| Use   | None   |
| Decommission / Demolition   | None   |
| Project Title   | ROAD IMPROVEMENT PROGRAMME M25 Junction 10   |
| Drawing Title   | FIGURE 5.1 AIR QUALITY CONSTRAINTS SHEET 3 of 5                                      |
| Drawing Number  | Project: HE551522 - ATK - EAQ<br>Originator: XX - GS - GI - 000006<br>Volume: 3 of 5 |
| Original Size: A3   | Scale: 1:25,000<br>Project Ref. No.: --<br>Sheet: 3 of 5<br>Rev: C01                 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

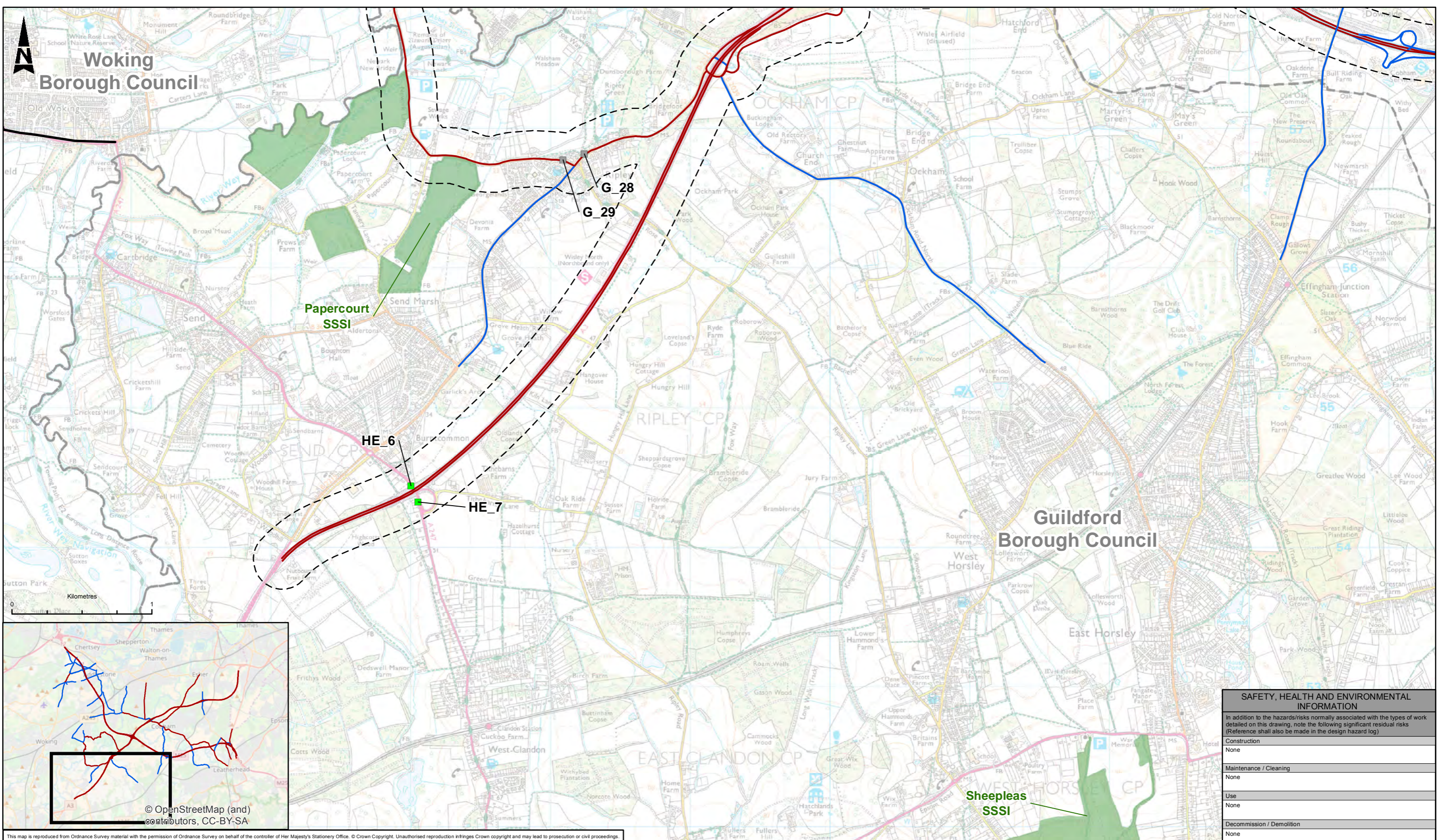
| LEGEND   |  | Diffusion Tube Monitoring Sites (2015)          |                        | Continuous Monitoring Sites (2015)              |                        |
|--|--|---|------------------------|---|------------------------|
| Local Authority Boundary                                       | 200m study area around Affected Road Network | <b>Annual Mean NO<sub>2</sub> Concentration</b> |                        | <b>Annual Mean NO<sub>2</sub> Concentration</b> |                        |
| Designated Ecological Sites                                    | Affected Road Network                        | No data   | < 36 µg/m <sup>3</sup> | No data   | < 36 µg/m <sup>3</sup> |
| Air Quality Management Area                                    | Unaffected Road Network                      | 36 to 40 µg/m <sup>3</sup>                      | > 40 µg/m <sup>3</sup> | 36 to 40 µg/m <sup>3</sup>                      | > 40 µg/m <sup>3</sup> |
| <b>DEFRA PCM Roadside NO<sub>2</sub> Concentrations (2015)</b> |  |   |                        |   |                        |
| < 40 µg/m <sup>3</sup>   |  |   |                        |   |                        |
| > 40 µg/m <sup>3</sup>   |  |   |                        |   |                        |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     |          |       |         |          |            |            |

**ATKINS**  
 Member of the SNC-Lavalin Group  
 Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL  
 Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

|                   |   |                       |                        |
|-------------------|---|-----------------------|------------------------|
| Project Title     | ROAD IMPROVEMENT PROGRAMME M25 Junction 10      |                       |                        |
| Drawing Title     | FIGURE 5.1 AIR QUALITY CONSTRAINTS SHEET 4 of 5 |                       |                        |
| Drawing Number    | Project   | Originator            | Volume                 |
|                   | HE551522 - ATK - EAQ                            | XX - GS - GI - 000007 |                        |
| Original Size: A3 | Scale: 1:25,000                                 | Project Ref. No: --   | Sheet: 4 of 5 Rev: C01 |



**LEGEND**

|                             |  |
|-----------------------------|--|
| Local Authority Boundary    | 200m study area around Affected Road Network |
| Designated Ecological Sites | Affected Road Network                        |
| Air Quality Management Area | Unaffected Road Network                      |

**DEFRA PCM Roadside NO<sub>2</sub> Concentrations (2015)**

|                            |                        |
|----------------------------|------------------------|
| < 40 µg/m <sup>3</sup>     | > 40 µg/m <sup>3</sup> |
| 36 to 40 µg/m <sup>3</sup> |                        |

**Diffusion Tube Monitoring Sites (2015)**

**Annual Mean NO<sub>2</sub> Concentration**

|                            |                        |
|----------------------------|------------------------|
| No data                    | < 36 µg/m <sup>3</sup> |
| 36 to 40 µg/m <sup>3</sup> | > 40 µg/m <sup>3</sup> |

**Continuous Monitoring Sites (2015)**

**Annual Mean NO<sub>2</sub> Concentration**

|                            |                        |
|----------------------------|------------------------|
| No data                    | < 36 µg/m <sup>3</sup> |
| 36 to 40 µg/m <sup>3</sup> | > 40 µg/m <sup>3</sup> |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     |          |       |         |          |            |            |

|                                   |  |   |  |
|-----------------------------------|--|---|--|
| <b>ATKINS</b>                     |  | Epsom Gateway<br>Ashley Avenue<br>Epsom<br>Surrey<br>KT18 5AL |  |
| Member of the SNC-Lavalin Group   |  | Tel: +44 (0) 1372 726140<br>Fax: +44 (0) 1372 740055          |  |
| Copyright © Atkins Limited (2017) |  | www.atkinsglobal.com  |  |

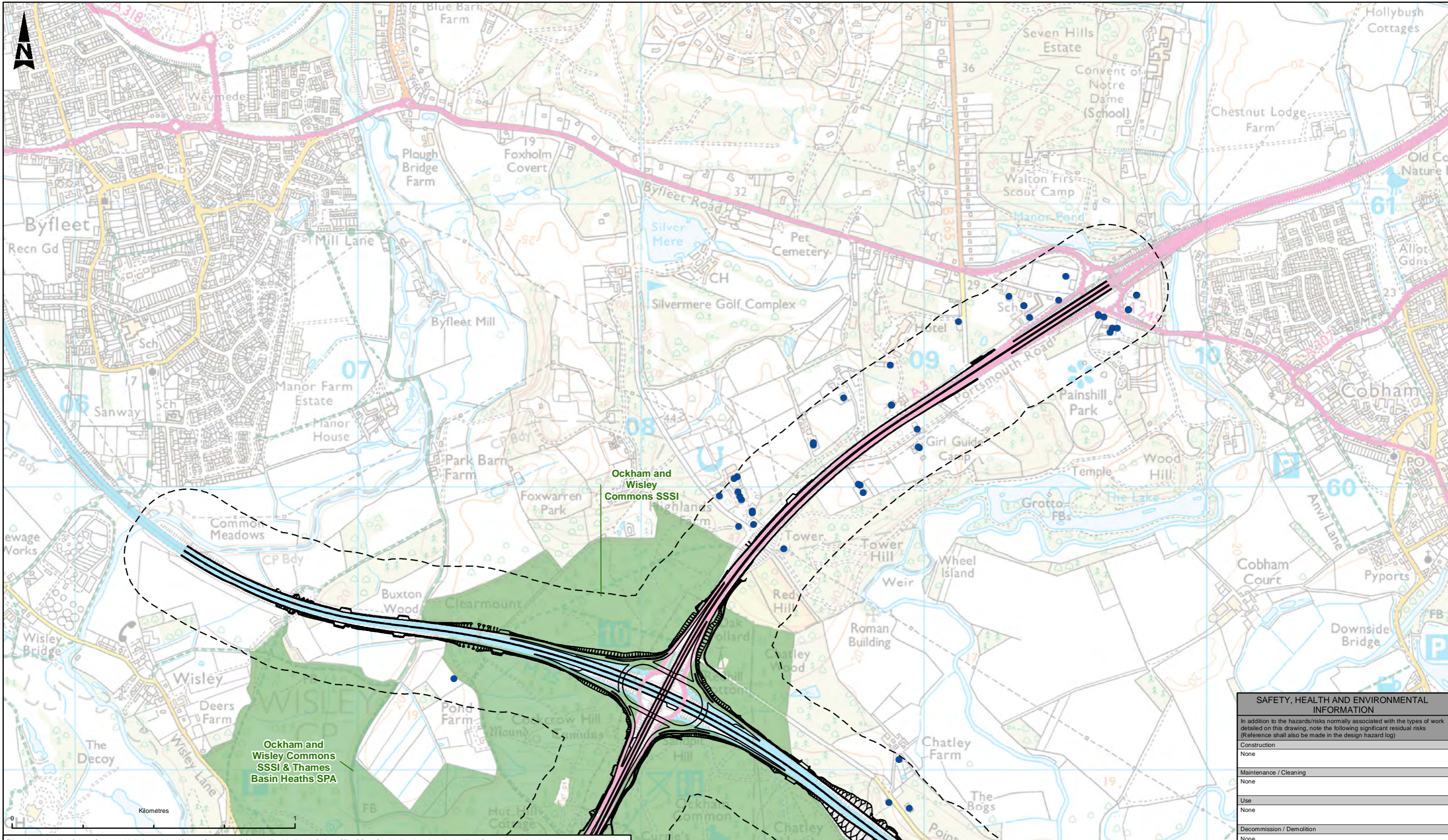
|                         |  |
|-------------------------|--|
| <b>highways england</b> |  |
|-------------------------|--|

|   |      |
|---|------|
| <b>SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION</b>   |      |
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

|                   |  |
|-------------------|--|
| Project Title     | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10                                  |
| Drawing Title     | FIGURE 5.1<br>AIR QUALITY CONSTRAINTS<br>SHEET 5 of 5                          |
| Drawing Number    | Project   Originator   Volume<br>HE551522 - ATK - EAQ<br>XX - GS - GI - 000008 |
| Original Size: A3 | Scale: 1:25,000<br>Project Ref. No: --<br>Sheet: 5 of 5<br>Rev: C01            |

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018928





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

**LEGEND**

- Proposed Alignment
- Area Potentially Affected by Construction Dust
- Designated Ecological Sites
- Receptors Sensitive to Construction Dust

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     |          | SD    | NW      | AB       | GB         | 08/02/18   |

**ATKINS**  
 Member of the SNC-Lavalin Group  
 Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL  
 Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 www.atkinsglobal.com

