

June 2023

# London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents 5.03 Chapter 7 Air Quality Figures 7.3b - 7.26

Application Document Ref: TR020001/APP/5.03 APFP Regulation: 5(2)(a)

#### The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

## London Luton Airport Expansion Development Consent Order 202x

### 5.03 ENVIRONMENTAL STATEMENT CHAPTER 7 AIR QUALITY FIGURES 7.3b – 7.26

Regulation number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR020001
Document Reference:	TR020001/APP/5.03
Author:	Luton Rising

Version	Date	Status of Version
Issue 01	February 2023	Application issue
Revision 01	June 2023	Additional submissions (updated in response to Rule 9 letter)

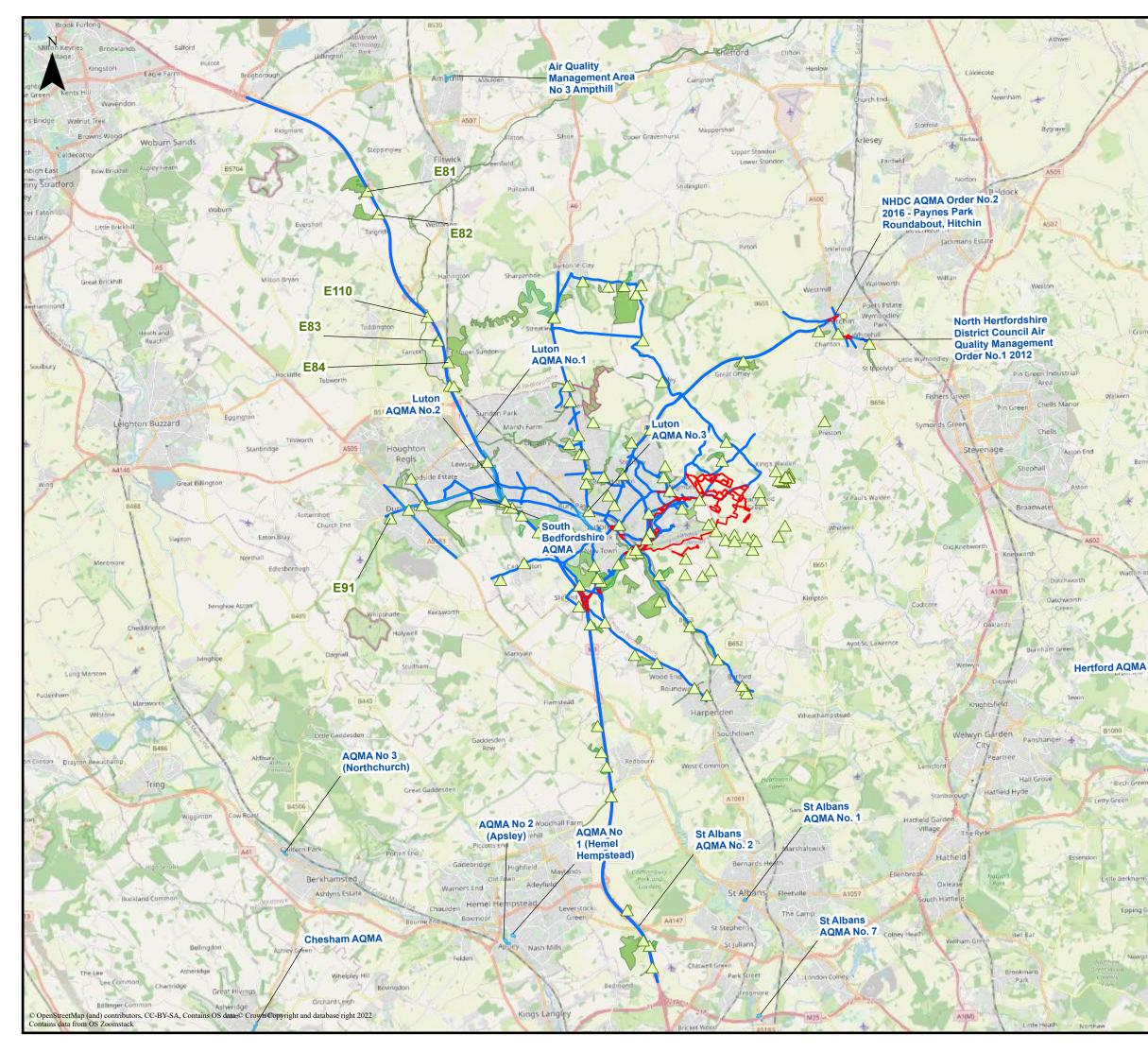


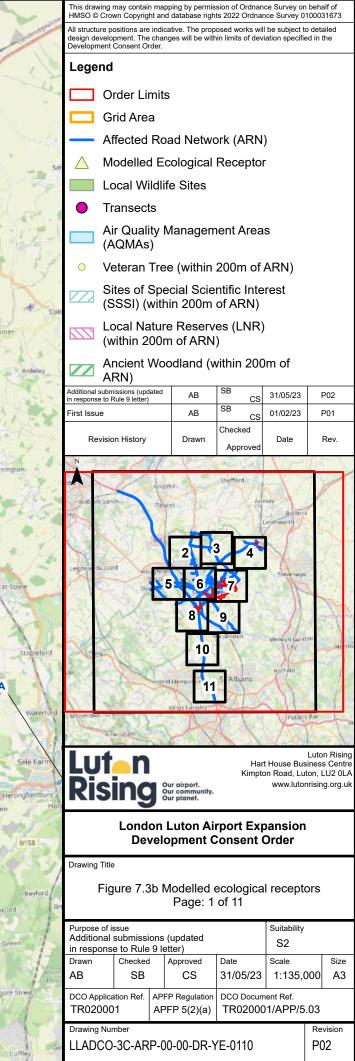
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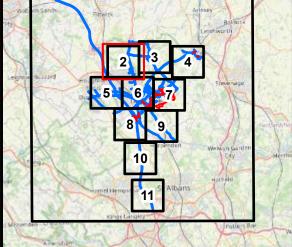
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- △ Modelled Ecological Receptor
- Local Wildlife Sites
- Transects

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- Air Quality Management Areas (AQMAs)
- Veteran Tree (within 200m of ARN)
  - Sites of Special Scientific Interest (SSSI) (within 200m of ARN)
- Local Nature Reserves (LNR) (within 200m of ARN)
- Ancient Woodland (within 200m of ARN)

Revision History	Drawn Approved		Date	Rev.	
Revision History	Drawn	Checked		Rev.	
First Issue	AB	SB CS	01/02/23	P01	
Additional submissions (updated in response to Rule 9 letter)	AB	SB CS	31/05/23	P02	



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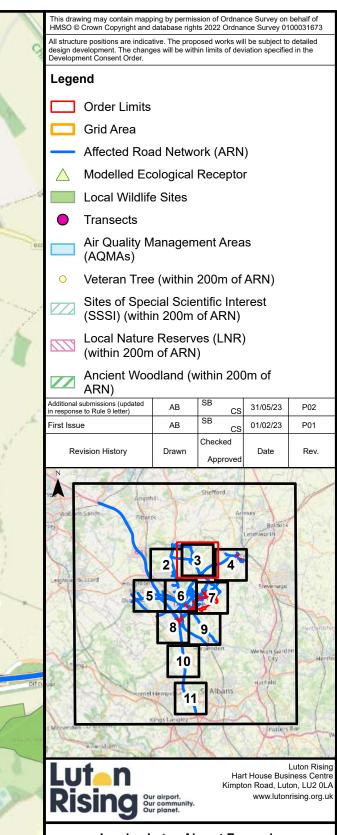
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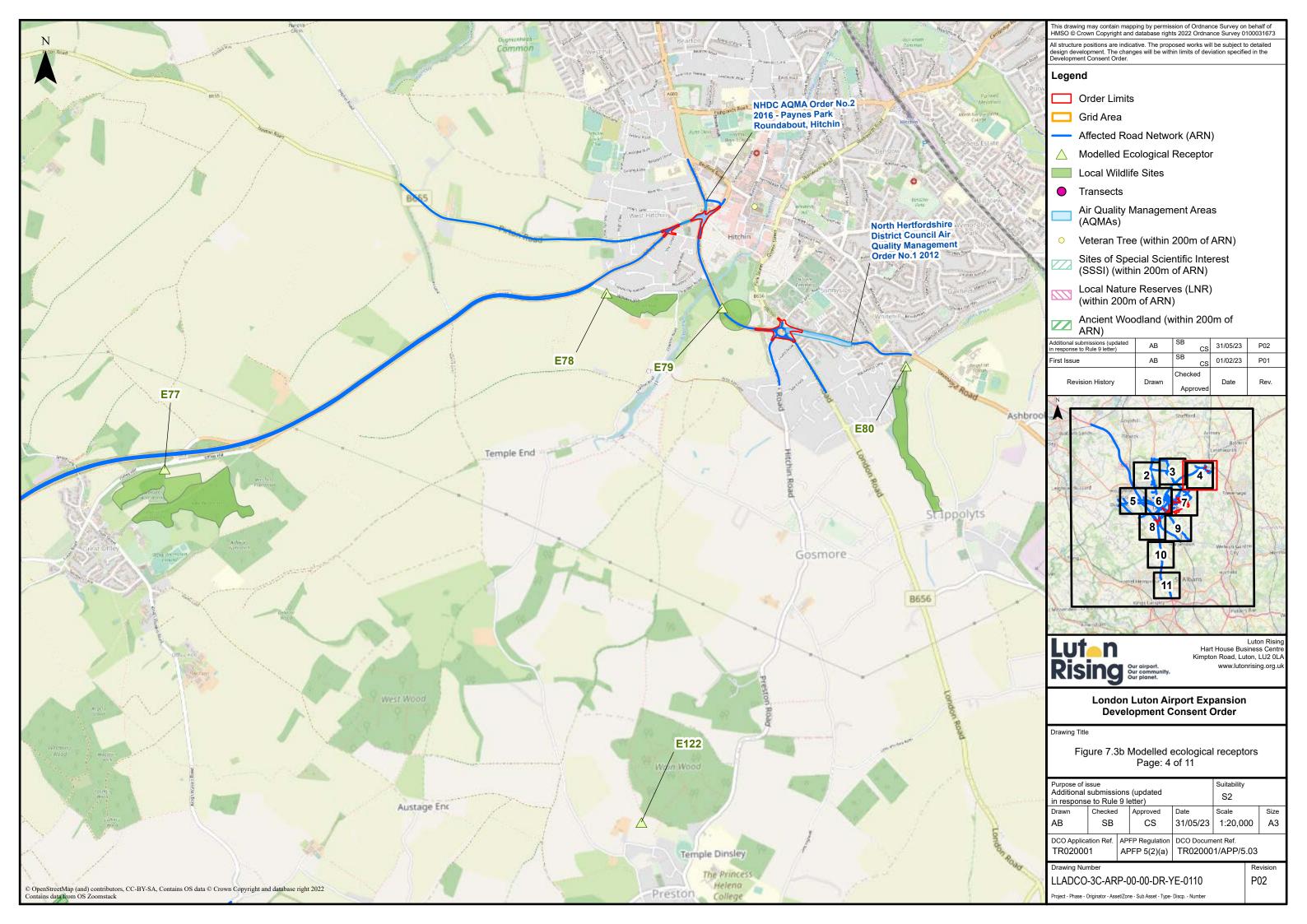


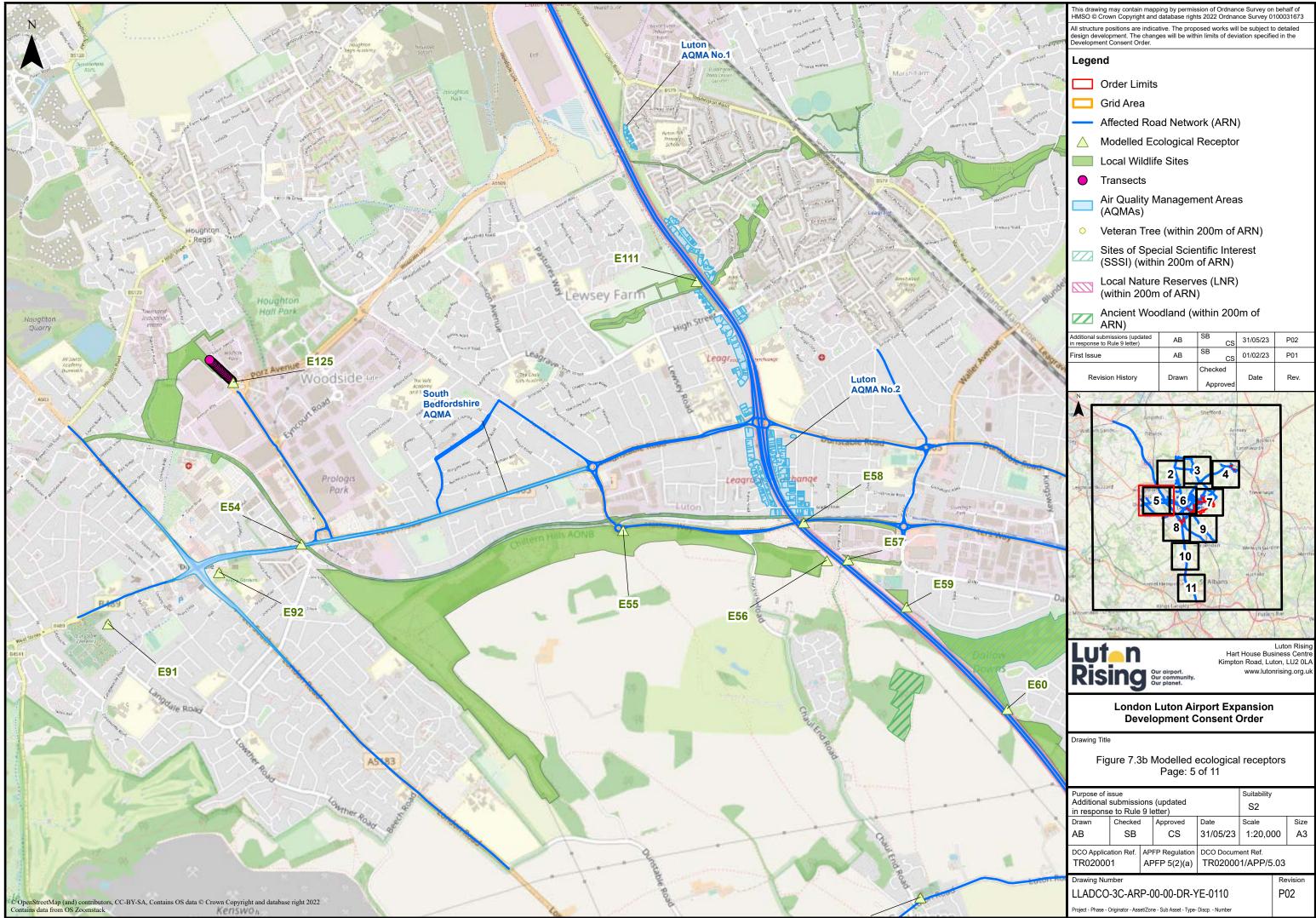
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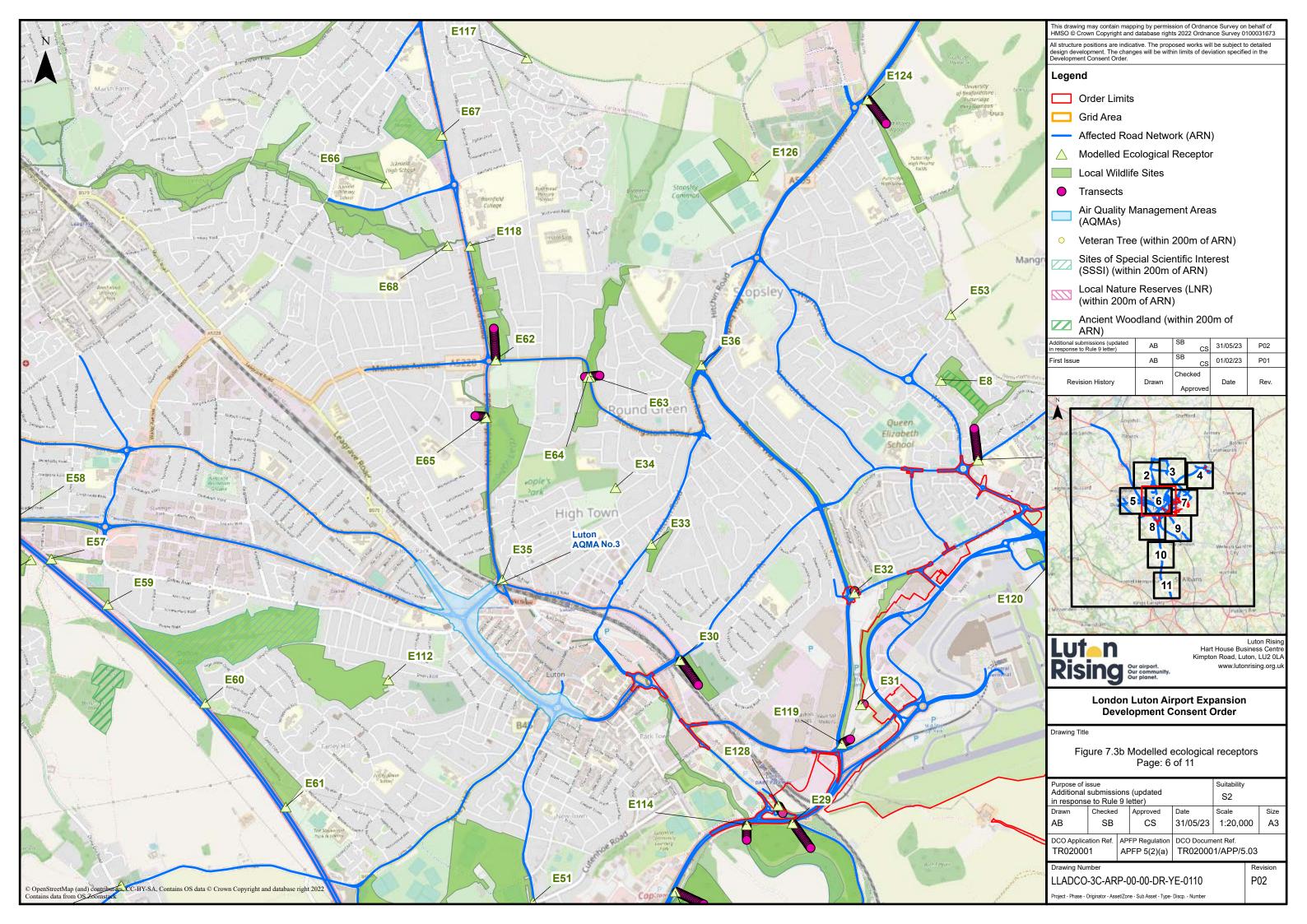
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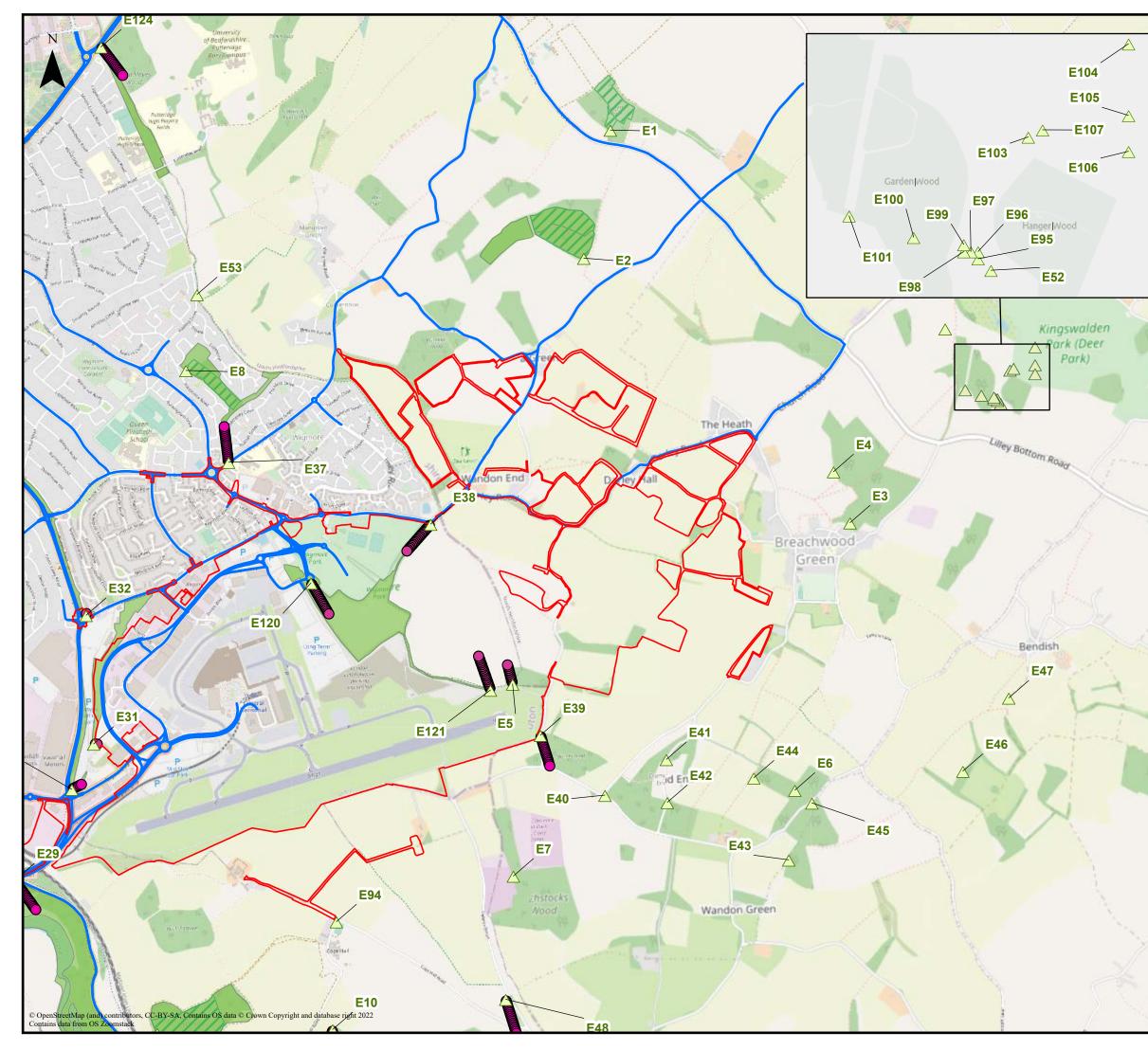
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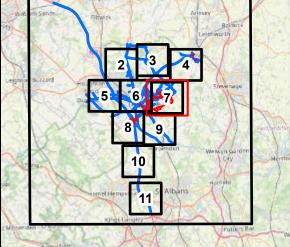
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#### Legend

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- Order Limits
- 🔲 Grid Area
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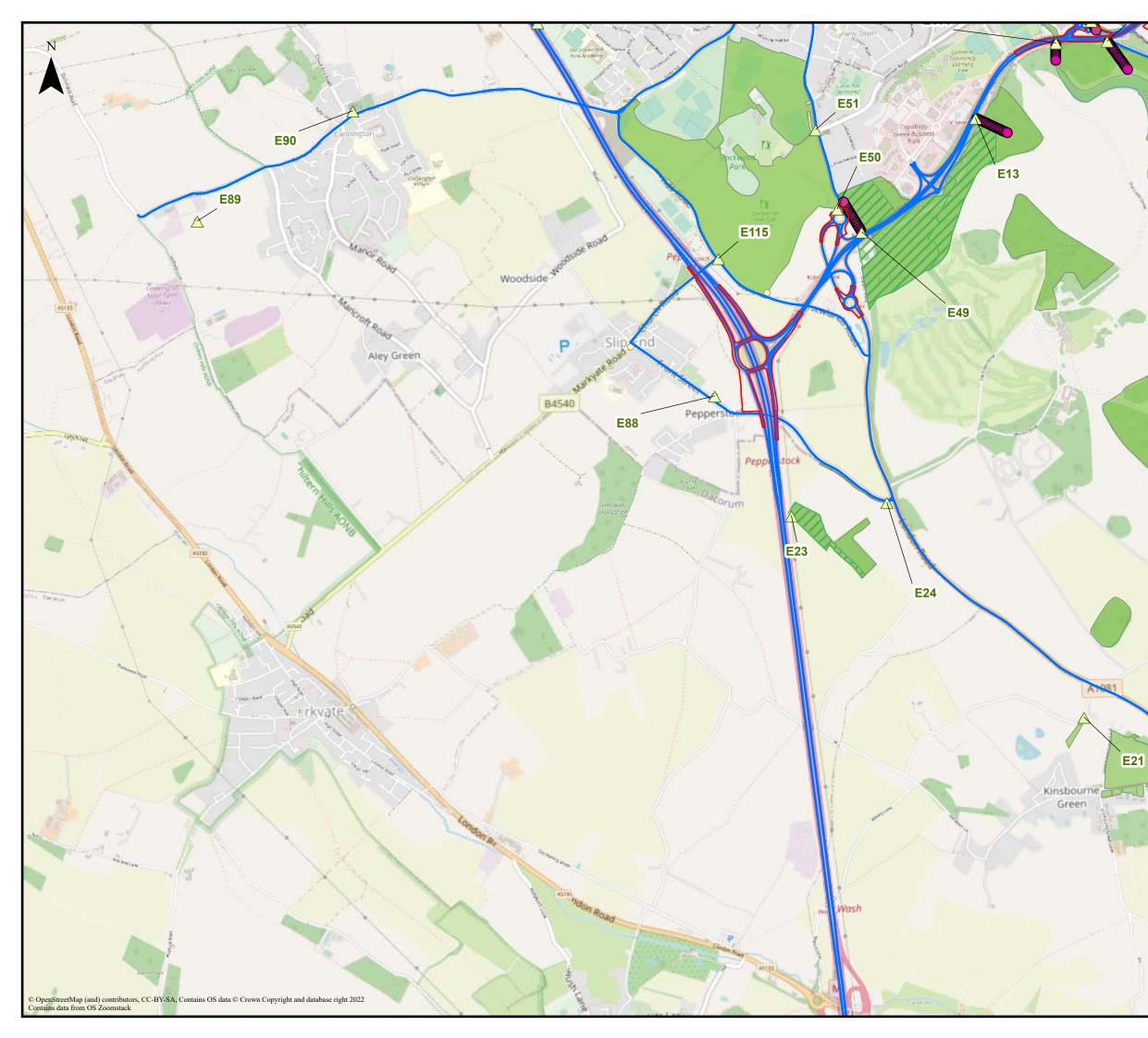
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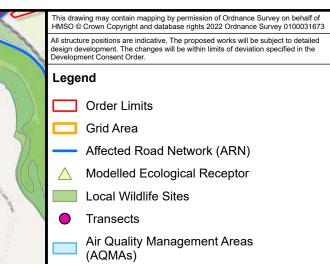
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• Veteran Tree (within 200m of ARN)

Sites of Special Scientific Interest (SSSI) (within 200m of ARN)

Local Nature Reserves (LNR) (within 200m of ARN)

Ancient Woodland (within 200m of ARN)

