

February 2023

# London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents  
**5.03 Chapter 16 Noise and Vibration Figures 16.21 - 16.40**

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

---

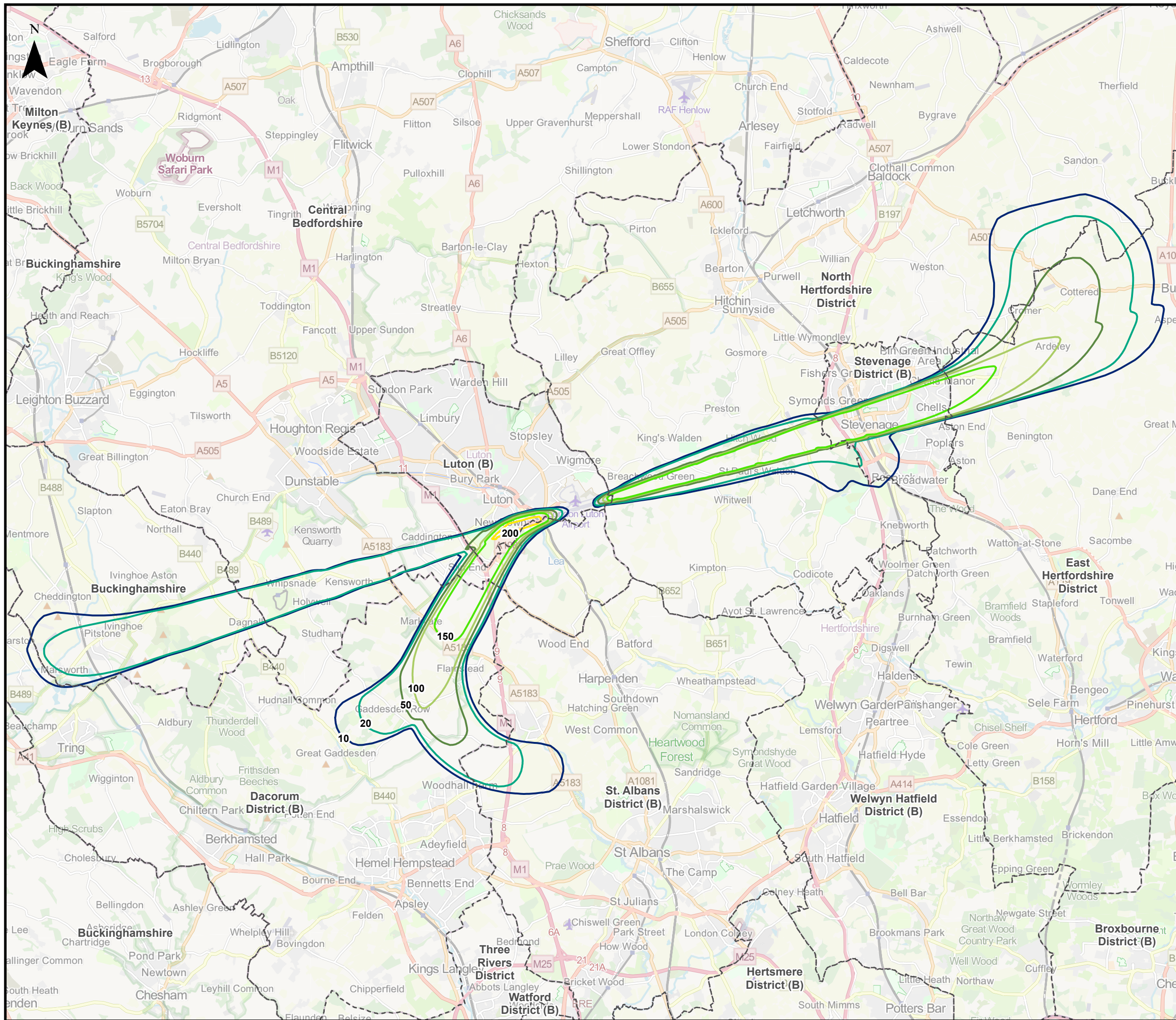
5.03 ENVIRONMENTAL STATEMENT CHAPTER 16 NOISE AND VIBRATION FIGURES 16.21 – 16.40

---

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

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Issue 01	February 2023	Application issue





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Number of overflights per day (07:00 – 23:00) up to 4,000ft (2027 Do-Something)**
- 10
- 20
- 50
- 100
- 150
- 200

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

Luton Rising  
Hart House Business Centre  
Kimpton Road, Luton, LU2 0LA  
www.lutonrising.org.uk