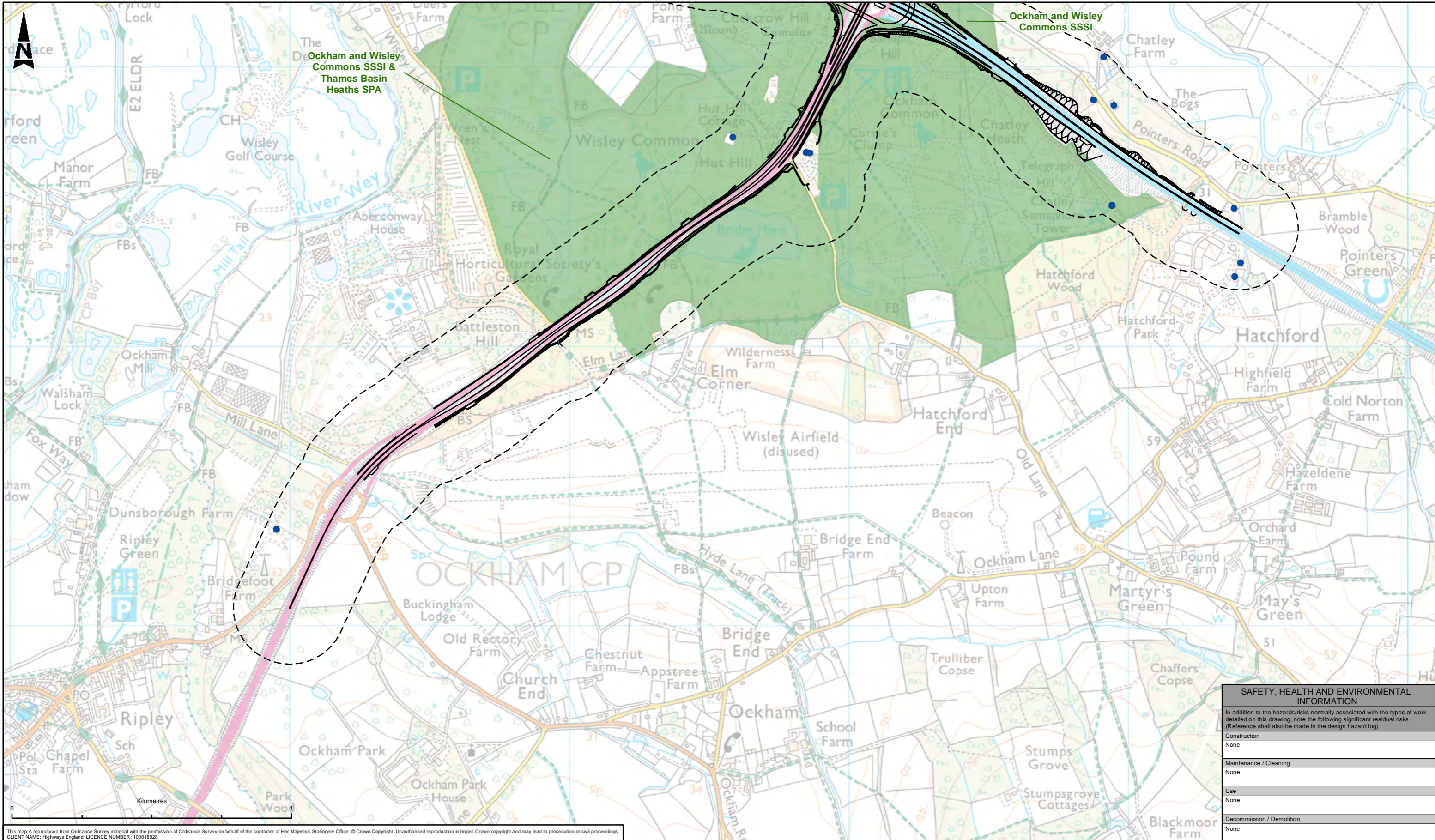
**highways england**

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

|                           |      |
|---------------------------|------|
| Construction              | None |
| Maintenance / Cleaning    | None |
| Use                       | None |
| Decommission / Demolition | None |

|                |  |                       |          |                  |     |
|----------------|--|-----------------------|----------|------------------|-----|
| Project Title  | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10                                |                       |          |                  |     |
| Drawing Title  | FIGURE 5.2<br>STUDY AREA FOR CONSTRUCTION<br>DUST ASSESSMENT<br>SHEET 1 of 2 |                       |          |                  |     |
| Drawing Number | Project  | Originator            | Volume   |                  |     |
|                | HE551522 - ATK - EAQ   | XX - GS - GI - 000002 |          |                  |     |
| Original Size  | A3   | Scale                 | 1:12,500 | Project Ref. No. | --- |
|                |  | Sheet                 | 1 of 1   | Rev.             | C01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

- LEGEND**
- Proposed Alignment
  - Area Potentially Affected by Construction Dust
  - Designated Ecological Sites
  - Receptors Sensitive to Construction Dust

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |

**ATKINS**  
 Member of the SNC-Lavalin Group

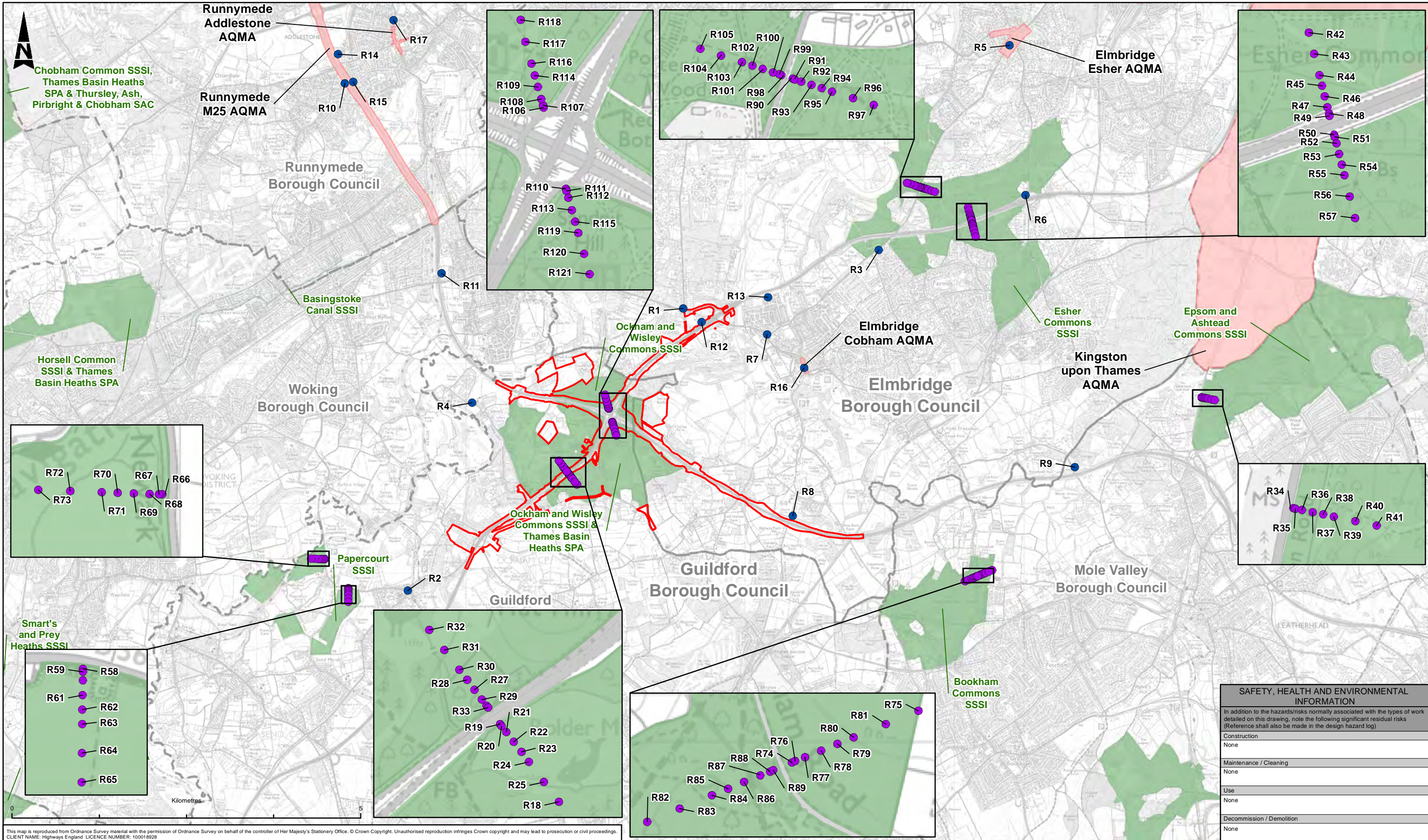
Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL

Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 www.atkinsglobal.com

Copyright © Atkins Limited (2017)

**highways england**

|                   |                 |  |                        |
|-------------------|-----------------|--|------------------------|
| Project Title     |                 | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10                                  |                        |
| Drawing Title     |                 | FIGURE 5.2<br>STUDY AREA FOR CONSTRUCTION<br>DUST ASSESSMENT<br>SHEET 2 of 2   |                        |
| Drawing Number    |                 | Project   Originator   Volume<br>HE551522 - ATK - EAQ<br>XX - GS - GI - 000003 |                        |
| Original Size: A3 | Scale: 1:12,500 | Project Ref. No: ---   | Sheet: 1 of 1 Rev: C01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018828

**LEGEND**

|  |                             |  |                                |
|--|-----------------------------|--|--------------------------------|
|  | DCO Boundary                |  | Selected Human Health Receptor |
|  | Local Authority Boundary    |  | Ecological Receptor            |
|  | Air Quality Management Area |  |                                |
|  | Designated Ecological Sites |  |                                |

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

|             |          |                     |         |          |            |               |                       |
|-------------|----------|---------------------|---------|----------|------------|---------------|-----------------------|
| Description |          | Drawing Suitability |         | Status   |            | Project Title |                       |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | PUBLISHED             |
| Description |          | Drawing Suitability |         | Status   |            | Project Title |                       |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | A1                    |
| Description |          | Drawing Suitability |         | Status   |            | Project Title |                       |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | HE551522 - ATK - EAQ  |
| Description |          | Drawing Suitability |         | Status   |            | Project Title |                       |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | XX - GS - GI - 000009 |
| Description |          | Drawing Suitability |         | Status   |            | Project Title |                       |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | 1 of 1                |
| Description |          | Drawing Suitability |         | Status   |            | Project Title |                       |
| Status      | Revision | Drawn               | Checked | Reviewed | Authorised | Issue Date    | C01                   |

**ATKINS**  
Member of the SNC-Lavalin Group

Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055

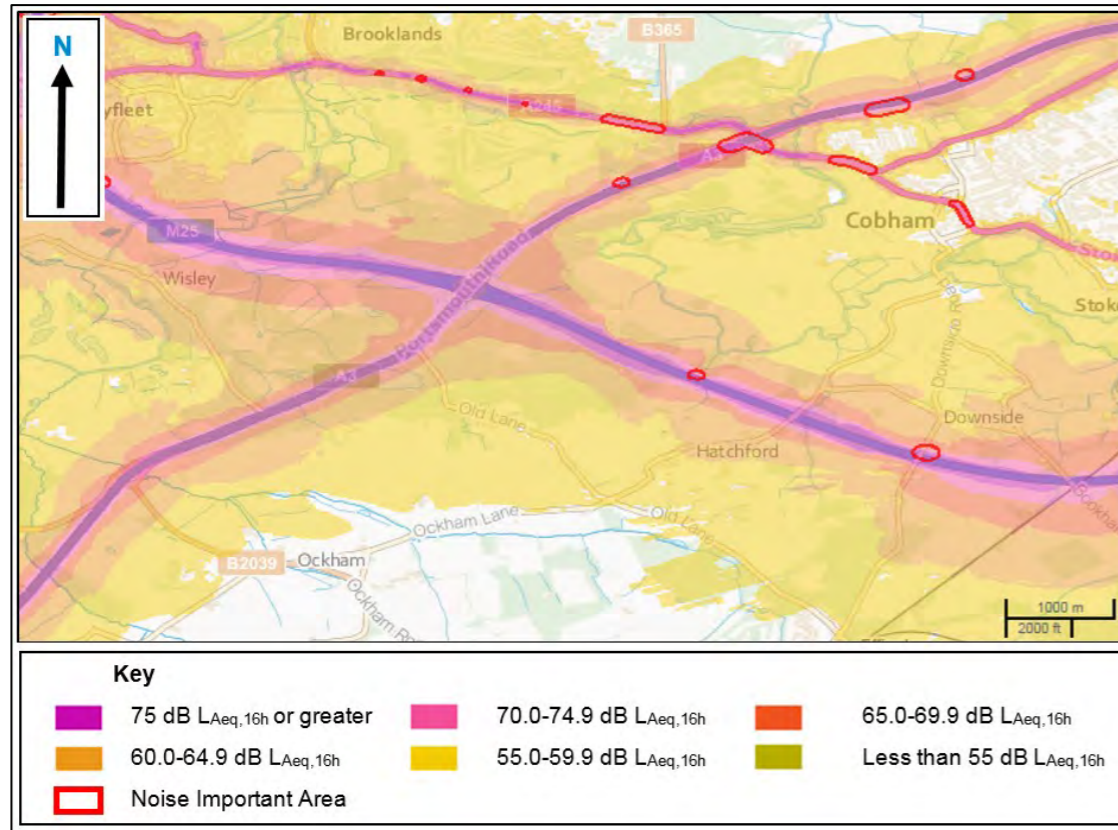
Copyright © Atkins Limited (2017) www.atkinsglobal.com

## 6. Noise and Vibration Figures

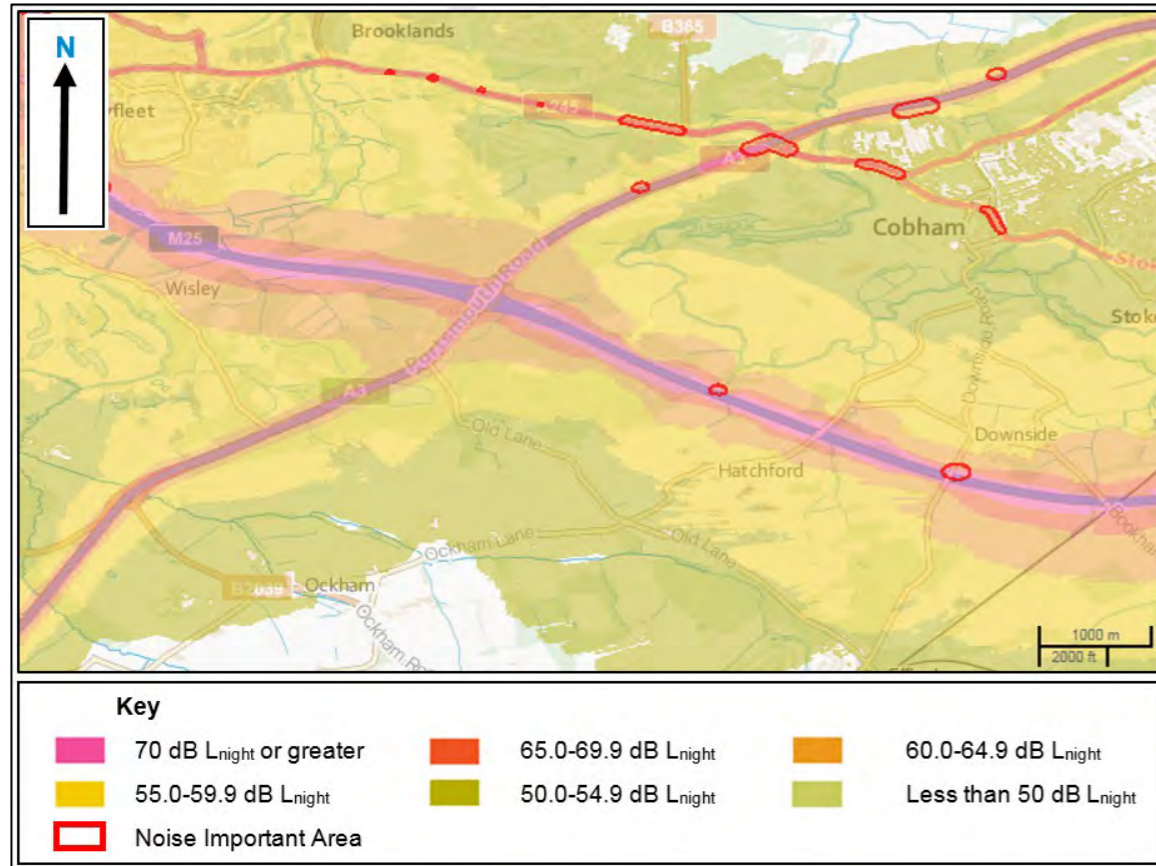
### 6.1 Baseline Noise Levels

6.1.1 Strategic noise maps were published during 2015 by Defra for both major road and railways sources to meet the requirements of the Environmental Noise Directive (Directive 2002/49/EC) and the Environmental Noise (England) Regulations 2006 (as amended). The strategic noise maps for road traffic noise during the daytime (07:00-23:00) and night-time (23:00-07:00) periods are shown in below in Figure 6.3 and Figure 6.4.

