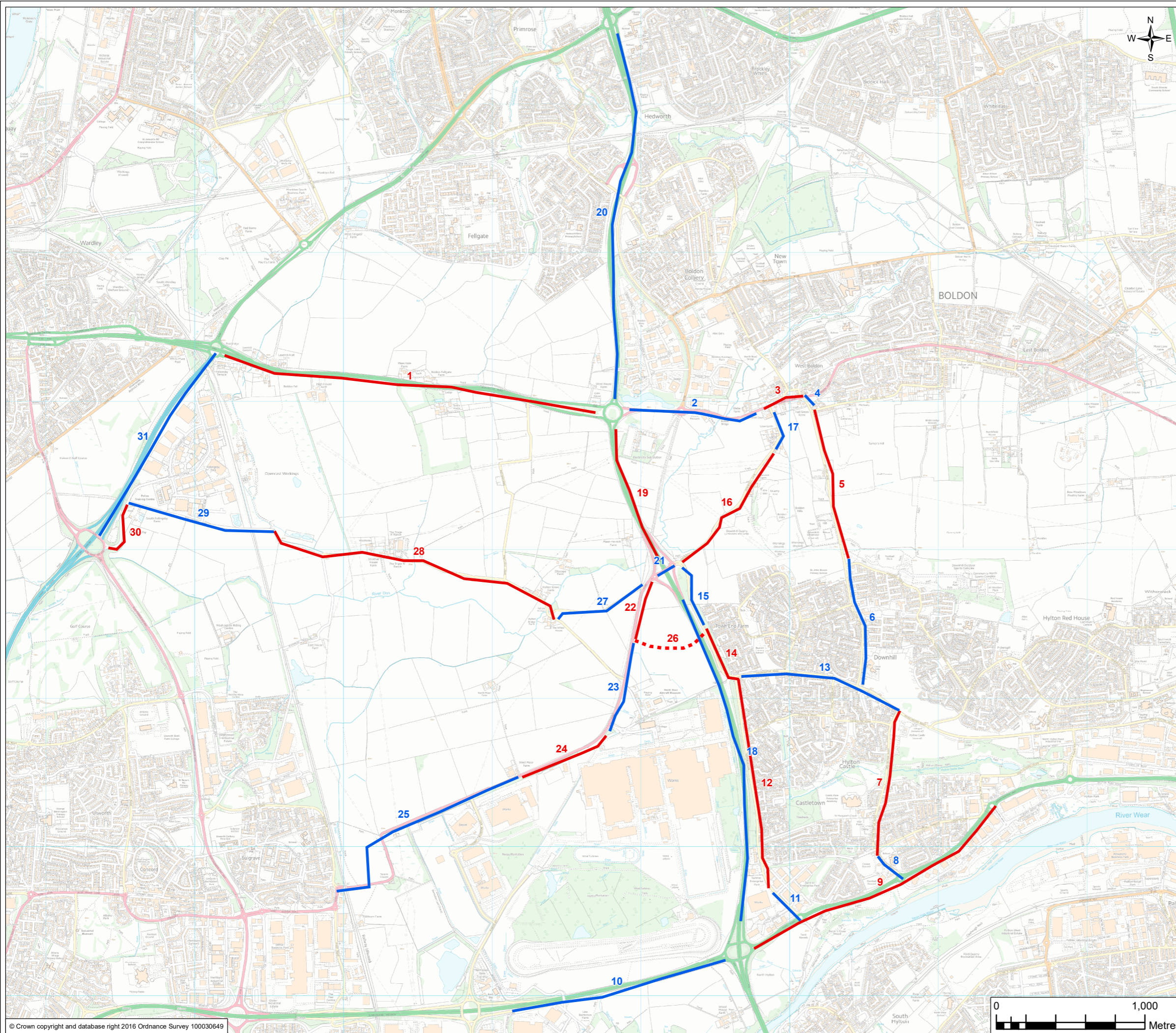


FIGURE 13.1

Legend

Driver Stress Assessment

- High
- - - Medium
- Low



0	JAN 19	Application Issue	LT	MF	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

JACOBS
 1 City Walk, Leeds, LS11 9DX, UK
 Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389
 www.jacobs.com

Client **highways england**

Project **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title **TRAFFIC AND TRANSPORT STUDY AREA - SECTIONS AND DRIVER STRESS RESULTS**