**London Luton Airport Expansion Development Consent Order**

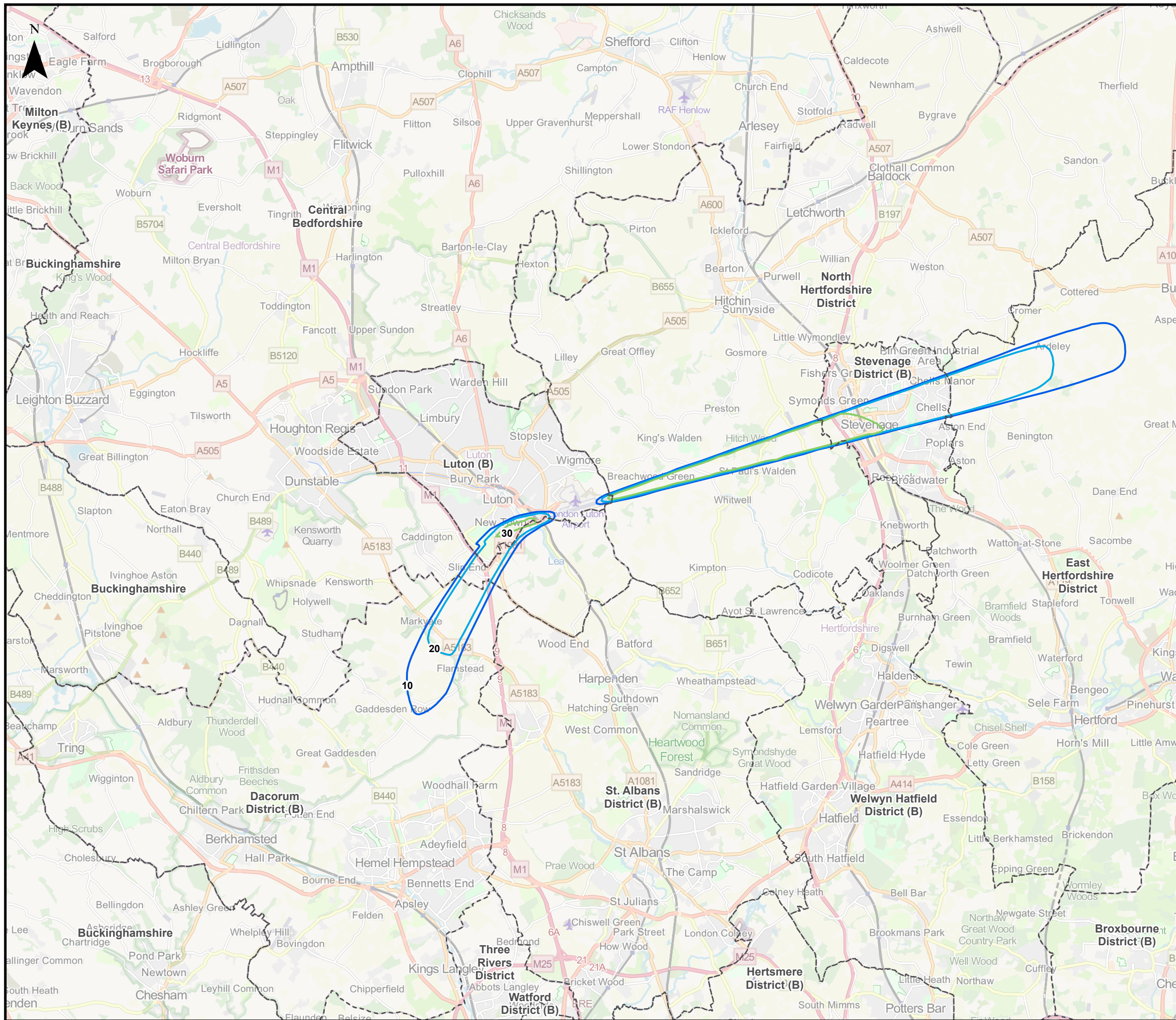
Drawing Title  
**Figure 16.21  
Extent of 2027 Do-Something Daytime  
Overflight Contours up to 4,000 feet**

Purpose of issue				Suitability	
<b>SUITABLE FOR INFORMATION</b>				<b>S2</b>	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:140,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0021	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries

**Number of overflights per night (23:00 – 07:00) up to 4,000ft (2027 Do-Something)**

- 10
- 20
- 30

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. Our planet.

Luton Rising  
Hart House Business Centre  
Kimpton Road, Luton, LU2 0LA  
www.lutonrising.org.uk

**London Luton Airport Expansion Development Consent Order**

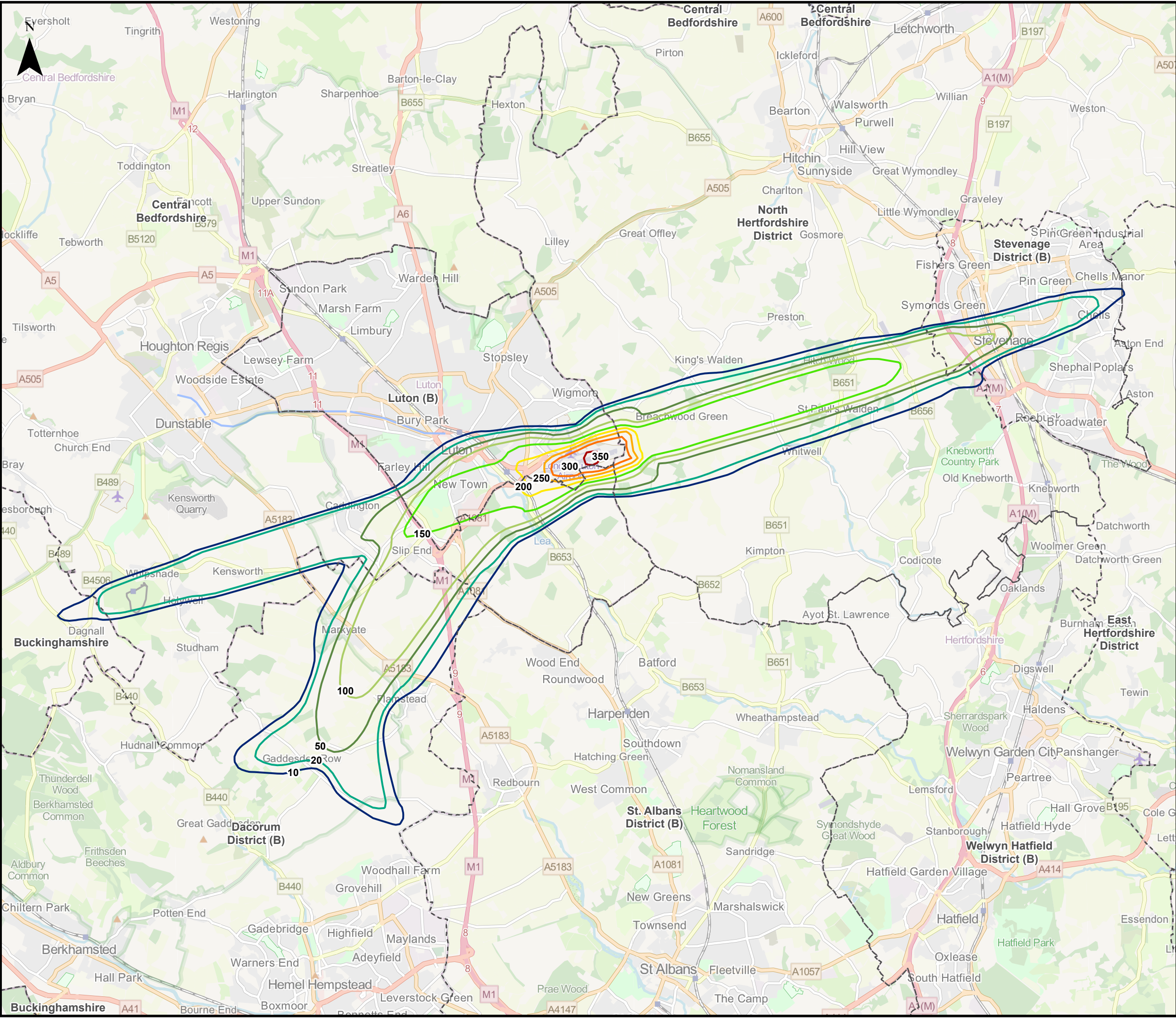
Drawing Title  
**Figure 16.22  
Extent of 2027 Do-Something Night-time  
Overflight Contours up to 4,000 feet**