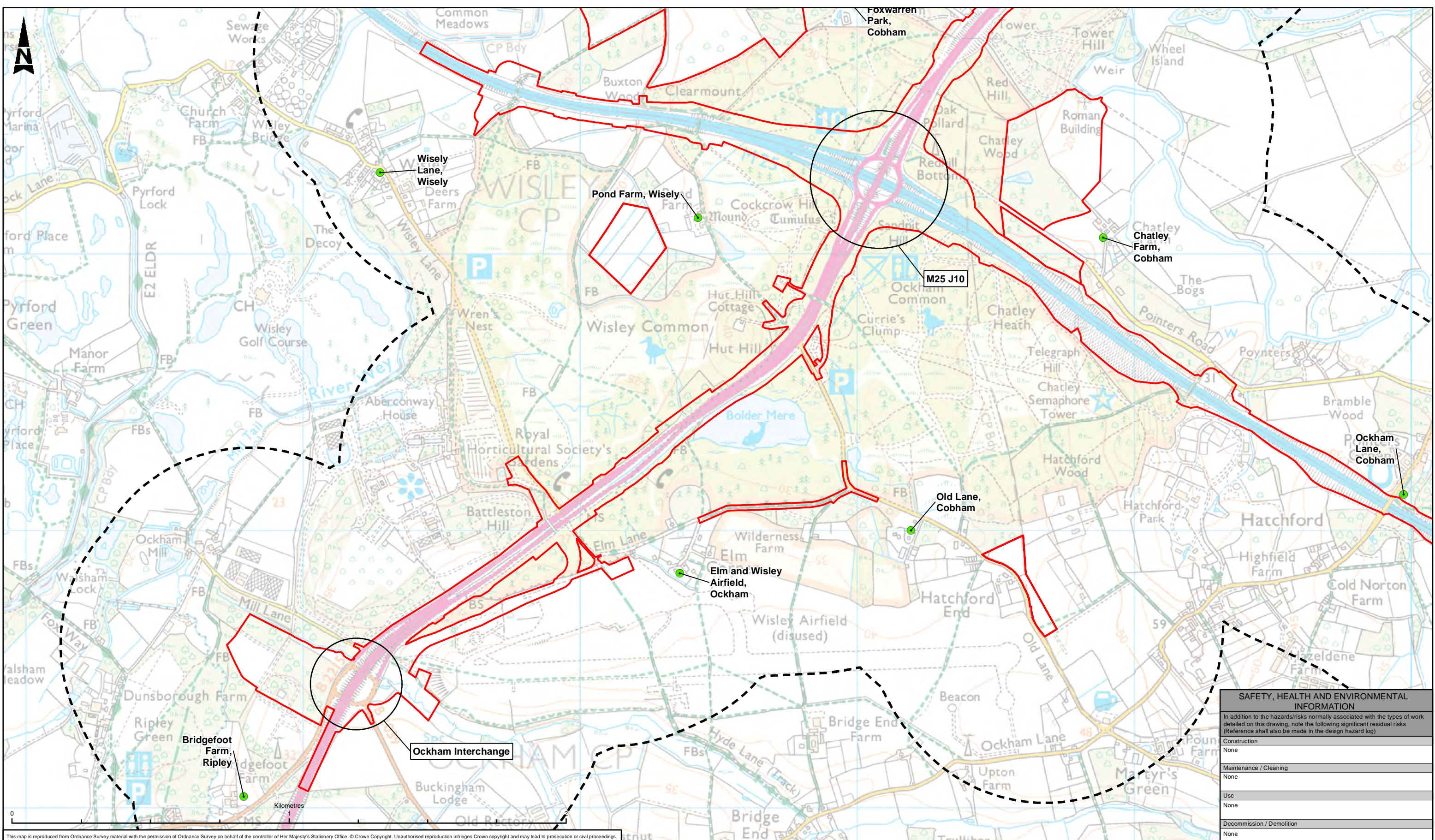
**Figure 6.3: Defra Round 2 Environmental Noise Maps - Road Noise  $L_{Aeq,16h}$  (07:00-23:00)**



**Figure 6.4: Defra Round 2 Environmental Noise Maps - Road Noise  $L_{night}$  (23:00-07:00)**



- 6.1.2 The noise levels shown in the strategic noise maps above represent the annual average noise from road sources during 2012 within areas with populations of 100,000 people (agglomerations) and along major traffic routes. The noise levels shown were calculated for a receptor height of 4 m above ground level.
- 6.1.3 Important Areas for noise were identified to highlight any particular constraints on the Scheme. Important Areas are the locations where the 1% of the population are affected by the highest noise levels from major roads and railways according to the strategic noise mapping undertaken by Defra.
- 6.1.4 The strategic noise maps for road traffic noise indicate that the average noise levels exceed 60 dB  $L_{Aeq,16h}$  during the daytime and 55 dB  $L_{night}$  at the majority of locations within 600 m of the extents of the Scheme. Areas with higher noise levels are close to the M25 Junction 10/A3 Wisley Interchange, where the land use is mainly rural with isolated buildings.



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018628

**LEGEND**

- DCO Boundary
- 600m Study Area
- Noise Sensitive Receptors

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     | C01      | FM    | NW      | AB       | GB         | 06/02/18   |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     | C01      | FM    | NW      | AB       | GB         | 06/02/18   |

**ATKINS**  
 Member of the SNC-Lavalin Group  
 Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL  
 Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

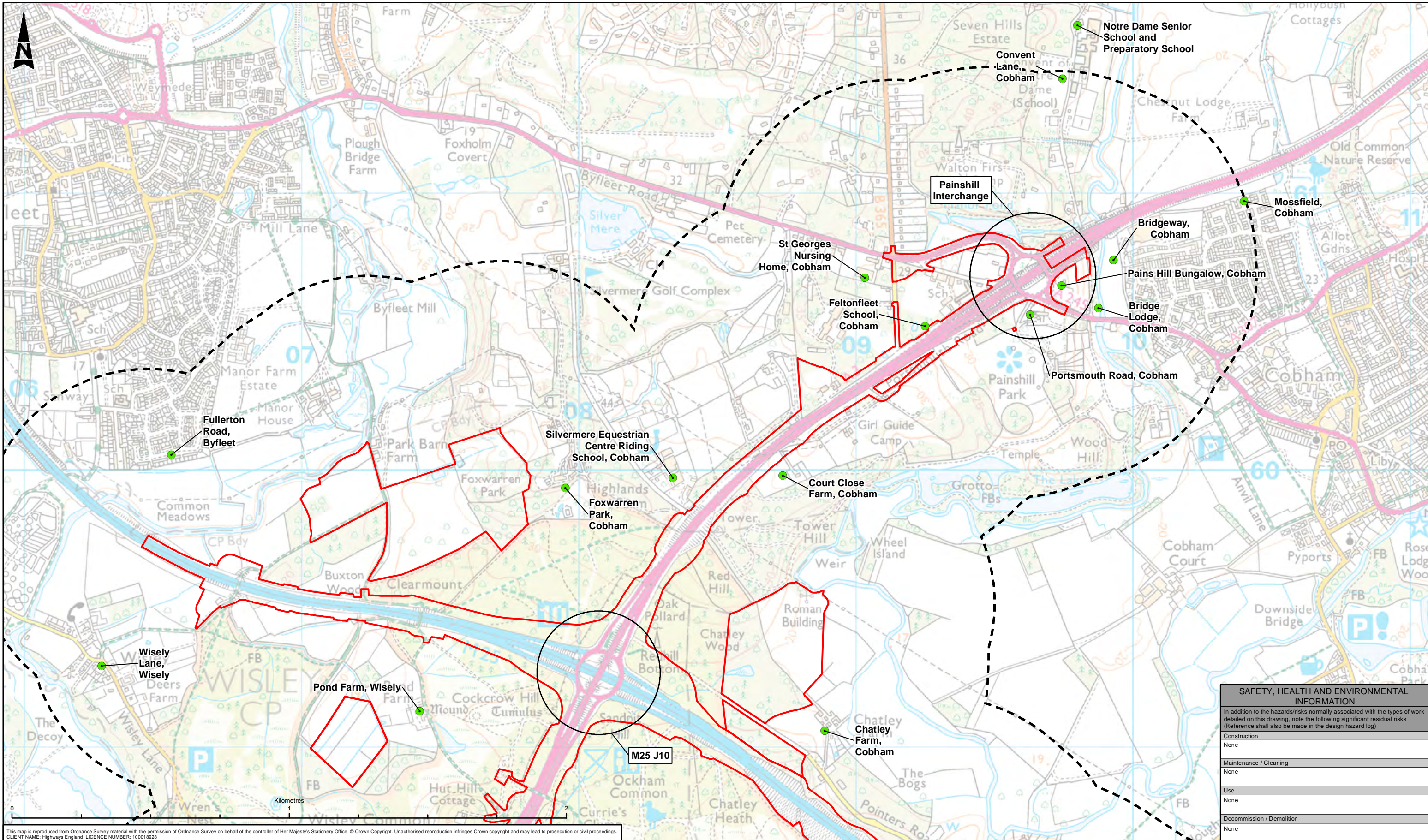
**PUBLISHED**      **A1**

Project Title: **ROAD IMPROVEMENT PROGRAMME M25 Junction 10**

Drawing Title: **FIGURE 6.1 NOISE SENSITIVE RECEPTORS SOUTH OF M25 JUNCTION 10 / A3 WISLEY INTERCHANGE**

Drawing Number: Project HE551522 - ATK - ENV, Originator XX - GS - GI - 000001, Volume

Original Size: A3, Scale: 1:12,586, Project Ref. No.: ---, Sheet: 1 of 1, Rev: C01



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018228

**LEGEND**

- DCO Boundary
- 600m Study Area
- Noise Sensitive Receptors

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

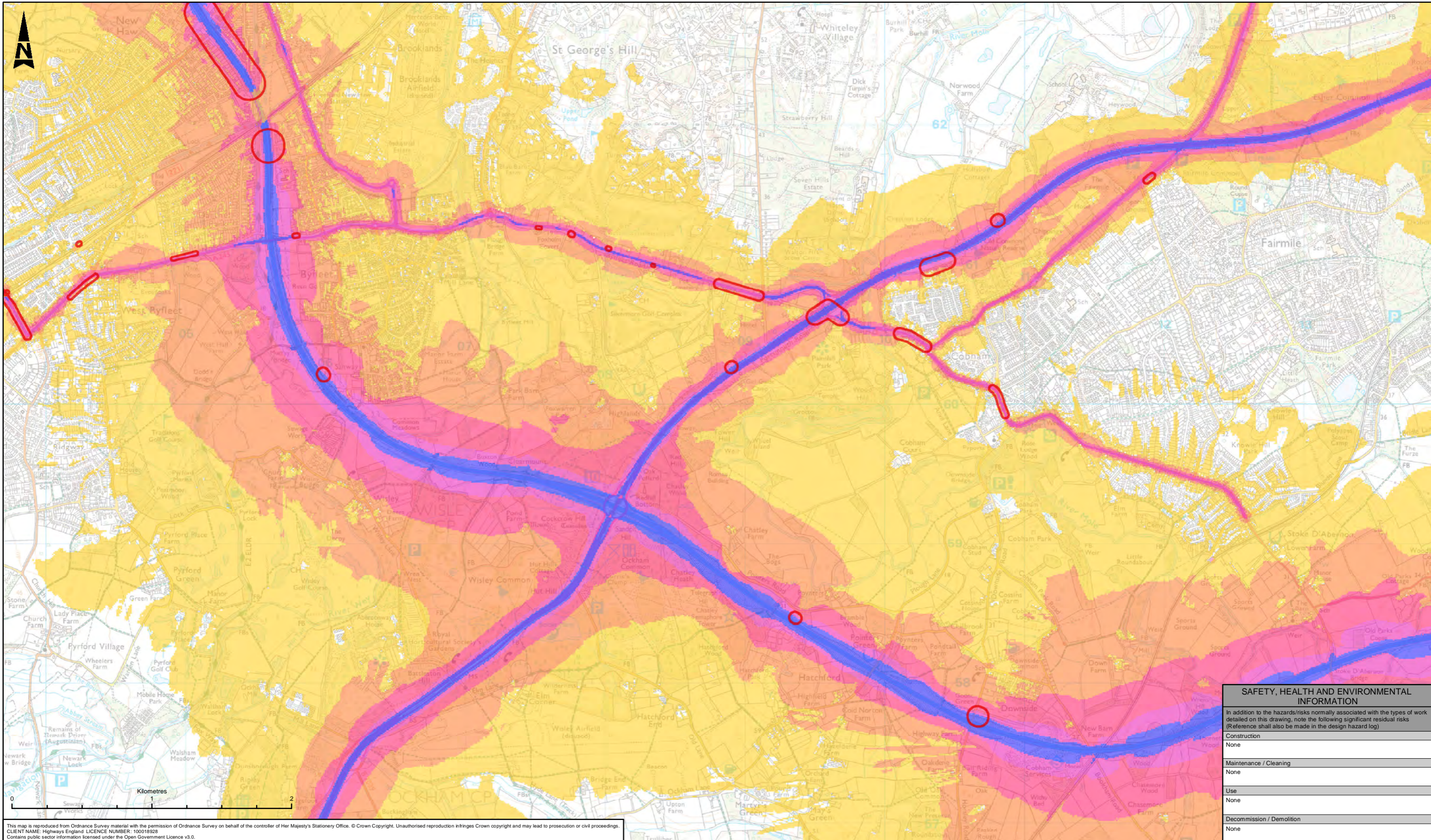
| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     | C01      | FM    | NW      | AB       | GB         | 06/02/18   |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     | C01      | FM    | NW      | AB       | GB         | 06/02/18   |

**ATKINS**  
 Member of the SNC-Lavalin Group  
 Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL  
 Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

|                      |                       |   |                        |
|----------------------|-----------------------|---|------------------------|
| Project Title        |                       | ROAD IMPROVEMENT PROGRAMME M25 Junction 10  |                        |
| Drawing Title        |                       | FIGURE 6.2 NOISE SENSITIVE RECEPTORS NORTH OF M25 JUNCTION 10 / A3 WISLEY INTERCHANGE |                        |
| Project              | Originator            | Volume  |                        |
| HE551522 - ATK - ENV | XX - GS - GI - 000002 |   |                        |
| Original Size: A3    | Scale: 1:12,586       | Project Ref. No: ---  | Sheet: 1 of 1 Rev: C01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928  
 Contains public sector information licensed under the Open Government Licence v3.0.