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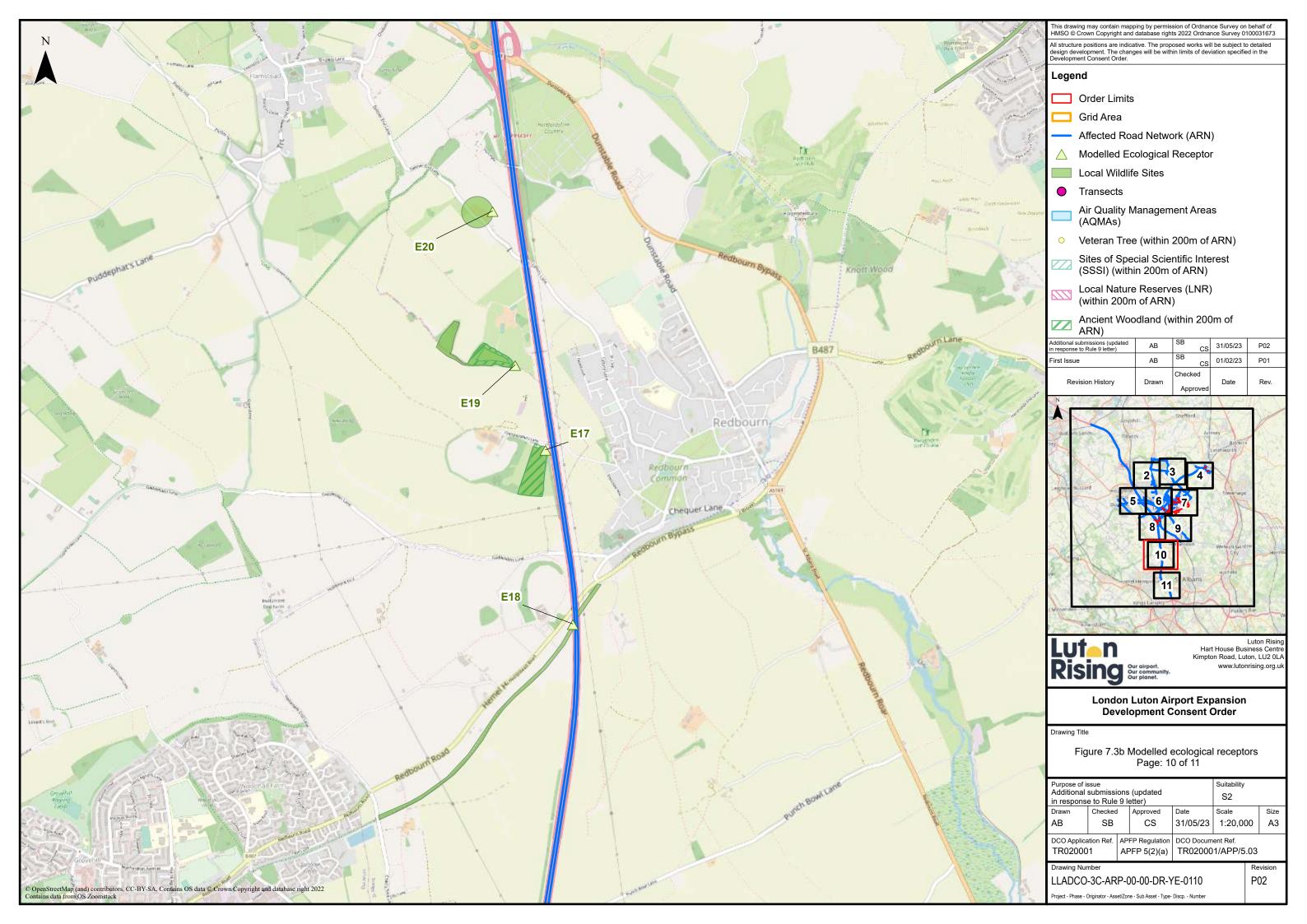
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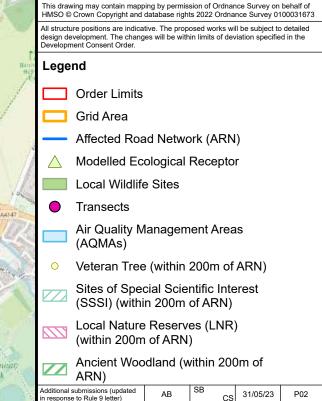
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Figure 7.3b Modelled ecological receptors Page: 9 of 11

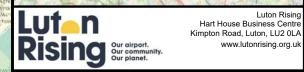
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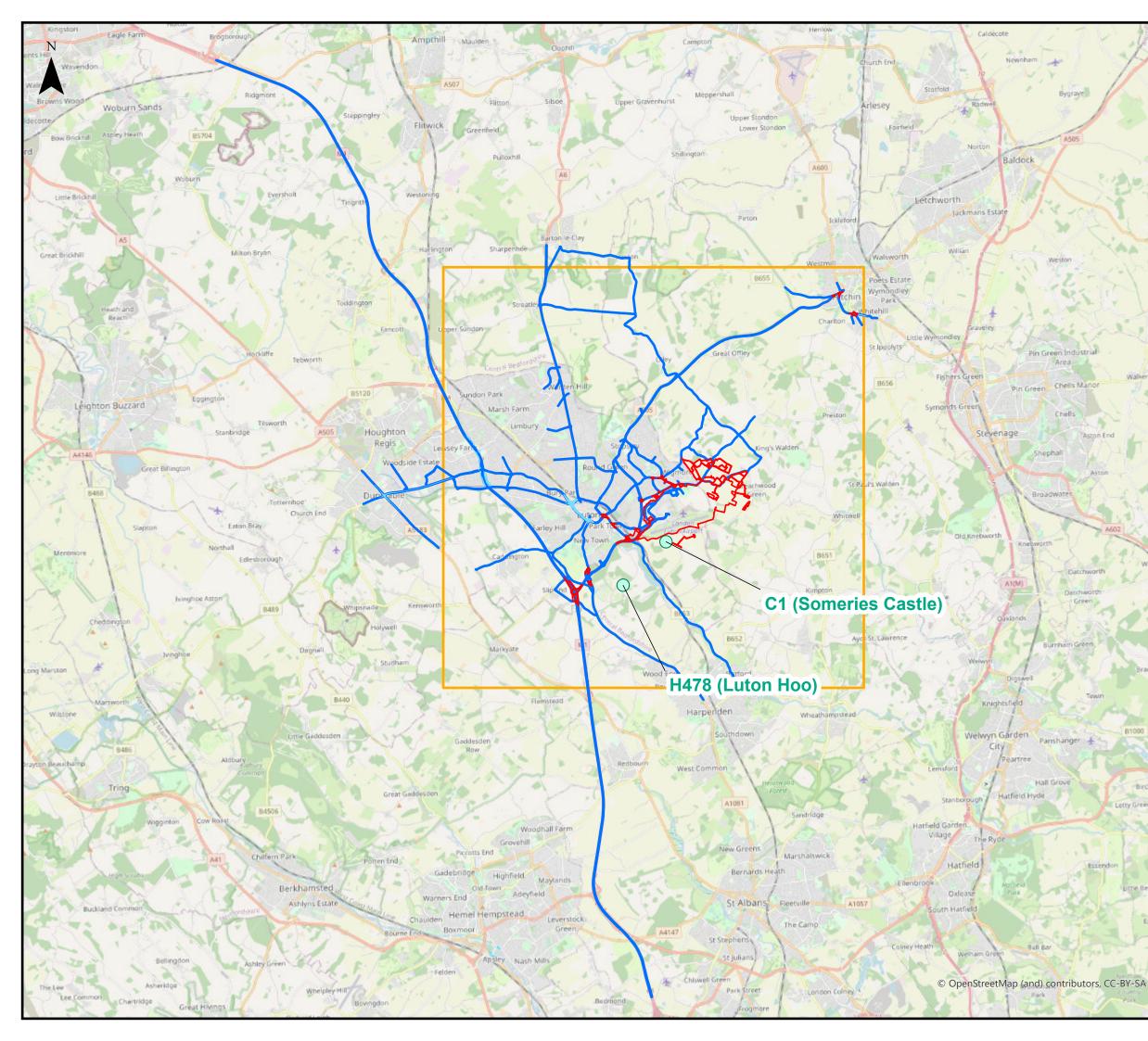


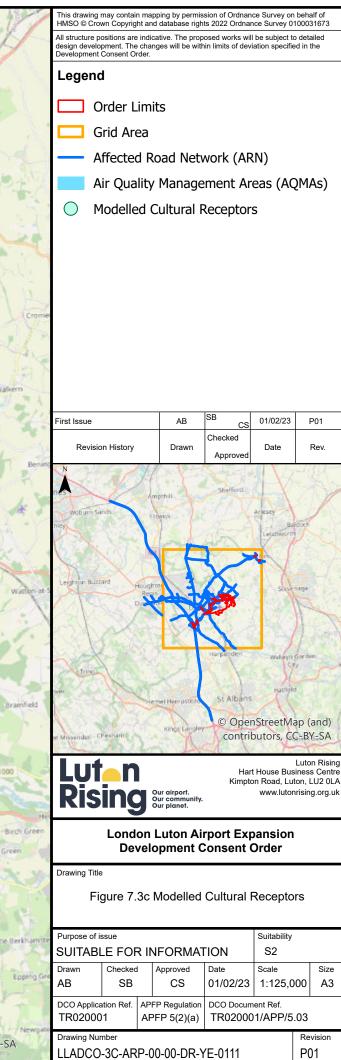
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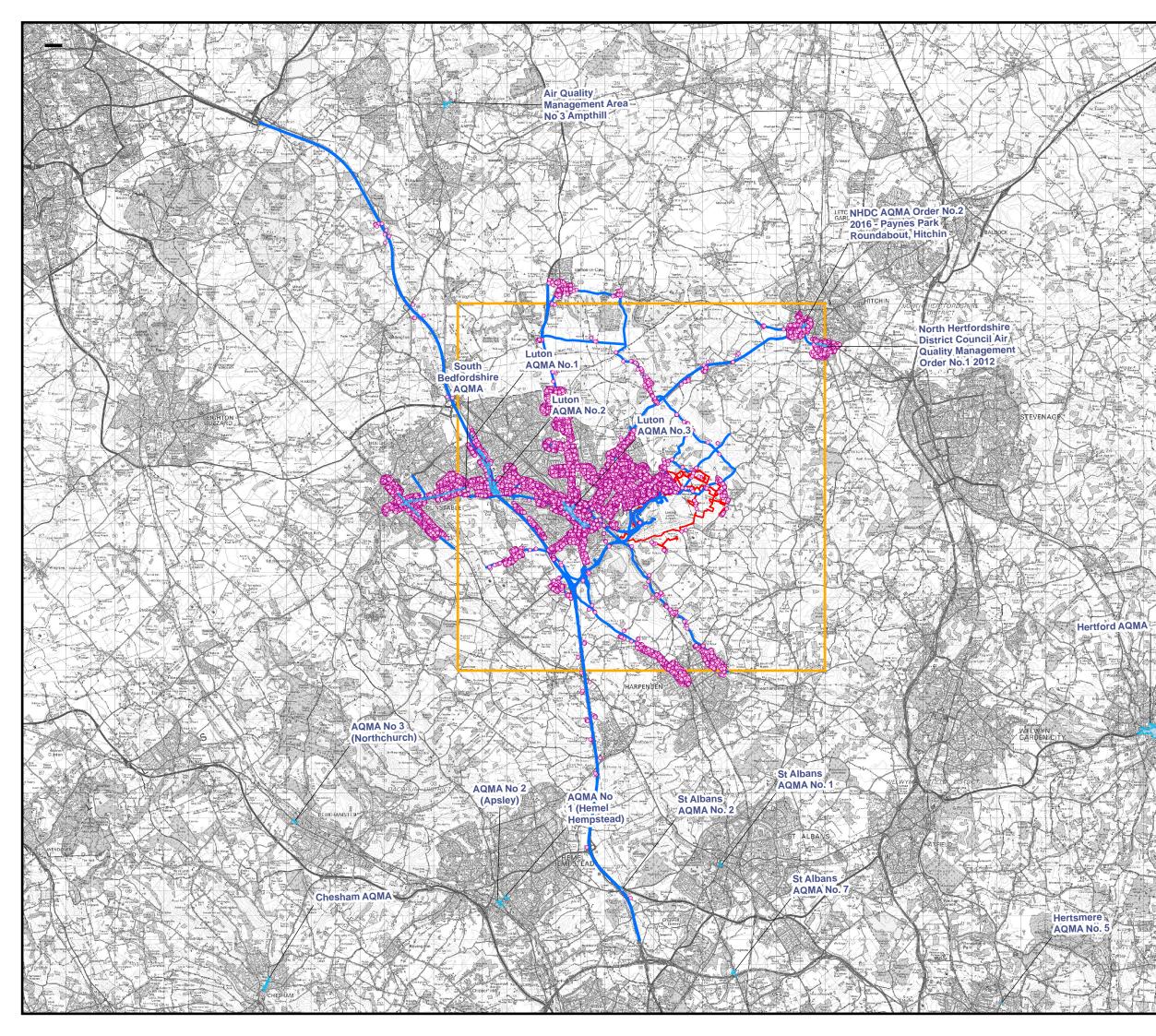
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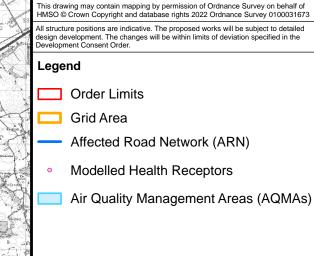




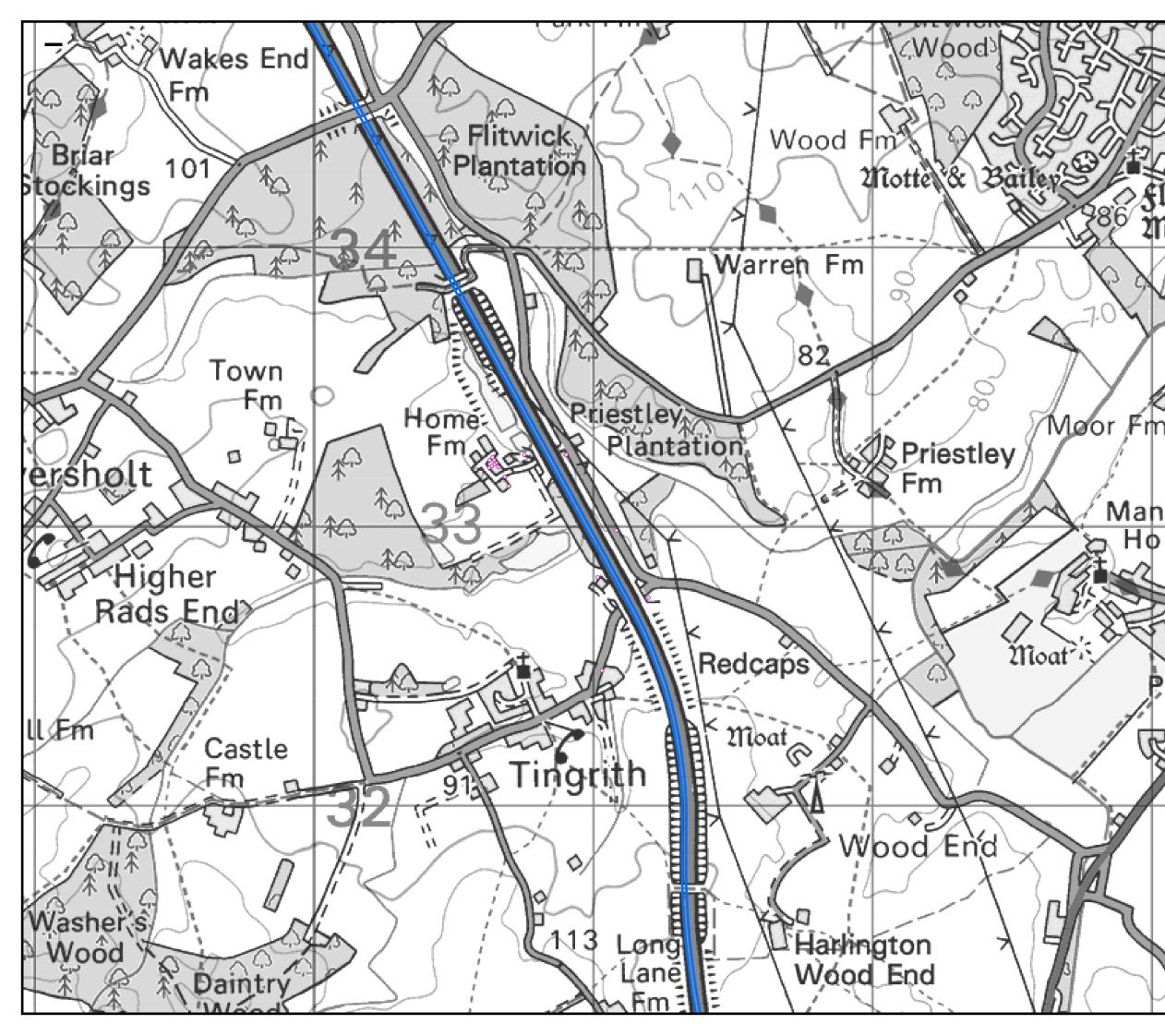
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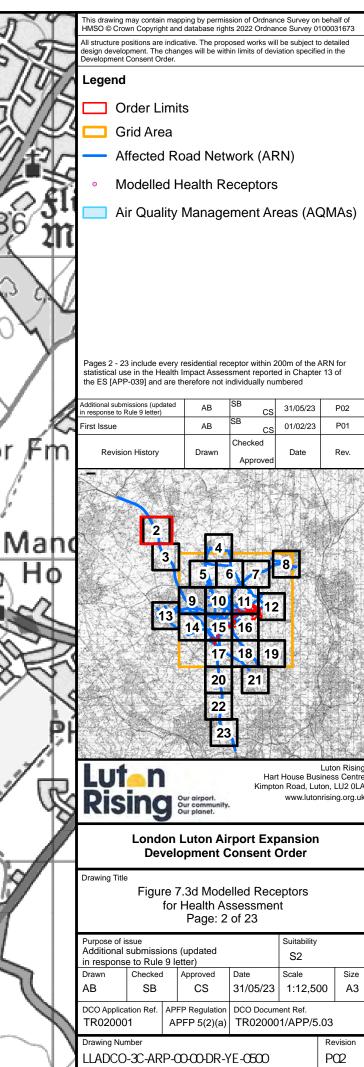
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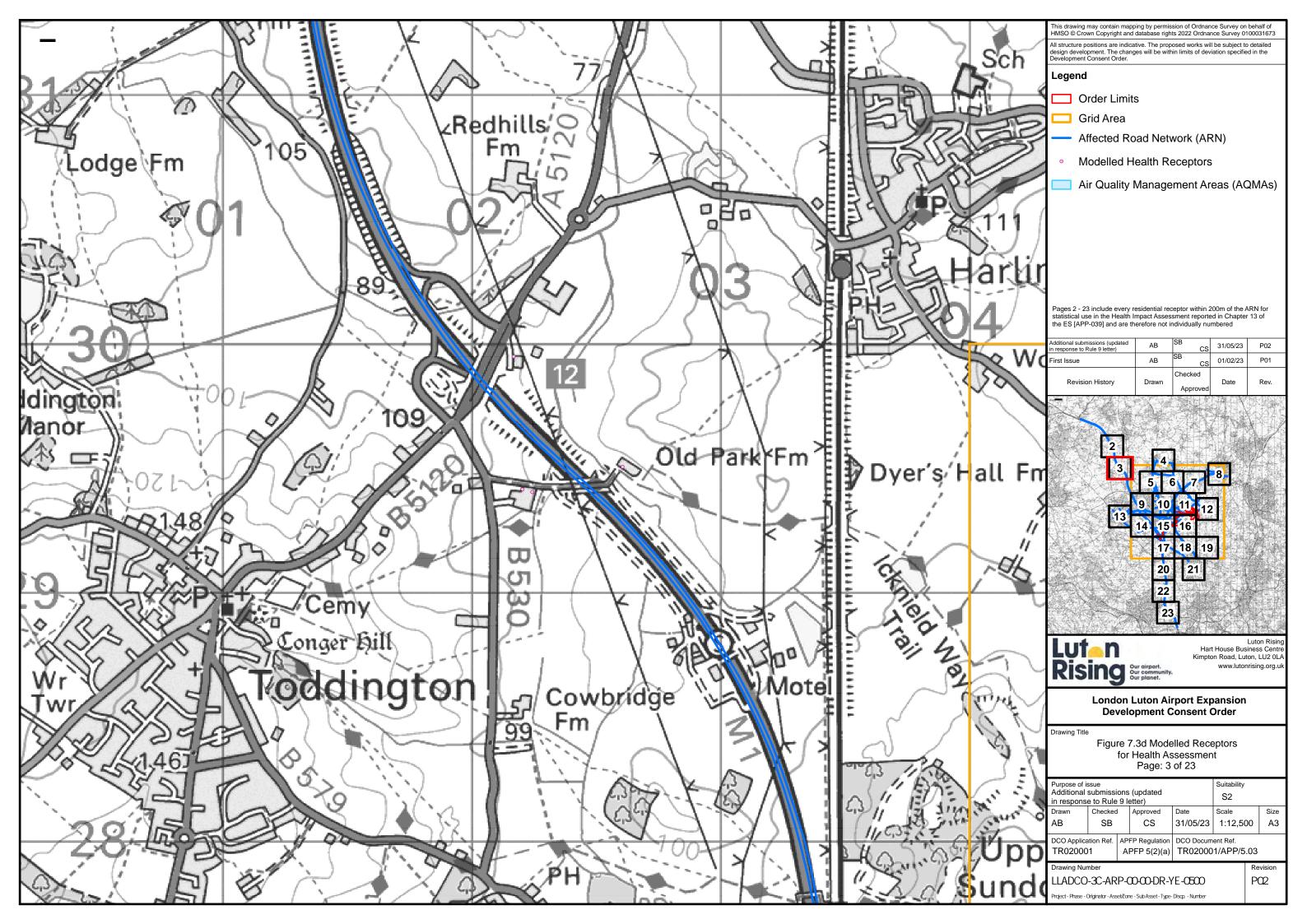
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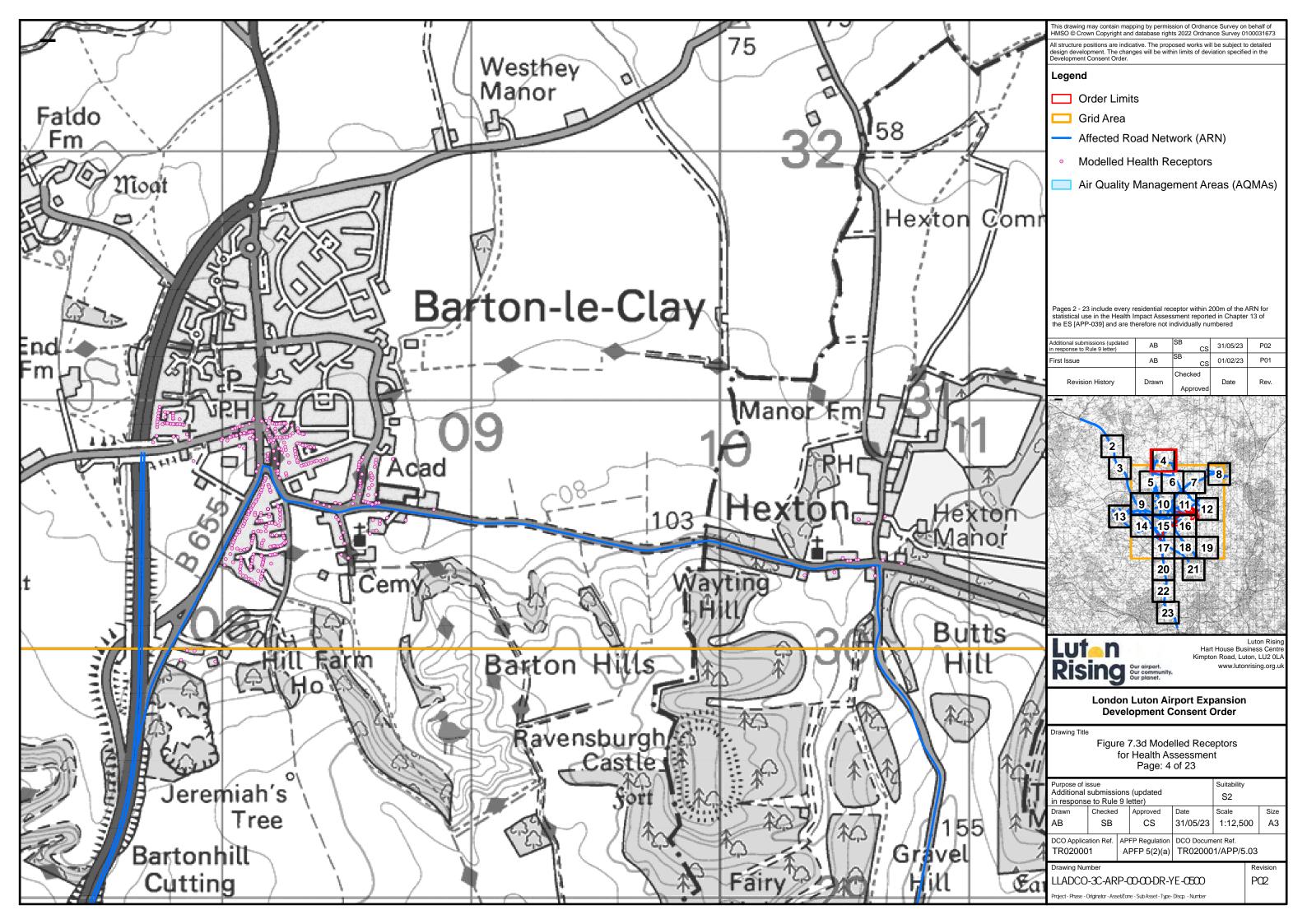