Drawing Status **DCO SUBMISSION**

Scale @ A3 **1:25,000** **DO NOT SCALE**

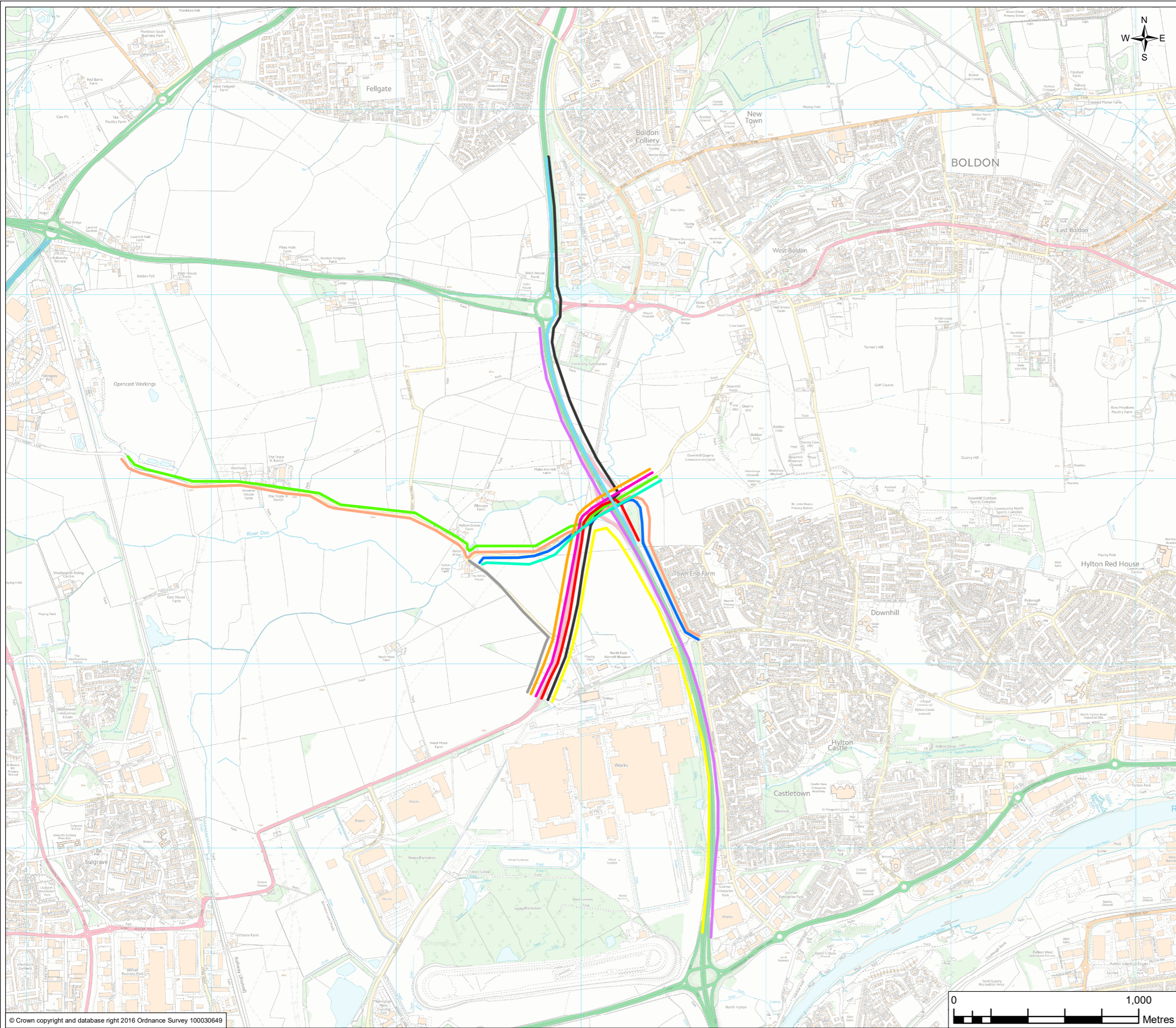
Jacobs No. **B0140301**

Client No.

Drawing No. **B0140301_DLJ_ES_1301**

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

FIGURE 13.2



- Legend**
- Journey Routes**
- Journey 1
 - Journey 2
 - Journey 3
 - Journey 4
 - Journey 5
 - Journey 6
 - Journey 7
 - Journey 8
 - Journey 9
 - Journey 10
 - Journey 11
 - Journey 12

0	JAN 19	Application Issue	LT	MF	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client

highways england

Project

A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing Title

TRAFFIC AND TRANSPORT STUDY AREA - JOURNEYS (BASELINE)