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Clearing  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

- Important Areas for Noise
- Road Noise  $L_{Aeq, 16hr}$  (07:00-23:00)**
- 55.0 - 59.9 dB
- 60.0 - 64.9 dB
- 65.0 - 69.9 dB
- 70.0 - 74.9 dB
- 75 dB or greater

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |

**PUBLISHED**

**ATKINS**  
Member of the SNC-Lavalin Group

Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

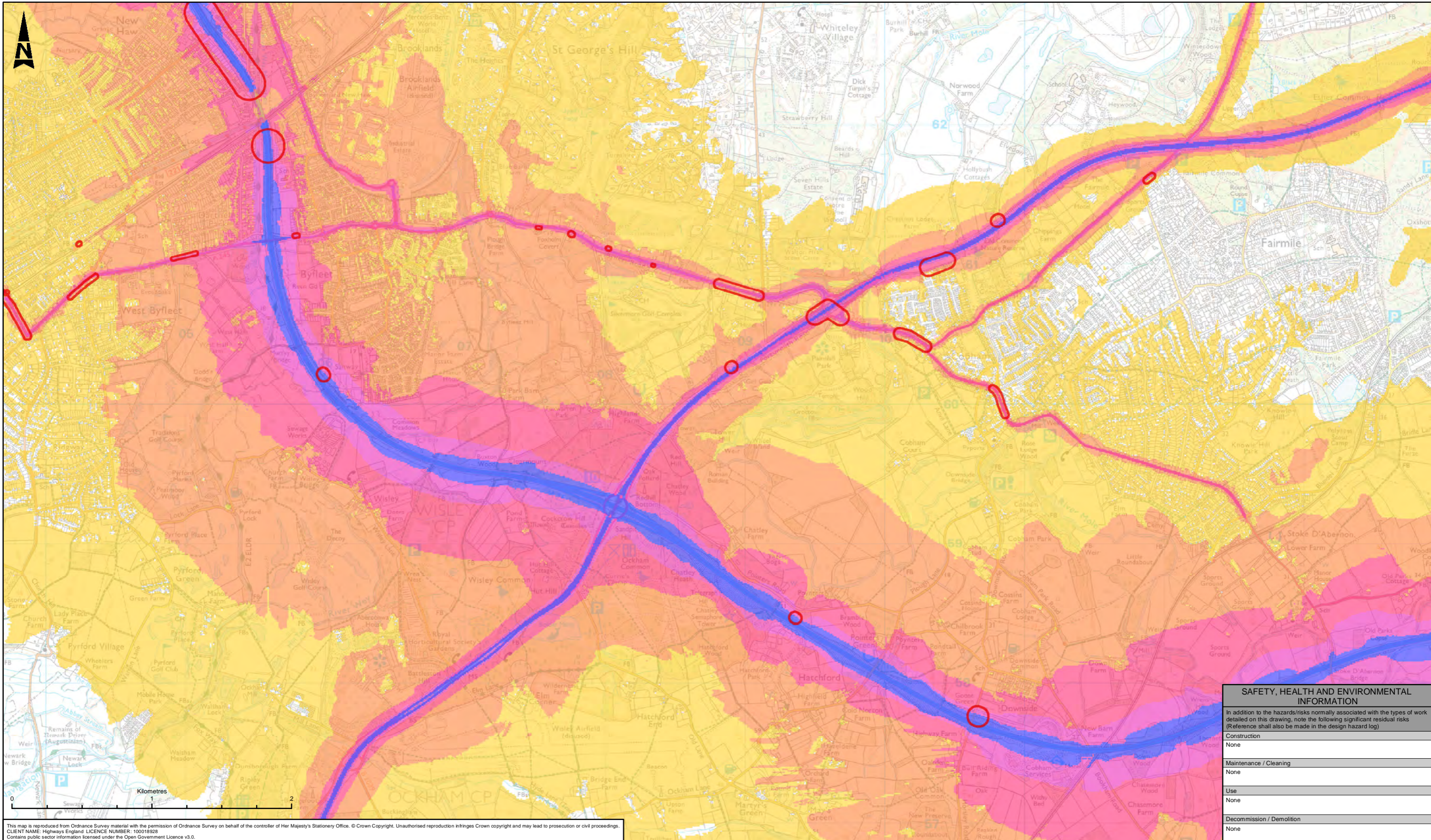
Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055  
www.atkinsglobal.com

Copyright © Atkins Limited (2017)

**highways  
england**

|                   |  |                       |               |
|-------------------|--|-----------------------|---------------|
| Project Title     | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10                                      |                       |               |
| Drawing Title     | FIGURE 6.3<br>DEFRA ROUND 2 ENVIRONMENTAL NOISE<br>MAPS - ROAD NOISE (07:00-23:00) |                       |               |
| Drawing Number    | Project  | Originator            | Volume        |
|                   | HE551522 - ATK - ENV   | XX - GS - GI - 000003 |               |
| Original Size: A3 | Scale: 1:25,000  | Project Ref. No: ---  | Sheet: 1 of 1 |
|                   |  |                       | Rev: C01      |





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928  
 Contains public sector information licensed under the Open Government Licence v3.0.

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

- Important Areas for Noise
- Road Noise  $L_{night}$  (23:00-07:00)**
- 50.0 - 54.9 dB
- 55.0 - 59.9 dB
- 60.0 - 64.9 dB
- 65.0 - 69.9 dB
- 70.0 dB or greater

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     |          | FM    | NW      | AB       | GB         | 01/02/18   |

**PUBLISHED**

**ATKINS**  
Member of the SNC-Lavalin Group

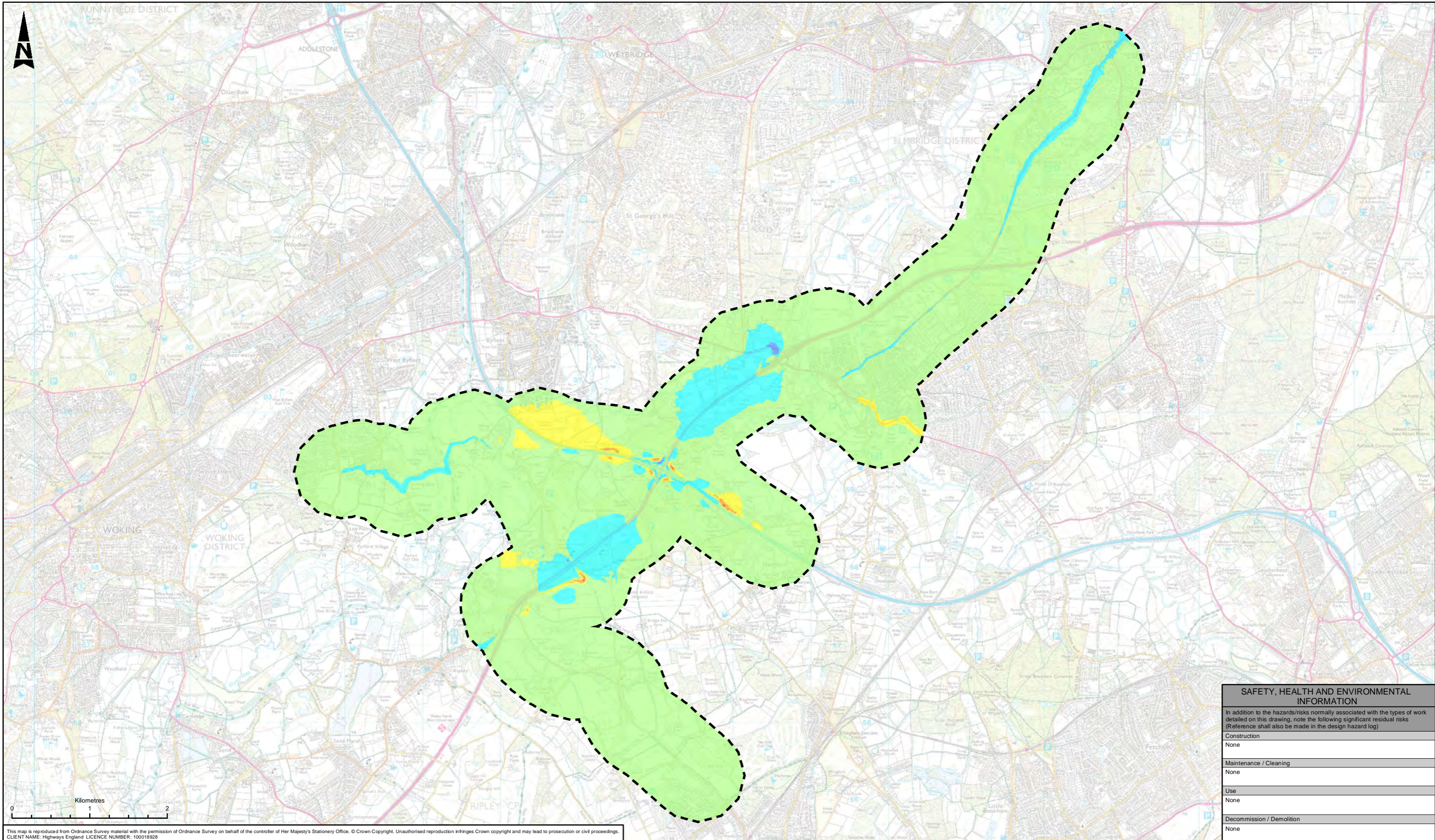
Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017)    www.atkinsglobal.com

**highways  
england**

|                   |                 |  |                           |
|-------------------|-----------------|--|---------------------------|
| Project Title     |                 | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10                                      |                           |
| Drawing Title     |                 | FIGURE 6.4<br>DEFRA ROUND 2 ENVIRONMENTAL NOISE<br>MAPS - ROAD NOISE (23:00-07:00) |                           |
| Drawing Number    |                 | HE551522 - ATK - ENV<br>XX - GS - GI - 000004                                      |                           |
| Original Size: A3 | Scale: 1:25,000 | Project Ref. No: ---   | Sheet: 1 of 1    Rev: C01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| LEGEND                                   |                            |
|--|----------------------------|
|  | 600m Study Area            |
| Change in Noise Level dB $L_{A10, 18hr}$ |                            |
|  | Increase more than 5.0 dB  |
|  | 3.0 dB - 5.0 dB            |
|  | 1.0 dB - 3.0 dB            |
|  | -1.0 dB - 1.0 dB           |
|  | -3.0 dB - -1.0 dB          |
|  | -5.0 dB - -3.0 dB          |
|  | Decrease more than -5.0 dB |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |

Drawing Suitability: **PUBLISHED**

Status: **A1**

**ATKINS**  
 Member of the SNC-Lavalin Group

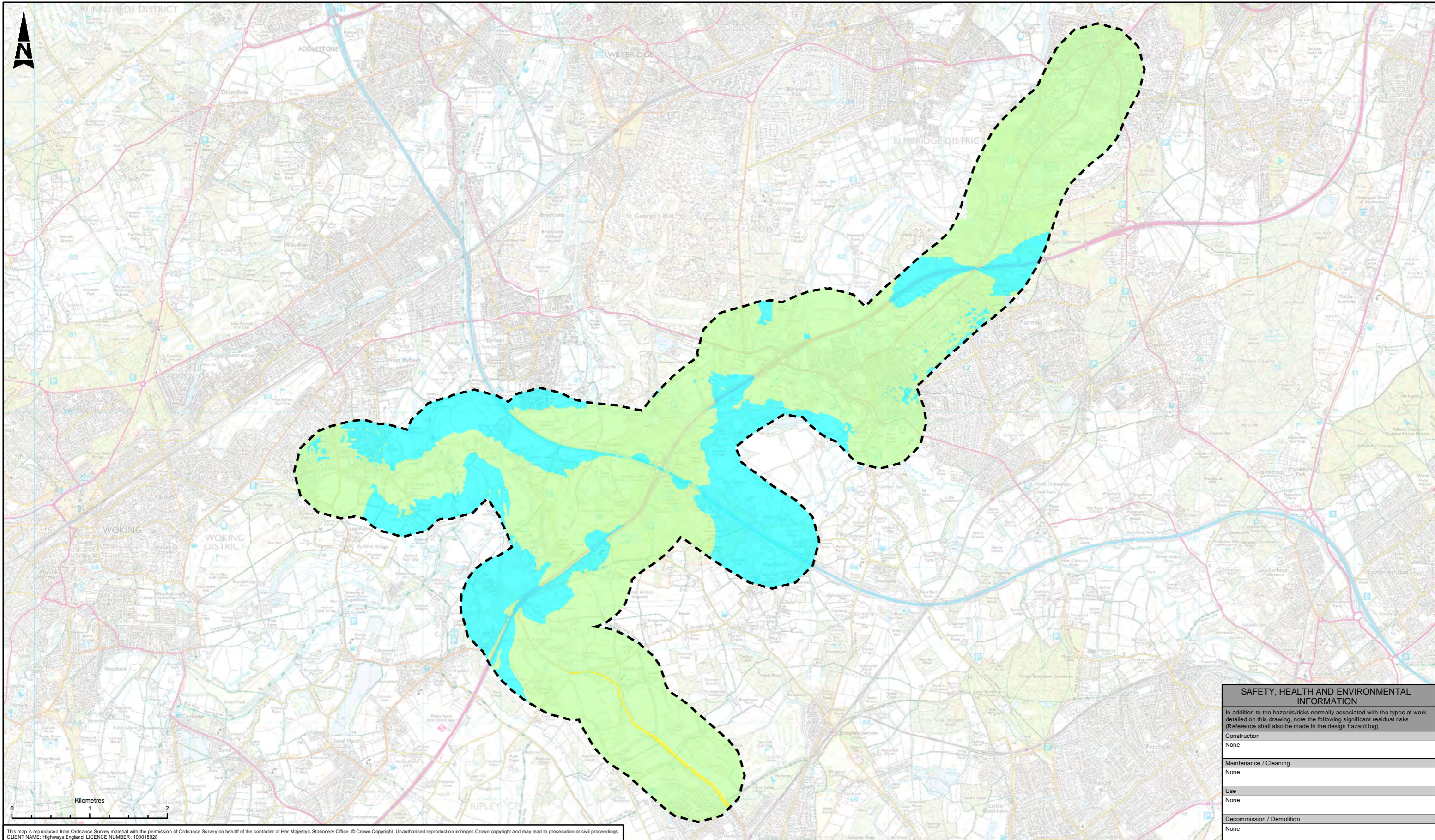
Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL

Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

|                   |                 |  |                        |
|-------------------|-----------------|--|------------------------|
| Project Title     |                 | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10                                  |                        |
| Drawing Title     |                 | FIGURE 6.5<br>PREDICTED SHORT TERM DAYTIME CHANGES<br>IN ROAD TRAFFIC NOISE    |                        |
| Drawing Number    |                 | Project   Originator   Volume<br>HE551522 - ATK - ENV<br>XX - GS - GI - 000005 |                        |
| Original Size: A3 | Scale: 1:45,000 | Project Ref. No: ---   | Sheet: 1 of 1 Rev: C01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

**LEGEND**

600m Study Area

**Change in Noise Level dB  $L_{A10,18hr}$**

- Increase more than 10 dB
- 5 dB - 10 dB
- 3 dB - 5 dB
- -3 dB - 3 dB
- -5 dB - -3 dB
- -10 dB - -5 dB
- Decrease more than -10 dB

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |
| PUBLISHED   |        |          |       |         |          |            |            |

Drawing Suitability: **PUBLISHED**

Status: **A1**

**ATKINS**  
 Member of the SNC-Lavalin Group

Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL

Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

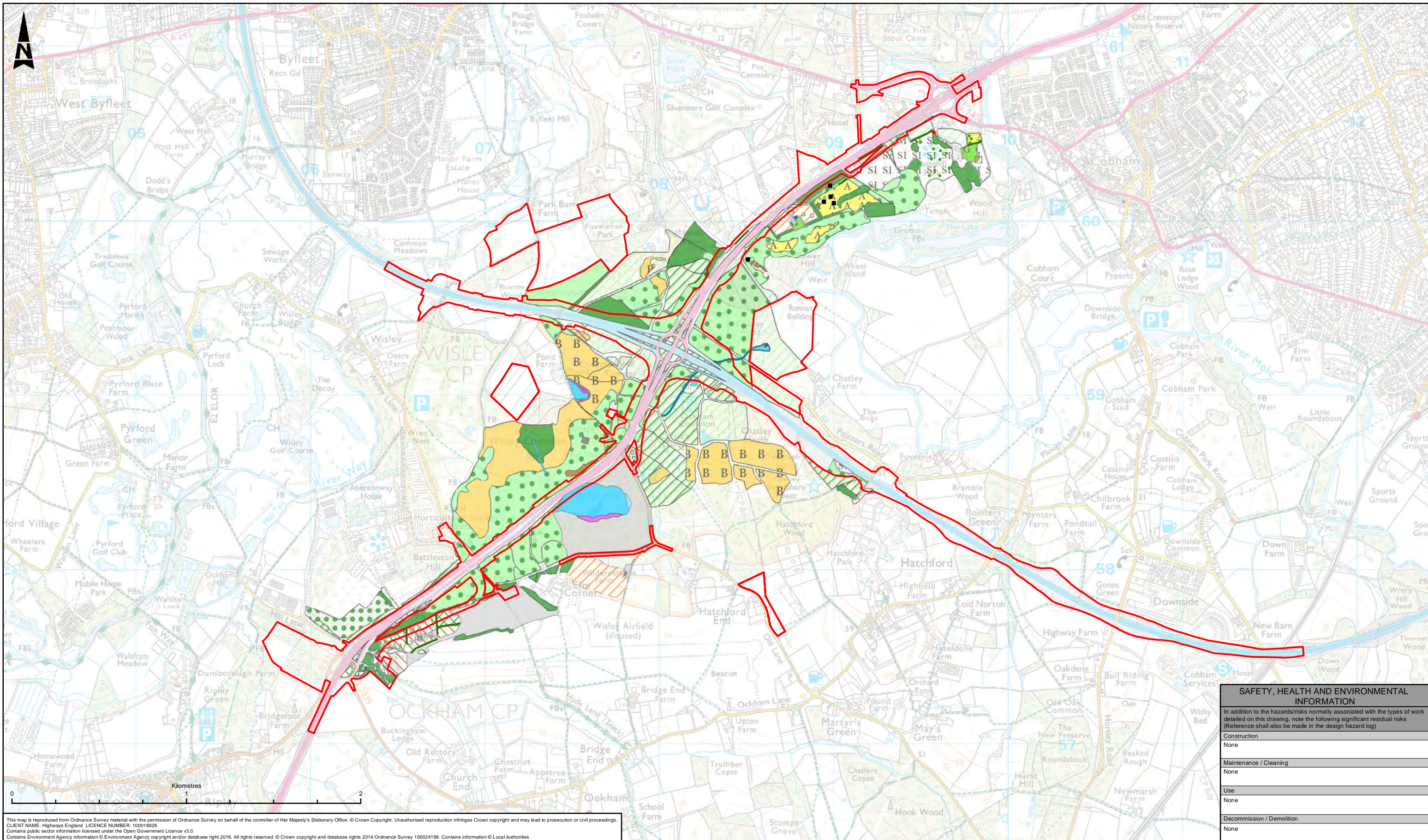
**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

|                           |      |
|---------------------------|------|
| Construction              | None |
| Maintenance / Cleaning    | None |
| Use                       | None |
| Decommission / Demolition | None |

|                   |  |                       |                        |
|-------------------|--|-----------------------|------------------------|
| Project Title     | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10                              |                       |                        |
| Drawing Title     | FIGURE 6.6<br>PREDICTED LONG TERM DAYTIME CHANGES<br>IN ROAD TRAFFIC NOISE |                       |                        |
| Drawing Number    | Project  | Originator            | Volume                 |
|                   | HE551522 - ATK - ENV   | XX - GS - GI - 000006 |                        |
| Original Size: A3 | Scale: 1:45,000  | Project Ref. No: ---  | Sheet: 1 of 1 Rev: C01 |

## 7. Biodiversity Figures



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 10018928  
 Contains public sector information licensed under the Open Government Licence v3.0.  
 Contains Environment Agency information © Environment Agency copyright and/or database right 2016. All rights reserved. © Crown copyright and database rights 2014 Ordnance Survey 100024198. Contains information © Local Authorities

| LEGEND |                 |  |  |
|--------|-----------------|--|--|
|        | DCO Boundary    |  | A1.1.1 - Broadleaved woodland - semi-natural   |
|        | Building        |  | A1.1.2 - Broadleaved woodland - plantation   |
|        | Scattered Trees |  | A1.2.1 - Coniferous woodland - semi-natural  |
|        | Pond            |  | A1.2.2 - Coniferous woodland - plantation  |
|        | Ditches         |  | A1.3.1 - Mixed woodland - semi-natural   |
|        | Line of Trees   |  | A1.3.2 - Mixed woodland - plantation   |
|        |                 |  | A2.1 - Scrub - dense/continuous  |
|        |                 |  | A2.2 - Scrub - scattered   |
|        |                 |  | A3.1 - Broadleaved parkland/scattered trees  |
|        |                 |  | A3.2 - Coniferous parkland/scattered trees   |
|        |                 |  | B1.2 - Acid grassland - semi-improved  |
|        |                 |  | B6 - Poor semi-improved grassland  |
|        |                 |  | C1.1 - Bracken - continuous  |
|        |                 |  | C1.2 - Bracken - scattered   |
|        |                 |  | C3.1 - Other tall herb and fern - ruderal  |
|        |                 |  | C3.1 - Tall ruderal (with battered scrub)  |
|        |                 |  | D1.1 - Dry dwarf shrub heath - acid  |
|        |                 |  | D1.2 - Dry dwarf shrub heath - basic   |
|        |                 |  | D6 - Wet heath/acid grassland  |
|        |                 |  | E2.1 - Flush and spring - acid/neutral flush   |
|        |                 |  | E3 - Fen   |
|        |                 |  | F1 - Swamp   |
|        |                 |  | G1 - Standing water/ G1.3 - Standing water - oligotrophic / G1.4 - Standing water - dystrophic |
|        |                 |  | G2 - Running water   |
|        |                 |  | Garden   |
|        |                 |  | Hard Standing  |
|        |                 |  | J1.2 - Cultivated/disturbed land - amenity grassland   |
|        |                 |  | J1.4 - Introduced shrub  |
|        |                 |  | J3.6 - Buildings   |

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

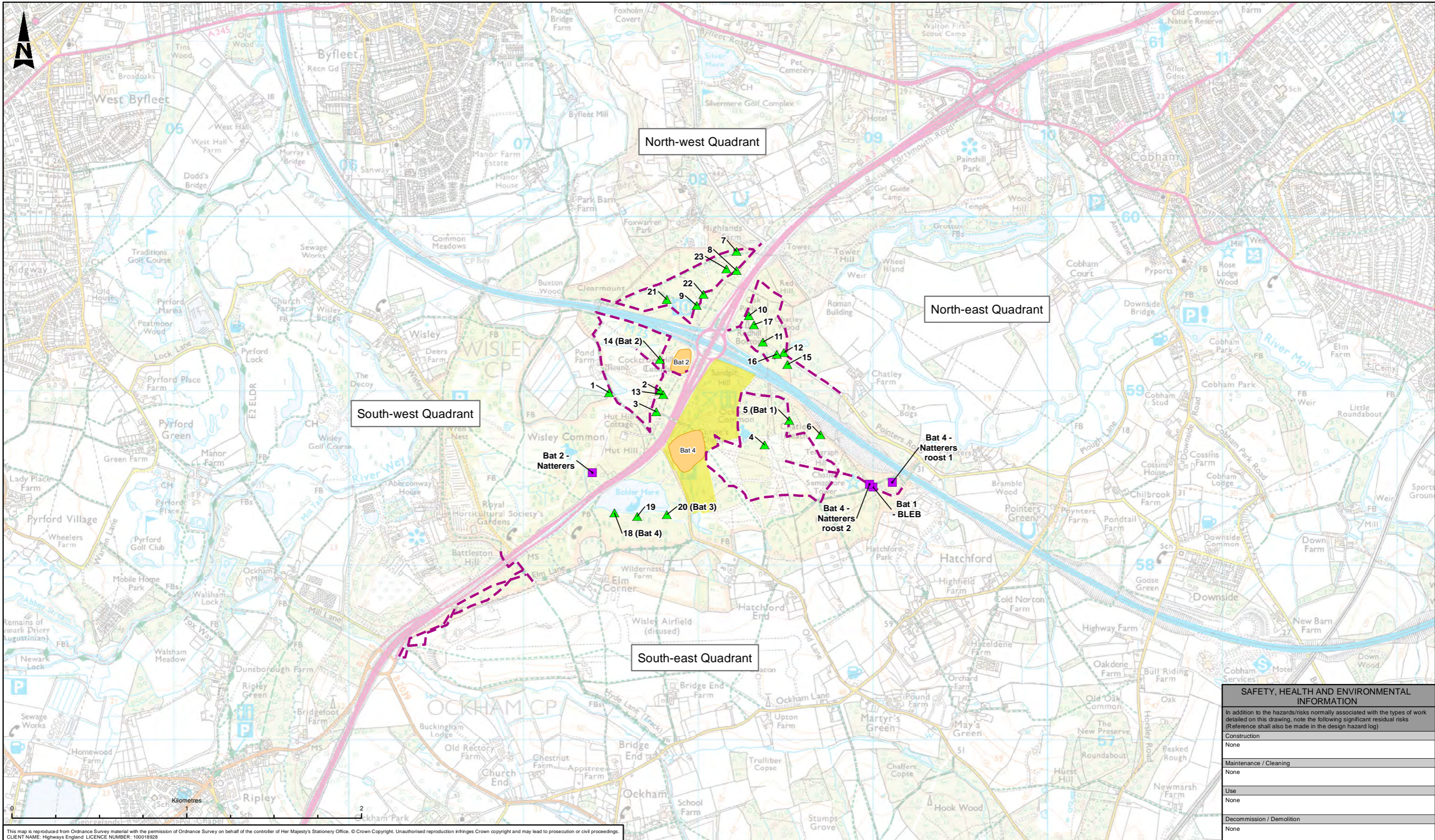
|                           |      |
|---------------------------|------|
| Construction              | None |
| Maintenance / Cleaning    | None |
| Use                       | None |
| Decommission / Demolition | None |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     | C01      | FM    | NW      | AB       | GB         | 08/02/18   |

**ATKINS**  
 Member of the SNC-Lavalin Group  
 Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL  
 Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

|                      |                       |  |        |
|----------------------|-----------------------|--|--------|
| Project Title        |                       | ROAD IMPROVEMENT PROGRAMME M25 Junction 10 |        |
| Drawing Title        |                       | FIGURE 7.1 PHASE 1 HABITAT SURVEY          |        |
| Project              | Originator            | Volume                                     |        |
| HE551522 - ATK - EBD | XX - GS - GI - 000002 |  |        |
| Location             | Type                  | Role                                       | Number |
| A3                   | 1:20,000              | ---  | 1 of 1 |
| Original Size        | Scale                 | Project Ref. No.                           | Sheet  |
| A3                   | 1:20,000              | ---  | 1 of 1 |
| Rev.                 |                       |  |        |
| C01                  |                       |  |        |