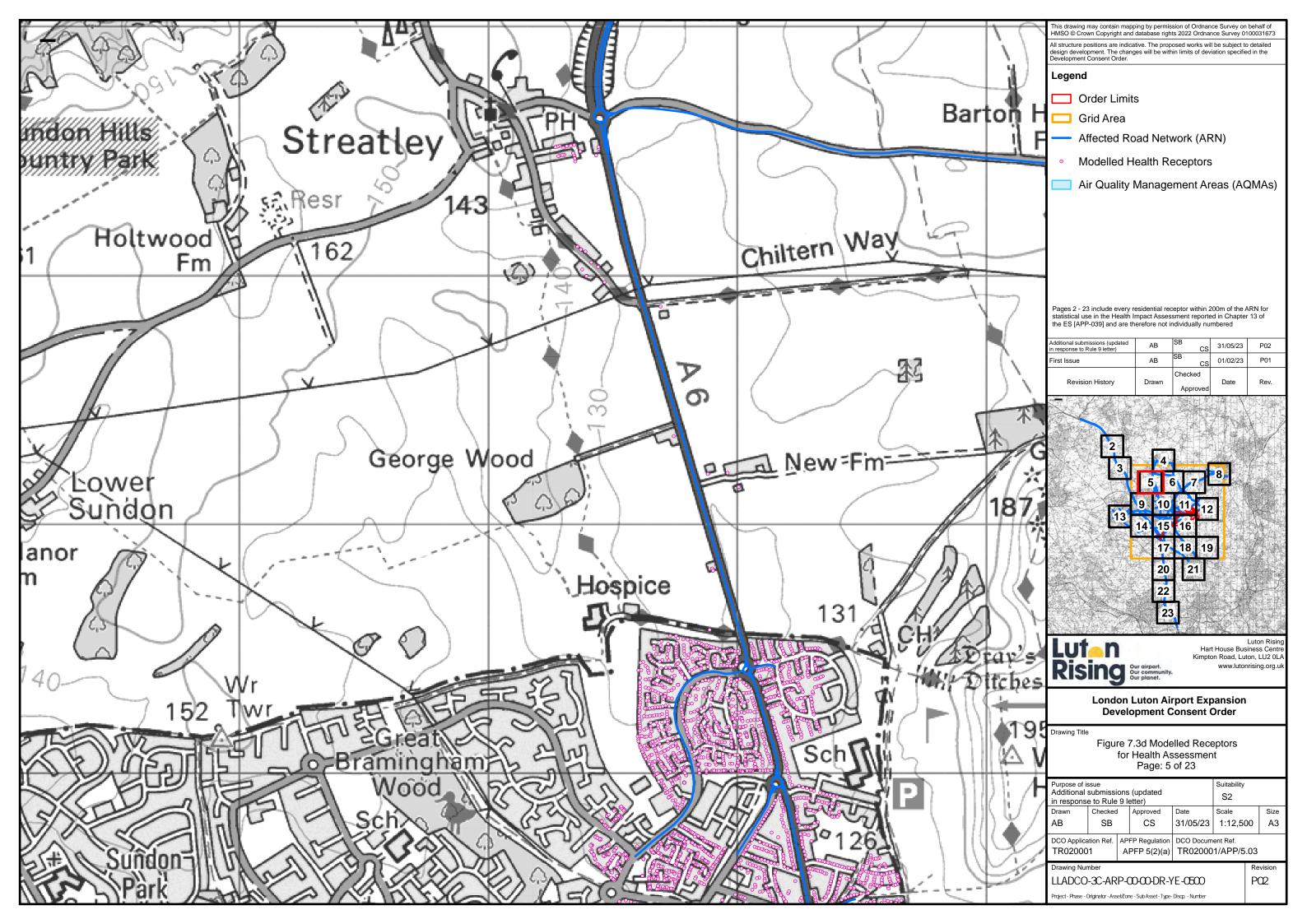


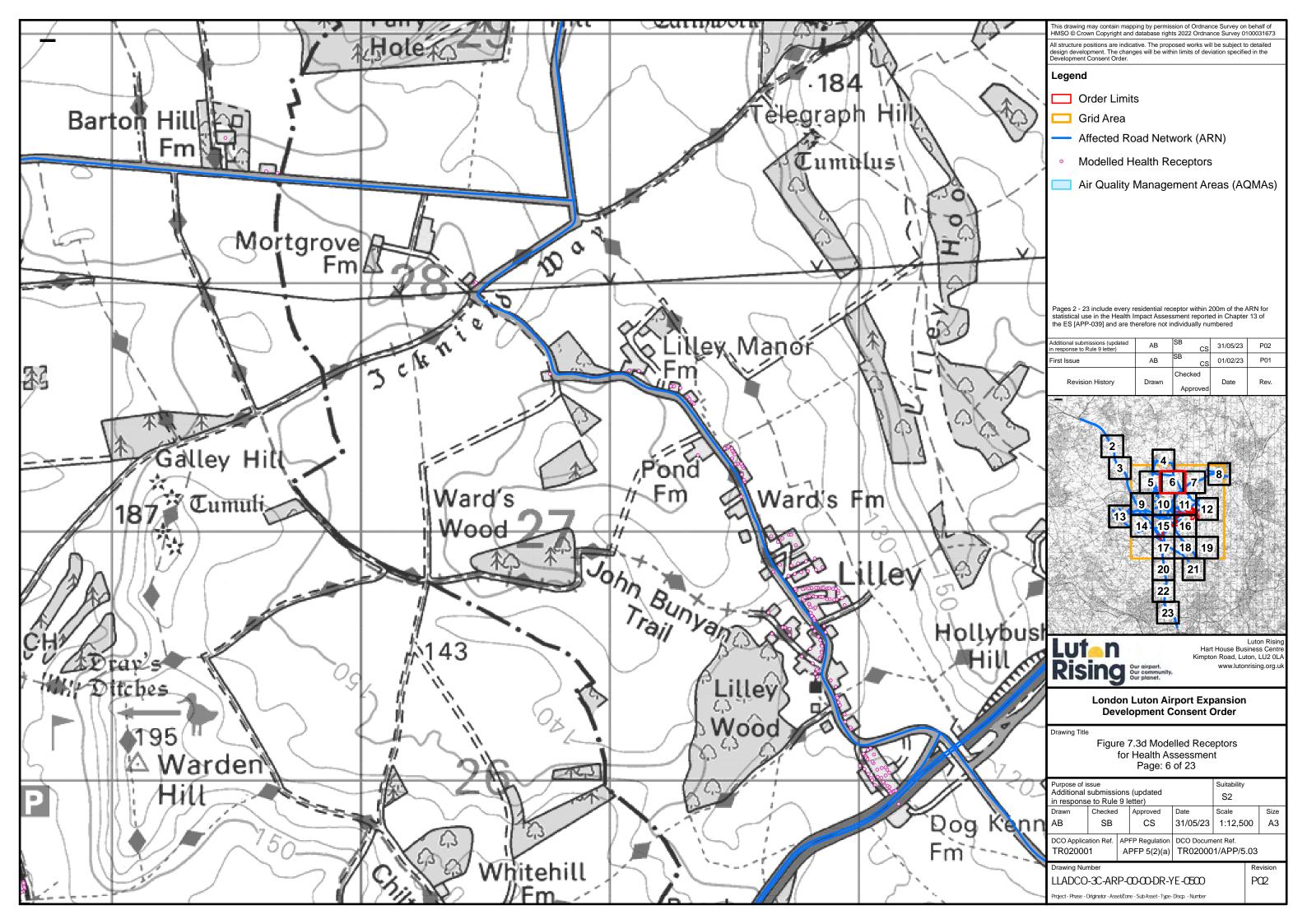
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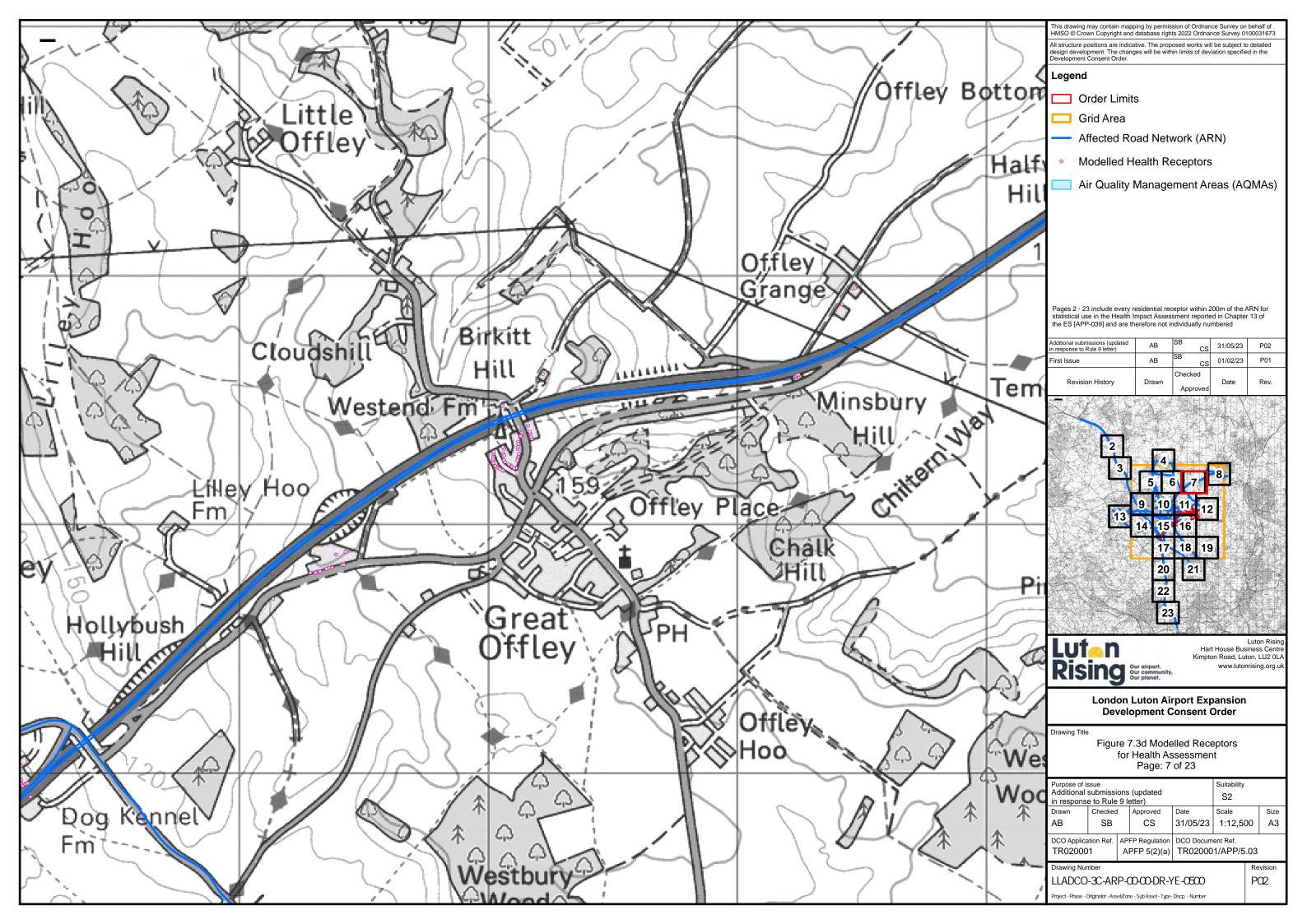
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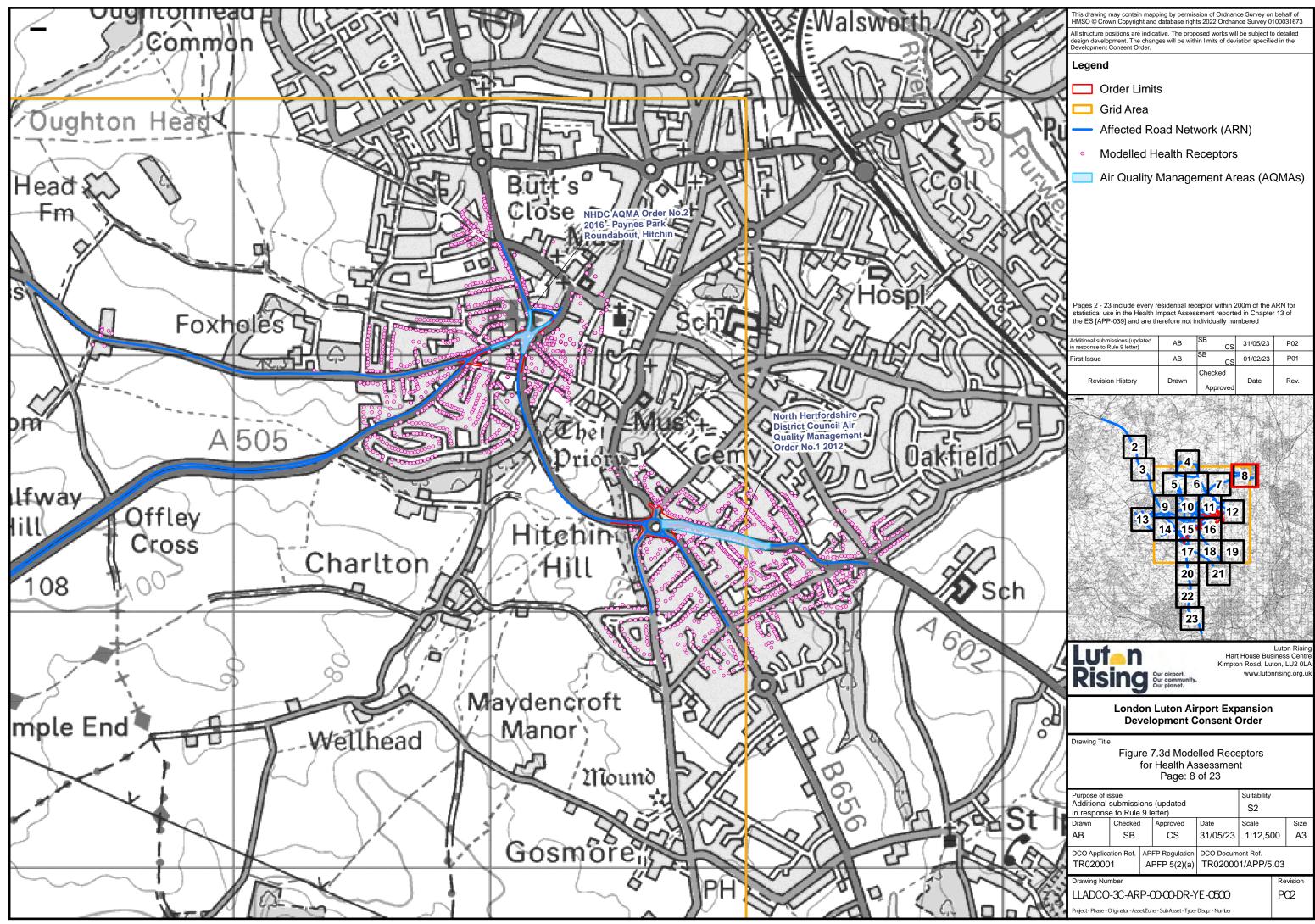


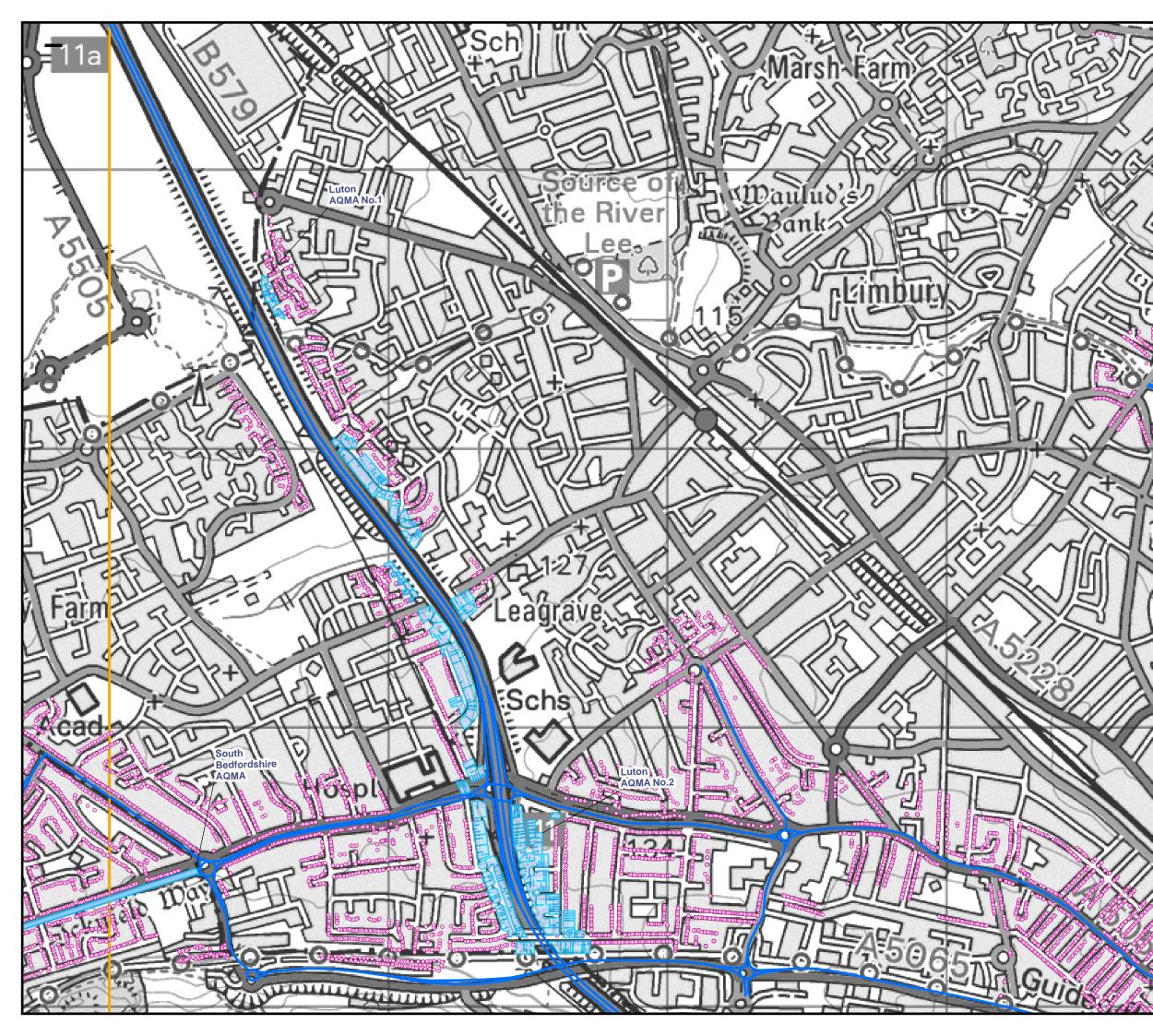


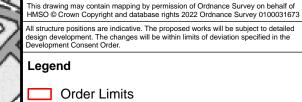








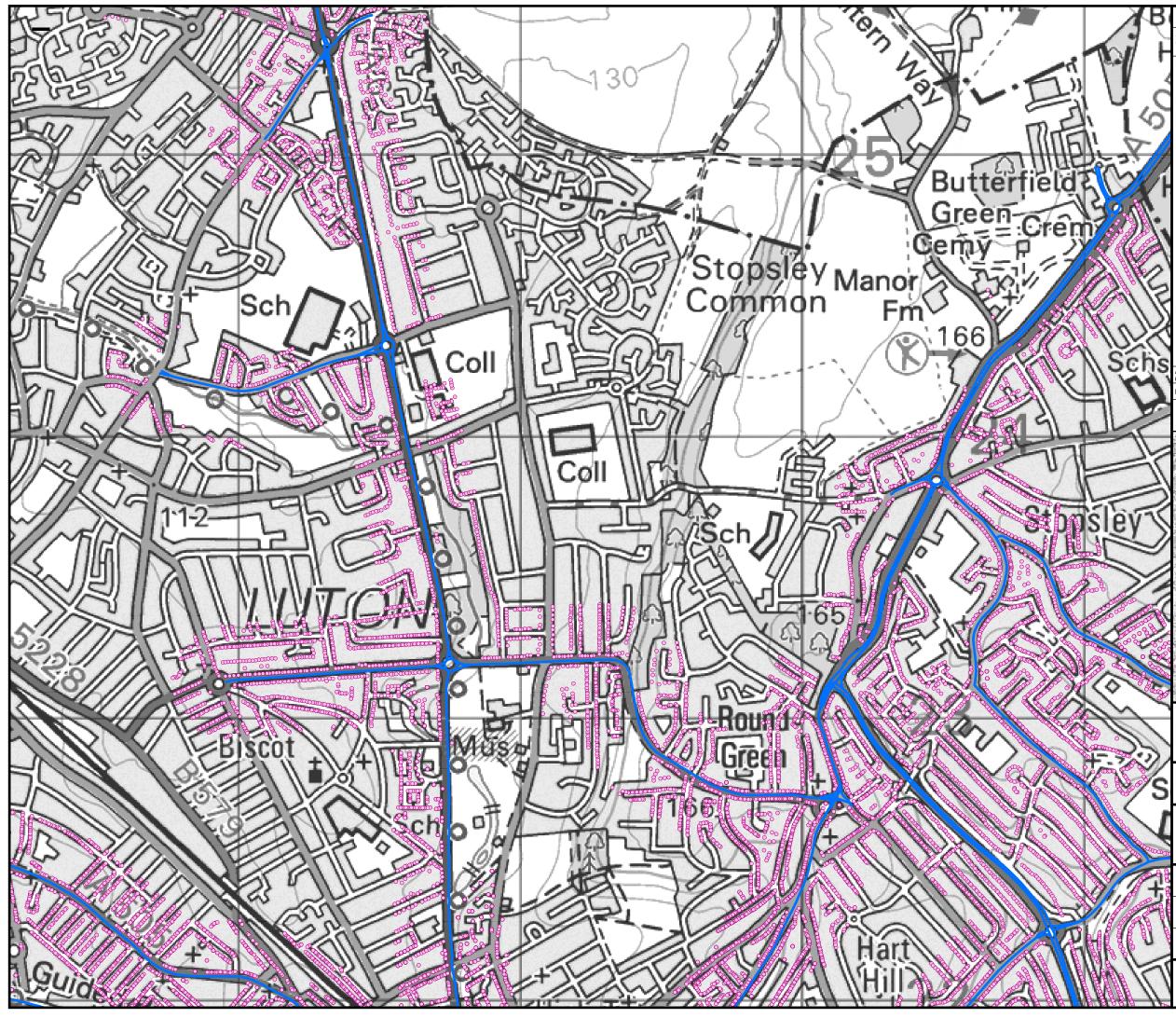






- Grid Area
- Affected Road Network (ARN)
- Modelled Health Receptors
- Air Quality Management Areas (AQMAs)

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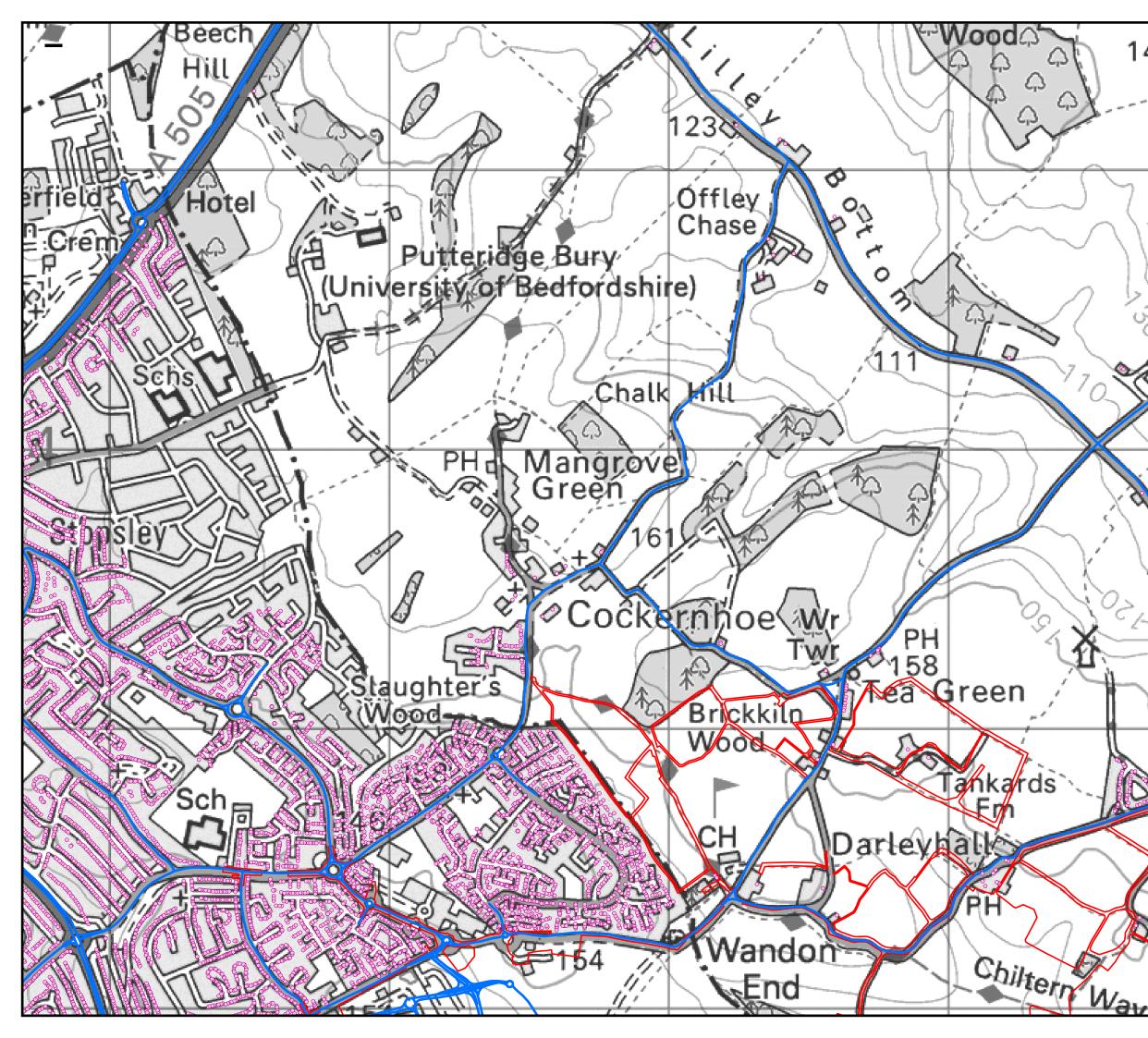
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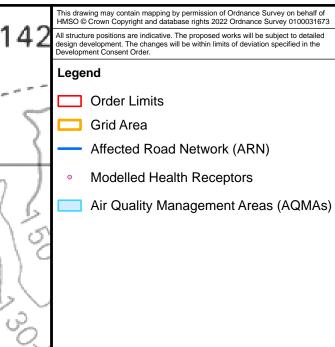
- Order Limits
- Grid Area
  - Affected Road Network (ARN)
- Modelled Health Receptors
- Air Quality Management Areas (AQMAs)

Pages 2 - 23 include every residential receptor within 200m of the ARN for statistical use in the Health Impact Assessment reported in Chapter 13 of the ES [APP-039] and are therefore not individually numbered

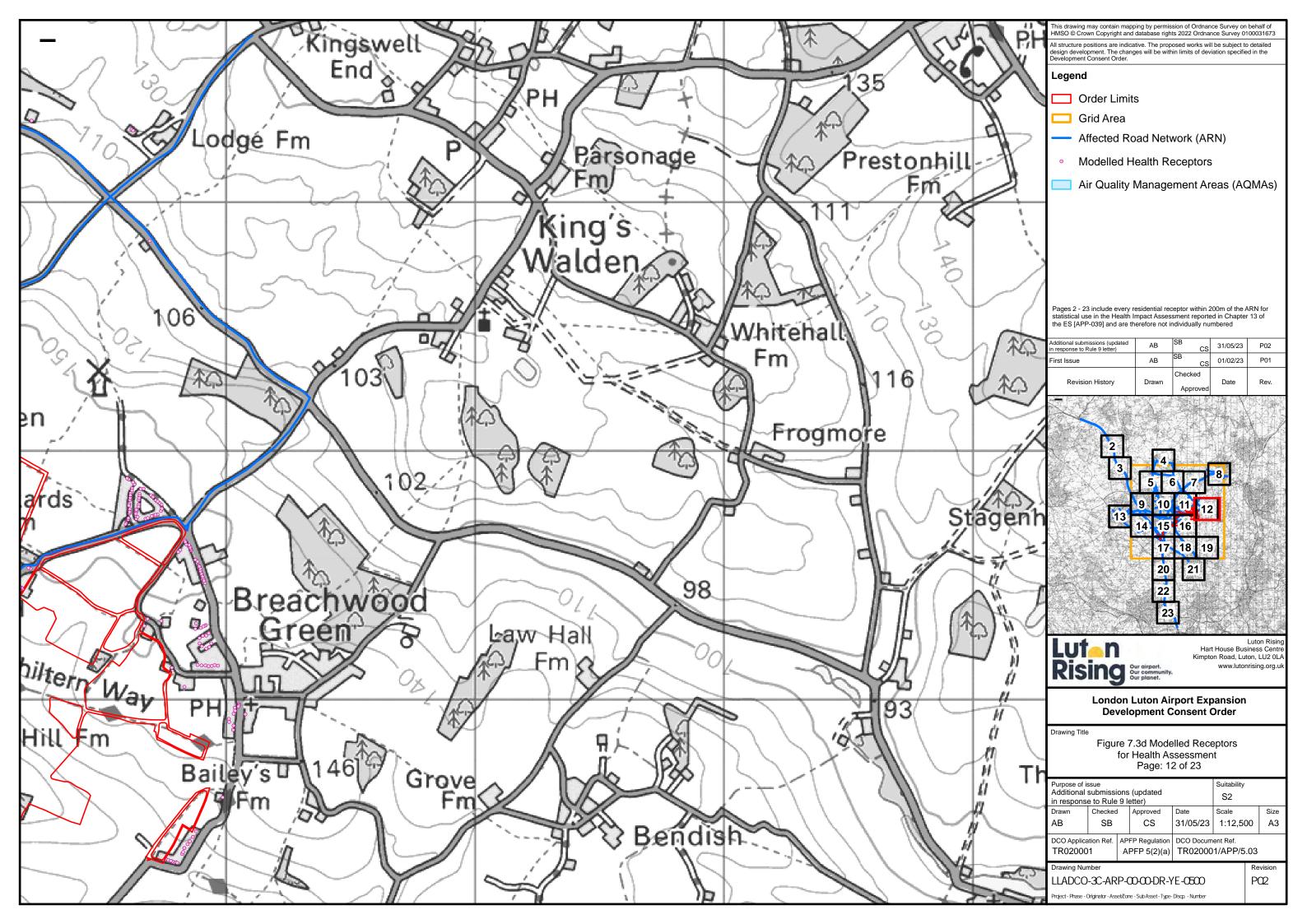
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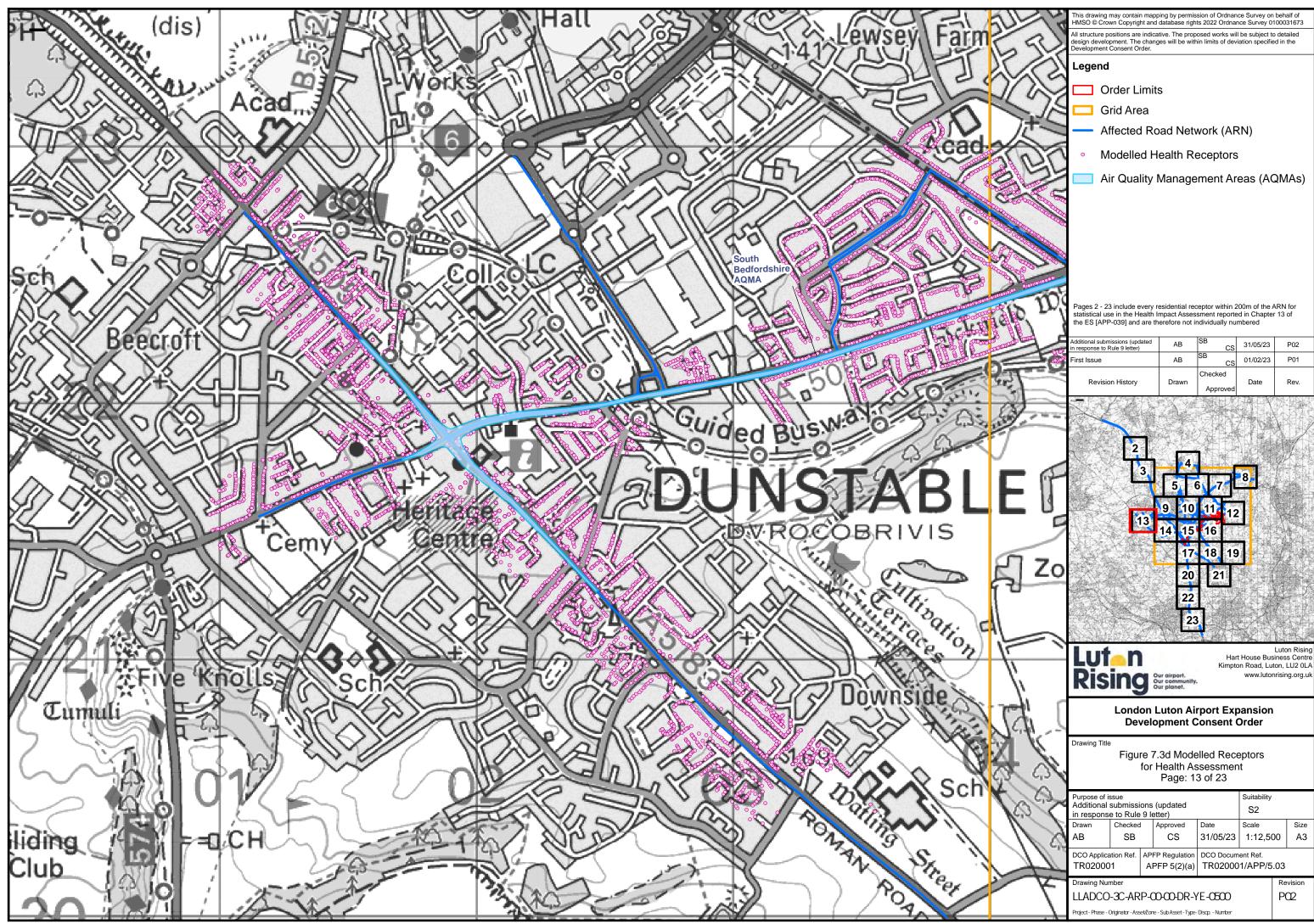
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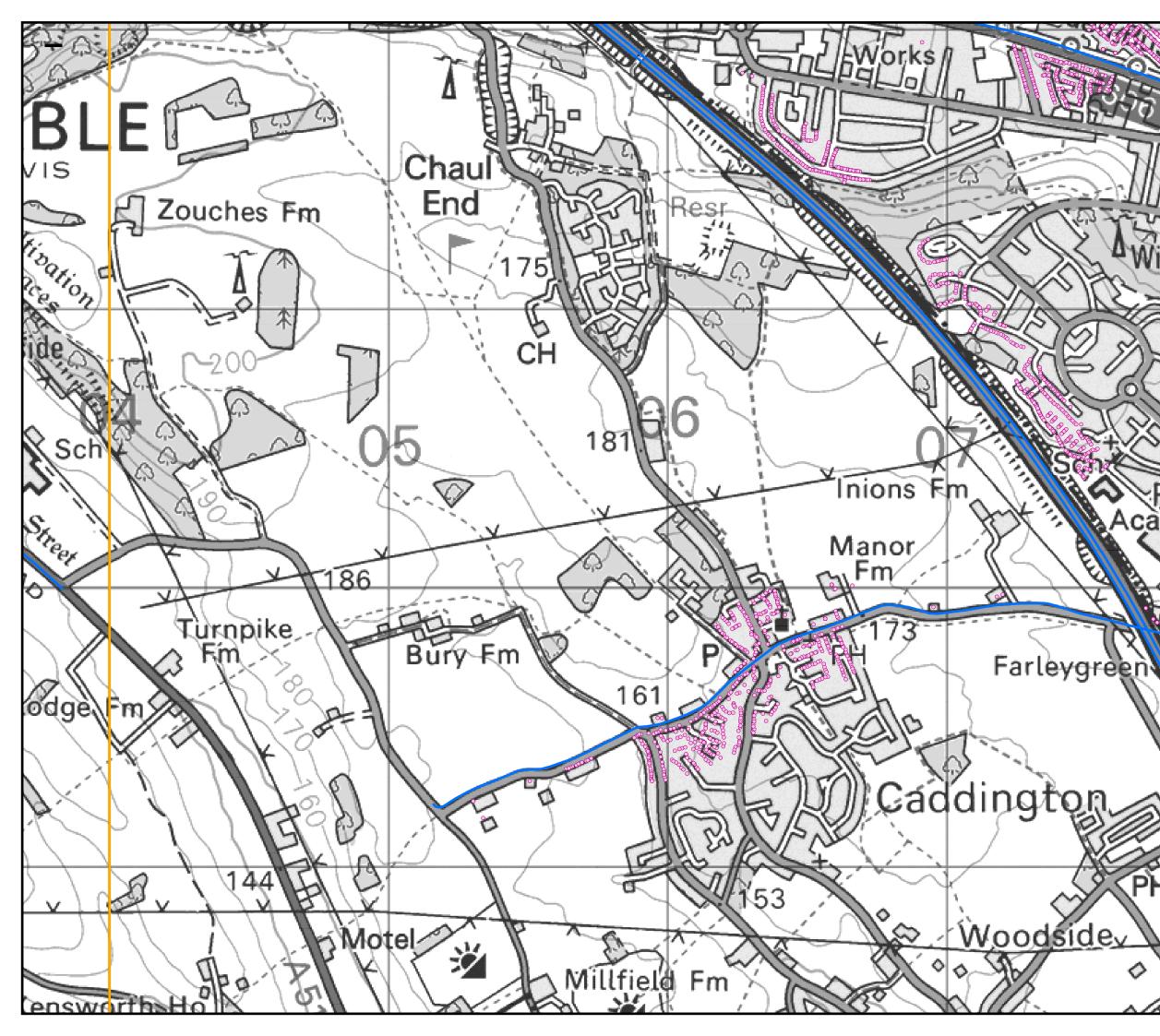