Drawing Status

DCO SUBMISSION

Scale @ A3

1:20,000 DO NOT SCALE

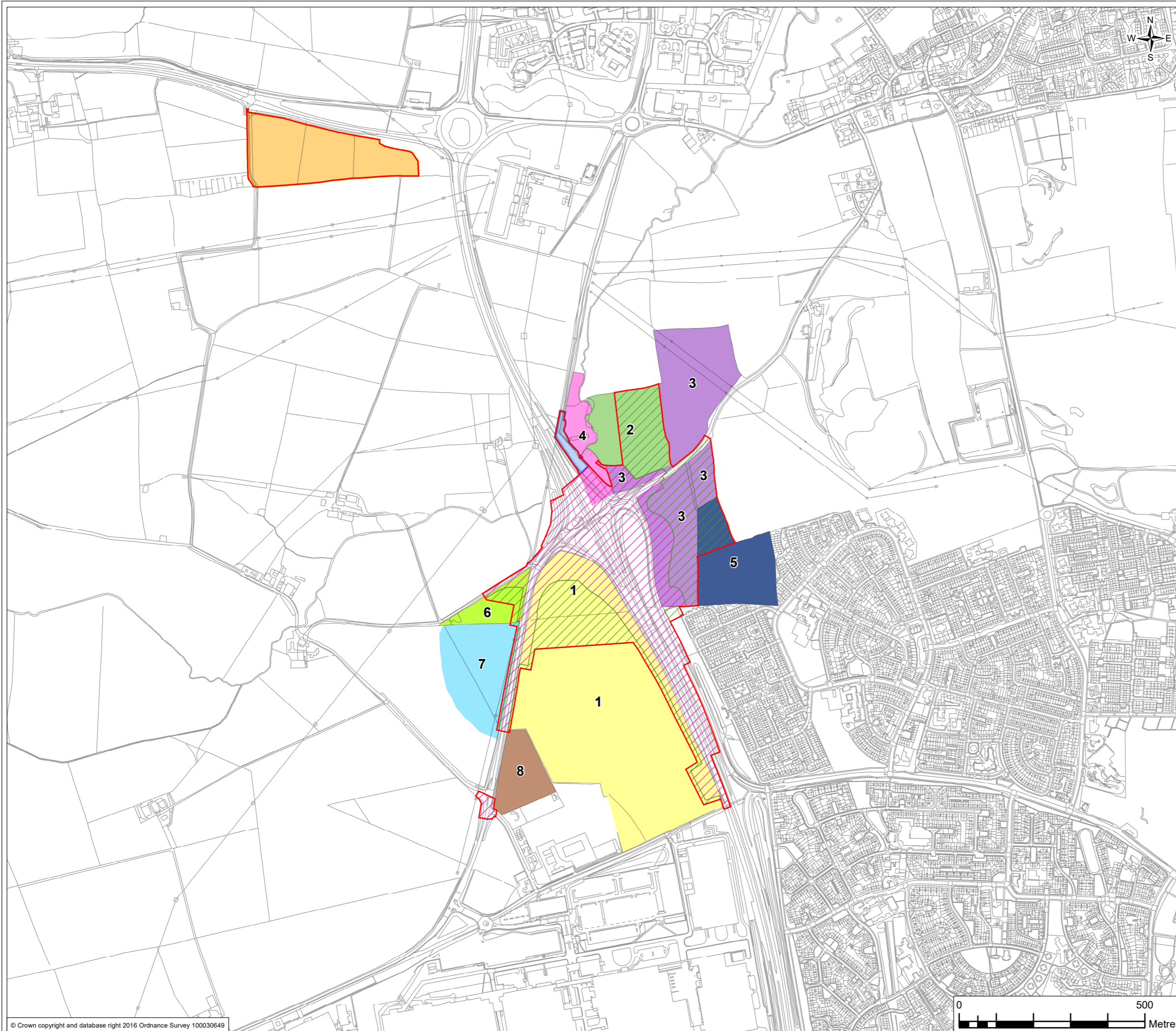
Jacobs No. B0140301

Client No.

Drawing No. B0140301_DLJ_ES_1302

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

FIGURE 13.3



Legend

- DCO Boundary
- Land over which rights of way permanently extinguished or reinstated (see Note 1)
- Testo's main site compound – shared use option area
- Temporary land take excluding Testo's compound and Testo's B46 NMU areas (see Note 1)
- Permanent land take excluding Testo's compound and Testo's B46 NMU areas (see Note 1)

Land Take

- 1 Wheathill Farm, Whitburn
- 2 West Fellgate Farm, Wardley
- 3 Mount Pleasant Farm, West Boldon
- 4 Land at Downhill Lane Junction (1)
- 5 Land at Downhill Lane Junction (2)
- 6 Land at Downhill Lane Junction (3)
- 7 Land at Downhill Lane Junction (4)
- 8 Land to the east of A1290

Note:
 1. See section 1.5 in document TR010024/APP/6.1 (Volume 6) and document TR010024/APP/7.5.

0	JAN 19	Application Issue	LT	EA	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client **highways england**

Project **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title **PEOPLE AND COMMUNITIES - FARM BUSINESSES AND AGRICULTURAL LAND TAKE**

Drawing Status **DCO SUBMISSION**

Scale @ A3 **1:10,000** **DO NOT SCALE**

Jacobs No. **B0140301**

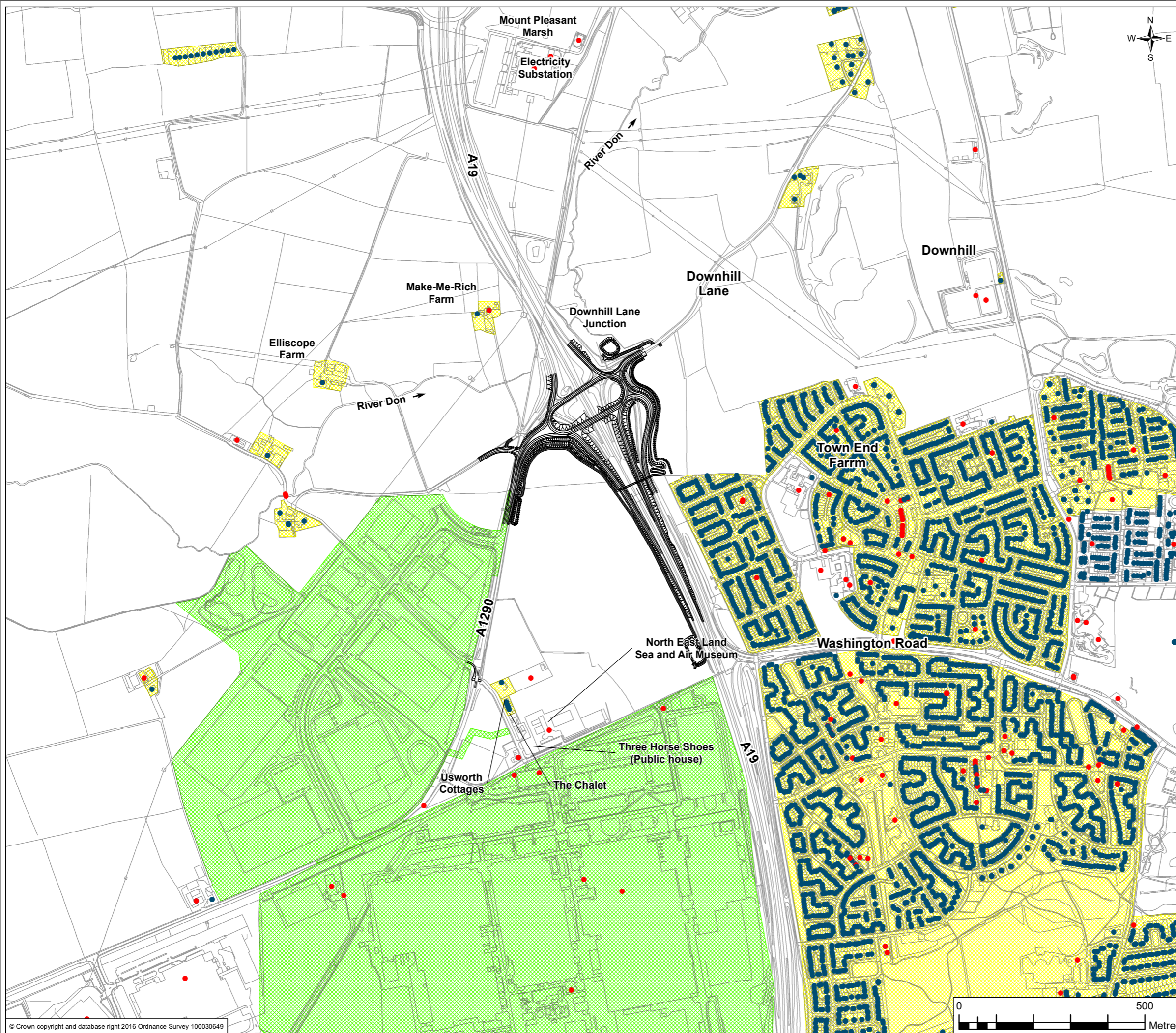
Client No. **B0140301_DLJ_ES_1303**

Drawing No. **B0140301_DLJ_ES_1303**

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



FIGURE 13.4



Legend

- Preliminary Design
- Other Property
- Dwelling
- Landuse
- Residential
- Employment Sites

The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.