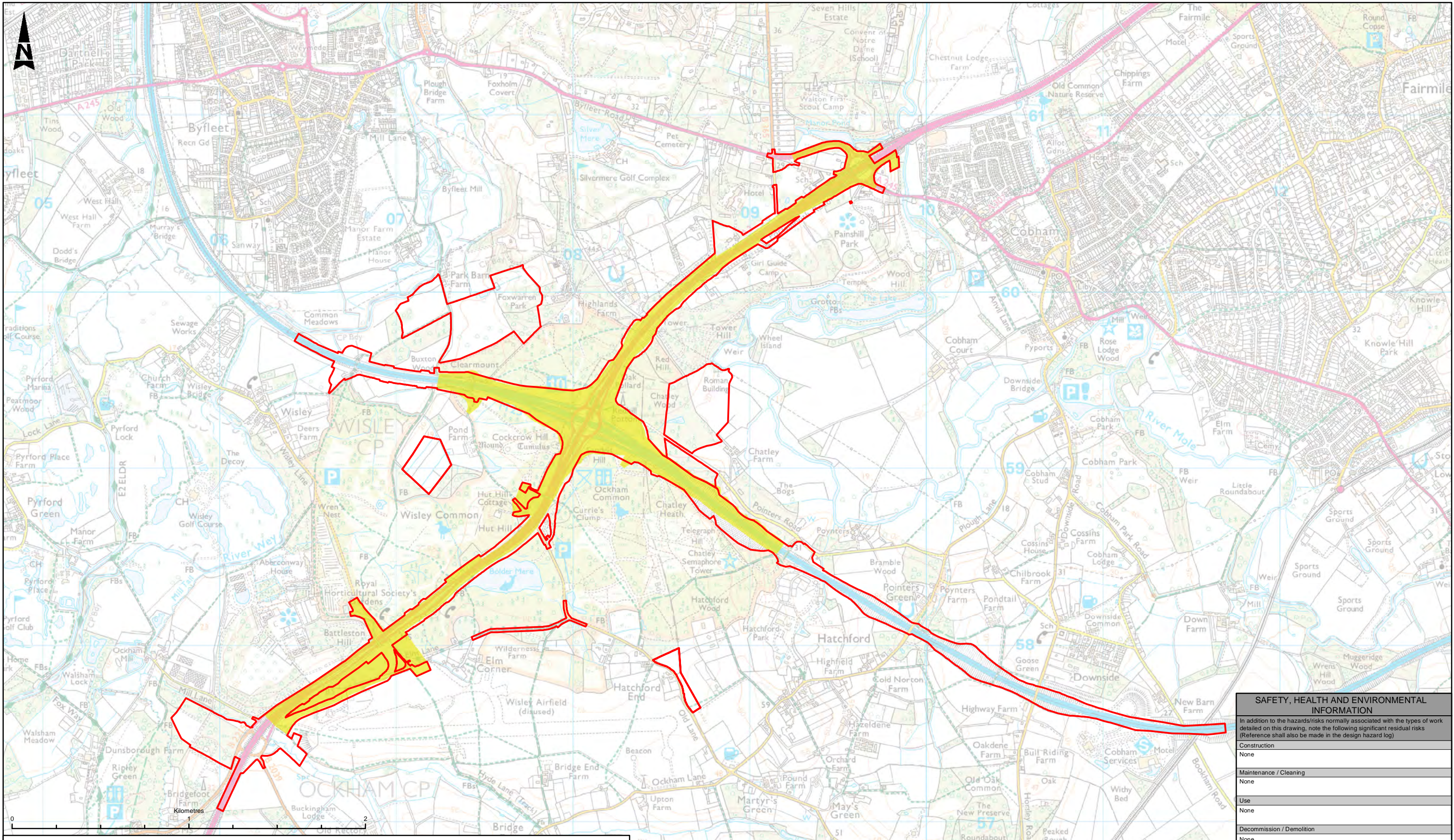


This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

| Description                                 | Status    | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|---|-----------|----------|-------|---------|----------|------------|------------|
| Area Excluded From Night Surveys - PSE Area | PUBLISHED |          | FM    | NW      | AB       | GB         | 01/02/18   |
| Foraging Areas                              |           |          |       |         |          |            |            |
| Bat Transect Survey                         |           |          |       |         |          |            |            |
| Roosting Locations                          |           |          |       |         |          |            |            |
| Trapping Locations                          |           |          |       |         |          |            |            |

|  |  |   |  |           |  |   |  |
|--|--|---|--|-----------|--|---|--|
| Description  |  | Drawing Suitability   |  | Status    |  | Project Title   |  |
| PUBLISHED  |  | PUBLISHED   |  | A1        |  | ROAD IMPROVEMENT PROGRAMME M25 Junction 10                      |  |
| Description  |  | Drawing Title   |  | Status    |  | Project Title   |  |
| ATKINS   |  | Epsom Gateway<br>Ashley Avenue<br>Epsom<br>Surrey<br>KT18 5AL |  | PUBLISHED |  | FIGURE 7.2<br>BAT SPECIES SURVEY<br>(APRIL 2017 - OCTOBER 2017) |  |
| Description  |  | Drawing Number  |  | Status    |  | Project Title   |  |
| Member of the SNC-Lavalin Group  |  | HE551522 - ATK - EBD<br>XX - GS - GI - 000003                 |  | PUBLISHED |  | ROAD IMPROVEMENT PROGRAMME M25 Junction 10                      |  |
| Description  |  | Client  |  | Status    |  | Project Title   |  |
| Tel: +44 (0) 1372 726140<br>Fax: +44 (0) 1372 740055<br>www.atkinsglobal.com |  | highways england  |  | PUBLISHED |  | ROAD IMPROVEMENT PROGRAMME M25 Junction 10                      |  |
| Description  |  | Original Size   |  | Scale     |  | Project Ref. No.  |  |
| PUBLISHED  |  | A3  |  | 1:20,000  |  | ---   |  |
| Description  |  | Sheet   |  | Number    |  | Rev.  |  |
| PUBLISHED  |  | 1 of 1  |  | C01       |  |   |  |

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |  |  |  |  |  |  |  |
| Construction  |  |  |  |  |  |  |  |
| None  |  |  |  |  |  |  |  |
| Maintenance / Cleaning  |  |  |  |  |  |  |  |
| None  |  |  |  |  |  |  |  |
| Use   |  |  |  |  |  |  |  |
| None  |  |  |  |  |  |  |  |
| Decommission / Demolition   |  |  |  |  |  |  |  |
| None  |  |  |  |  |  |  |  |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018228

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

- DCO Boundary
- Ground Level Tree Assessment Survey Conducted

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |

PUBLISHED

A1



Member of the SNC-Lavalin Group

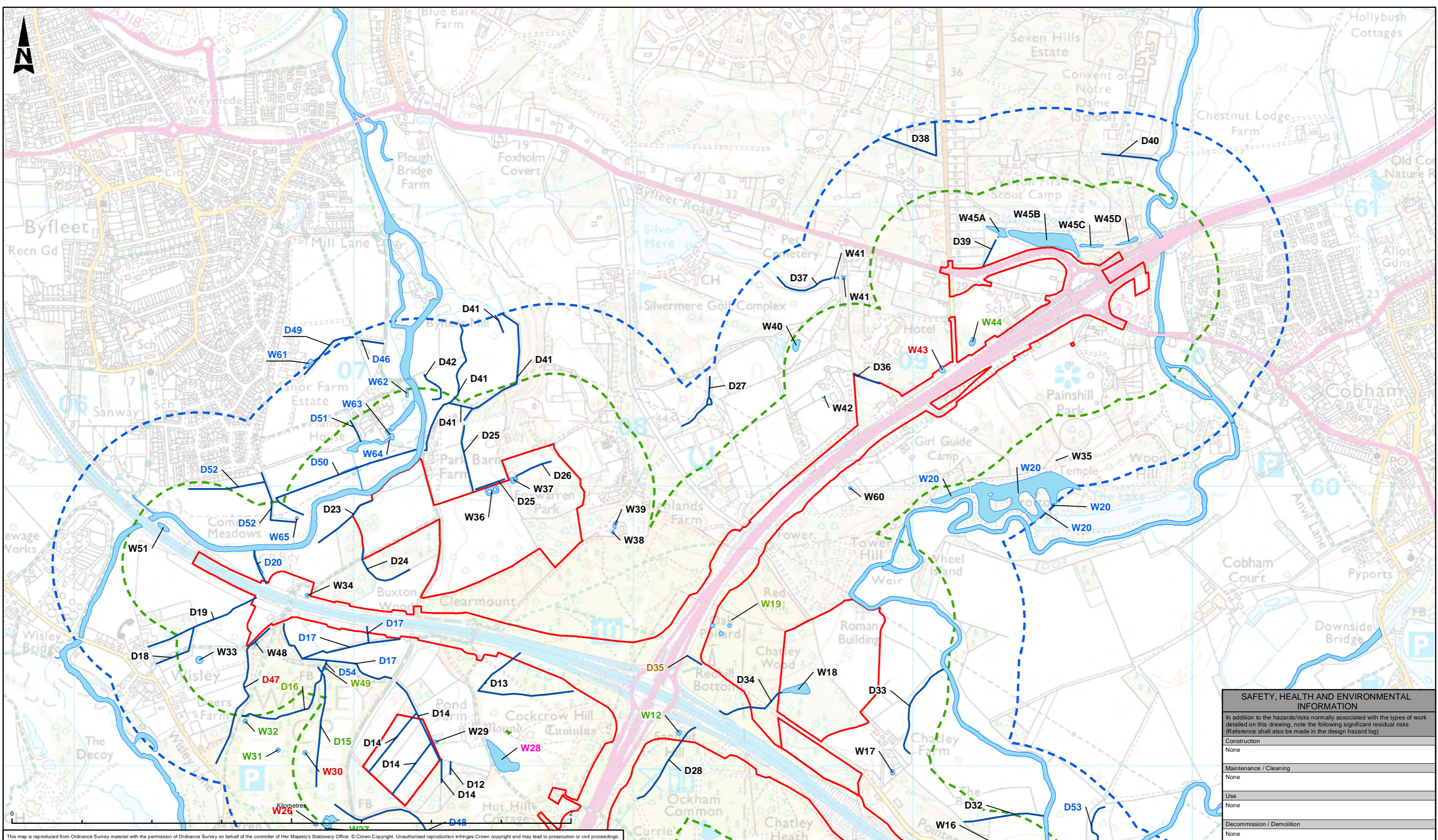
Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017) www.atkinsglobal.com



|                   |  |                       |                        |
|-------------------|--|-----------------------|------------------------|
| Project Title     | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10  |                       |                        |
| Drawing Title     | FIGURE 7.3<br>BAT GROUND LEVEL TREE ASSESSMENT |                       |                        |
| Drawing Number    | Project  | Originator            | Volume                 |
|                   | HE551522 - ATK - EBD                           | XX - GS - GI - 000004 |                        |
| Original Size: A3 | Scale: 1:20,000                                | Project Ref. No: ---  | Sheet: 1 of 1 Rev: C01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

**LEGEND**

|  |                            |
|--|----------------------------|
|  | DCO Boundary               |
|  | DCO Boundary - 250m Buffer |
|  | DCO Boundary - 500m Buffer |
|  | Ponds                      |
|  | Ditches                    |

**Surveys Conducted**

|  |                           |
|--|---------------------------|
|  | HSI/Presence/Absence/EDNA |
|  | HSI/Presence, Absence     |
|  | HSI/EDNA                  |
|  | Dry at time of Survey     |
|  | Scope out                 |

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

|                           |      |
|---------------------------|------|
| Construction              | None |
| Maintenance / Cleaning    | None |
| Use                       | None |
| Decommission / Demolition | None |

| Description     | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-----------------|--------|----------|-------|---------|----------|------------|------------|
| FOR INFORMATION | S2     |          |       |         |          |            |            |

**FOR INFORMATION**

**ATKINS**  
 Member of the SNC-Lavalin Group

Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL

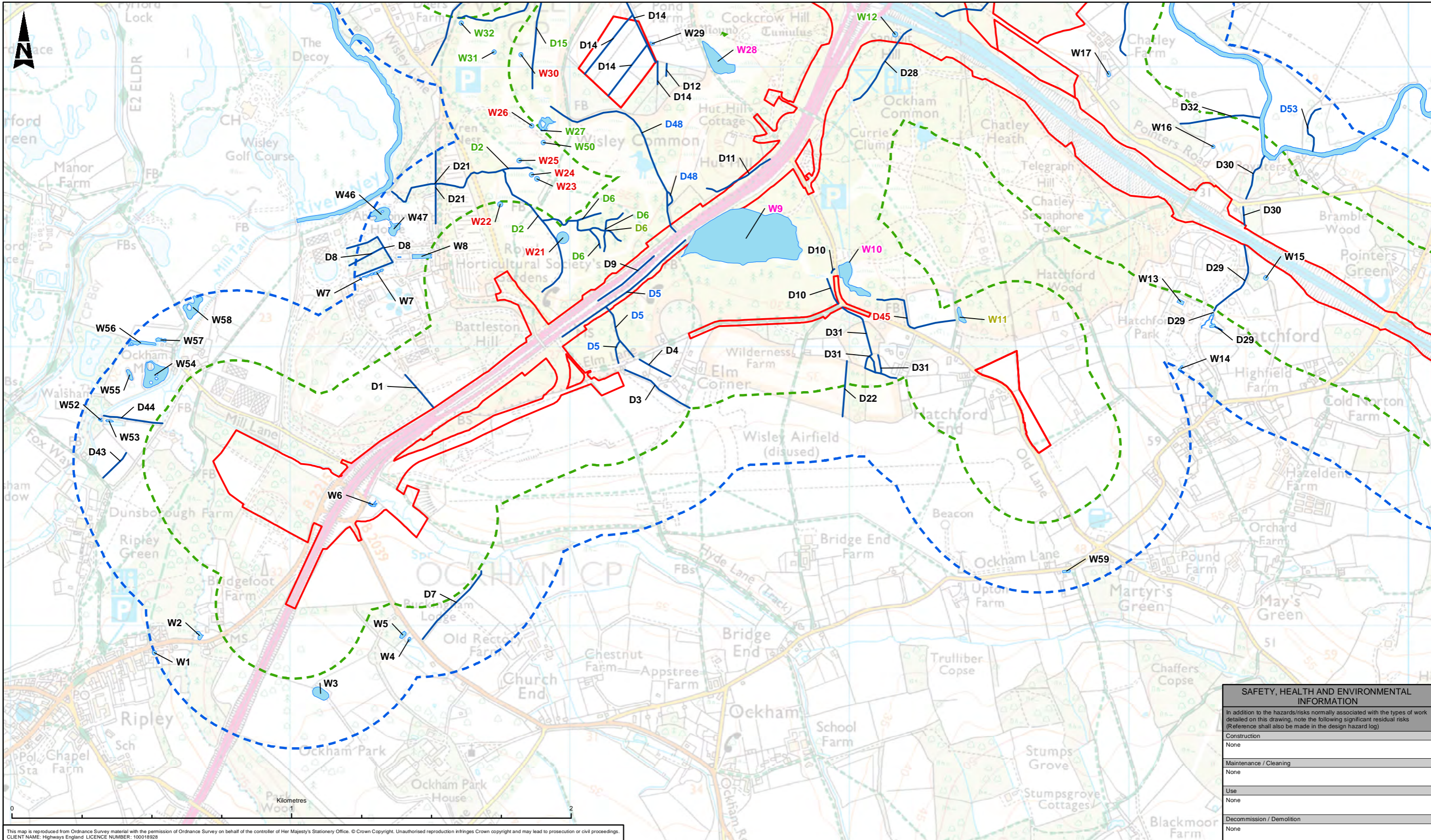
Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 www.atkinsglobal.com

Copyright © Atkins Limited (2017)

**highways england**

|                   |   |                       |        |               |          |  |  |
|-------------------|---|-----------------------|--------|---------------|----------|--|--|
| Project Title     | ROAD IMPROVEMENT PROGRAMME M25 Junction 10  |                       |        |               |          |  |  |
| Drawing Title     | FIGURE 7.4 GREAT CRESTED NEWT SPECIES SURVEY (JUNE 2016 - JUNE 2017) SHEET 1 of 2 |                       |        |               |          |  |  |
| Drawing Number    | Project   | Originator            | Volume |               |          |  |  |
|                   | HE551522 - ATK - EBD  | XX - GS - GI - 000005 |        |               |          |  |  |
| Original Size: A3 | Scale: 1:12,500   | Project Ref. No.:     | ---    | Sheet: 1 of 1 | Rev: P01 |  |  |





This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
 CLIENT NAME: Highways England LICENCE NUMBER: 100018928