Purpose of issue				Suitability	
<b>SUITABLE FOR INFORMATION</b>				<b>S2</b>	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:140,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0022	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673  
 All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Noise Contours (2027 Do-Minimum Daytime number of aircraft above 65 Decibels (dB) LASmax (N65))**
- 10
- 20
- 50
- 100
- 150
- 200
- 250
- 300
- 350

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. Our planet.

Luton Rising  
 Hart House Business Centre  
 Kimpton Road, Luton, LU2 0LA  
 www.lutonrising.org.uk

**London Luton Airport Expansion Development Consent Order**

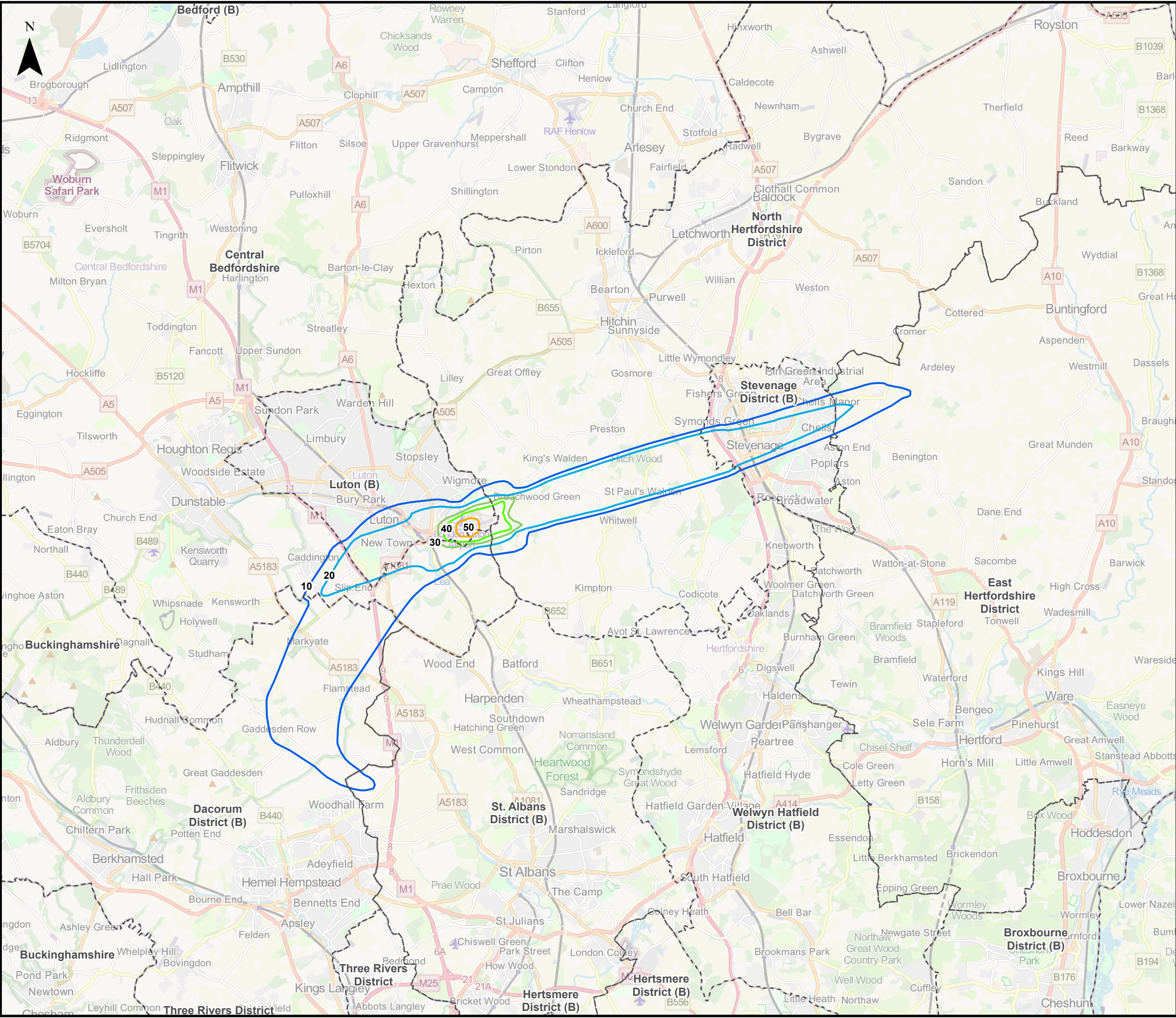
Drawing Title: **Figure 16.23**  
**Extent of 2027 Do-Minimum Daytime number of aircraft above 65 Decibels (dB) LASmax (N65) Noise Contours**

Purpose of issue				Suitability	
<b>SUITABLE FOR INFORMATION</b>				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:95,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0023	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673  
 All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Noise Contours (2027 Do-Minimum Night-time number of aircraft above 60 Decibels (dB) LASmax (N60))**
- 10
- 20
- 30
- 40
- 50

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	MAB	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

Luton Rising  
 Luton Rising  
 Hart House Business Centre  
 Kimpton Road, Luton, LU2 0LA  
 www.lutonrising.org.uk

