

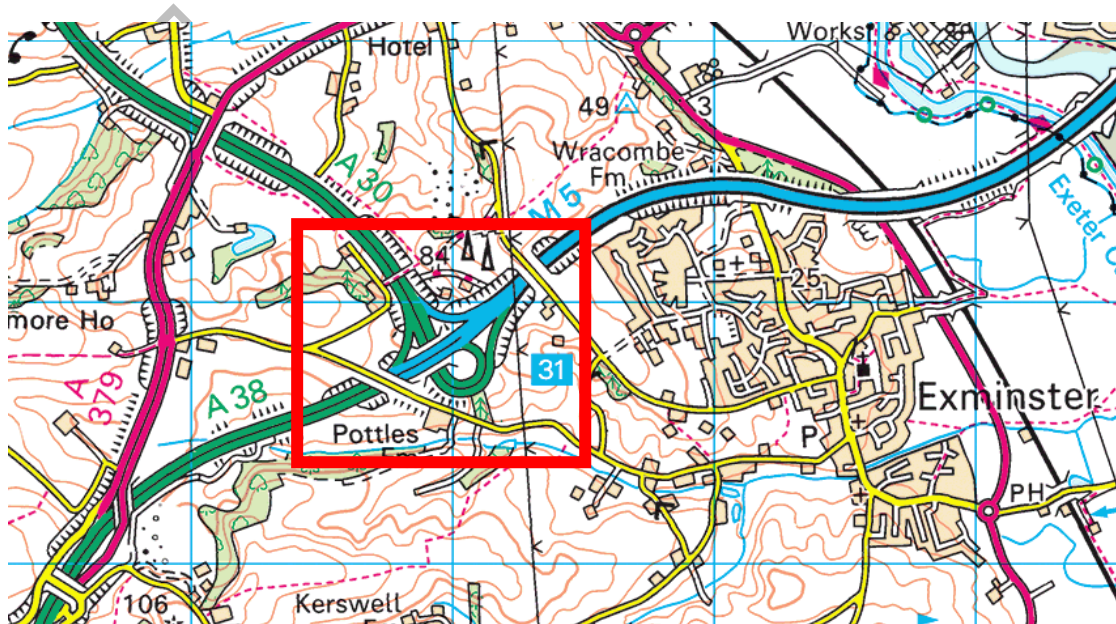
**National Asset Delivery
Technical Surveys and Testing**

**Site Information for
570129 M5 J31 Duct survey**

1 SITE INFORMATION

1.1 Site boundary, extents and access arrangements

- 1.1.1 The M5 J31 is a grade separated junction linking the M5 to the A38 in addition to this it comprises of a circulating underpass embankment connecting the M5 to the A30. The site includes both the entry and exit of the South and Northbound Slip Roads and the Circulatory.
- 1.1.2 The site is bounded by the highway's boundary, predominantly defined by high embankments.
- 1.1.3 The site is to be accessed using the Highways England Estate.



1.2 Pavement

- 1.2.1 The paved areas on site are the main carriageway and slip roads joining trunk roads to the M5. Due to many slip roads there is limited hardshoulder throughout the site.

1.3 Drainage

- 1.3.1 There is an existing system of highways drainage throughout the site with numerous filter drains along the slip roads and central reservation.

1.4 Geotechnical

- 1.4.1 See M5 J31 Lighting Geotechnical Assessment

1.5 Soft Estate and Environment

- 1.5.1 Slip road verges are grassed to provide forward visibility for signage. Extend further back from carriageway to large highway embankments.

1.6 Traffic Signs, Road Markings

1.6.1 Signage

- Signage on the slip roads is predominantly blue backing motorway signage which are illuminated. Some signage not protected VRS barrier are non-passively safe.

1.6.2 Road Markings

- Road markings are typical for this road layout, a combination of Main motorway carriageway markings and for grade separated junctions.

1.7 Soft Estate and Environment

- 1.7.1 Slip road verges are grassed to provide forward visibility for signage. Extend further back from carriageway is high highway embankments.

1.8 Lighting

- 1.8.1 There is existing streetlighting provision throughout the entire scheme extent.

1.9 Structures and Buildings

- 1.9.1 Overbridges

1.10 Tunnels

- 1.10.1 There are no tunnels in the vicinity of works

1.11 Technology

- 1.11.1 There is one MS1 matrix sign located within the central reservation as the A38 joins the M5 Northbound and a Gantry Mounted Lane Signals with a 2x12 Message Sign Southbound on the M5

1.12 Statutory Undertakers

1.12.1 The following services are located within the site extents:

- British Telecom
- Virgin Media
- Western Power Distribution
- Bristol Water
- South West Water
- Wales and West Utilities
- Highways England

1.13 Traffic

1.13.1 Annual traffic reports from Highways England show average daily flow (AADF) and % of commercial vehicles within AADF in 2019 unless otherwise stated.

1. M5 to A38 Southbound Main Carriageway before junction (2018):
AADF: 43,880
% cv within AADF: 9.4%.
2. A38 to M5 Northbound Main Carriageway before junction (2016):
AADF: 40,653
% cv within AADF: 8.2%.
3. M5 to A38 Southbound Main Carriageway between junctions:
AADF: 26,436
% cv within AADF: 12.2%.
4. A38 to M5 Northbound Main Carriageway between junctions:
AADF: 27,569
% cv within AADF: 9.1%.
5. A30 Eastbound: AADF: 23,818
% cv within AADF: 8.0%.
6. A30 Westbound: AADF: 20,435
% cv within AADF: 9.3%.
7. M5 to A30 Southbound Slip AADF: 17,497
% cv within AADF: 10.4%.
8. A30 to M5 Northbound Slip AADF: 18,748
% cv within AADF: 11.4%.
9. A30 to A38 Southbound Slip AADF: 7,785
% cv within AADF: 7.1%.
10. A38 to A30 Westbound Slip AADF: 5270
% cv within AADF: 6.7%.