**LEGEND**

|  |                            |
|--|----------------------------|
|  | DCO Boundary               |
|  | DCO Boundary - 250m Buffer |
|  | DCO Boundary - 500m Buffer |
|  | Ponds                      |
|  | Ditches                    |

**Surveys Conducted**

|  |                           |
|--|---------------------------|
|  | HSI/Presence/Absence/EDNA |
|  | HSI/Presence, Absence     |
|  | HSI/EDNA                  |
|  | Dry at time of Survey     |
|  | Scope out                 |

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)

|                           |      |
|---------------------------|------|
| Construction              | None |
| Maintenance / Cleaning    | None |
| Use                       | None |
| Decommission / Demolition | None |

| Description     | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-----------------|--------|----------|-------|---------|----------|------------|------------|
| FOR INFORMATION | S2     |          |       |         |          |            |            |

**FOR INFORMATION**

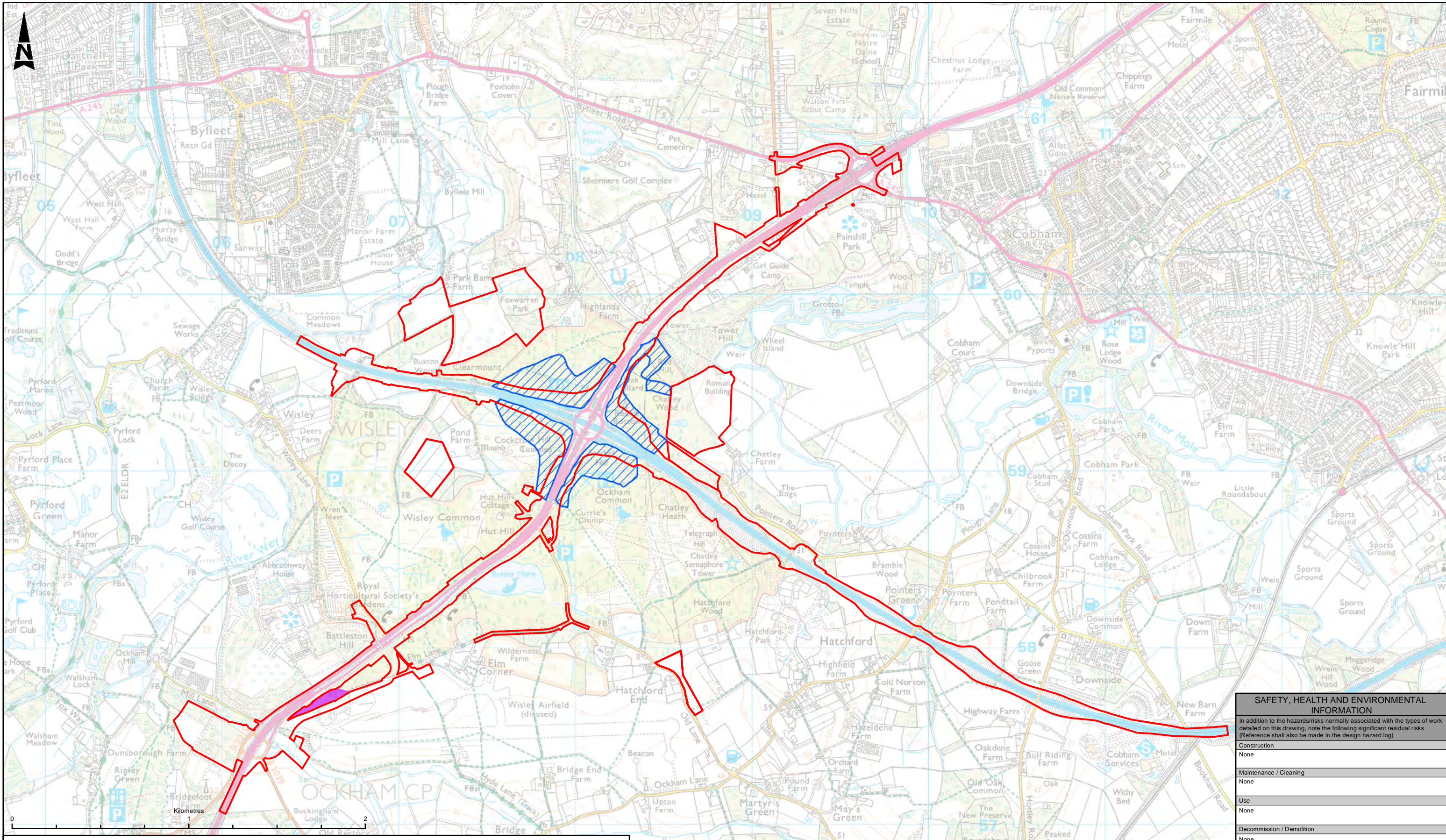
**ATKINS**  
 Member of the SNC-Lavalin Group

Epsom Gateway  
 Ashley Avenue  
 Epsom  
 Surrey  
 KT18 5AL

Tel: +44 (0) 1372 726140  
 Fax: +44 (0) 1372 740055  
 Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

|                   |                 |  |                           |
|-------------------|-----------------|--|---------------------------|
| Project Title     |                 | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10  |                           |
| Drawing Title     |                 | FIGURE 7.4<br>GREAT CRESTED NEWT SPECIES SURVEY<br>(JUNE 2016 - JUNE 2017)<br>SHEET 2 of 2 |                           |
| Drawing Number    |                 | Project: HE551522 - ATK - EBD<br>Originator: XX - GS - GI - 000006<br>Volume: ---          |                           |
| Original Size: A3 | Scale: 1:12,500 | Project Ref. No: ---   | Sheet: 1 of 1<br>Rev: P01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018228

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

- DCO Boundary
- Dormouse Tube Survey
- Nut Search Survey Area

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |

Drawing Suitability: **PUBLISHED** Status: **A1**

**ATKINS**  
Member of the SNC-Lavalin Group

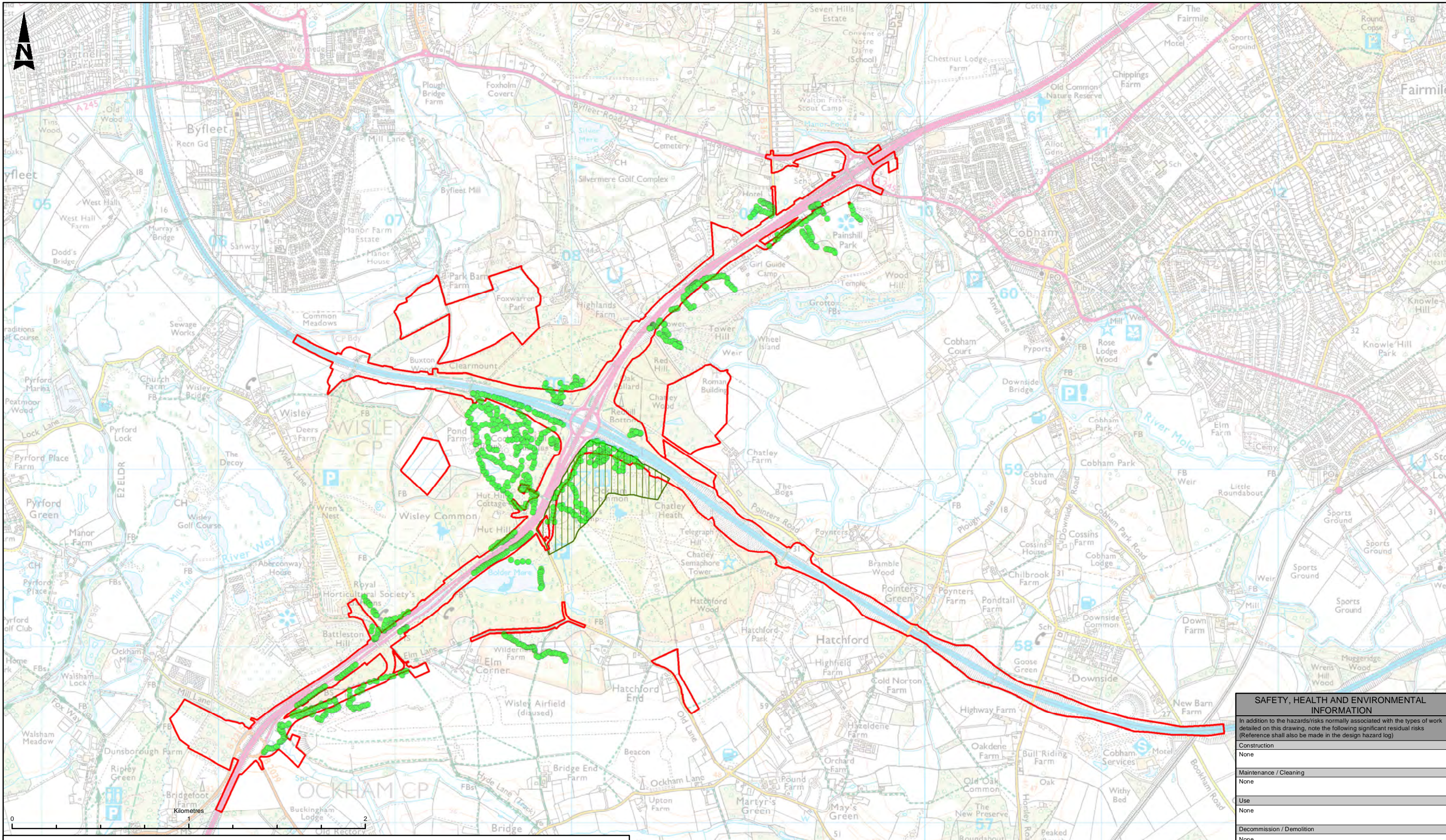
Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017) www.atkinsglobal.com

**highways england**

|                   |                 |  |                        |
|-------------------|-----------------|--|------------------------|
| Project Title     |                 | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10                                  |                        |
| Drawing Title     |                 | FIGURE 7.5<br>DORMOUSE SURVEYS<br>(JULY 2016 - MAY 2017)                       |                        |
| Drawing Number    |                 | Project   Originator   Volume<br>HE551522 - ATK - EBD<br>XX - GS - GI - 000007 |                        |
| Original Size: A3 | Scale: 1:20,000 | Project Ref. No: ---   | Sheet: 1 of 1 Rev: C01 |



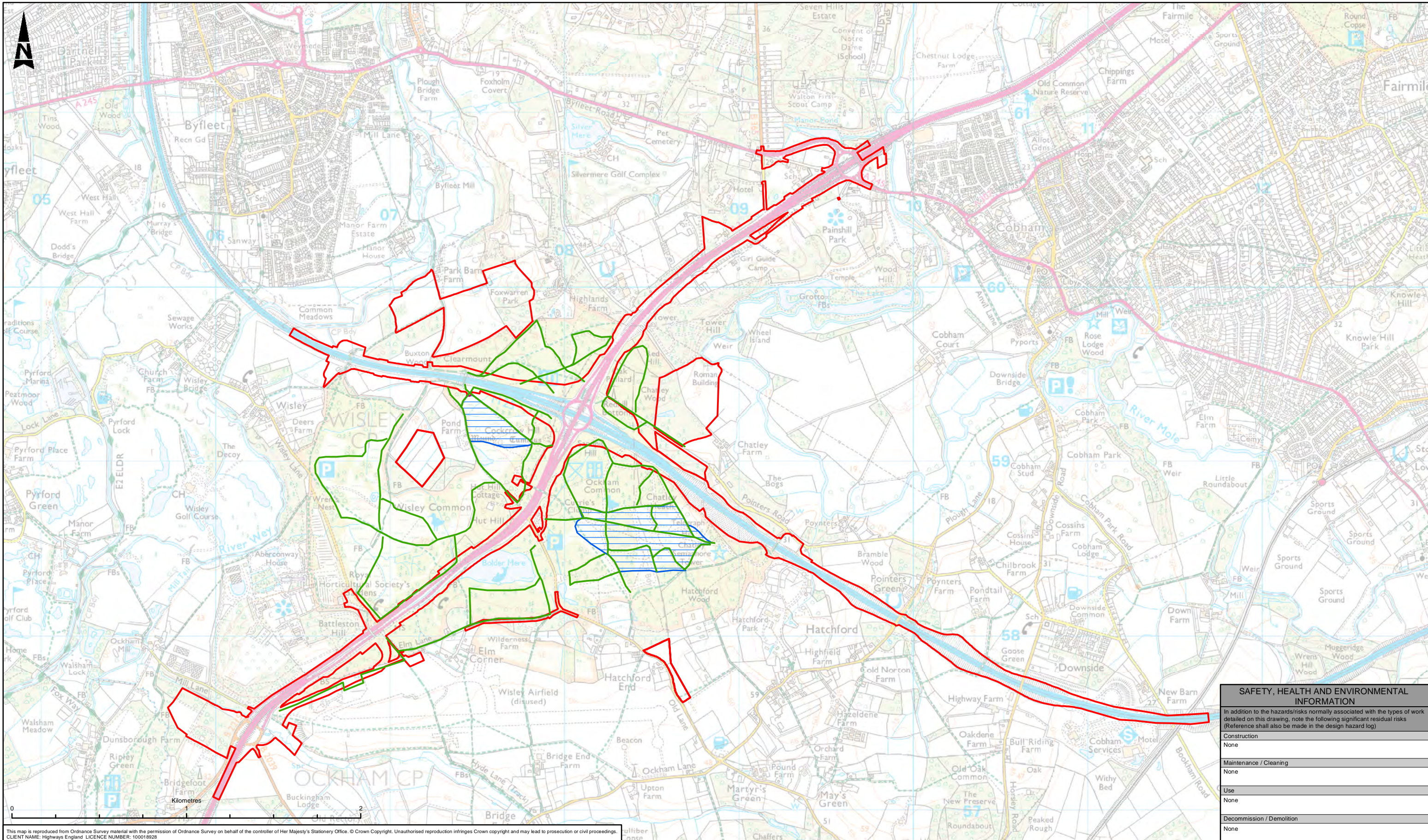
This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018228