**London Luton Airport Expansion  
 Development Consent Order**

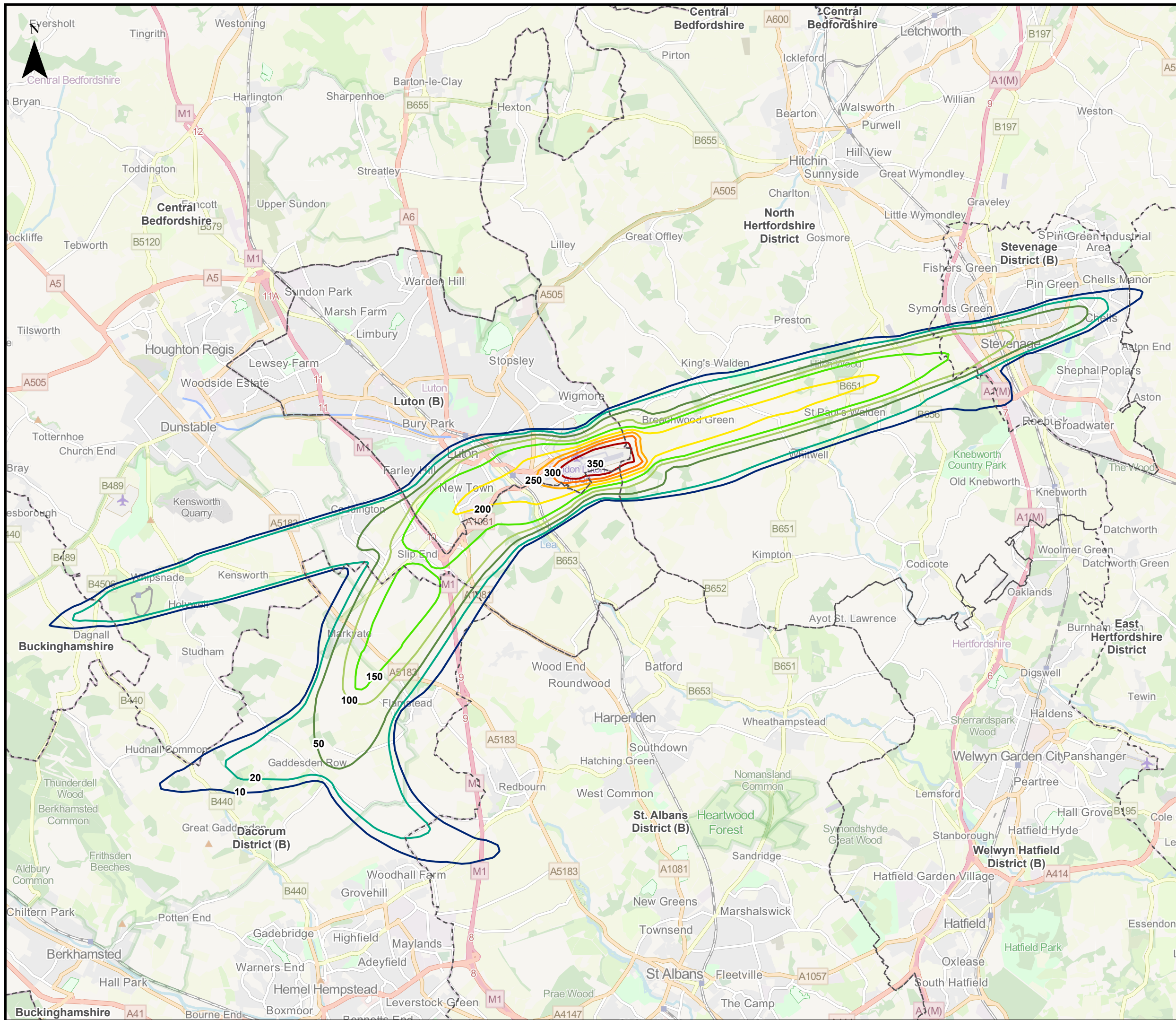
Drawing Title: Figure 16.24  
 Extent of 2027 Do-Minimum Night-time number of aircraft above 60 Decibels (dB) LASmax (N60) Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	31/01/23	1:140,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0024	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

Local Authority Boundaries

**Noise Contours (2027 Do-Something Daytime number of aircraft above 65 Decibels (dB) LASmax (N65))**

- 10
- 20
- 50
- 100
- 150
- 200
- 250
- 300
- 350

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. Our planet.

Luton Rising  
Hart House Business Centre  
Kimpton Road, Luton, LU2 0LA  
www.lutonrising.org.uk

**London Luton Airport Expansion Development Consent Order**

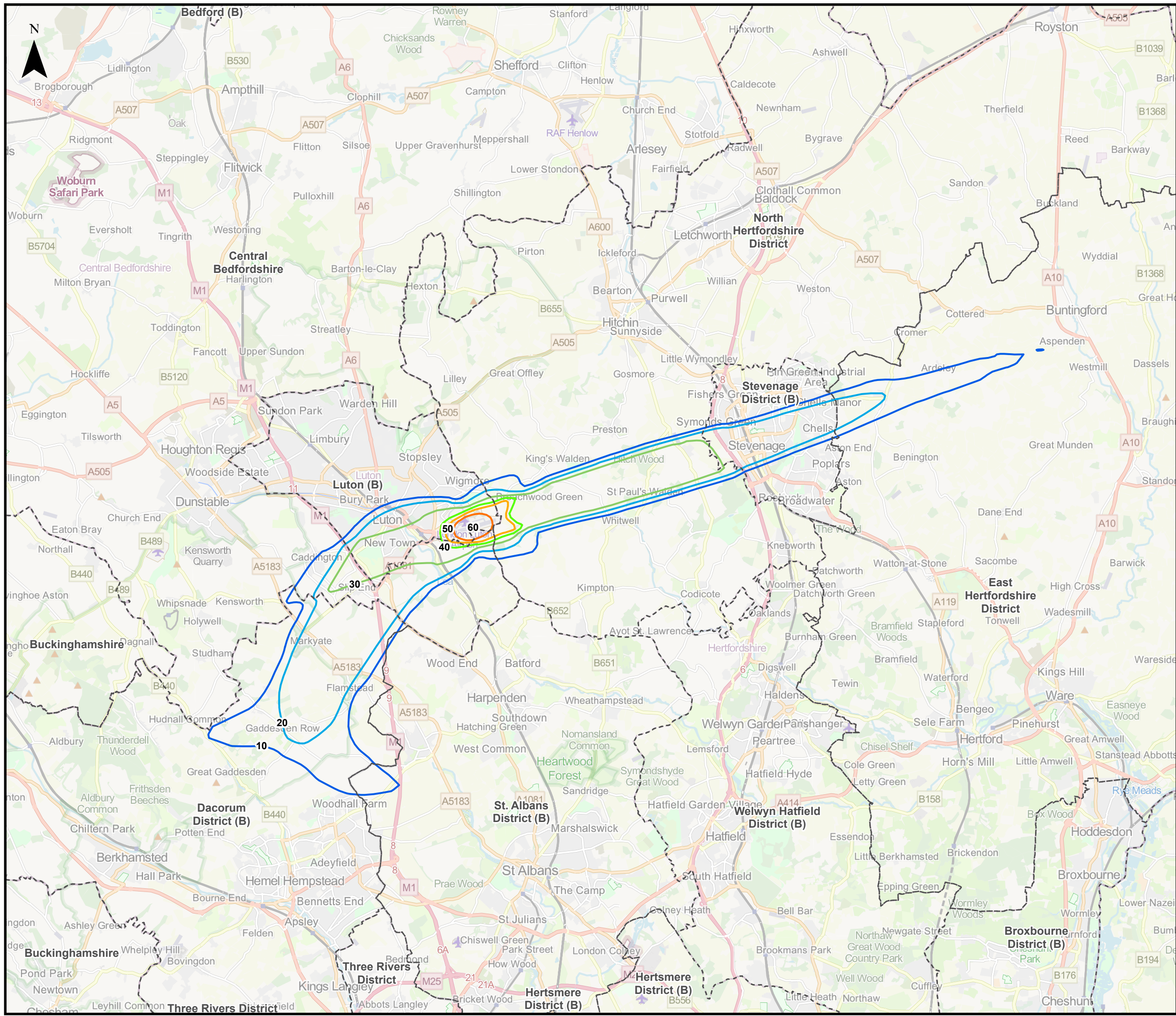
Drawing Title: Figure 16.25  
Extent of 2027 Do-something Daytime number of aircraft above 65 Decibels (dB) LASmax (N65) Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	31/01/23	1:95,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0025	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