0	JAN 19	Application Issue	IM	EA	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client

Project
A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing Title
PRIVATE PROPERTY - RESIDENTIAL, COMMERCIAL AND INDUSTRIAL

Drawing Status
DCO SUBMISSION

Scale @ A3
 1:10,000 DO NOT SCALE

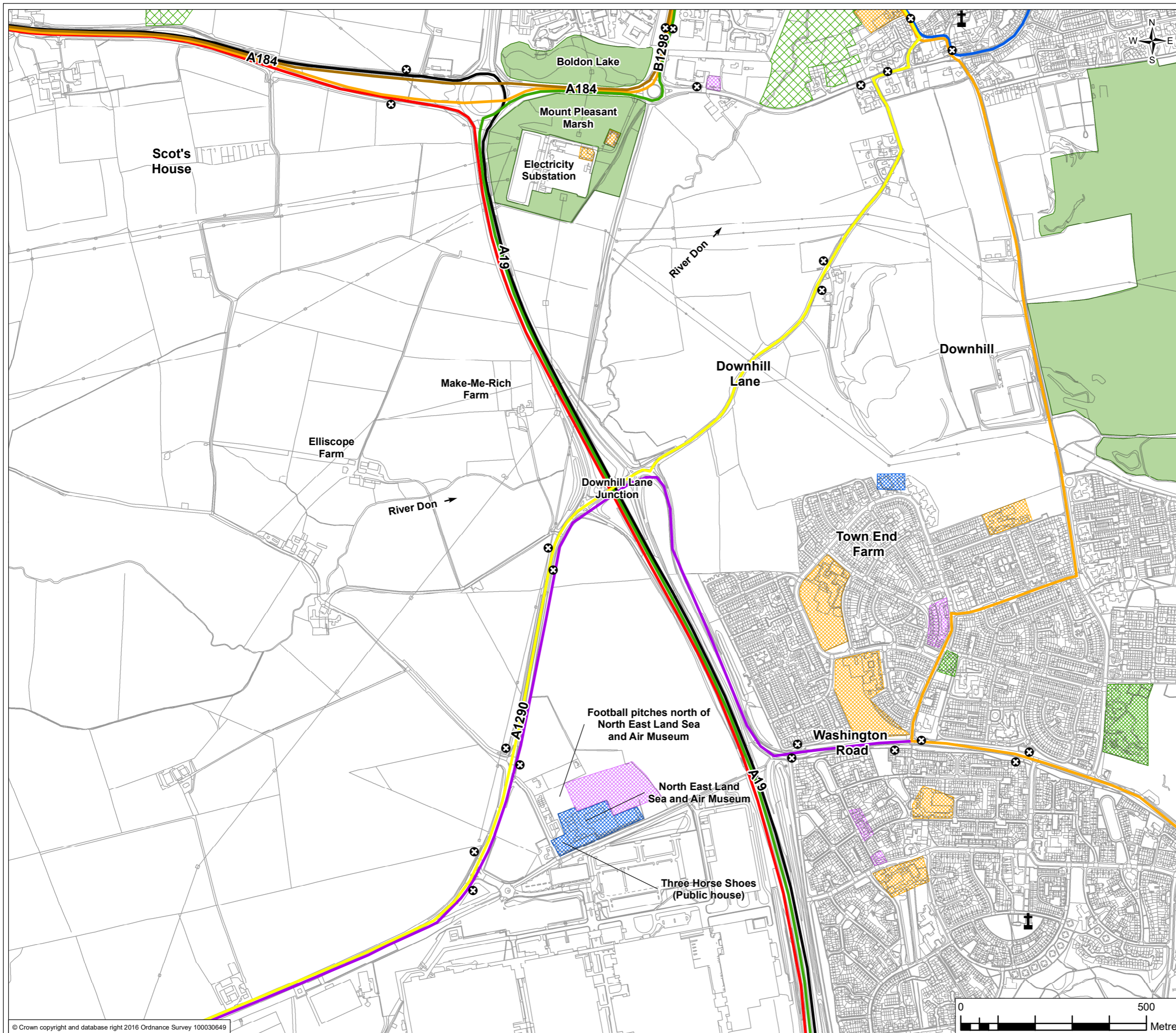
Jacobs No. B0140301

Client No.

Drawing No. B0140301_DLJ_ES_1304

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

FIGURE 13.5



Legend

- Aged Persons / Care Home
- Church
- Health Facility
- Bus Stop
- Bus 50 between South Shields and Washington / Durham
- Bus 50A between South Shields and Washington / Durham
- Bus X34 between South Shields and Gateshead / Newcastle
- Buses 29 / X36 between Newcastle / Gateshead / Heworth Rail Station and Sunderland / Silksworth
- Buses 5 and 9 between South Shields or Sunderland and Jarrow / North Shields, and Bus 558 between Whitburn and Fellgate
- Buses 56/ N56 between Concord, Gateshead/ Newcastle
- Buses X9 and X10 to Gateshead and Newcastle
- Buses X9 and X10 to Sunderland and Middlesbrough
- Proposed Open Space
- Designated Open Space
- School, Education or Child Care
- Health Facility including Pharmacies
- Leisure Facility/Restaurant or Fast Food
- Other Community Facility

0	JAN 19	Application Issue	LT	EA	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client

Project **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title **COMMUNITY LAND, FACILITIES AND BUS ROUTES**

Drawing Status **DCO SUBMISSION**

Scale @ A3 **1:10,000** **DO NOT SCALE**

Jacobs No. **B0140301**

Client No.