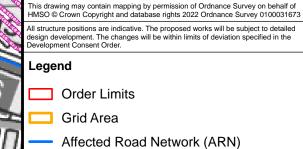


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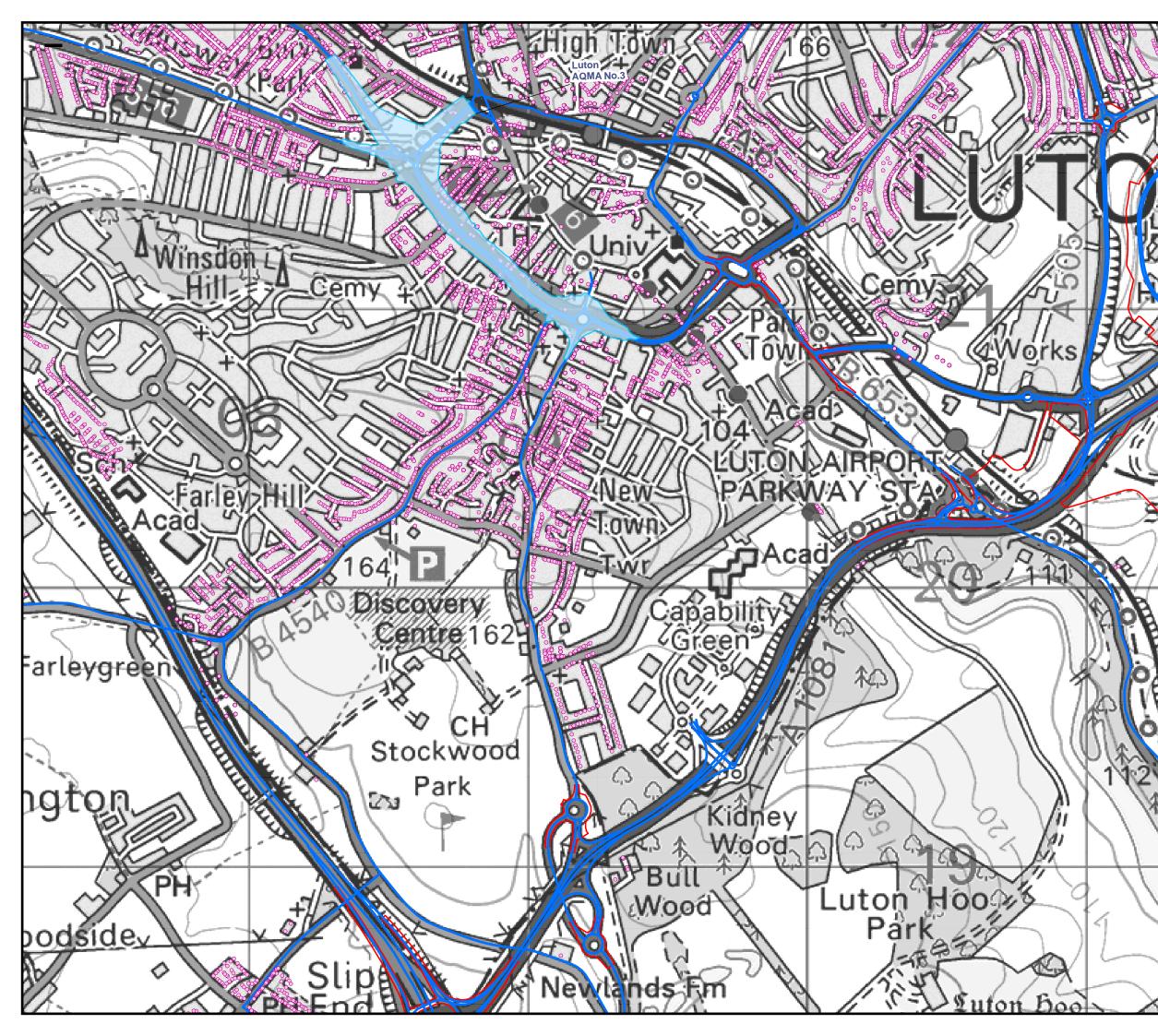


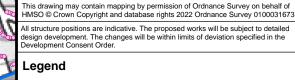


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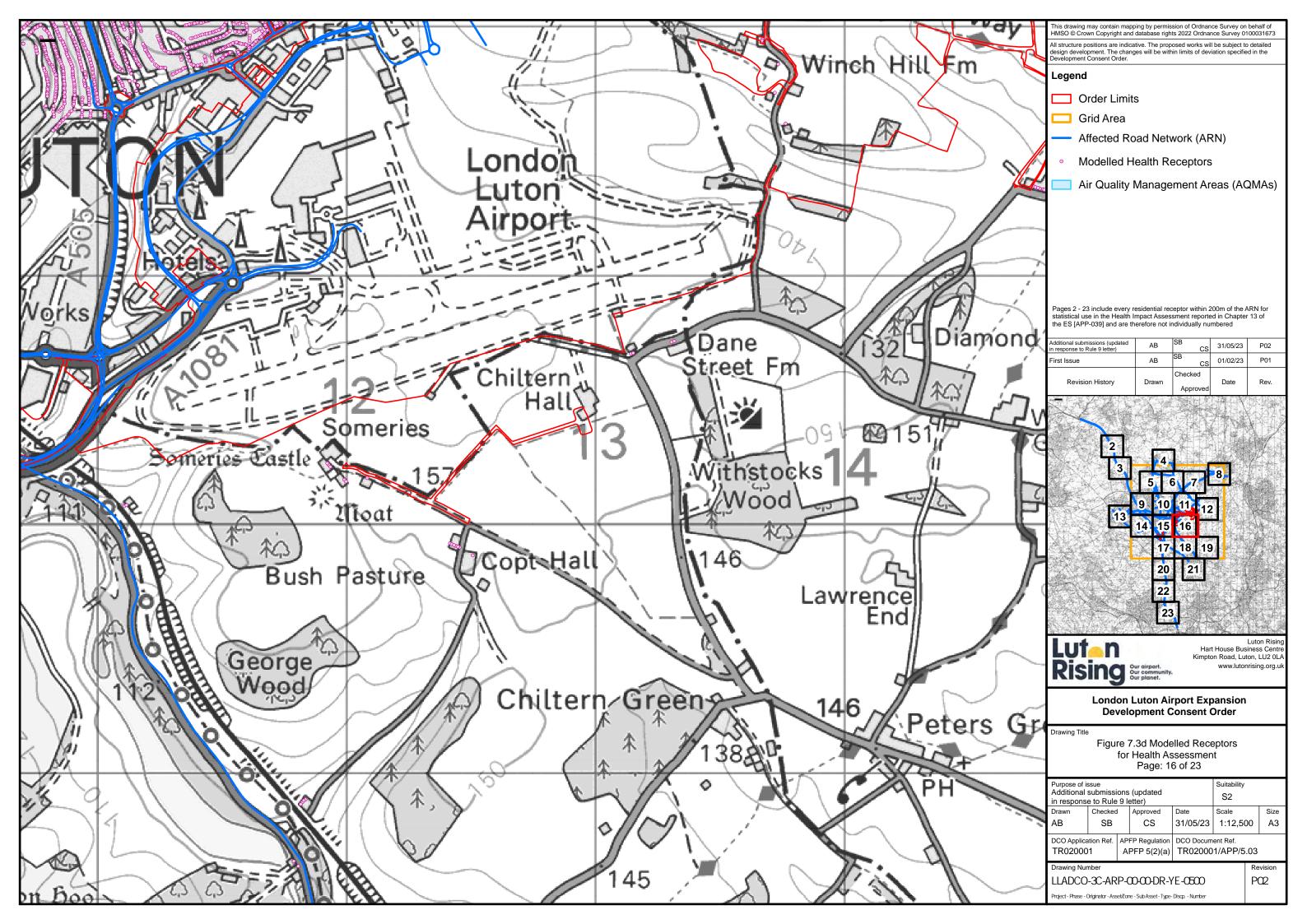
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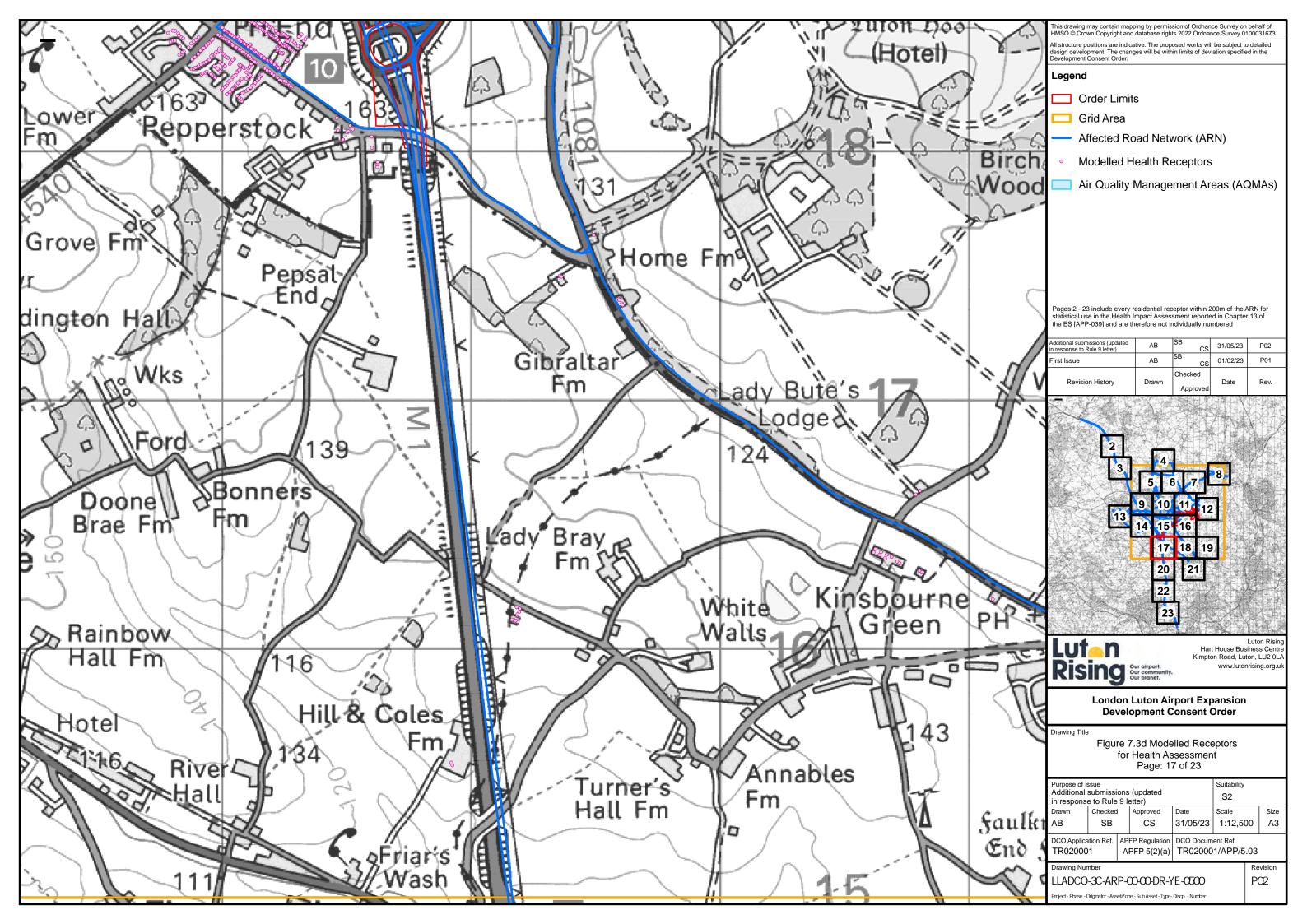


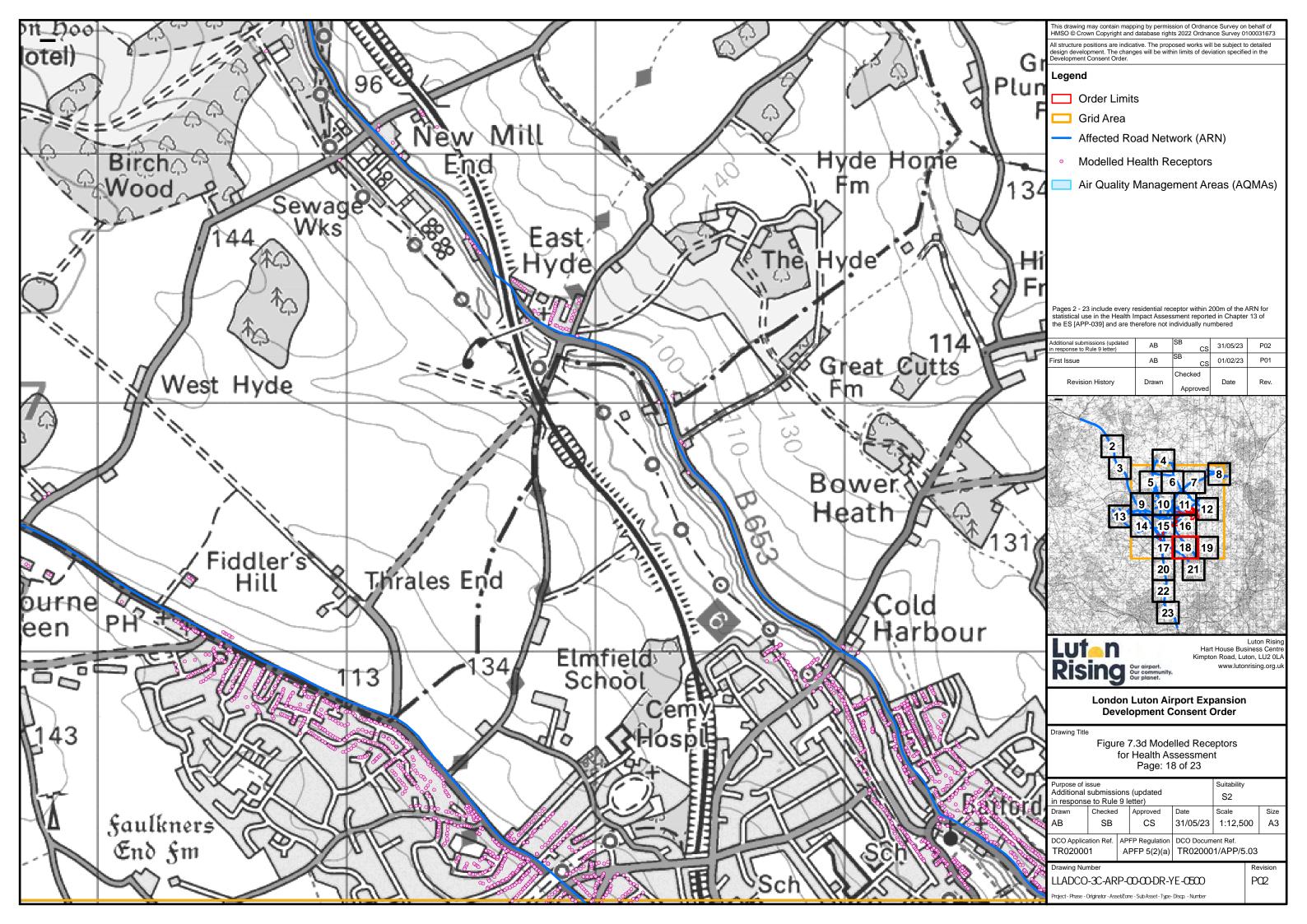


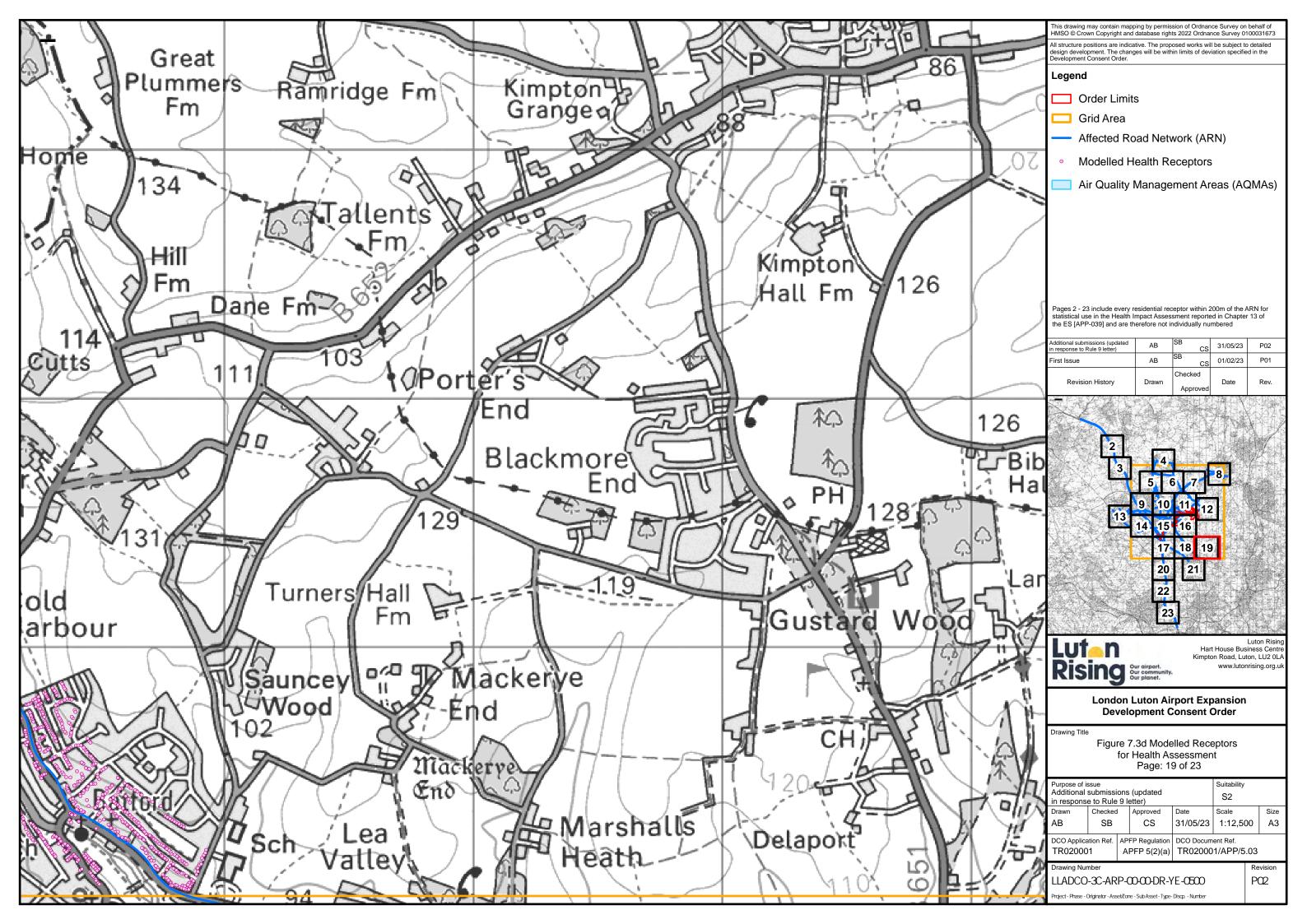
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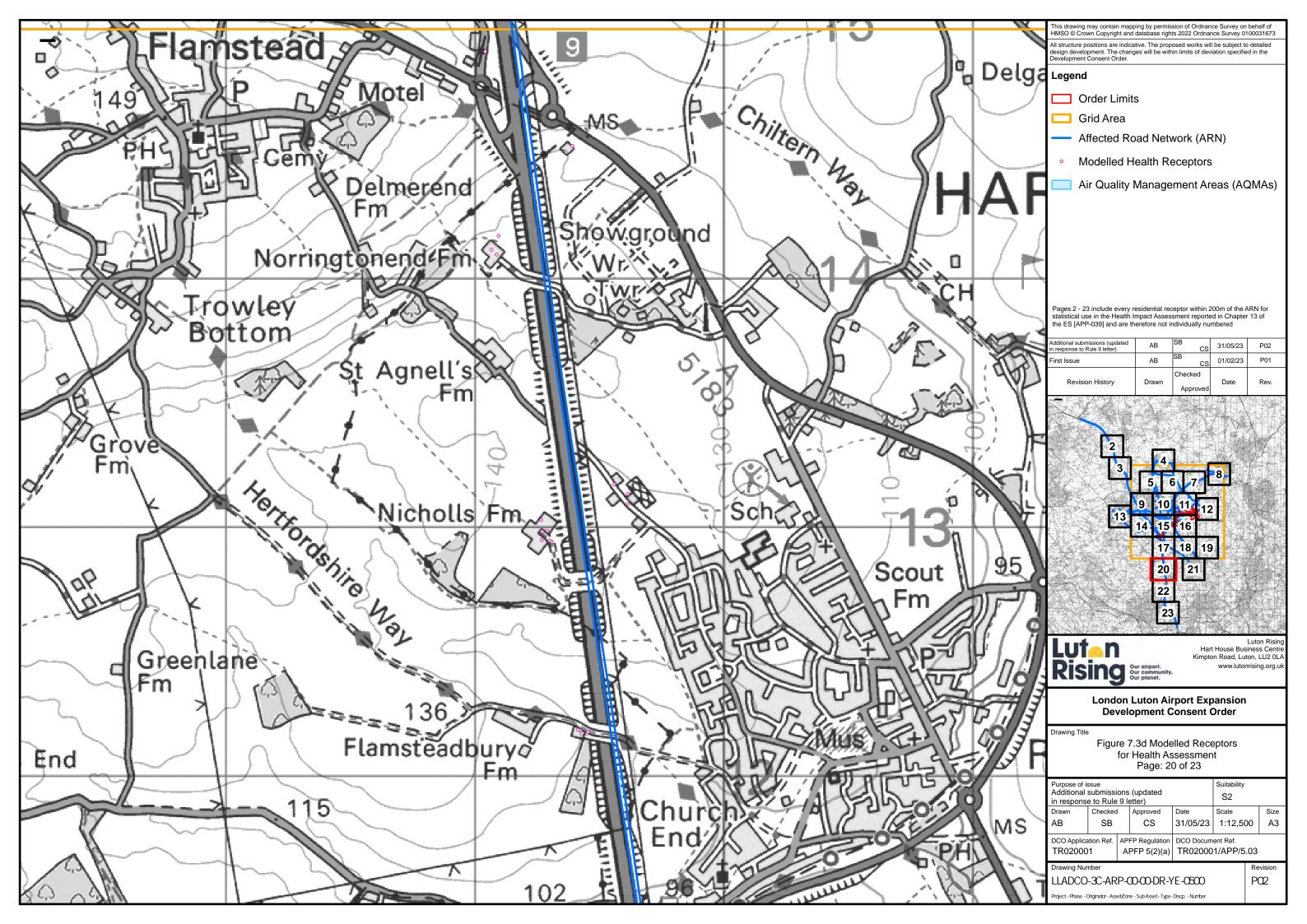
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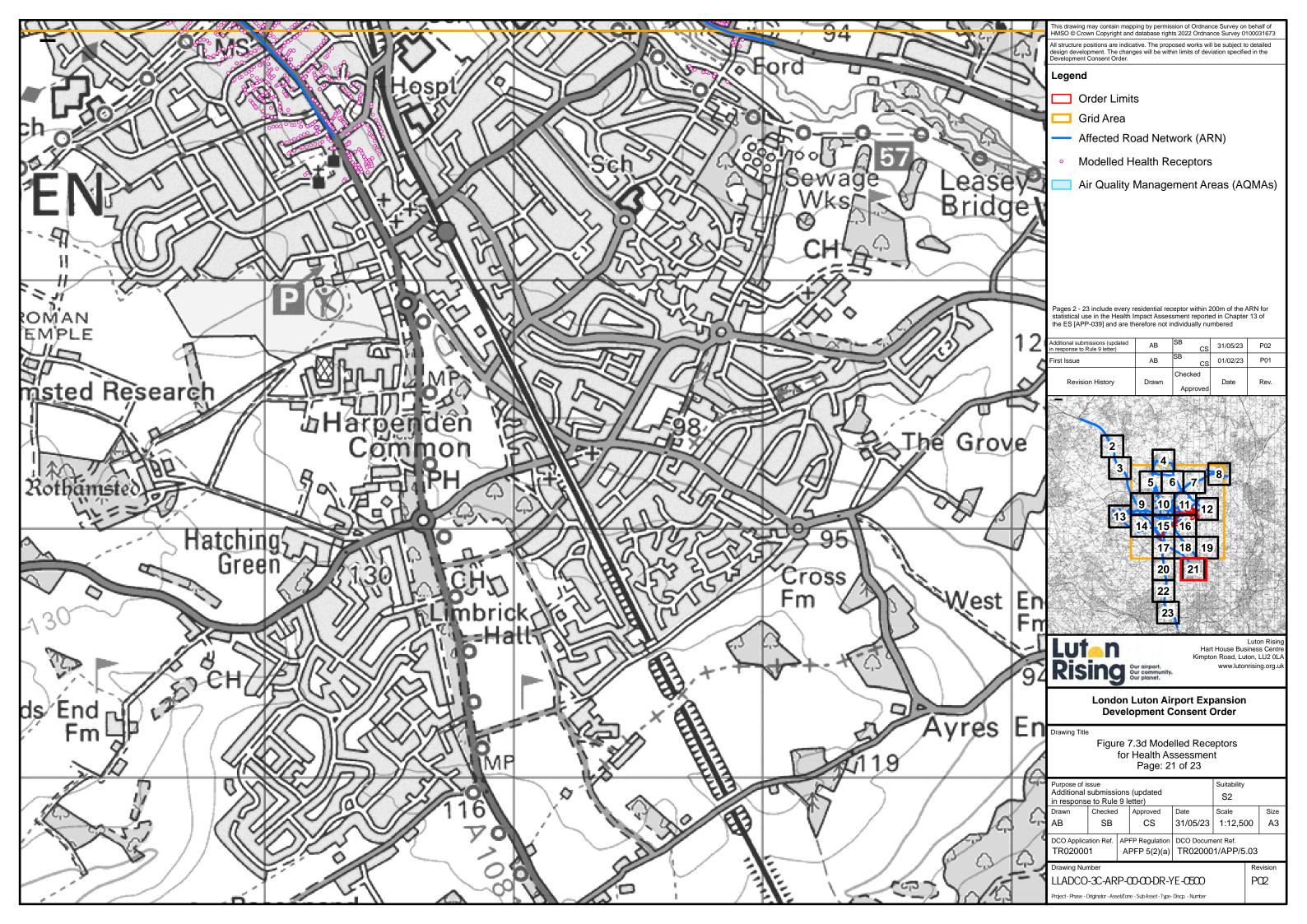