Local Authority Boundaries

**Noise Contours (2027 Do-Something Night-time number of aircraft above 60 Decibels (dB) LASmax (N60))**

- 10
- 20
- 30
- 40
- 50
- 60

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	MAB	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. Our planet.

Luton Rising  
Hart House Business Centre  
Kimpton Road, Luton, LU2 0LA  
www.lutonrising.org.uk

**London Luton Airport Expansion Development Consent Order**

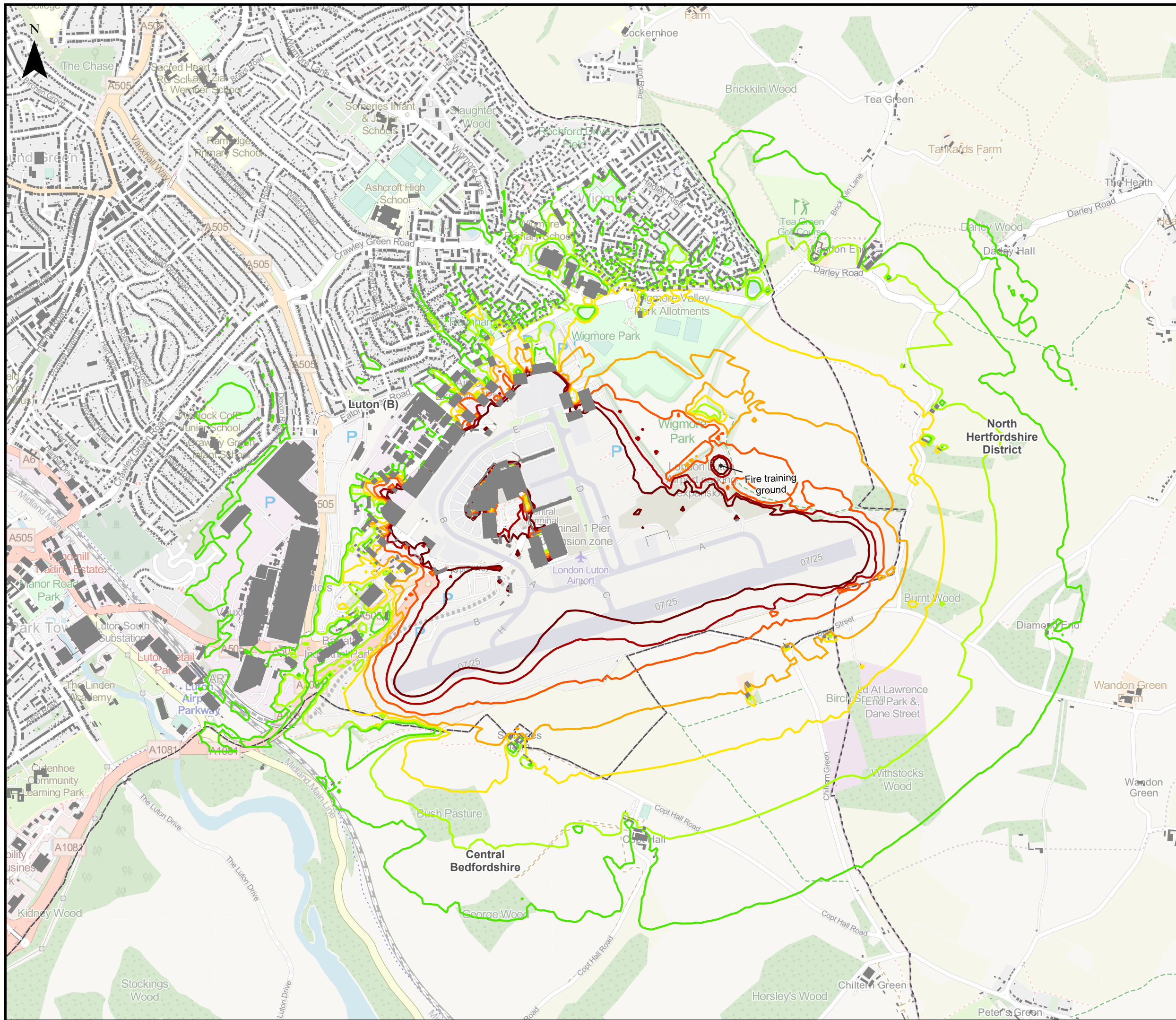
Drawing Title: Figure 16.26  
Extent of 2027 Do-Something Night-time number of aircraft above 60 Decibels (dB) LASmax (N60) Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	31/01/23	1:140,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0026	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Building
- Ground Noise Contours in Decibels (dB) (2027 Do-Minimum Daytime LAeq,16h)**
- 51 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 54 dB
- 57 dB
- 60 dB
- 63 dB - Significant Observed Adverse Effect Level (SOAEL)
- 66 dB
- 69 dB - Unacceptable Adverse Effect Level (UAEL)