Drawing No. **B0140301_DLJ_ES_1305**

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

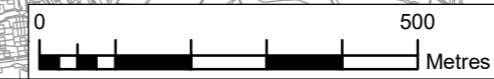
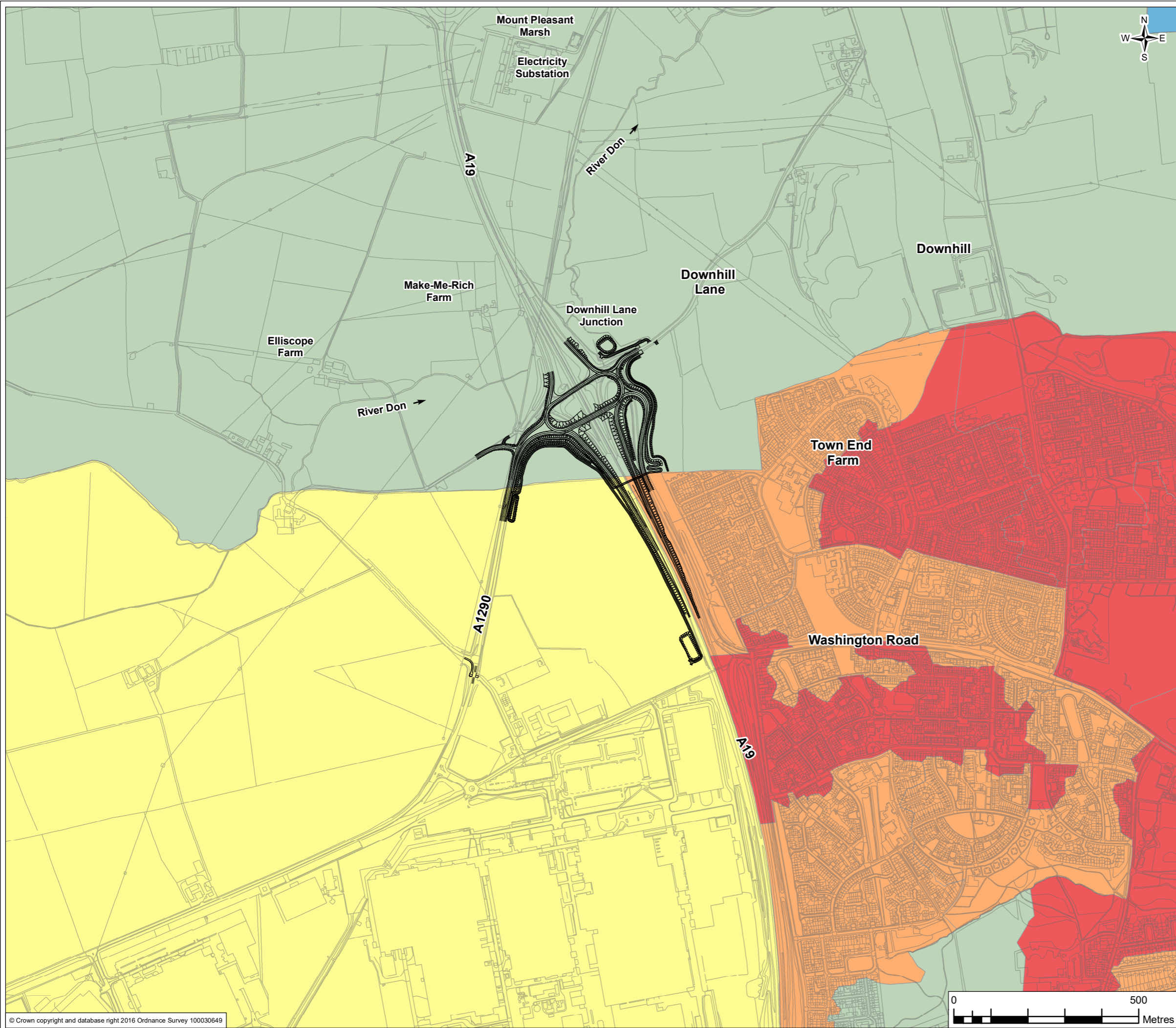


FIGURE 13.6



Legend

— Preliminary Design

Index of Multiple Deprivation (IMD)

- Least deprived
-
-
-
- Most deprived

0	JAN 19	Application Issue	IM	EA	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client

Project
A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing Title
COMMUNITIES AND DEPRIVATION - LOCAL STUDY AREA

Drawing Status
DCO SUBMISSION

Scale @ A3: 1:10,000 DO NOT SCALE

Jacobs No. B0140301
Client No.