**LEGEND**

- DCO Boundary
- Sand Lizard Survey Area
- Reptile Refugia Locations

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

| <p><b>ATKINS</b><br/>Member of the SNC-Lavalin Group</p> <p>Copyright © Atkins Limited (2017)    www.atkinsglobal.com</p>  | <p><b>highways england</b></p> | <p><b>PUBLISHED</b></p> <p>Status: A1</p> | <p><b>ROAD IMPROVEMENT PROGRAMME M25 Junction 10</b></p> <p><b>FIGURE 7.6 REPTILE SURVEYS (AUGUST 2017 - OCTOBER 2017)</b></p> |                  |          |            |            |            |            |           |    |     |    |    |    |    |          |  |  |         |                      |            |                       |        |        |          |    |       |          |                  |     |       |        |      |     |  |  |
|--|--------------------------------|---|--|------------------|----------|------------|------------|------------|------------|-----------|----|-----|----|----|----|----|----------|--|--|---------|----------------------|------------|-----------------------|--------|--------|----------|----|-------|----------|------------------|-----|-------|--------|------|-----|--|--|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Description</th> <th>Status</th> <th>Revision</th> <th>Drawn</th> <th>Checked</th> <th>Reviewed</th> <th>Authorised</th> <th>Issue Date</th> </tr> </thead> <tbody> <tr> <td>PUBLISHED</td> <td>A1</td> <td>C01</td> <td>FM</td> <td>NW</td> <td>AB</td> <td>GB</td> <td>06/02/18</td> </tr> </tbody> </table> |                                | Description                               | Status   | Revision         | Drawn    | Checked    | Reviewed   | Authorised | Issue Date | PUBLISHED | A1 | C01 | FM | NW | AB | GB | 06/02/18 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Project</td> <td>HE551522 - ATK - EBD</td> <td>Originator</td> <td>XX - GS - GI - 000008</td> <td>Volume</td> <td>1 of 1</td> </tr> <tr> <td>Location</td> <td>A3</td> <td>Scale</td> <td>1:20,000</td> <td>Project Ref. No.</td> <td>---</td> </tr> <tr> <td>Sheet</td> <td>1 of 1</td> <td>Rev.</td> <td>C01</td> <td></td> <td></td> </tr> </table> |  | Project | HE551522 - ATK - EBD | Originator | XX - GS - GI - 000008 | Volume | 1 of 1 | Location | A3 | Scale | 1:20,000 | Project Ref. No. | --- | Sheet | 1 of 1 | Rev. | C01 |  |  |
| Description  | Status                         | Revision                                  | Drawn  | Checked          | Reviewed | Authorised | Issue Date |            |            |           |    |     |    |    |    |    |          |  |  |         |                      |            |                       |        |        |          |    |       |          |                  |     |       |        |      |     |  |  |
| PUBLISHED  | A1                             | C01                                       | FM   | NW               | AB       | GB         | 06/02/18   |            |            |           |    |     |    |    |    |    |          |  |  |         |                      |            |                       |        |        |          |    |       |          |                  |     |       |        |      |     |  |  |
| Project  | HE551522 - ATK - EBD           | Originator                                | XX - GS - GI - 000008  | Volume           | 1 of 1   |            |            |            |            |           |    |     |    |    |    |    |          |  |  |         |                      |            |                       |        |        |          |    |       |          |                  |     |       |        |      |     |  |  |
| Location   | A3                             | Scale                                     | 1:20,000   | Project Ref. No. | ---      |            |            |            |            |           |    |     |    |    |    |    |          |  |  |         |                      |            |                       |        |        |          |    |       |          |                  |     |       |        |      |     |  |  |
| Sheet  | 1 of 1                         | Rev.                                      | C01  |                  |          |            |            |            |            |           |    |     |    |    |    |    |          |  |  |         |                      |            |                       |        |        |          |    |       |          |                  |     |       |        |      |     |  |  |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018228

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

- DCO Boundary
- Wintering Bird Survey Area
- Breeding Bird Transect Survey

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |

**PUBLISHED**

A1

**ATKINS**  
Member of the SNC-Lavalin Group

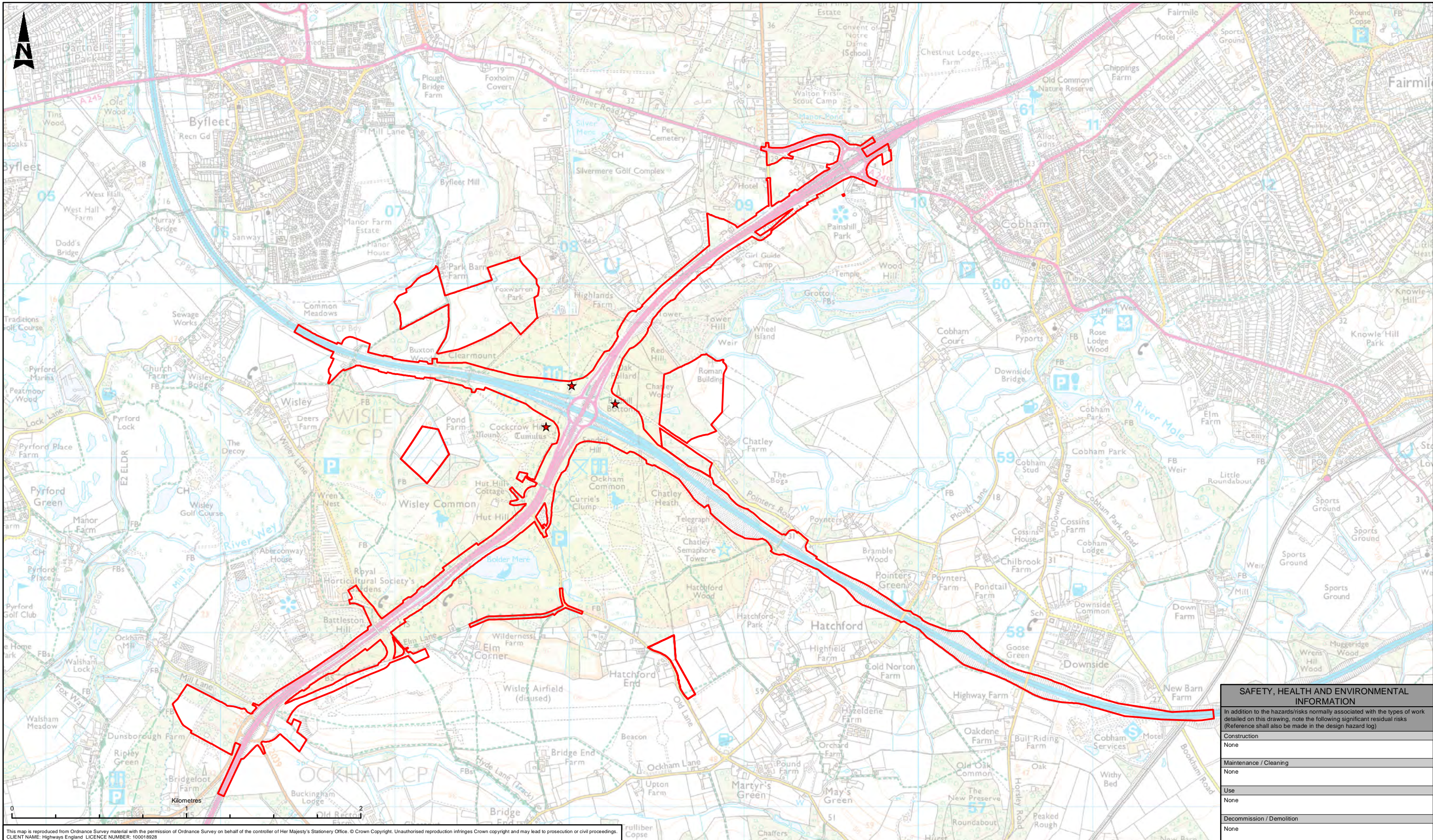
Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055

Copyright © Atkins Limited (2017)    www.atkinsglobal.com

**highways england**

|                      |                       |   |          |
|----------------------|-----------------------|---|----------|
| Project Title        |                       | ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10               |          |
| Drawing Title        |                       | FIGURE 7.7<br>WINTERING AND BREEDING BIRD<br>SPECIES SURVEY |          |
| Project              | Originator            | Volume  |          |
| HE551522 - ATK - EBD | XX - GS - GI - 000009 |   |          |
| Location             | Type                  | Role  | Number   |
| A3                   | 1:20,000              | ---   | 1 of 1   |
| Original Size        | Scale                 | Project Ref. No.  | Sheet    |
| A3                   | 1:20,000              | ---   | 1 of 1   |
|                      |                       |   | Rev: C01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018228

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

- LEGEND**
- DCO Boundary
  - ★ Invertebrate Survey Locations

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |
|             |        |          |       |         |          |            |            |

**PUBLISHED**

**ATKINS**  
Member of the SNC-Lavalin Group

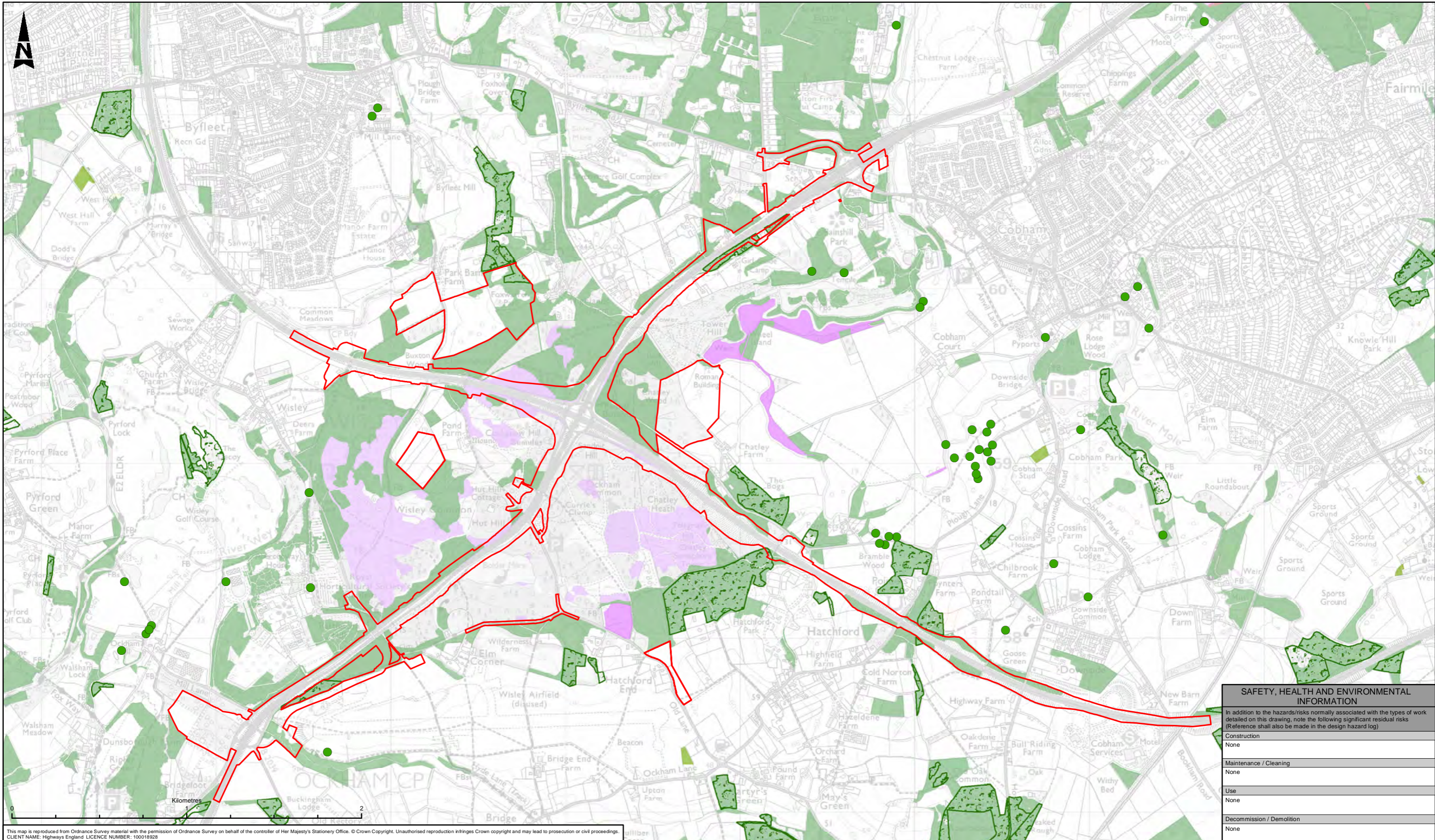
Epsom Gateway  
Ashley Avenue  
Epsom  
Surrey  
KT18 5AL

Tel: +44 (0) 1372 726140  
Fax: +44 (0) 1372 740055  
www.atkinsglobal.com

Copyright © Atkins Limited (2017)

**highways england**

|                   |  |                       |                        |
|-------------------|--|-----------------------|------------------------|
| Project Title     | ROAD IMPROVEMENT PROGRAMME M25 Junction 10 |                       |                        |
| Drawing Title     | FIGURE 7.8 INVERTEBRATE SPECIES SURVEY     |                       |                        |
| Drawing Number    | Project                                    | Originator            | Volume                 |
|                   | HE551522 - ATK - EBD                       | XX - GS - GI - 000010 |                        |
| Original Size: A3 | Scale: 1:20,000                            | Project Ref. No: ---  | Sheet: 1 of 1 Rev: C01 |



This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. CLIENT NAME: Highways England LICENCE NUMBER: 100018928

| SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION  |      |
|---|------|
| In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log) |      |
| Construction  | None |
| Maintenance / Cleaning  | None |
| Use   | None |
| Decommission / Demolition   | None |

**LEGEND**

|                           |                                      |
|---------------------------|--------------------------------------|
| DCO Boundary              | Deciduous woodland                   |
| Ancient Woodland          | Good quality semi-improved grassland |
| Ancient and Veteran Trees | Lowland fens                         |
|                           | Lowland heathland                    |
|                           | Traditional orchard                  |

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
|-------------|--------|----------|-------|---------|----------|------------|------------|
| PUBLISHED   | A1     |          | FM    | NW      | AB       | GB         | 07/02/18   |

|  |  |        |  |
|--|--|--------|--|
| Drawing Suitability  |  | Status |  |
| PUBLISHED  |  | A1     |  |
|  |  |        |  |
| Member of the SNC-Lavalin Group<br>Epsom Gateway<br>Ashley Avenue<br>Epsom<br>Surrey<br>KT18 5AL<br>Tel: +44 (0) 1372 726140<br>Fax: +44 (0) 1372 740055<br>Copyright © Atkins Limited (2017) www.atkinsglobal.com |  |        |  |
| Client   |  |        |  |
|  |  |        |  |

|   |                 |
|---|-----------------|
| Project Title   |                 |
| ROAD IMPROVEMENT PROGRAMME<br>M25 Junction 10                                   |                 |
| Drawing Title   |                 |
| FIGURE 7.9<br>HABITATS OF PRINCIPAL IMPORTANCE<br>AND VETERAN AND ANCIENT TREES |                 |
| Drawing Number  |                 |
| Project   Originator   Volume<br>HE551522 - ATK - EBD<br>XX - GS - GI - 000011  |                 |
| Original Size: A3   | Scale: 1:20,000 |
| Project Ref. No: ---  | Sheet: 1 of 1   |
| Rev: C01  |                 |

## 8. Road Drainage and the Water Environment Figures (not used)

## 9. Landscape Figures