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. 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 16.27**  
**Extent of 2027 Do-Minimum Daytime LAeq,16h Ground Noise Contours**

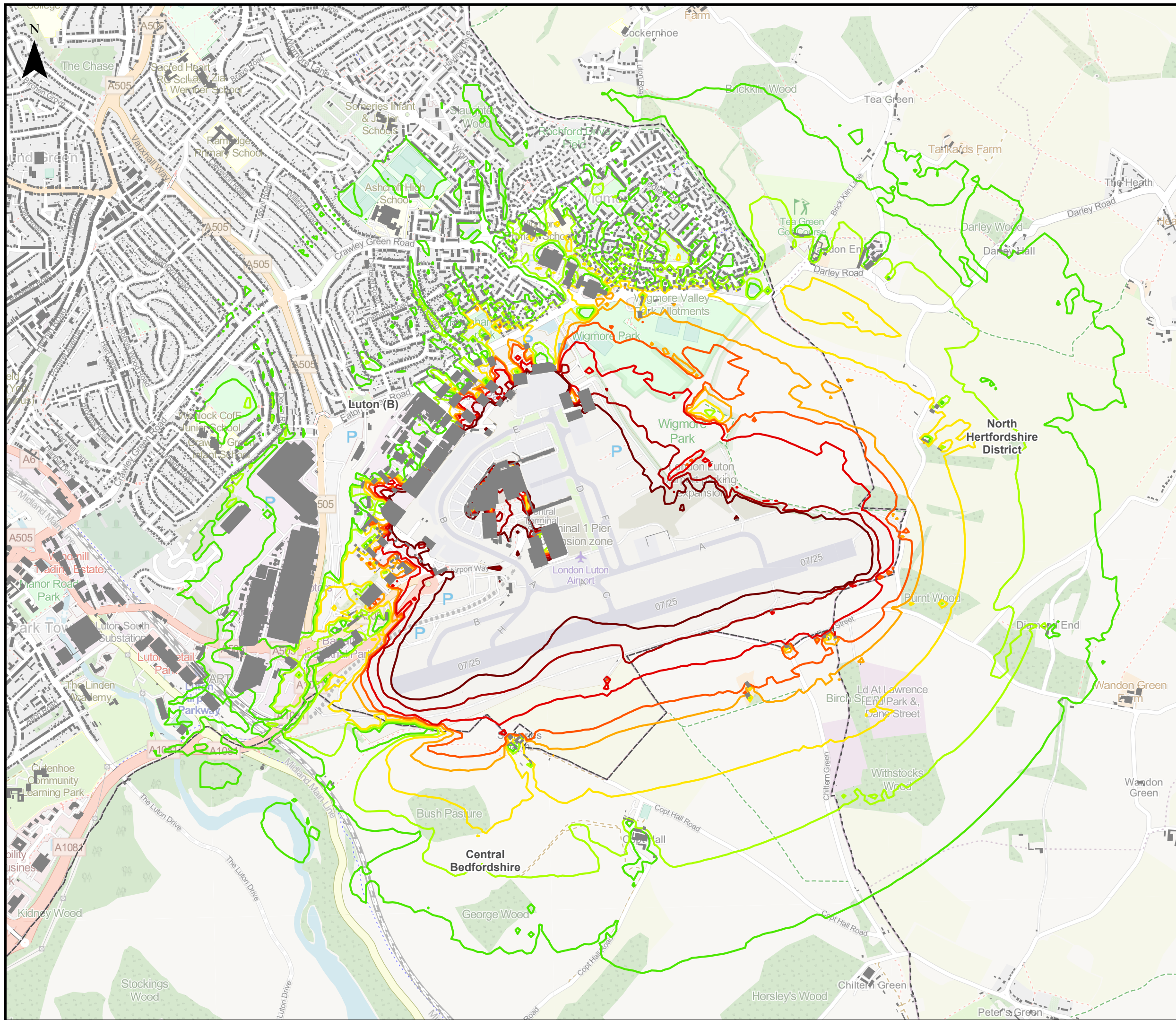
Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0027	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Building
- Ground Noise Contours in Decibels (dB) (2027 Do-Minimum Night-time LAeq,8h)**
- 45 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 48 dB
- 51 dB
- 54 dB
- 55 dB - Significant Observed Adverse Effect Level (SOAEL)
- 57 dB
- 60 dB
- 63 dB - Unacceptable Adverse Effect Level (UAEL)

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. 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 16.28**  
**Extent of 2027 Do-Minimum Night-time LAeq,8h Ground Noise Contours**