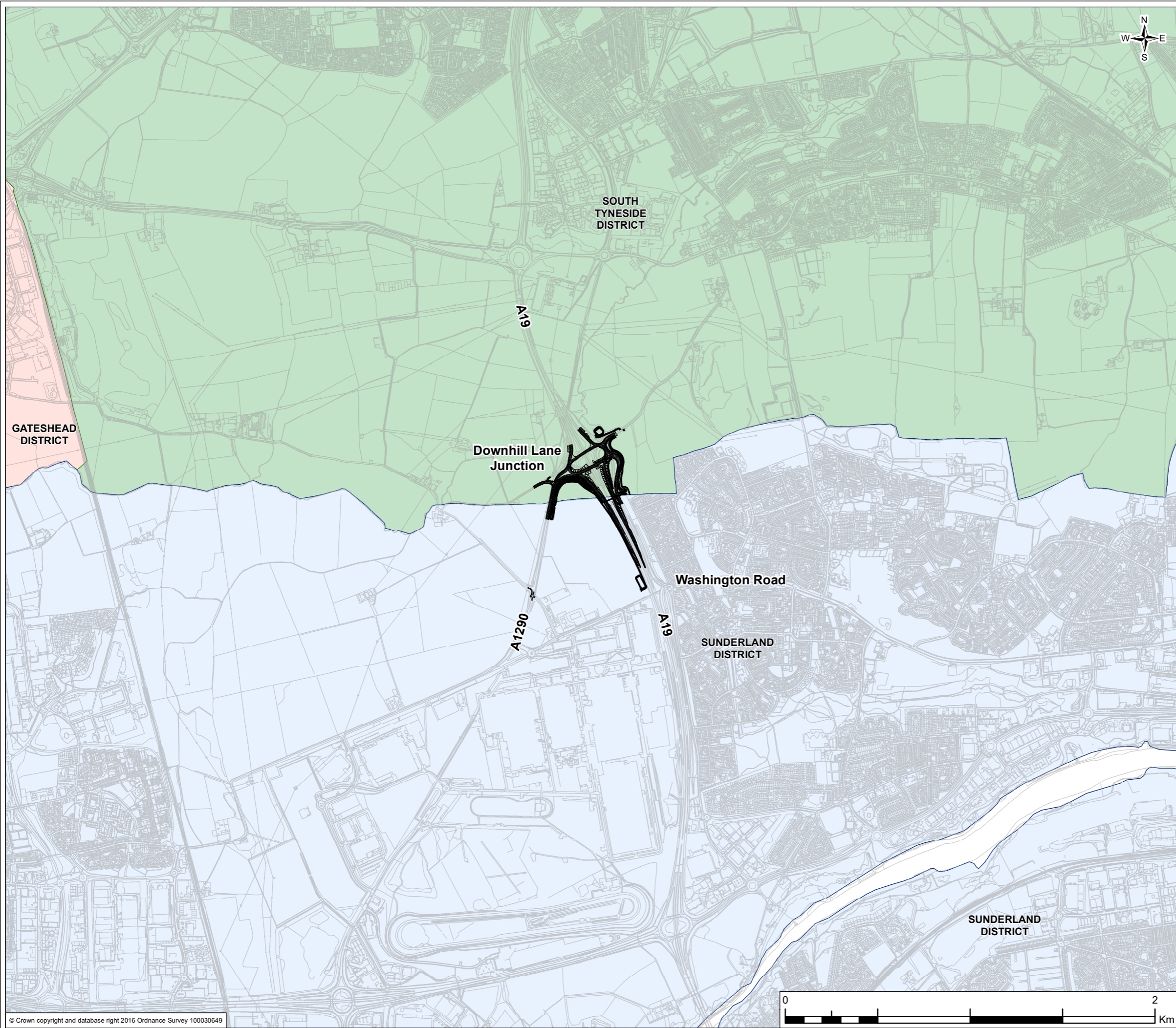
Drawing No. B0140301_DLJ_ES_1306

This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

© Crown copyright and database right 2016 Ordnance Survey 100030649



FIGURE 13.7



- Legend**
- Preliminary Design
 - █ Gateshead District Boundary
 - █ South Tyneside District Boundary
 - █ Sunderland District Boundary

0	JAN 19	Application Issue	IM	EA	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client

Project
A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing Title
LOCAL AUTHORITIES - WIDER STUDY AREA

Drawing Status
DCO SUBMISSION

Scale @ A3: 1:20,000 DO NOT SCALE

Jacobs No. B0140301
 Client No.
 Drawing No. B0140301_DLJ_ES_1307

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

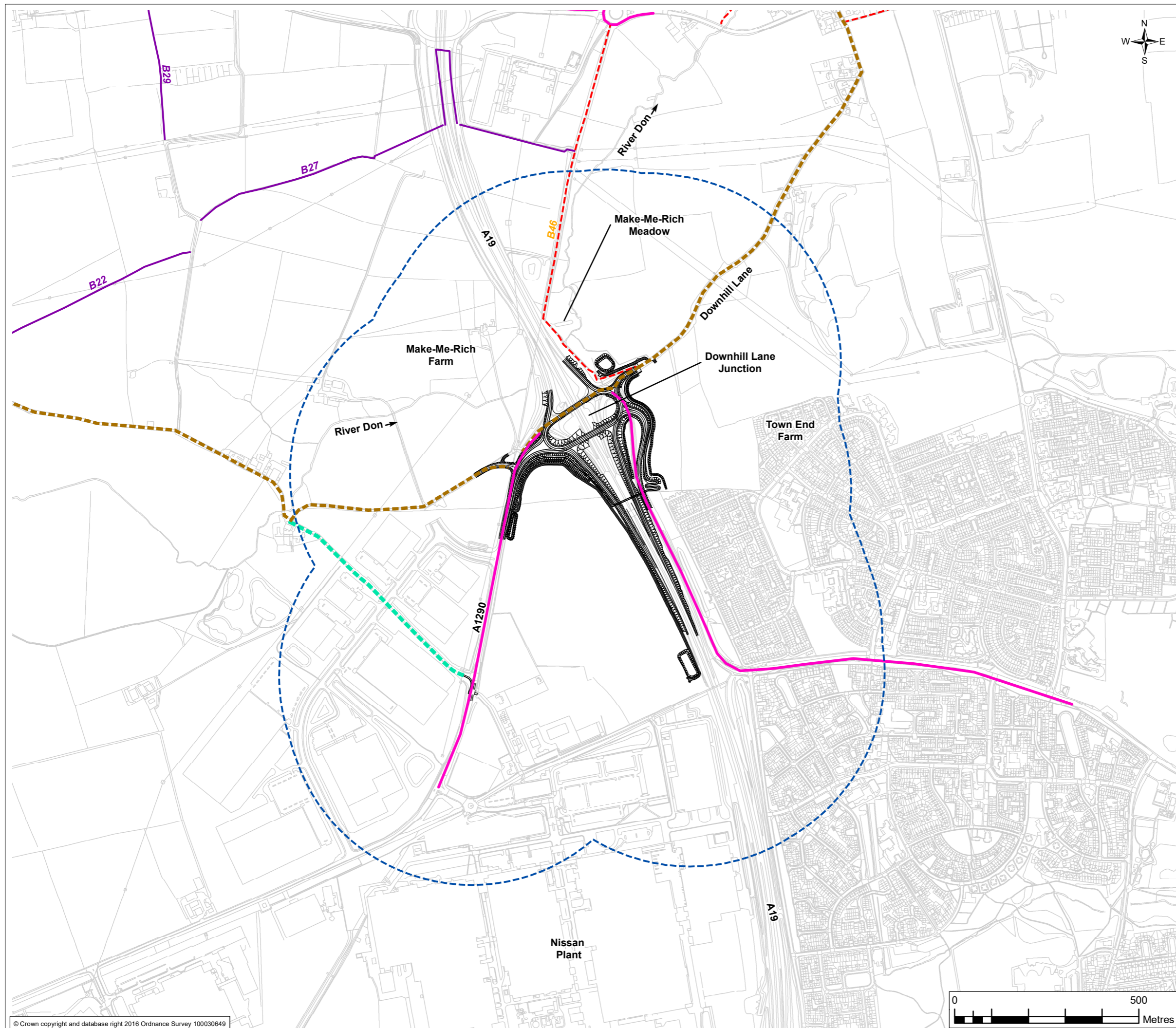
© Crown copyright and database right 2016 Ordnance Survey 100030649