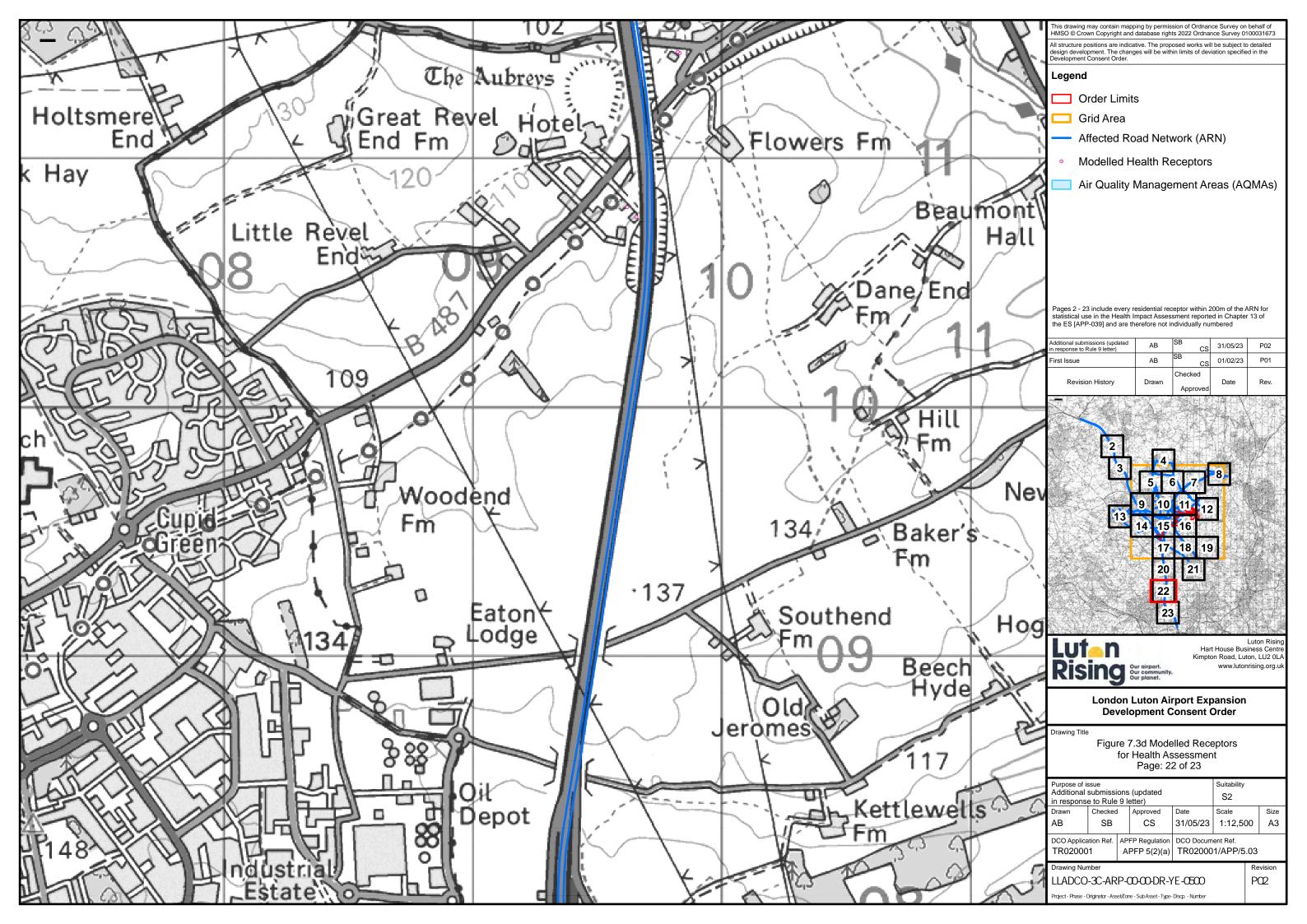


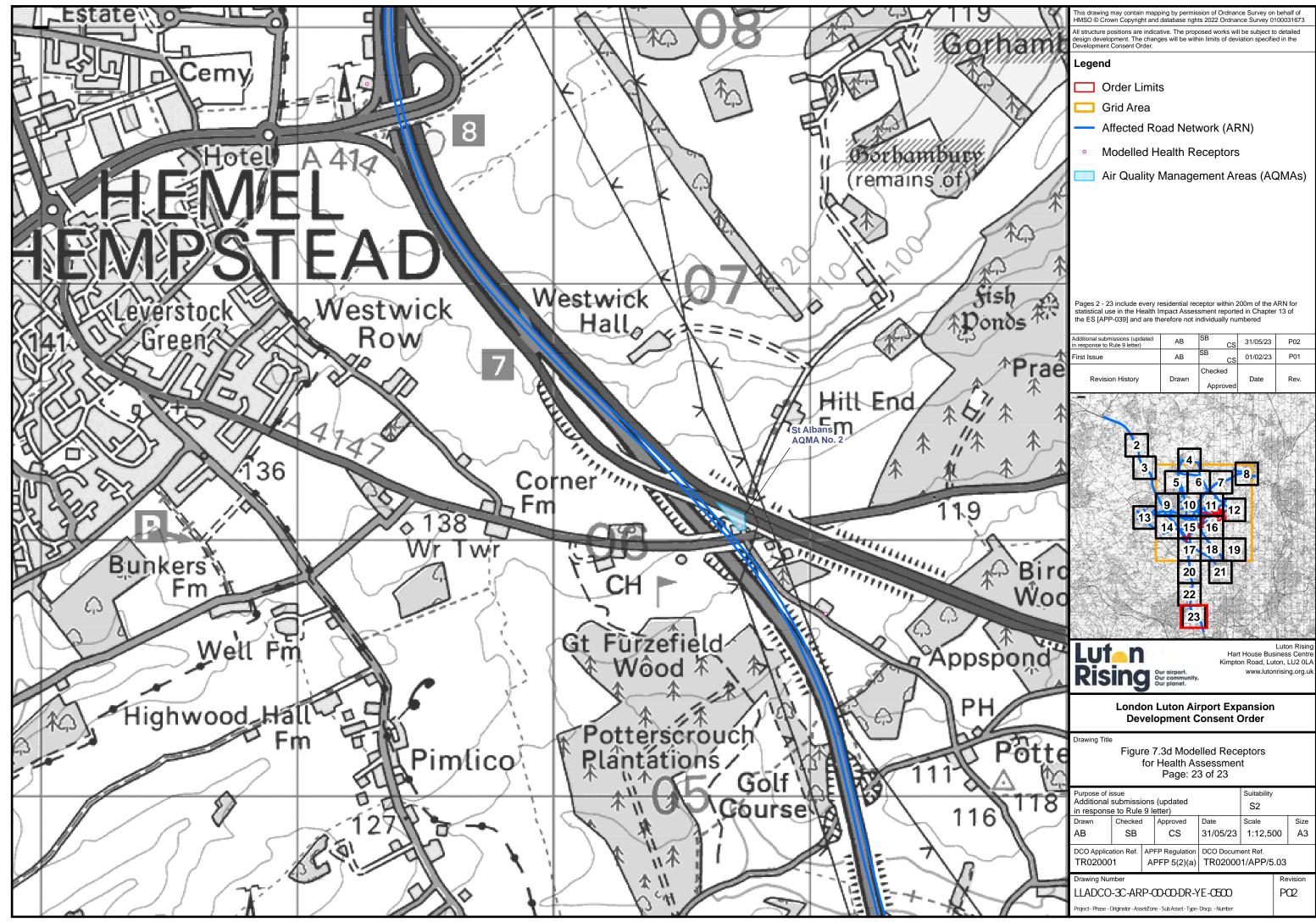


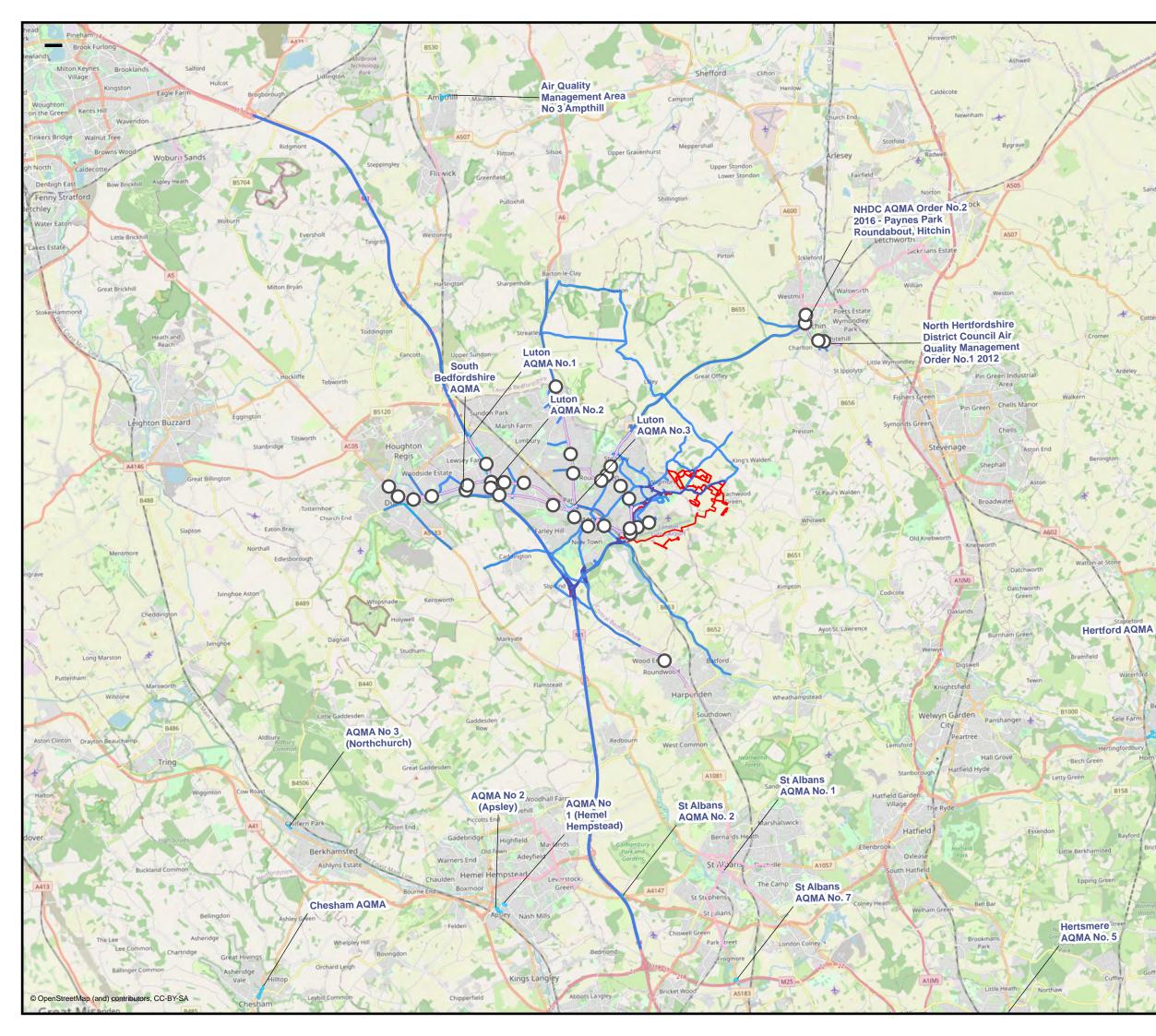






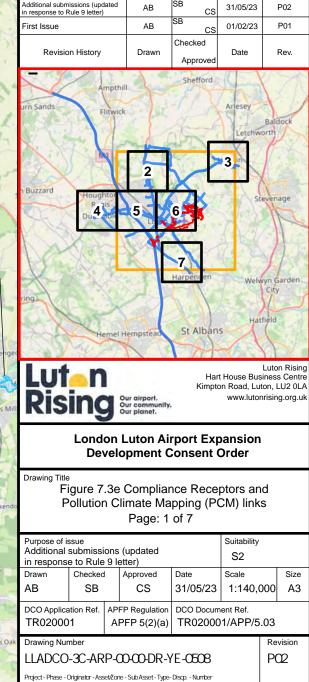


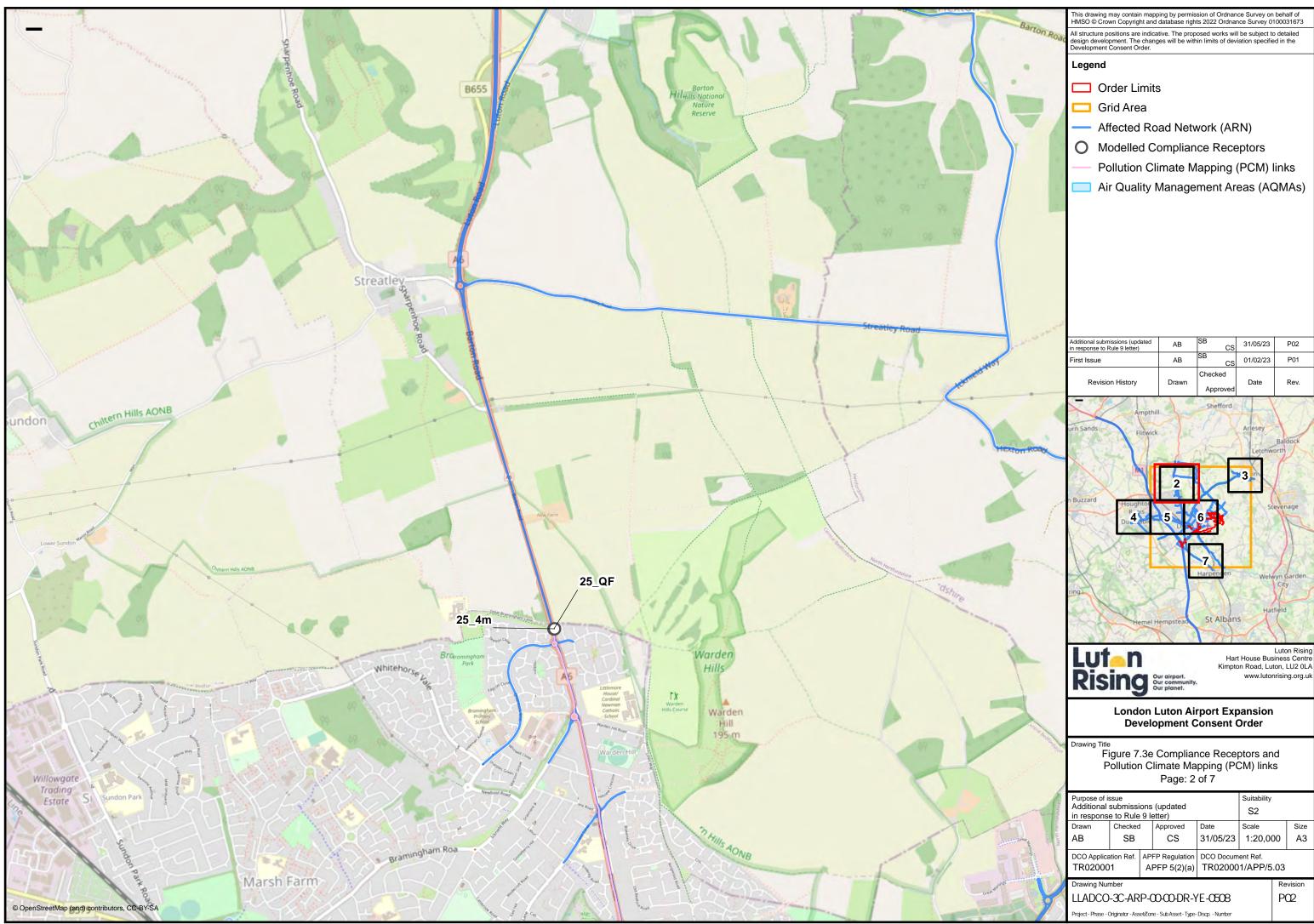




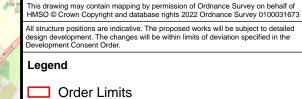
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- Order Limits
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- Air Quality Management Areas (AQMAs)

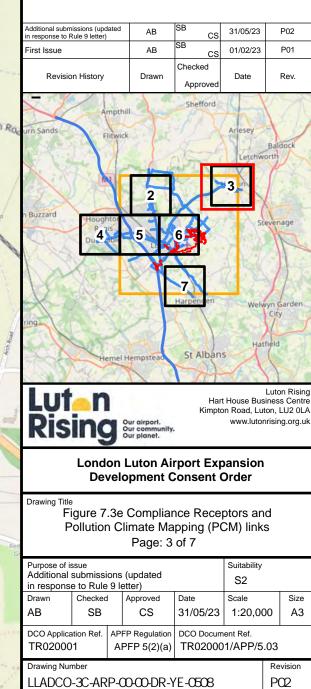




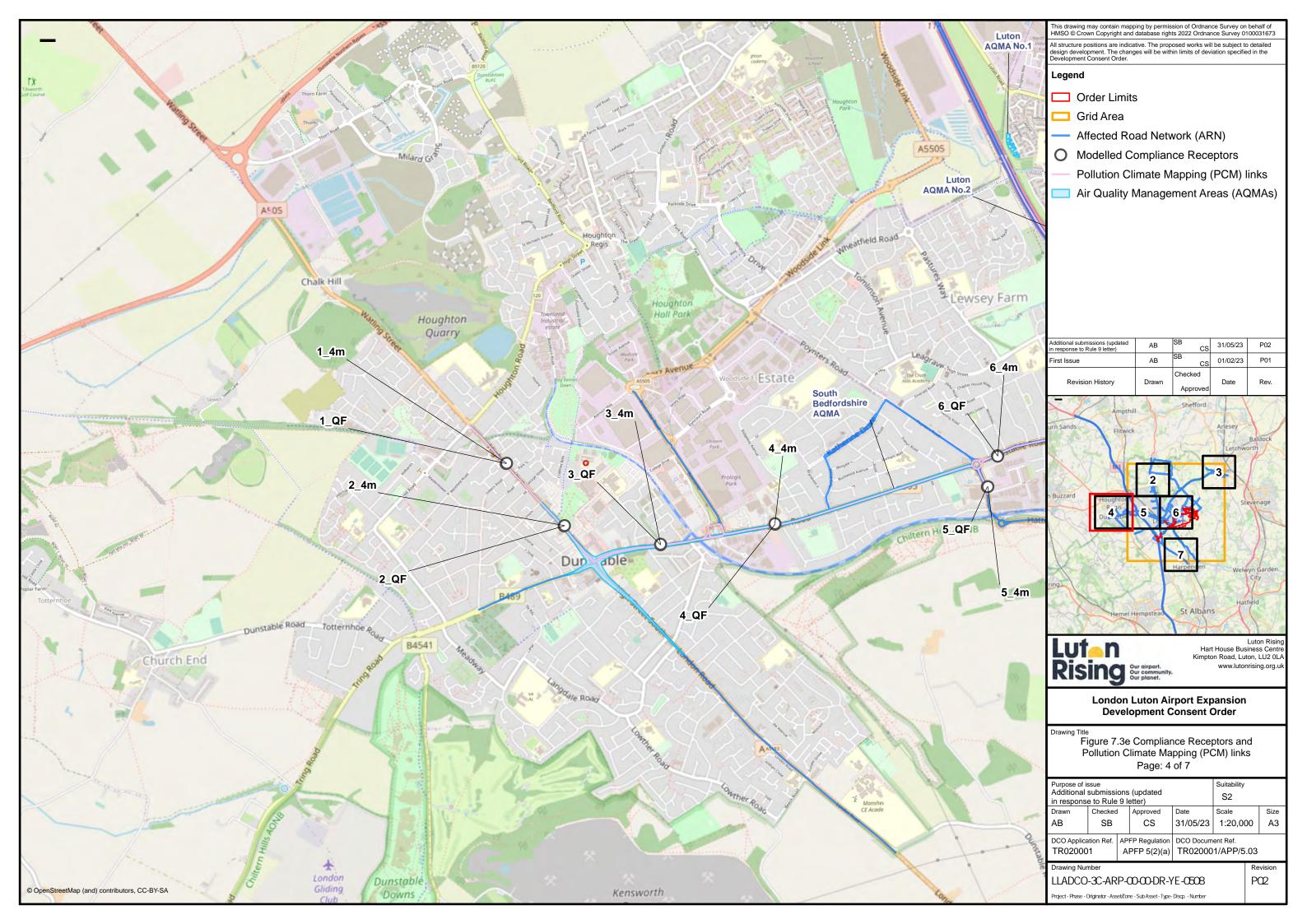




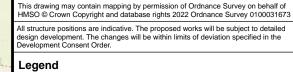
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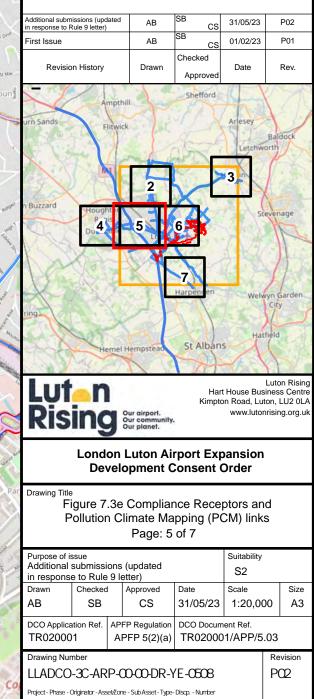
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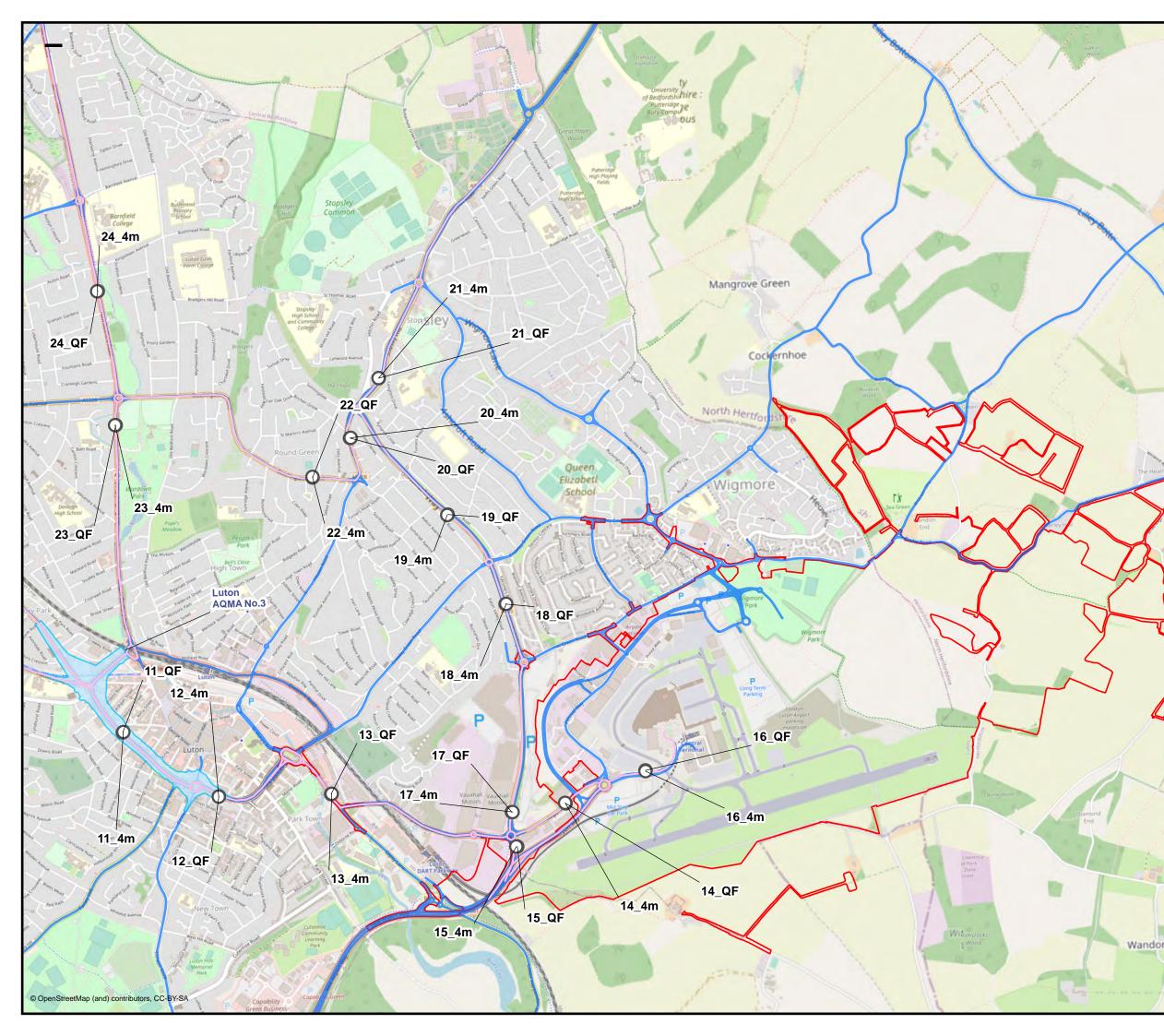






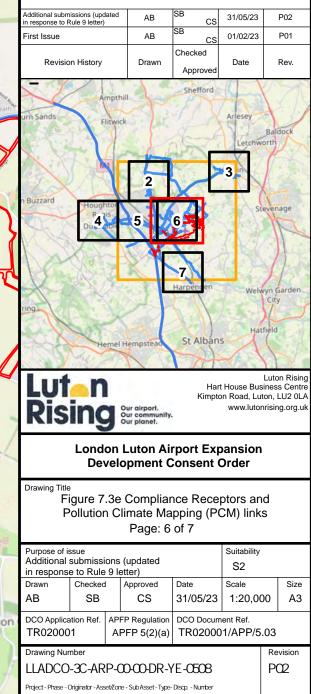
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- Air Quality Management Areas (AQMAs)