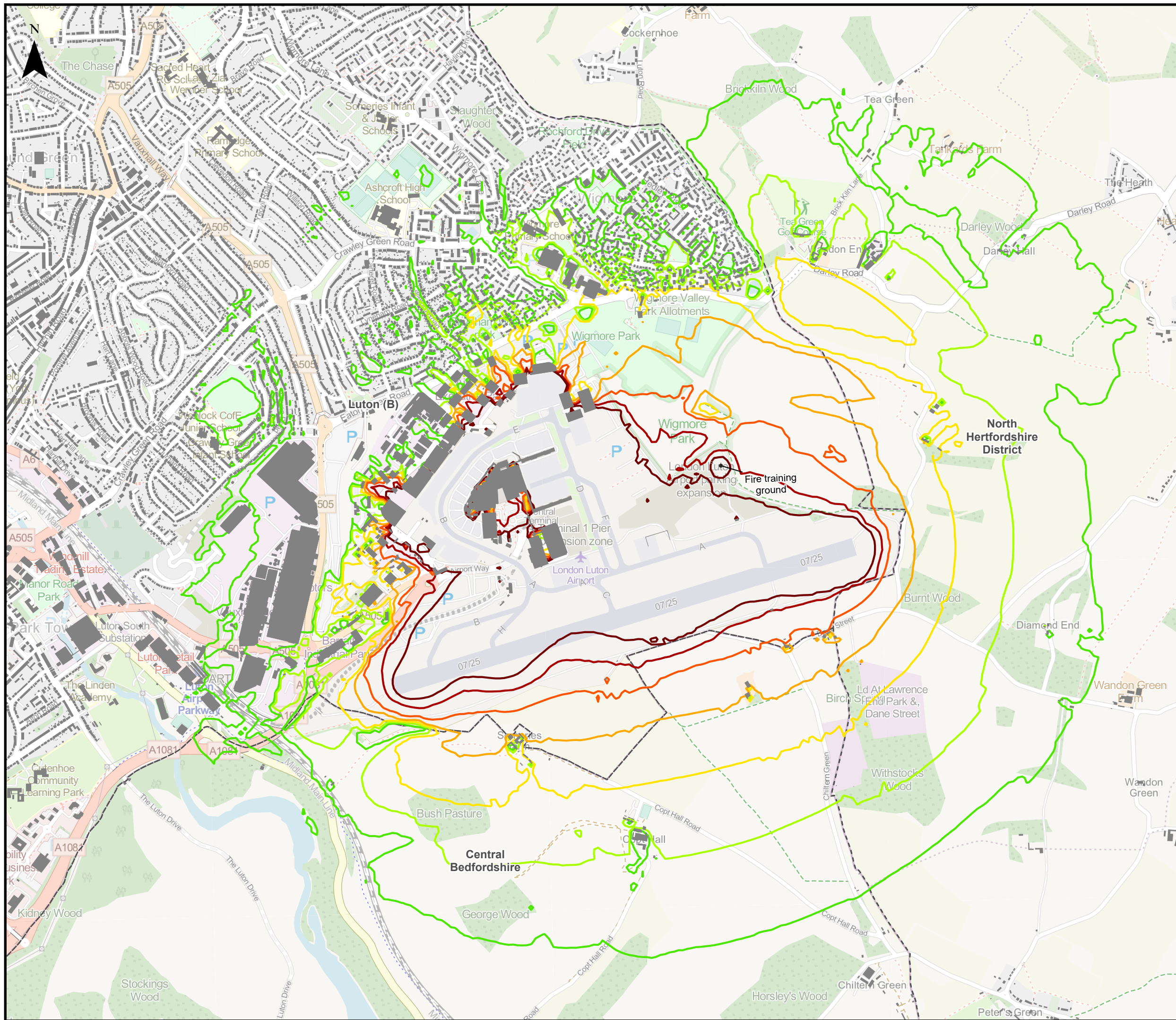
Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-0028	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Building
- Ground Noise Contours in Decibels (dB) (2027 Do-Something Daytime LAeq,16h)**
- 51 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 54 dB
- 57 dB
- 60 dB
- 63 dB - Significant Observed Adverse Effect Level (SOAEL)
- 66 dB
- 69 dB - Unacceptable Adverse Effect Level (UAEL)

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. 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 16.29**  
 Extent of 2027 Do-Something Daytime LAeq,16h Ground Noise Contours

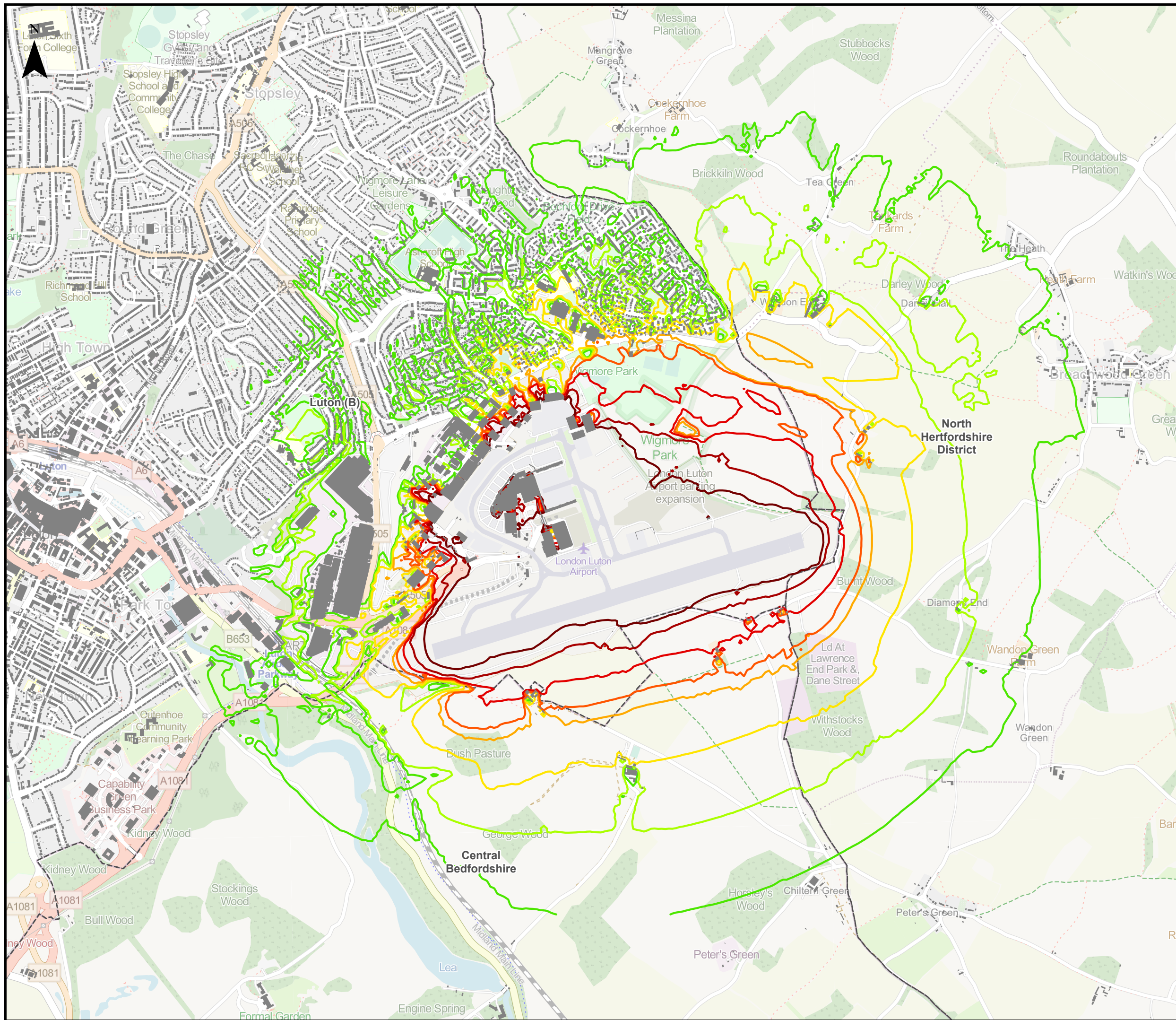
Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0029	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Building
- Ground Noise Contours in Decibels (dB) (2027 Do-Something Night-time LAeq,8h)**
- 45 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 48 dB
- 51 dB
- 54 dB
- 55 dB - Significant Observed Adverse Effect Level (SOAEL)
- 57 dB
- 60 dB
- 63 dB - Unacceptable Adverse Effect Level (UAEL)