FIGURE 13.8



Legend

- Preliminary Design
- ⬡ NMU Study Area (500m Design Buffer)
- Footpath
- NMU Route through IAMP One
- - - Bridleway
- Cycleway
- Great North Forest Trail (recreational trail shown on OS maps)



The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.

0	JAN 19	Application Issue	IM	EA	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client

Project
 A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing Title
 EXISTING FACILITIES FOR PEDESTRIANS, CYCLISTS AND EQUESTRIANS

Drawing Status
 DCO SUBMISSION

Scale @ A3
 1:10,000 DO NOT SCALE

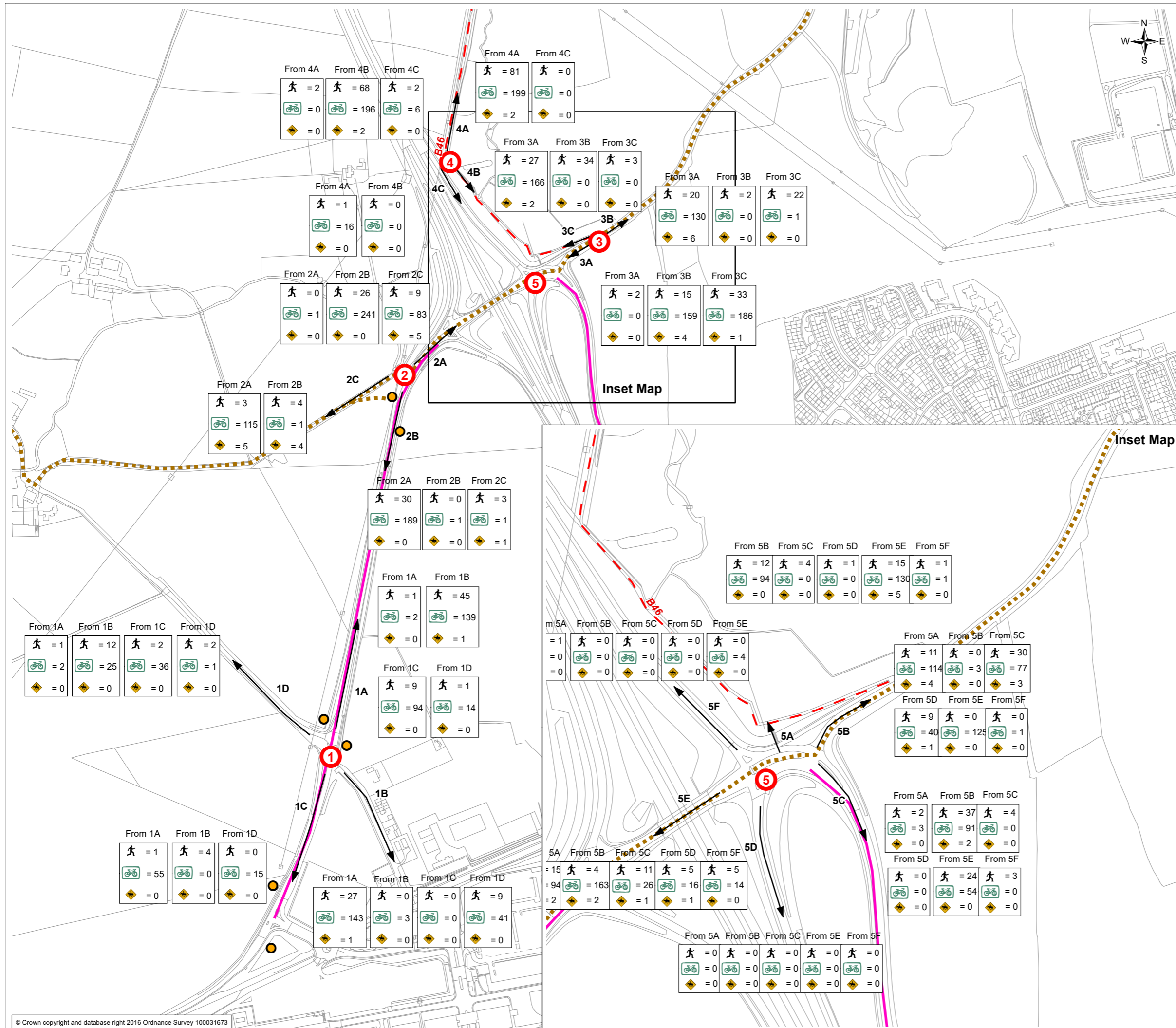
Jacobs No.
 B0140301

Drawing No.
 B0140301_DLJ_ES_1308

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

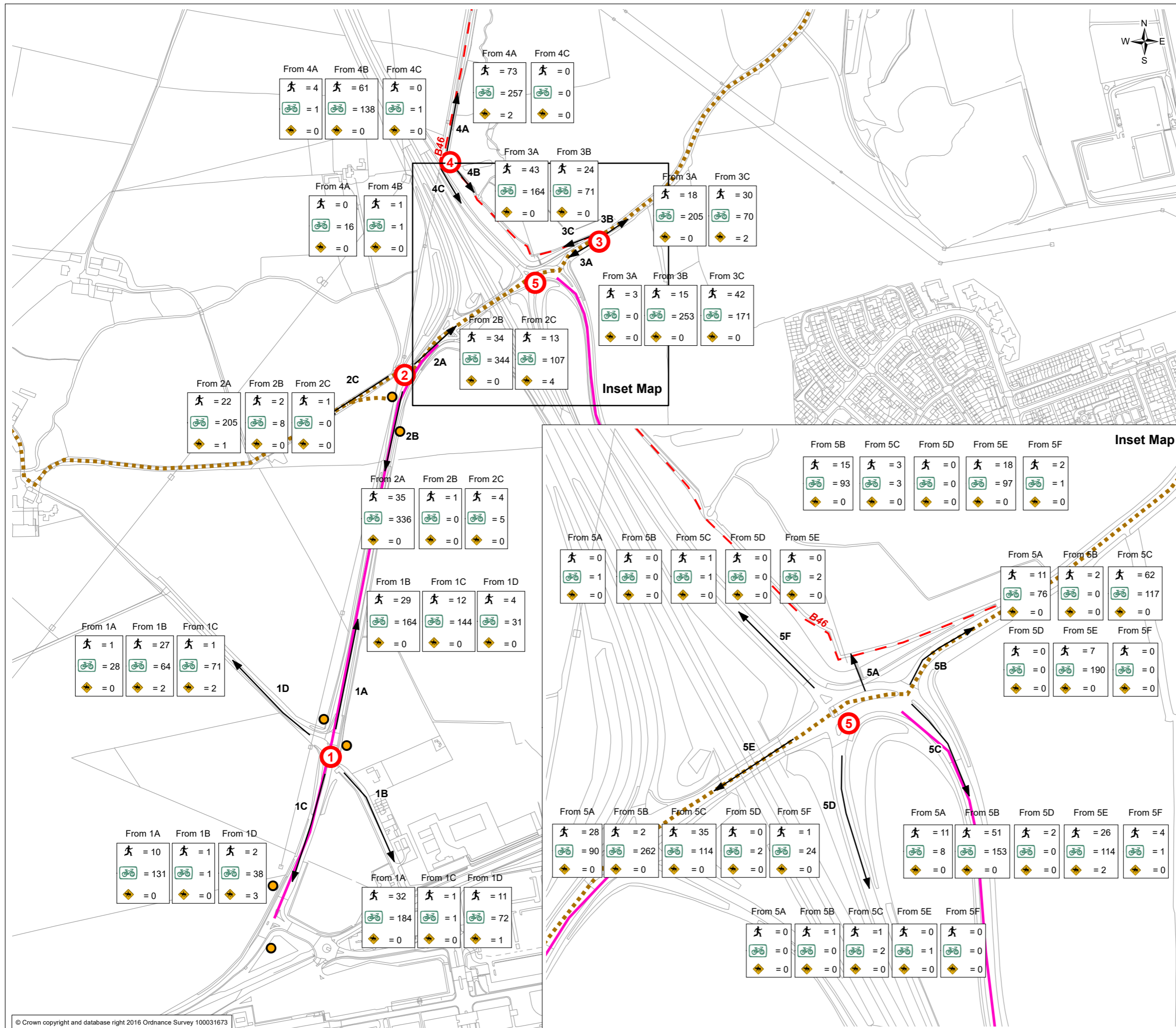


FIGURE 13.9



0	JAN 19	Application Issue	IM	EA	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
<p>1 City Walk, Leeds, LS11 9DX, UK Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389 www.jACOBS.com</p>						
Client						
Project						
A19 DOWNHILL LANE JUNCTION IMPROVEMENT						
Drawing Title						
LOCATIONS AND RESULTS OF NMU SURVEYS WINTER 2016						
Drawing Status						
DCO SUBMISSION						
Scale @ A3		NOT TO SCALE	DO NOT SCALE			
Jacobs No.		B0140301				
Client No.						
Drawing No.		B0140301_DLJ_ES_1309				
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

FIGURE 13.10



Legend

- 1 Survey Location
- Bus Stop
- - - Footpath
- - - Bridleway
- - - Cycleway
- Great North Forest Trail
- ♣ Pedestrian
- 🚲 Cyclist
- 🐎 Equestrian

0	JAN 19	Application Issue	IM	EA	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

JACOBS
 1 City Walk, Leeds, LS11 9DX, UK
 Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389
 www.jacobs.com

Client: **highways england**

Project: **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title: **LOCATIONS AND RESULTS OF NMU SUMMER SURVEYS 2016**

Drawing Status: **DCO SUBMISSION**

Scale @ A3	NOT TO SCALE	DO NOT SCALE
Jacobs No.	B0140301	
Client No.		
Drawing No.	B0140301_DLJ_ES_1310	

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.