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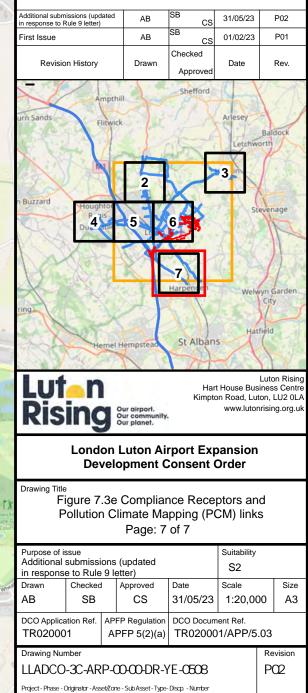
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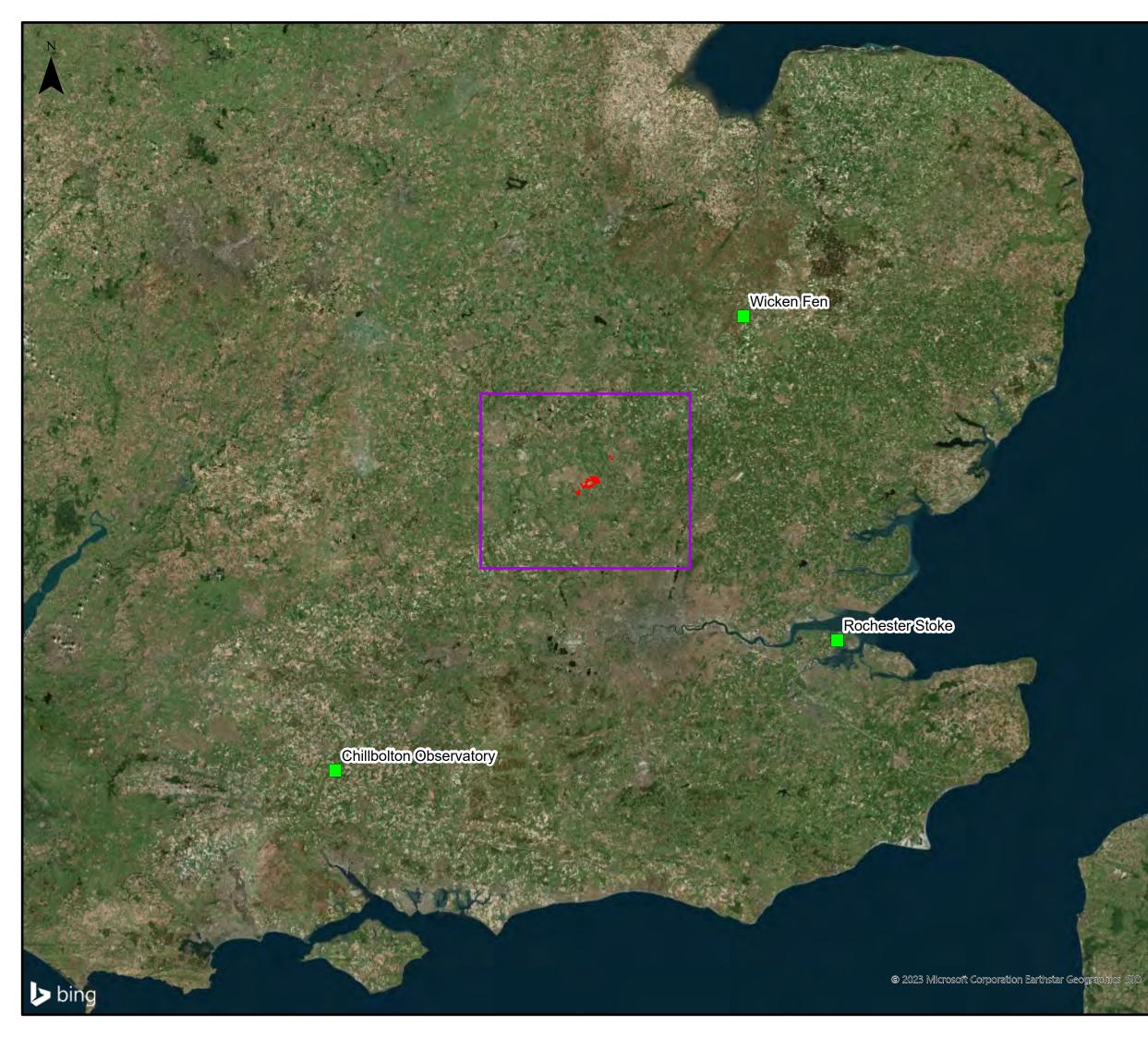




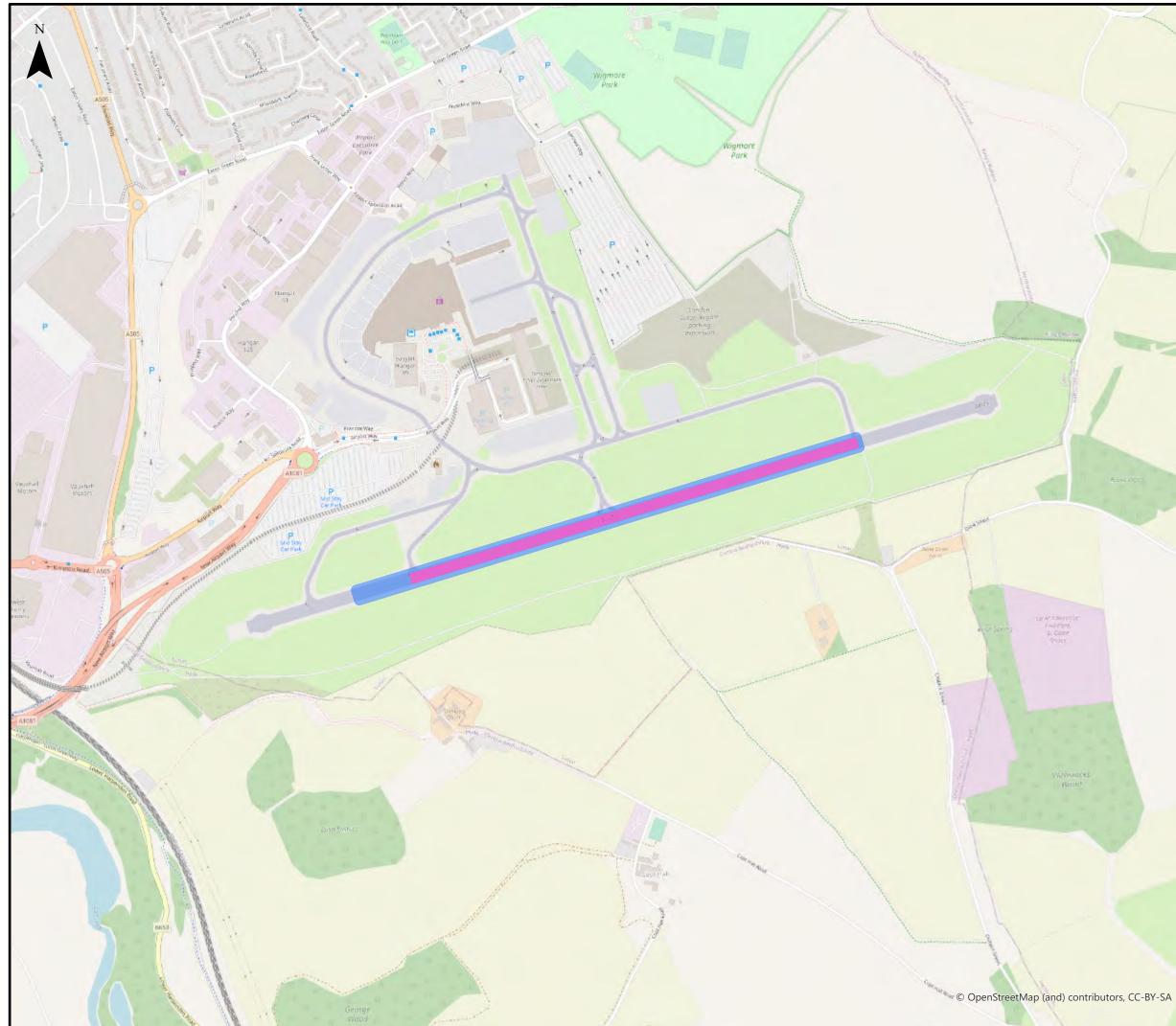
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# Legend



Arrivals brake and tyre wear 07 Arrivals brake and tyre wear 25

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07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

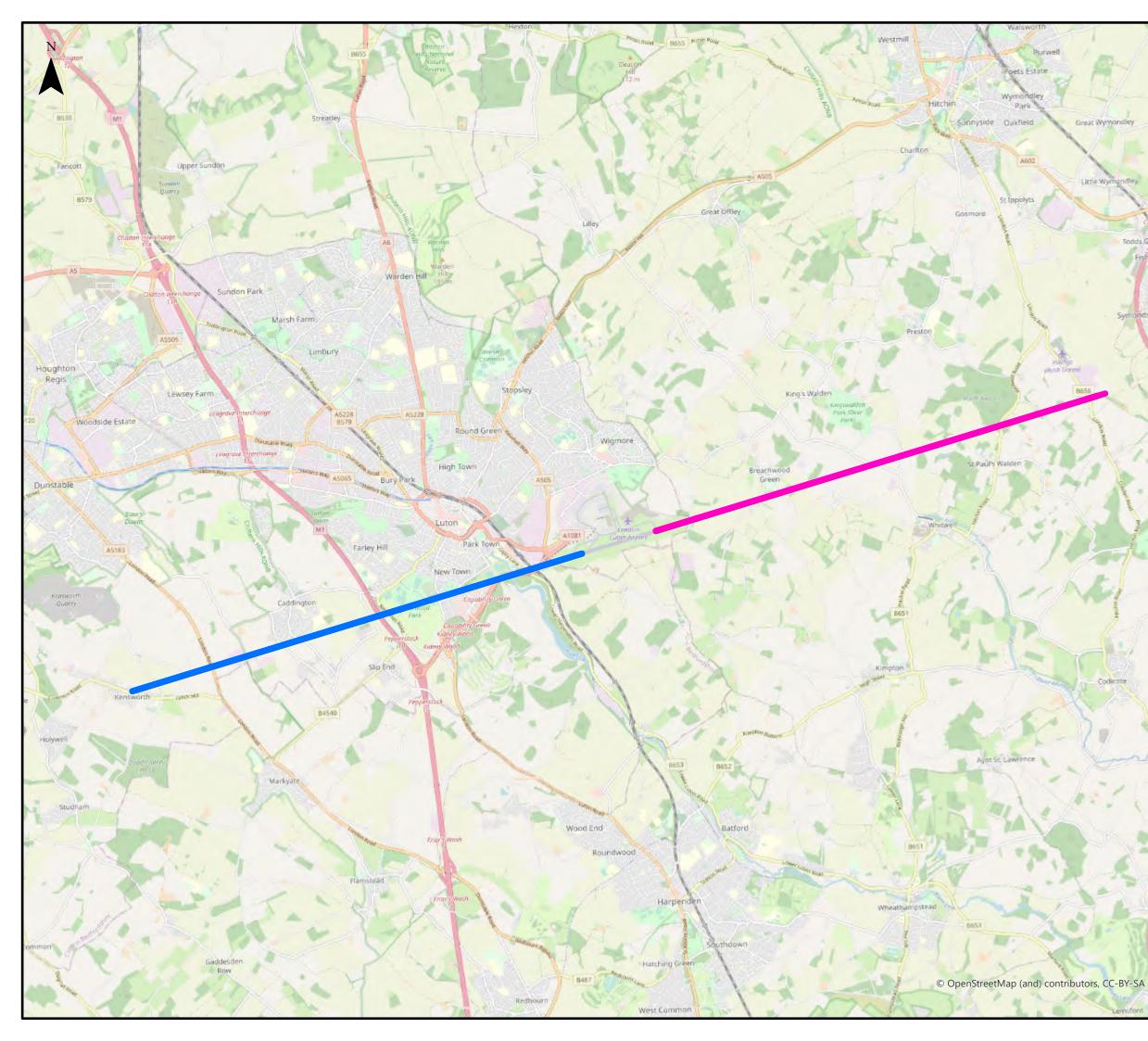
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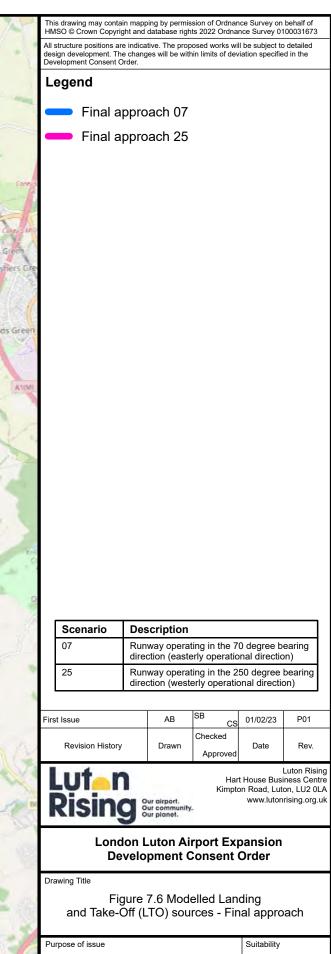
Lut n Rising Our airport. Our community. Our planet. Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.uk

# London Luton Airport Expansion Development Consent Order

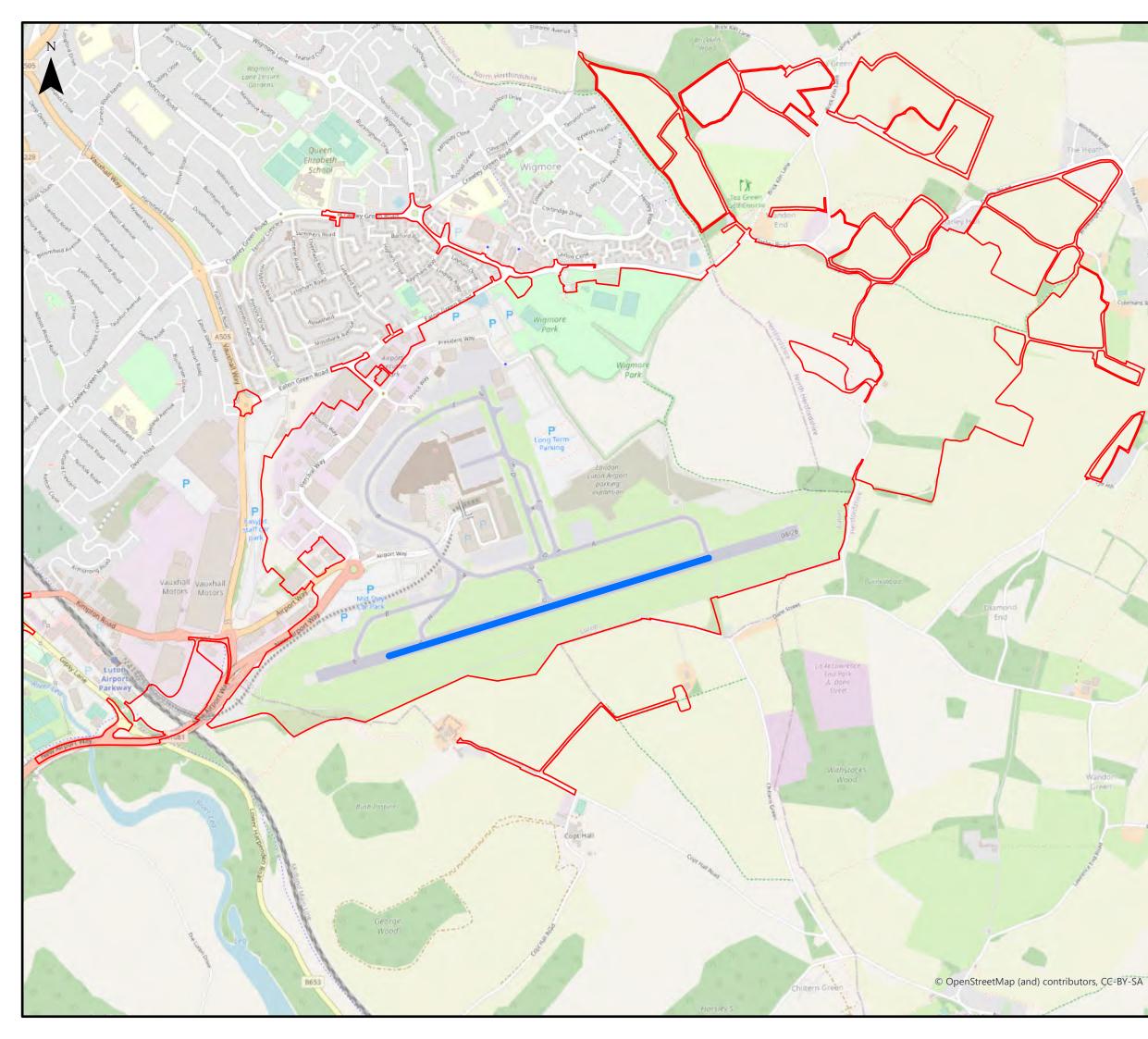
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07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

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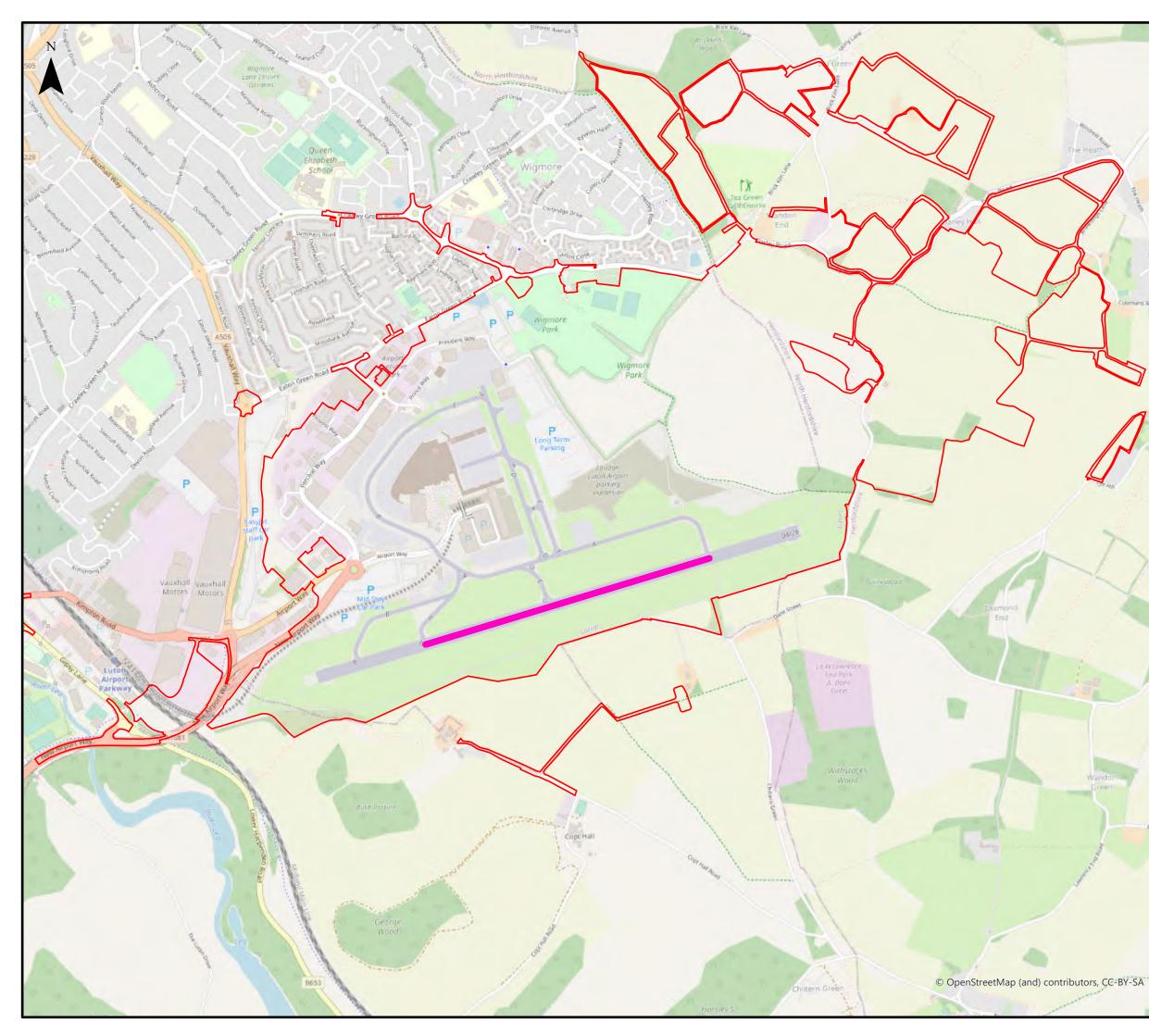
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# London Luton Airport Expansion Development Consent Order

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Figure 7.7 Modelled Landing and Take-Off (LTO) sources - arrivals 07

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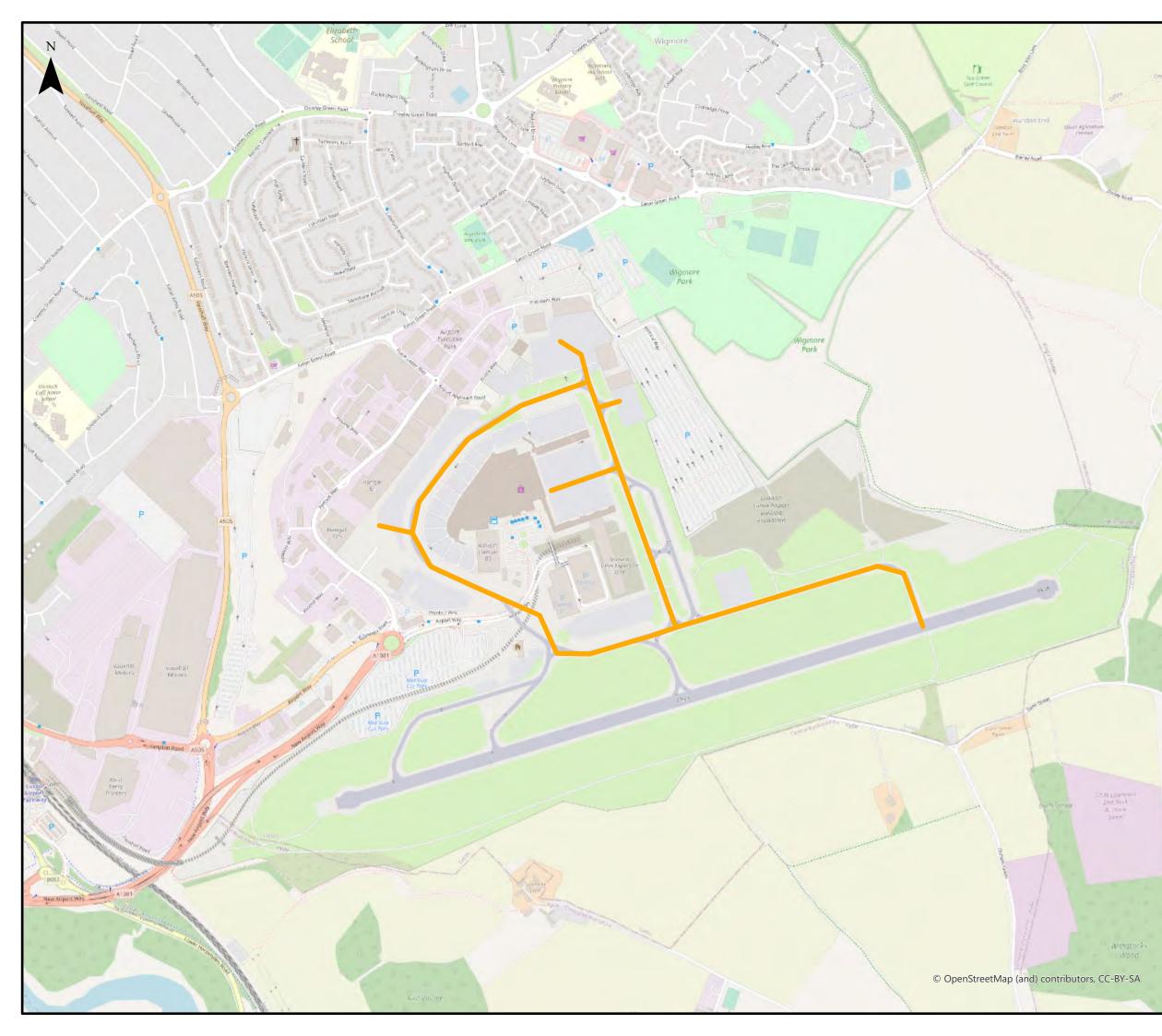
# London Luton Airport Expansion Development Consent Order

www.lutonrising.org.uk

Drawing Title

# Figure 7.8 Modelled Landing and Take-Off (LTO) sources - arrivals 25

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Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

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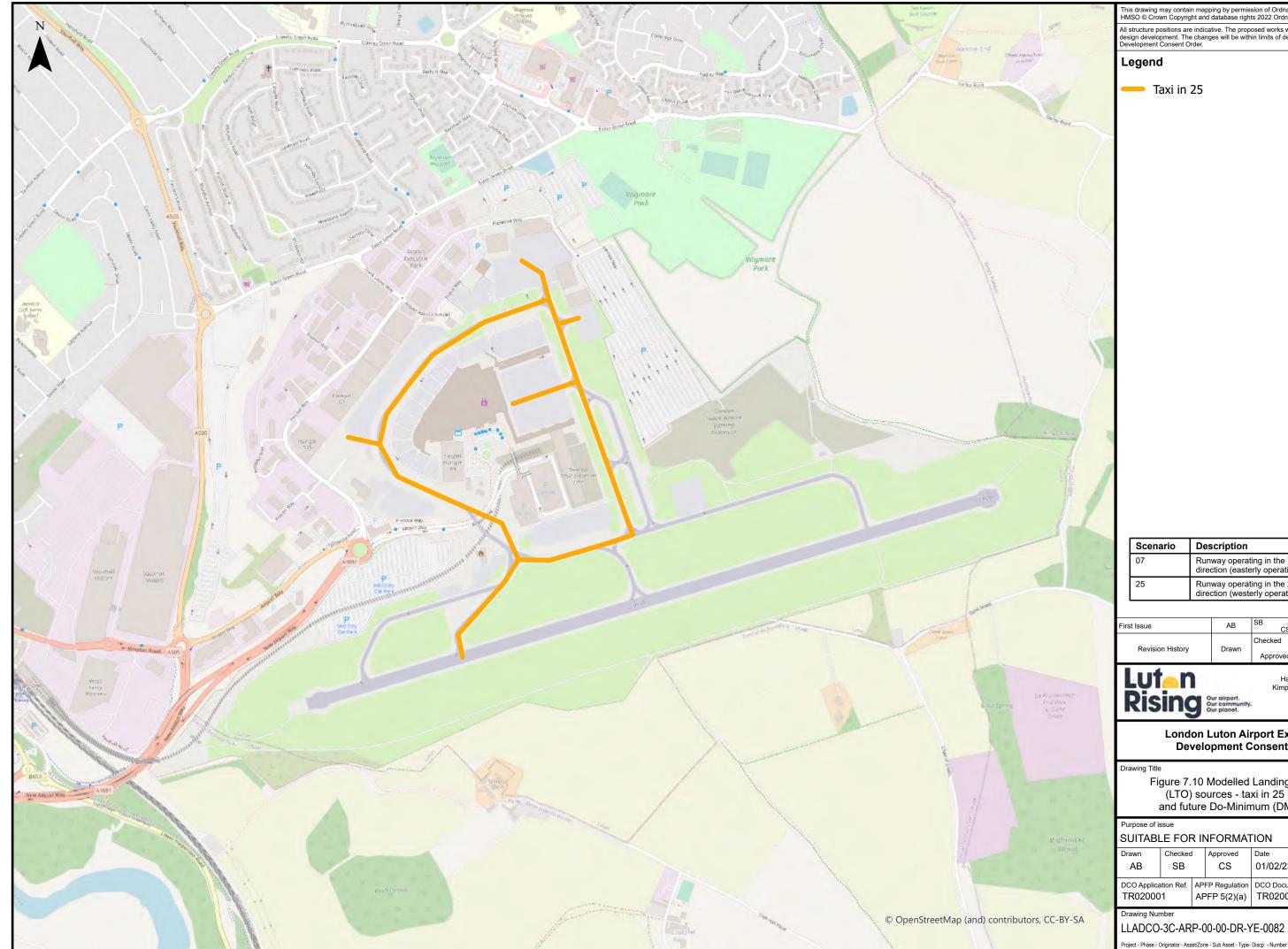
# London Luton Airport Expansion Development Consent Order

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Figure 7.9 Modelled Landing and Take-Off (LTO) sources - taxi in 07 in baseline and future Do-Minimum (DM) scenarios

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Taxi in 25

Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

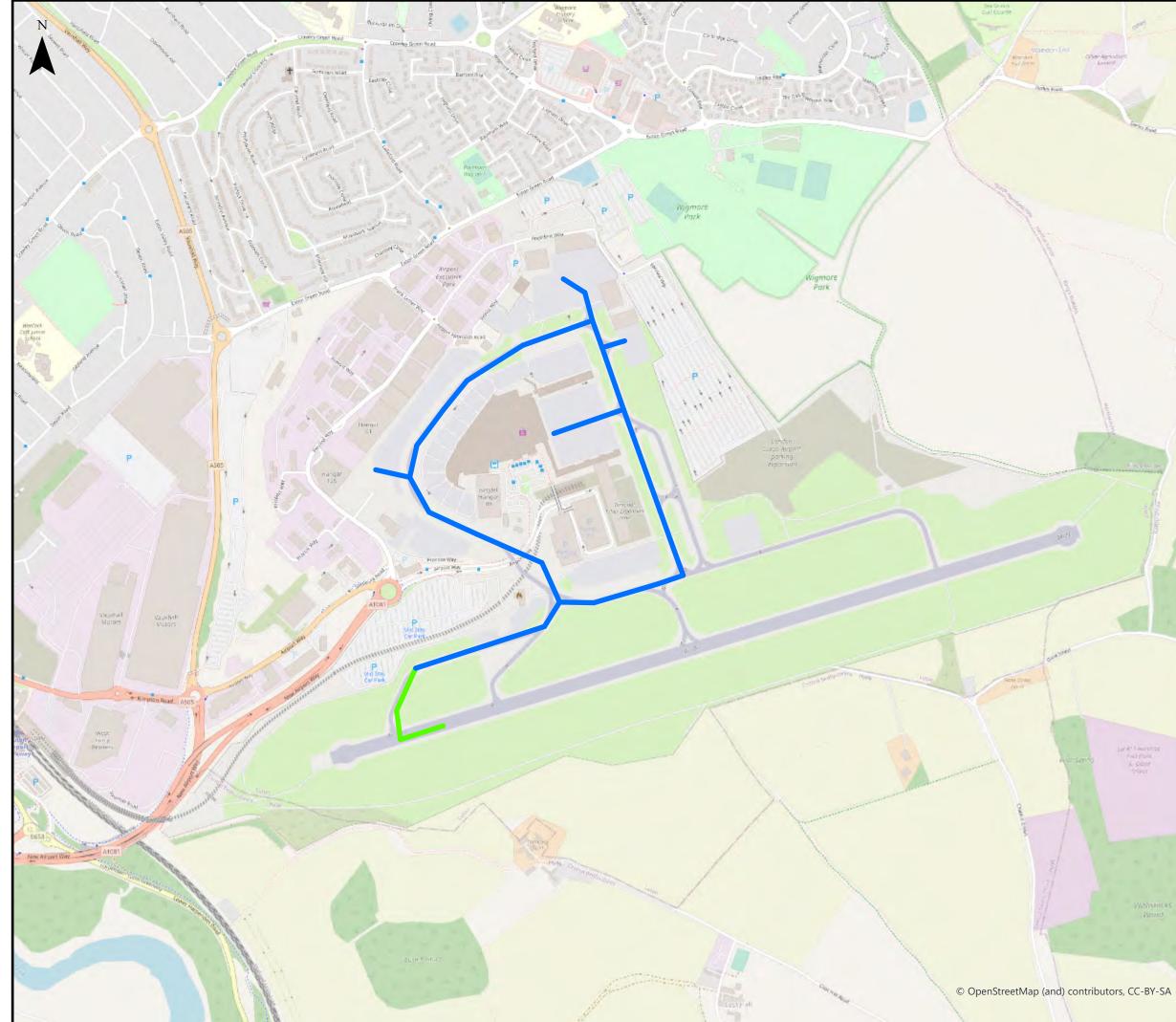
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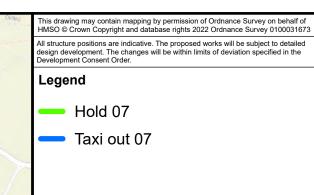
# London Luton Airport Expansion Development Consent Order

Drawing Title

Figure 7.10 Modelled Landing and Take-Off (LTO) sources - taxi in 25 in baseline and future Do-Minimum (DM) scenarios

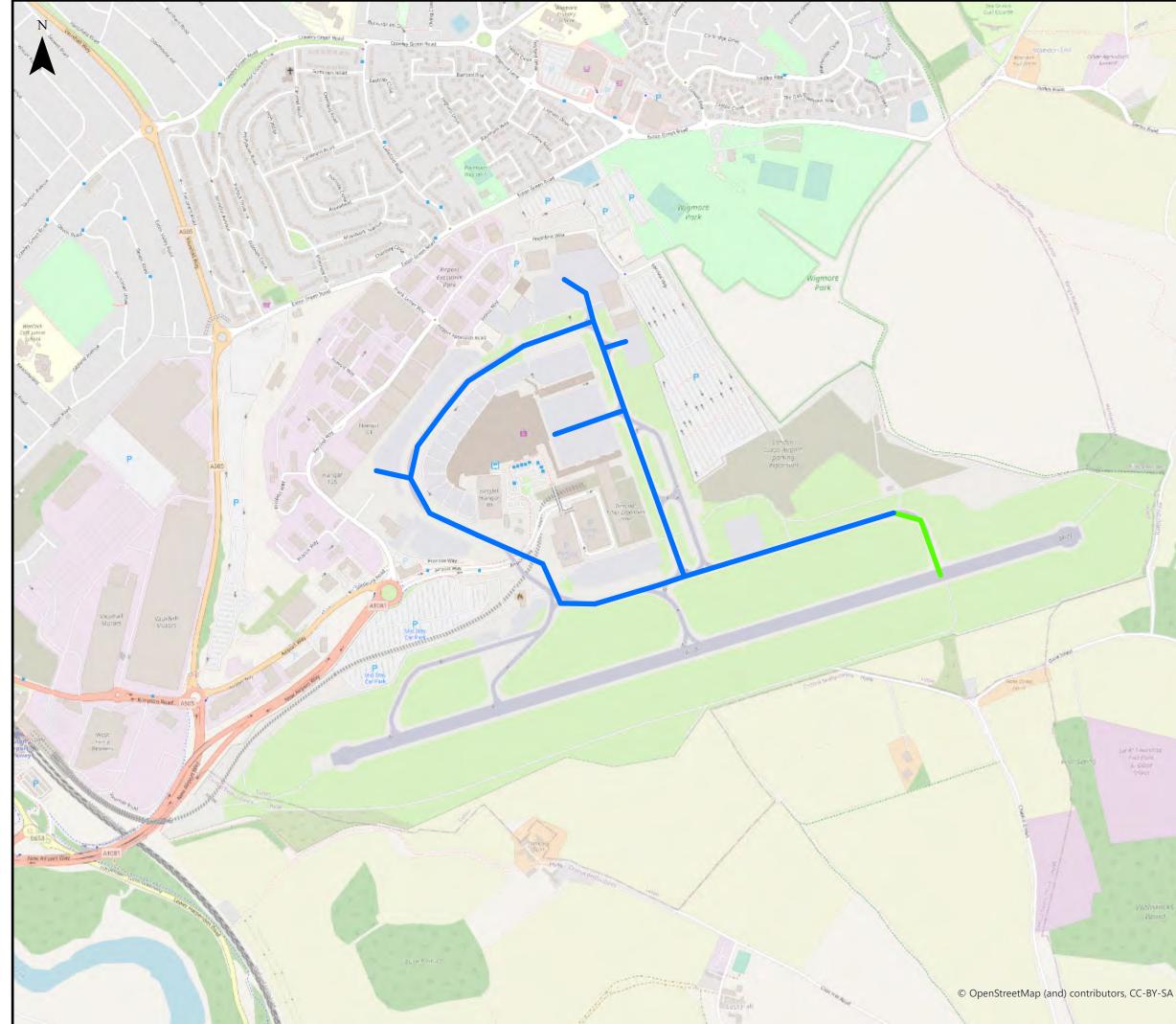
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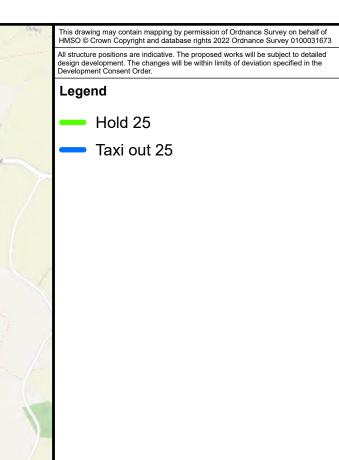




Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

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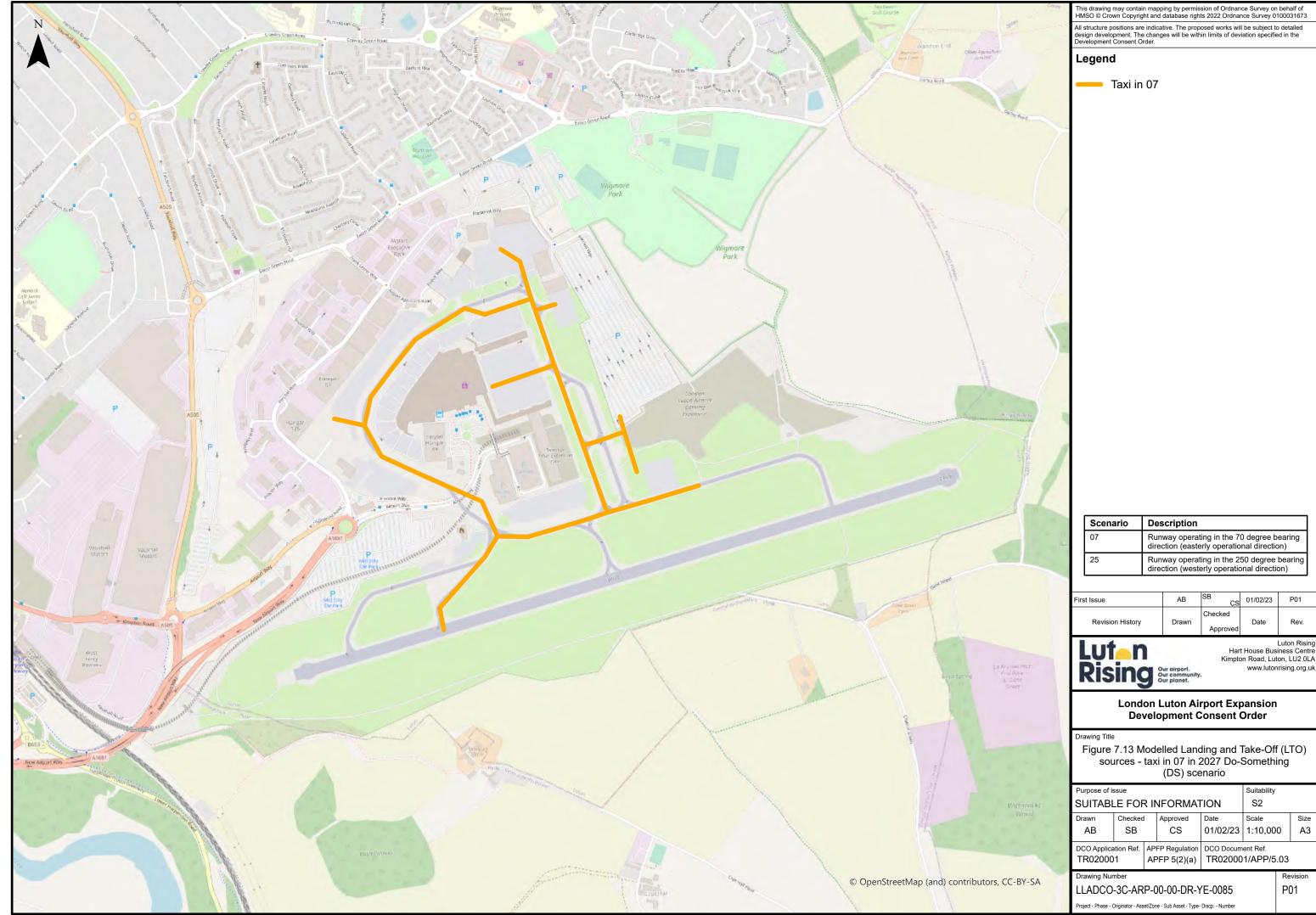


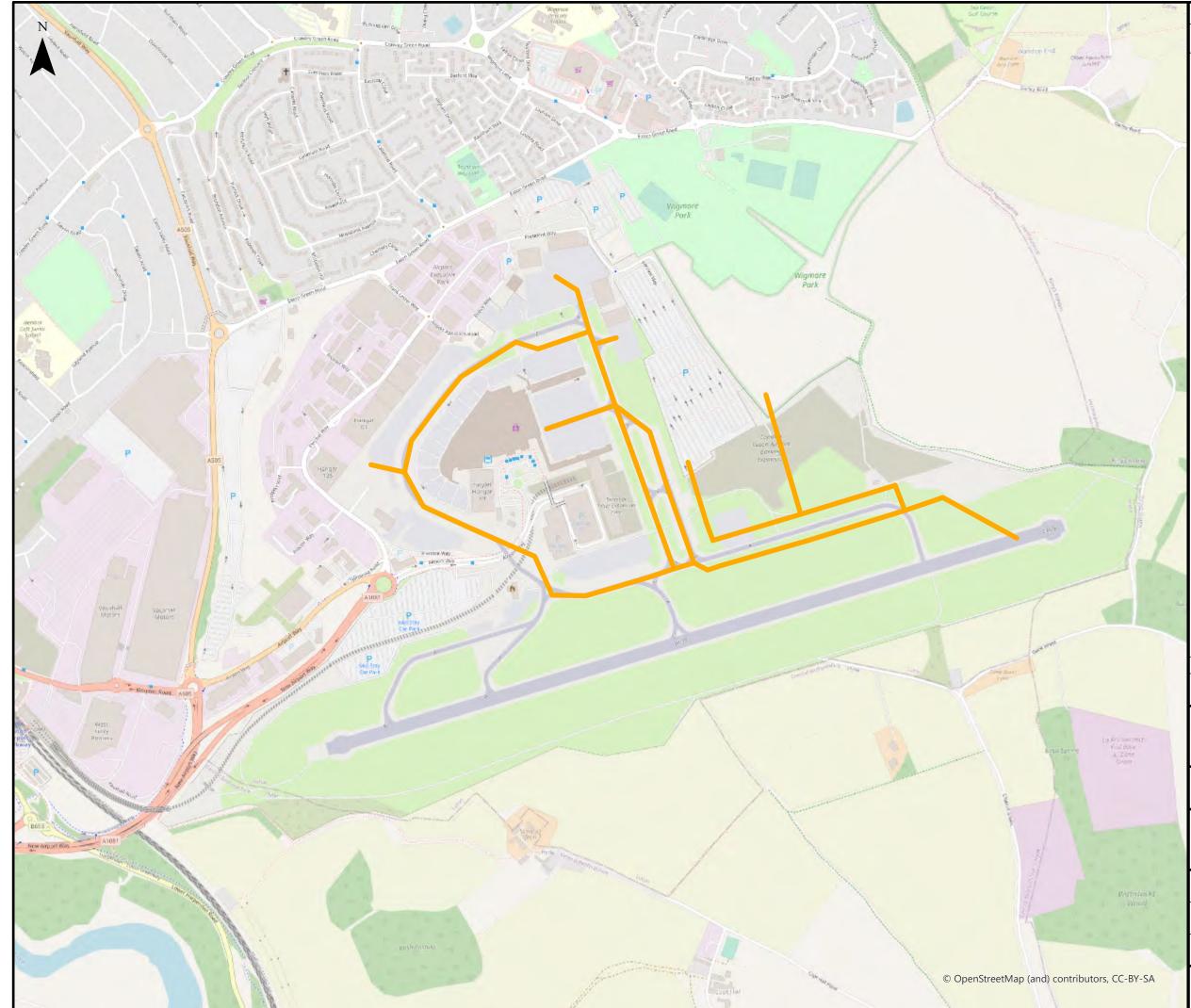


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07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

First Issue	AB	SB CS	01/02/23	P01	
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Luton Rising Our disport. Our planet. Luton Risin Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.ul London Luton Airport Expansion Development Consent Order Drawing Title Figure 7.12 Modelled Landing and Take-Off (LTO) sources - taxi out 25 in baseline and future Do-Minimum (DM) scenarios Purpose of issue Suitability S2 SUITABLE FOR INFORMATION Drawn Checked Scale Approved Size Date 01/02/23 1:10,000 A3 AB SB CS DCO Application Ref. APFP Regulation DCO Document Ref. TR020001 APFP 5(2)(a) TR020001/APP/5.03 Drawing Number Revision P01 LLADCO-3C-ARP-00-00-DR-YE-0084 Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number





### Legend

Taxi in 07

Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

First Issue	AB	SB CS	01/02/23	P01		
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Luton Rising Our disport. Our planet. Luton Rising Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.uk London Luton Airport Expansion Development Consent Order Drawing Title Figure 7.14 Modelled Landing and Take-Off (LTO) sources - taxi in 07 in 2039 Do-Something (DS) scenario Purpose of issue Suitability S2 SUITABLE FOR INFORMATION Drawn Checked Scale Size A3 Approved Date 01/02/23 1:10,000 AB SB CS DCO Application Ref. APFP Regulation DCO Document Ref. TR020001 APFP 5(2)(a) TR020001/APP/5.03 Drawing Number Revision P01 LLADCO-3C-ARP-00-00-DR-YE-0086 Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number



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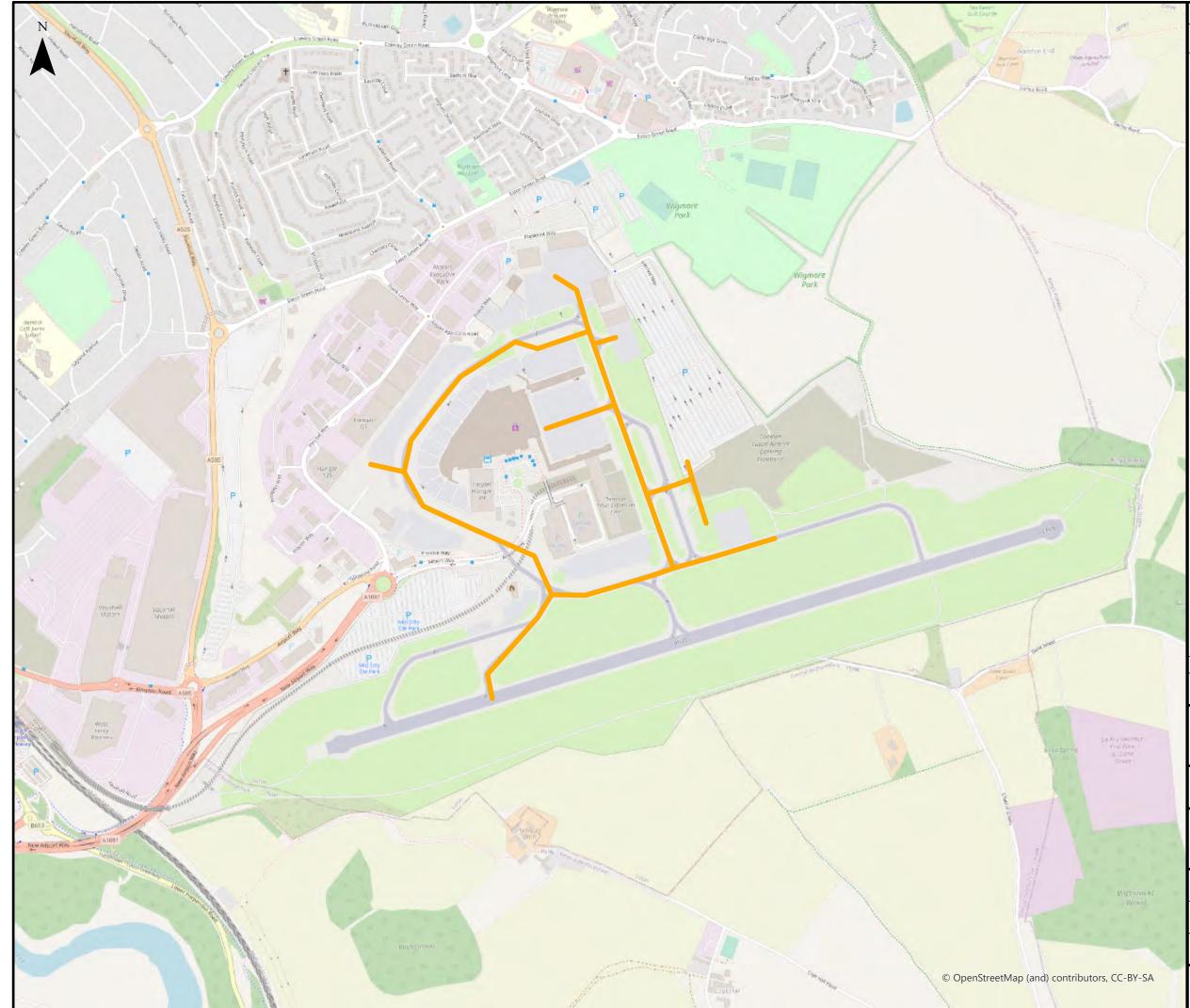
Description

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# Legend

Scenario

— Taxi in 07



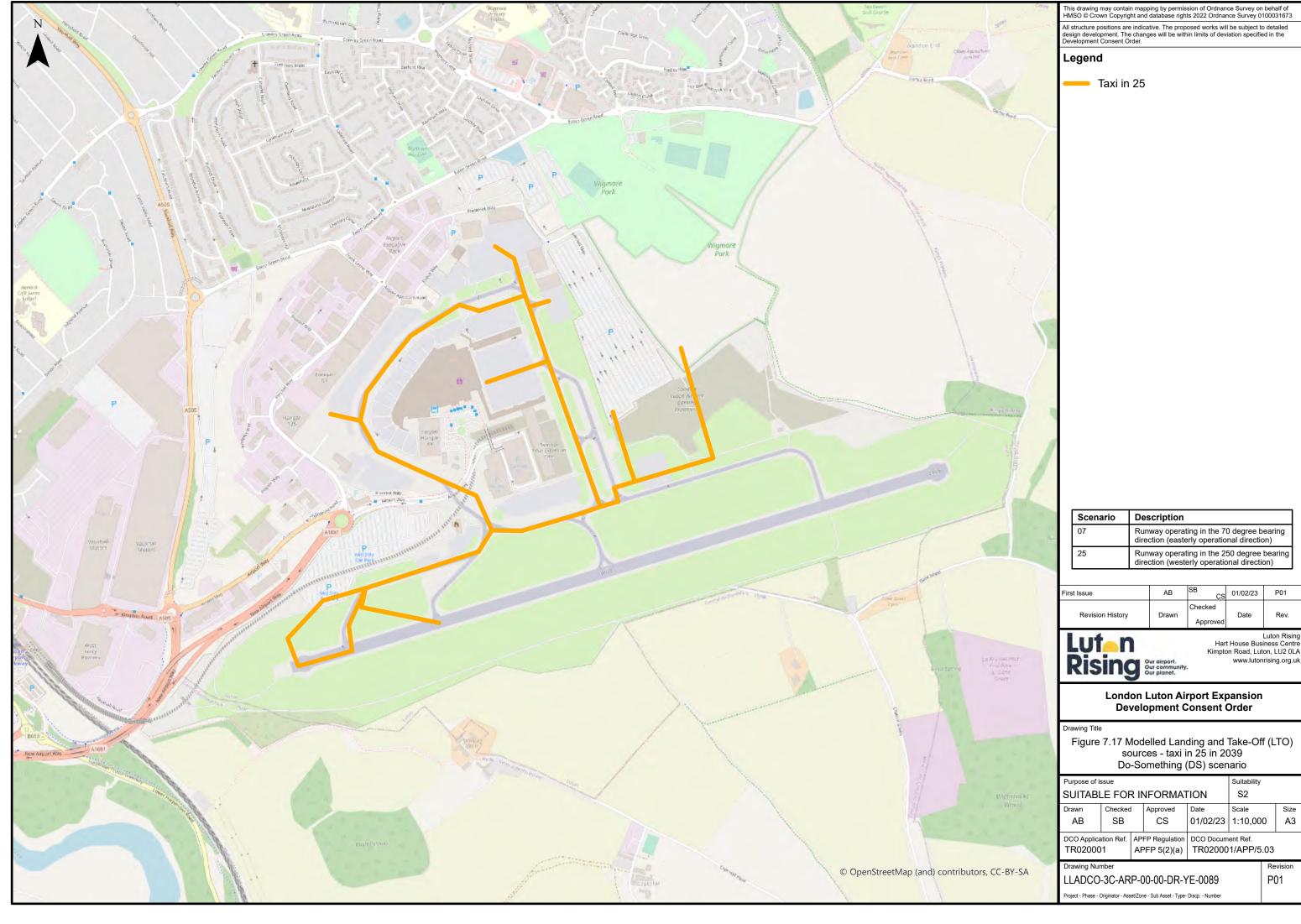
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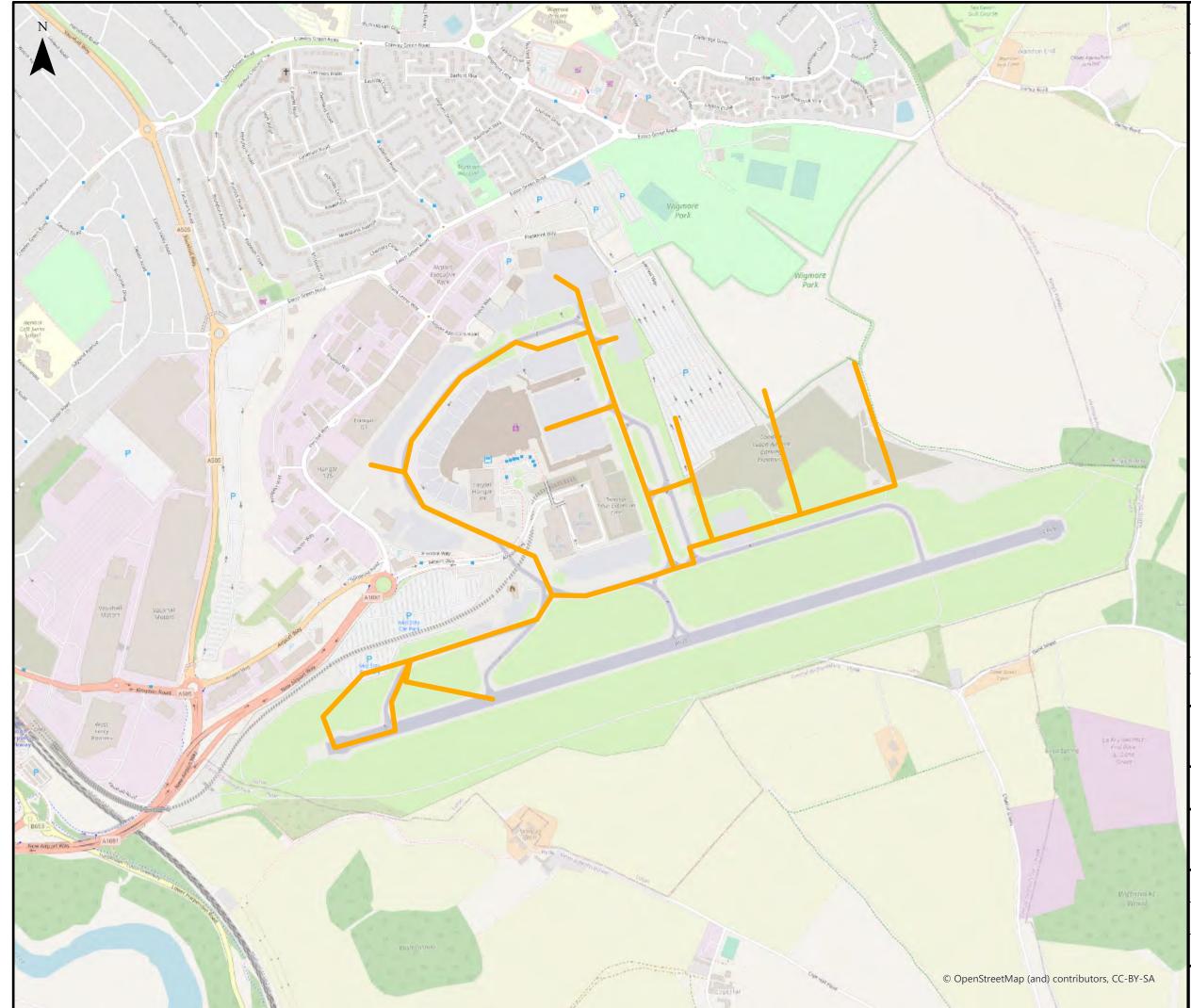
— Taxi in 25

Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

First Issue	AB	SB CS	01/02/23	P01
Revision History	Drawn	Checked Approved	Date	Rev.
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Luton Rising Our disport. Our planet. Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.uk London Luton Airport Expansion Development Consent Order Drawing Title Figure 7.16 Modelled Landing and Take-Off (LTO) sources - taxi in 25 in 2027 Do-Something (DS) scenario Purpose of issue Suitability S2 SUITABLE FOR INFORMATION Drawn Checked Scale Approved Size Date 01/02/23 1:10,000 A3 AB SB CS DCO Application Ref. APFP Regulation DCO Document Ref. TR020001 APFP 5(2)(a) TR020001/APP/5.03 Drawing Number Revision P01 LLADCO-3C-ARP-00-00-DR-YE-0088 Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number





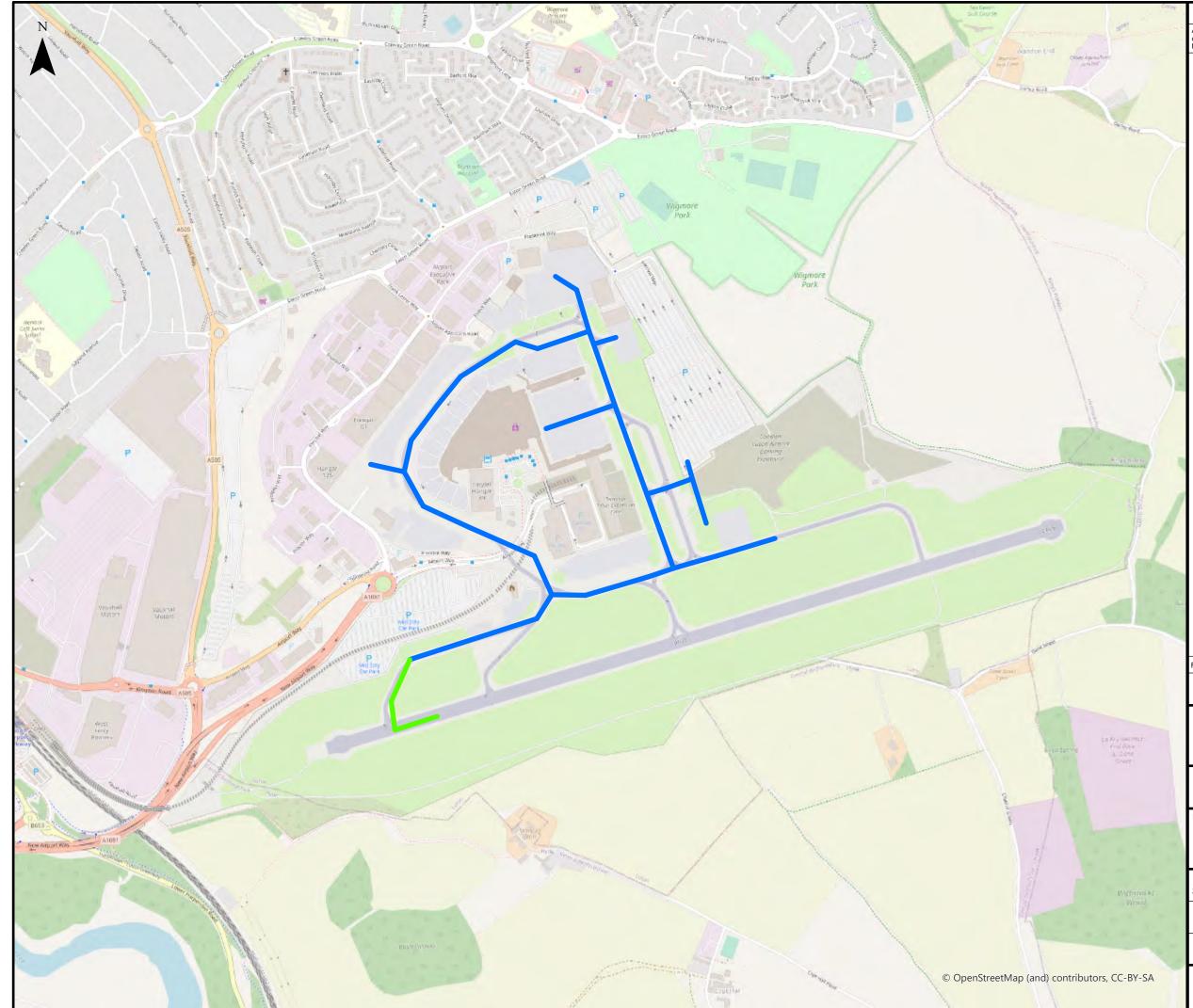
# Legend

Taxi in 25

Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

First Issue	AB	SB CS	01/02/23	P01
Revision History	Drawn	Checked Approved	Date	Rev.

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Runway operating in the 70 degree bearing direction (easterly operational direction) 07 Runway operating in the 250 degree bearing direction (westerly operational direction) 25 P01 First Issue AB 01/02/23 Checked **Revision History** Drawn Date Rev. Approv Luton Rising Our airport. Our community. Our planet. Luton Rising Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.ul London Luton Airport Expansion **Development Consent Order** Drawing Title Figure 7.19 Modelled landing and take-off (LTO) sources - taxi out and hold 07 in 2027 do-something (DS) scenario Purpose of issue Suitability S2 SUITABLE FOR INFORMATION Drawn Checked Scale Size Approved Date 01/02/23 1:10,000 A3 AB SB CS DCO Application Ref. APFP Regulation DCO Document Ref. TR020001 APFP 5(2)(a) TR020001/APP/5.03 Drawing Number Revision P01 LLADCO-3C-ARP-00-00-DR-YE-0091 Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number

Description

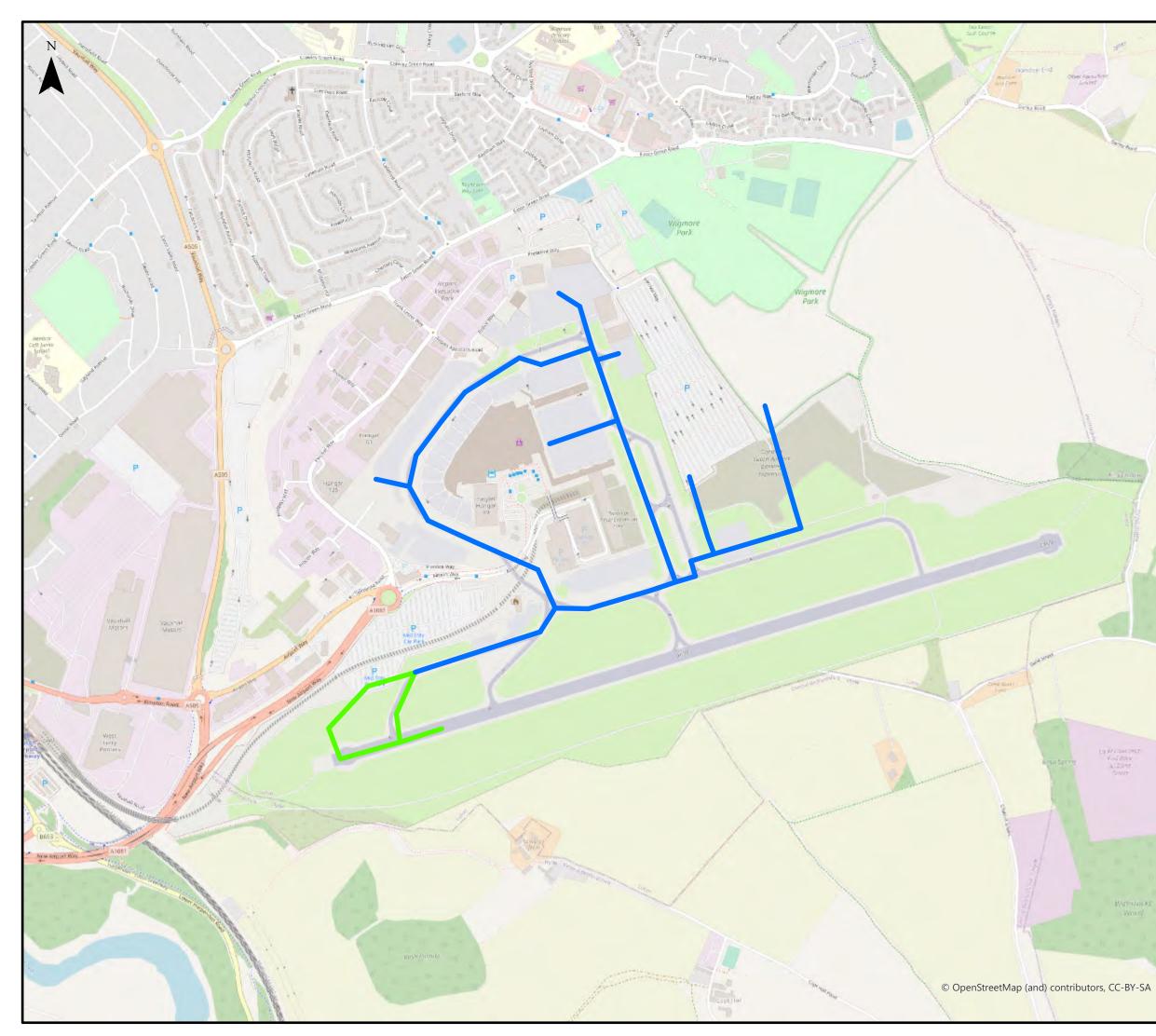
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### Legend

Scenario

Taxi out 07





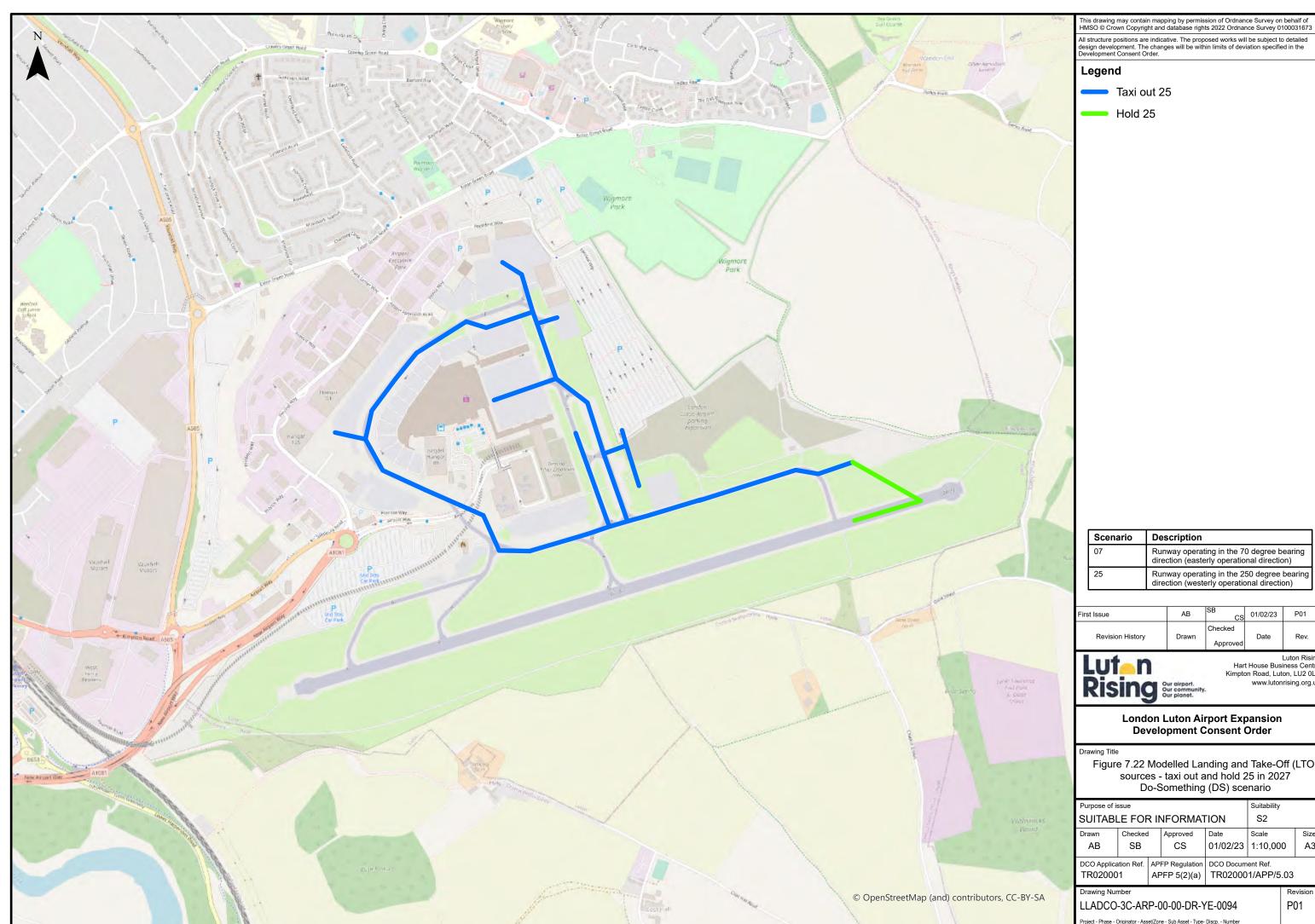
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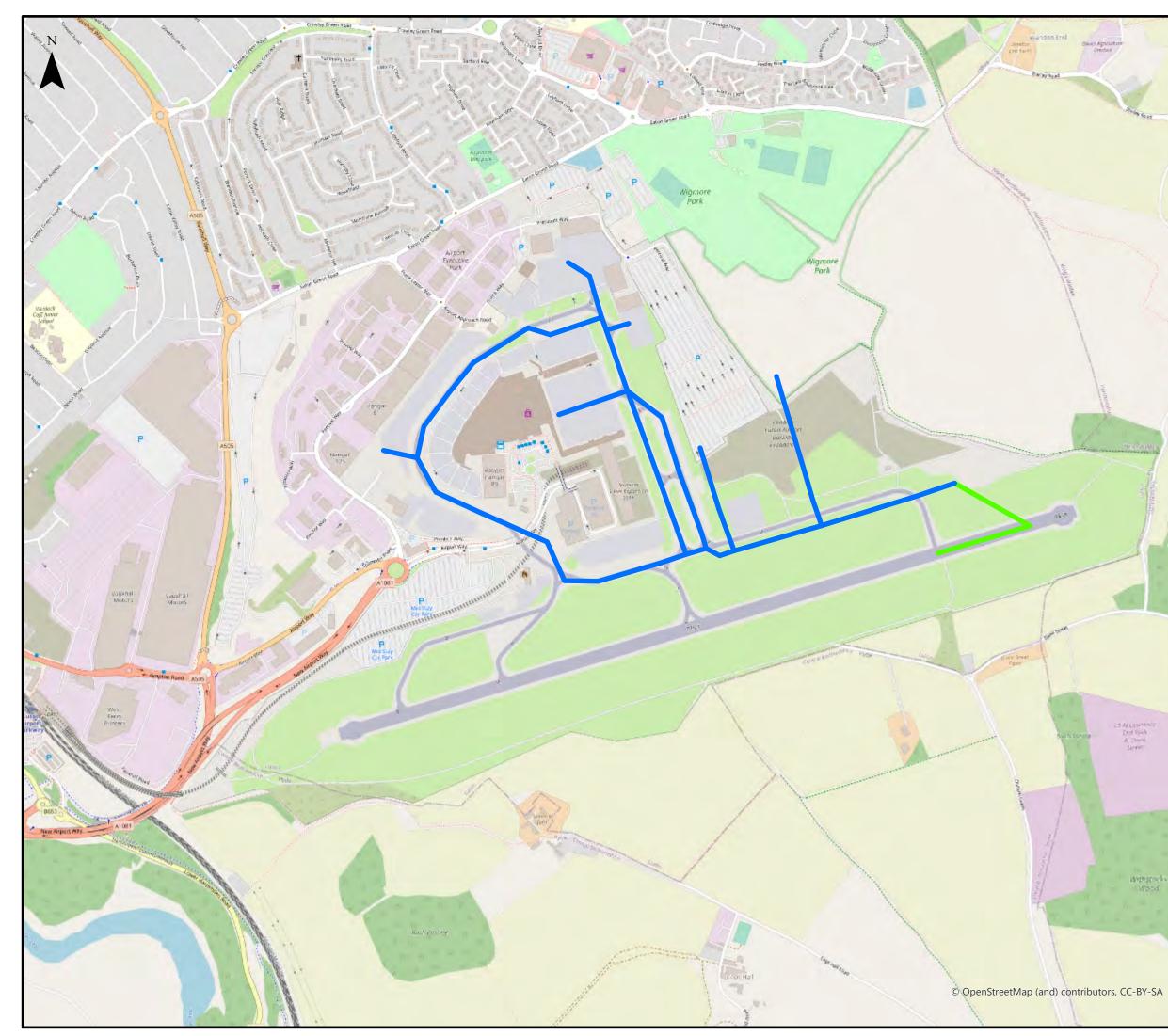
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Luton Rising Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.lutonrising.org.ul Figure 7.22 Modelled Landing and Take-Off (LTO) sources - taxi out and hold 25 in 2027 Do-Something (DS) scenario Size A3

Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number



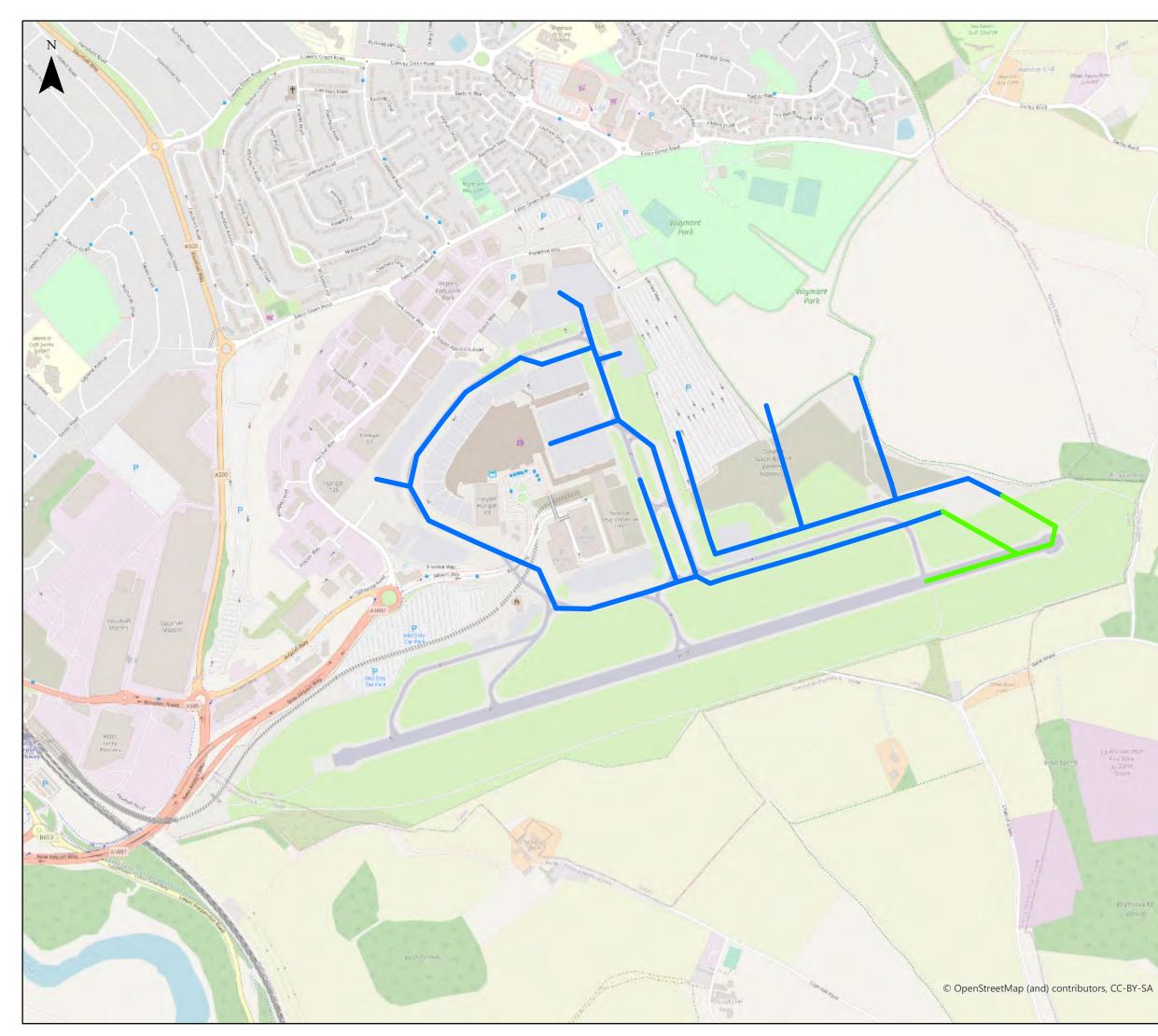


London Luton Airport Expansion Development Consent Order

Drawing Title

Figure 7.23 Modelled landing and take-off (LTO) sources - taxi out and hold 25 in 2039 do-something (DS) scenarios

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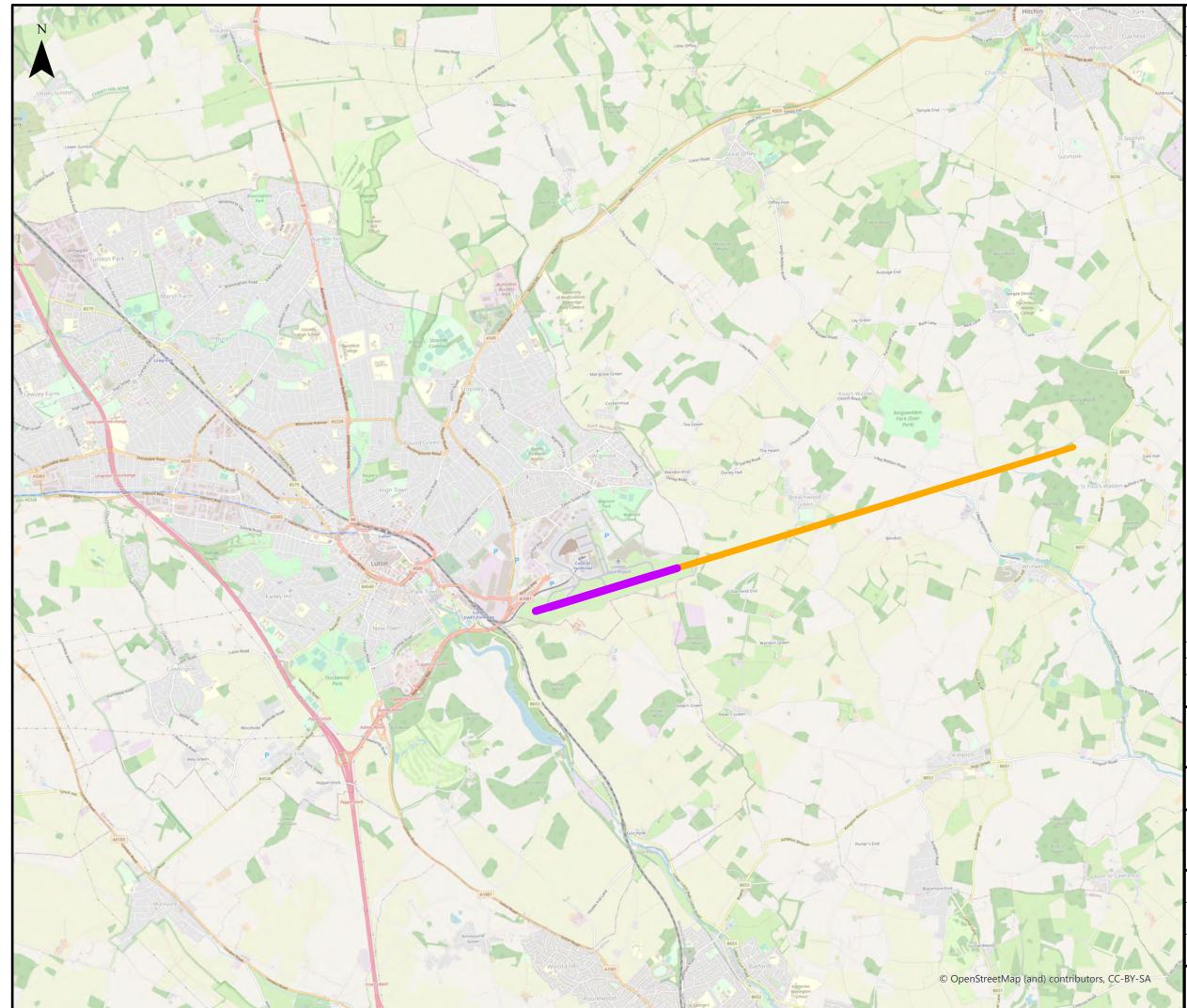


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Figure 7.24 Modelled Landing and Take-Off (LTO) sources -taxi out and hold 25 in 2043 Do-Something (DS) scenarios

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# Legend



# Initial Climb 07

Scenario	Description
07	Runway operating in the 70 degree bearing direction (easterly operational direction)
25	Runway operating in the 250 degree bearing direction (westerly operational direction)

Additional submissions (updated in response to Rule 9 letter)	AB	SB CS	31/05/23	P02
First Issue	AB	SB CS	01/02/23	P01
Revision History	Drawn	Checked Approved	Date	Rev.



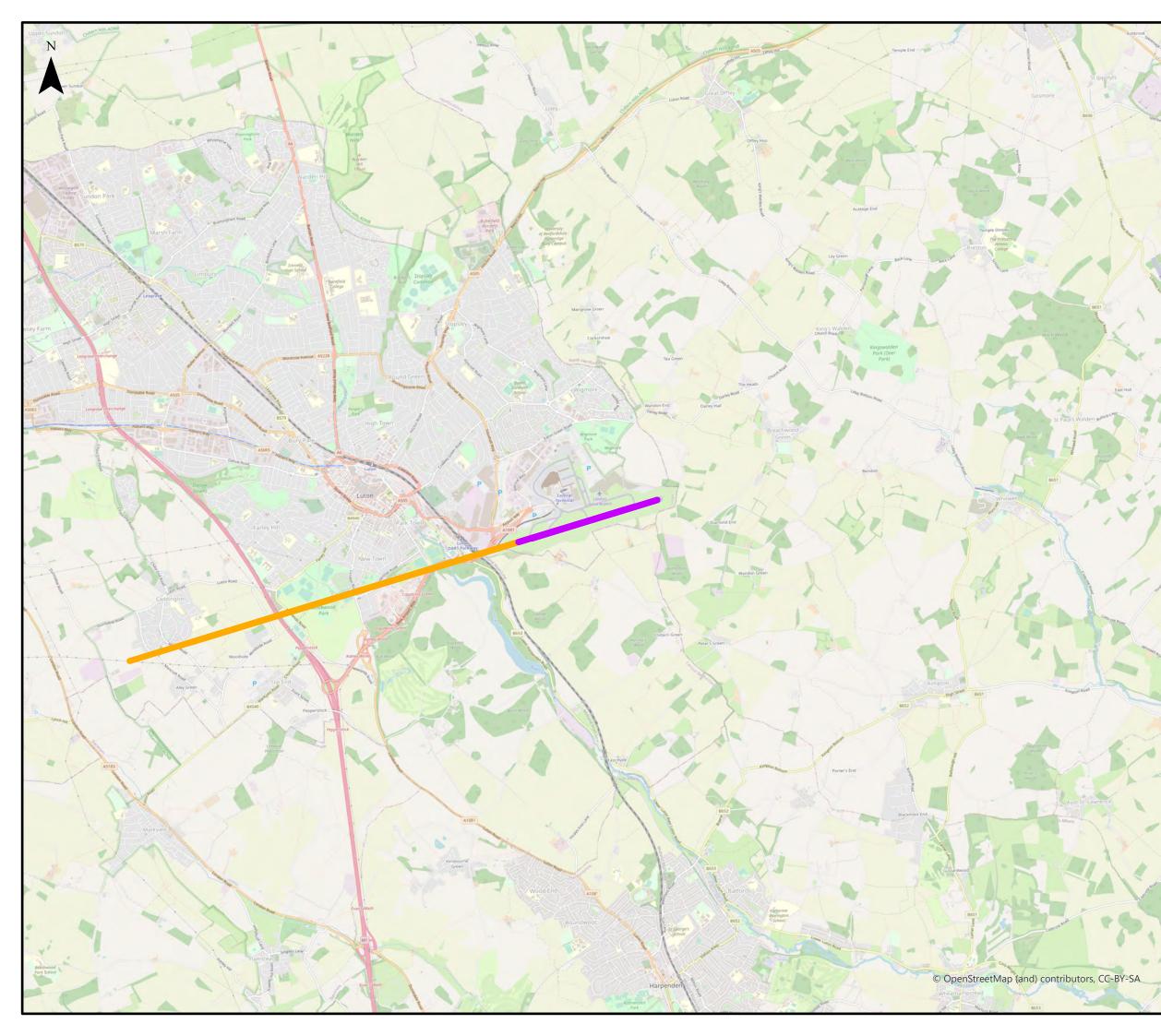
London Luton Airport Ltd. Hart House Business Centre Kimpton Road, Luton, LU2 0LA www.llal.org.uk

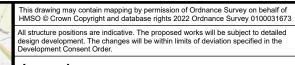
# London Luton Airport Expansion Development Consent Order

Drawing Title

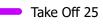
Figure 7.25 Modelled Landing and Take-Off (LTO) sources - take off and initial climb 07

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# Legend



# Initial Climb 25

Scenario	Description				
07	Runway operating in the 70 degree bearing direction (easterly operational direction)				
25	Runway operating in the 250 degree bearing direction (westerly operational direction)				

Additional submissions (updated in response to Rule 9 letter)	AB	SB CS	31/05/23	P02
First Issue	AB	SB CS	01/02/23	P01
Revision History	Drawn	Checked Approved	Date	Rev.



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# London Luton Airport Expansion Development Consent Order

Drawing Title

# Figure 7.26 Modelled Landing and Take-Off (LTO) sources - take off and initial climb 25

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