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. 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 16.30**  
**Extent of 2027 Do-Something Night-time LAeq,8h Ground Noise Contours**

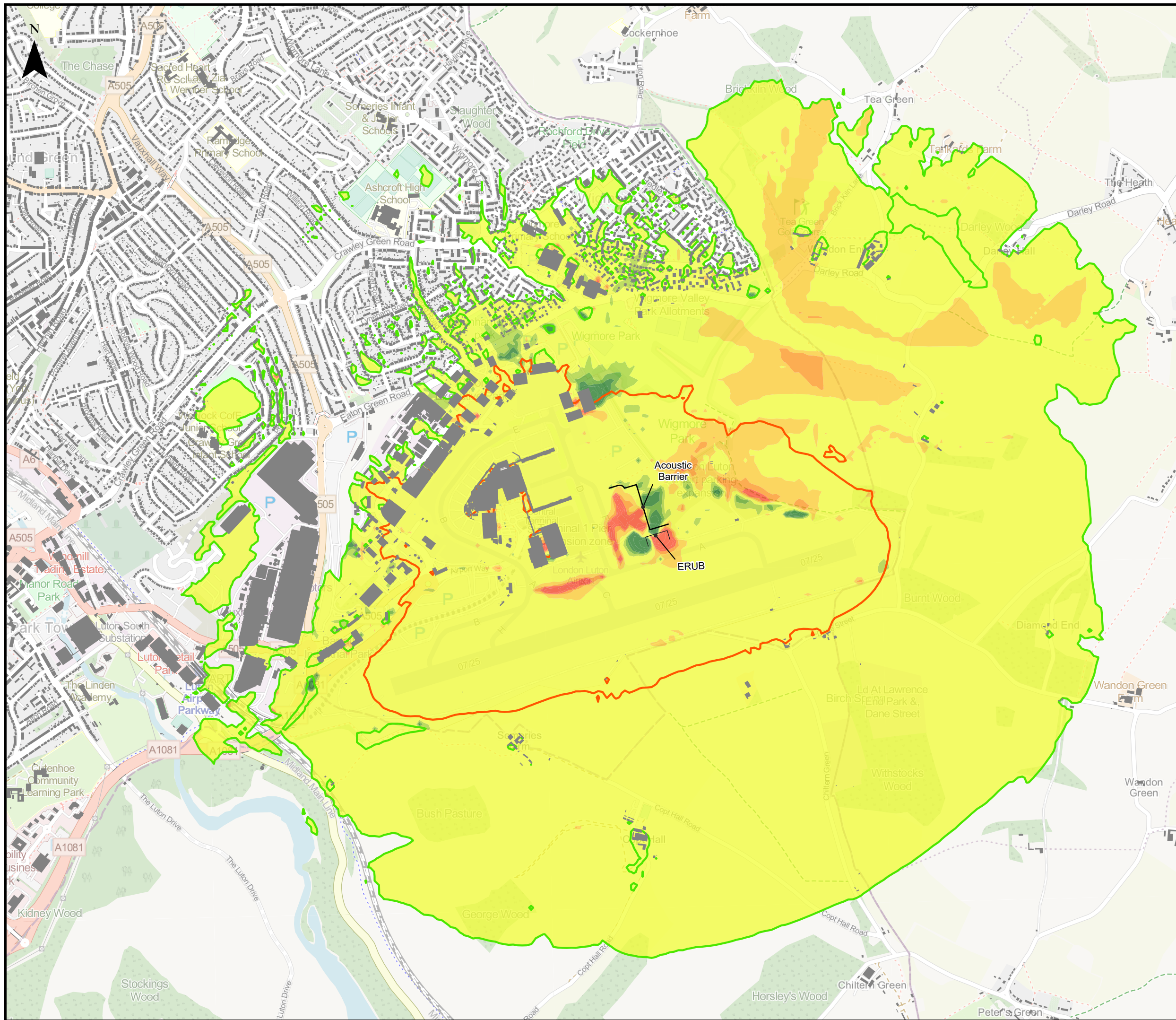
Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:20,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0030	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673  
 All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Building

**Change in 2027 Do-Something - Do-Minimum Daytime LAeq,16h Ground Noise Contours**

- 3.0 dB or more decrease
- 2.0 - 2.9 dB decrease
- 1.0 - 1.9 dB decrease
- 1.0 dB decrease - 1.0 dB increase
- 1.0 - 1.9 dB increase
- 2.0 - 2.9 dB increase
- 3.0 dB or more increase

**Ground Noise Contours in Decibels (dB) (2027 Do-Something Daytime LAeq,16h)**

- 51 dB - Lowest Observed Adverse Effect Level (LOAEL)
- 63 dB - Significant Observed Adverse Effect Level (SOAEL)

ERUB = Engine Run Up Bay

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. Our planet.

Luton Rising  
 Hart House Business Centre  
 Kimpton Road, Luton, LU2 0LA  
[www.lutonrising.org.uk](http://www.lutonrising.org.uk)

**London Luton Airport Expansion Development Consent Order**

Drawing Title **Figure 16.31**  
**Change in 2027 Do-Something - Do-Minimum Daytime LAeq,16h Ground Noise Contours**

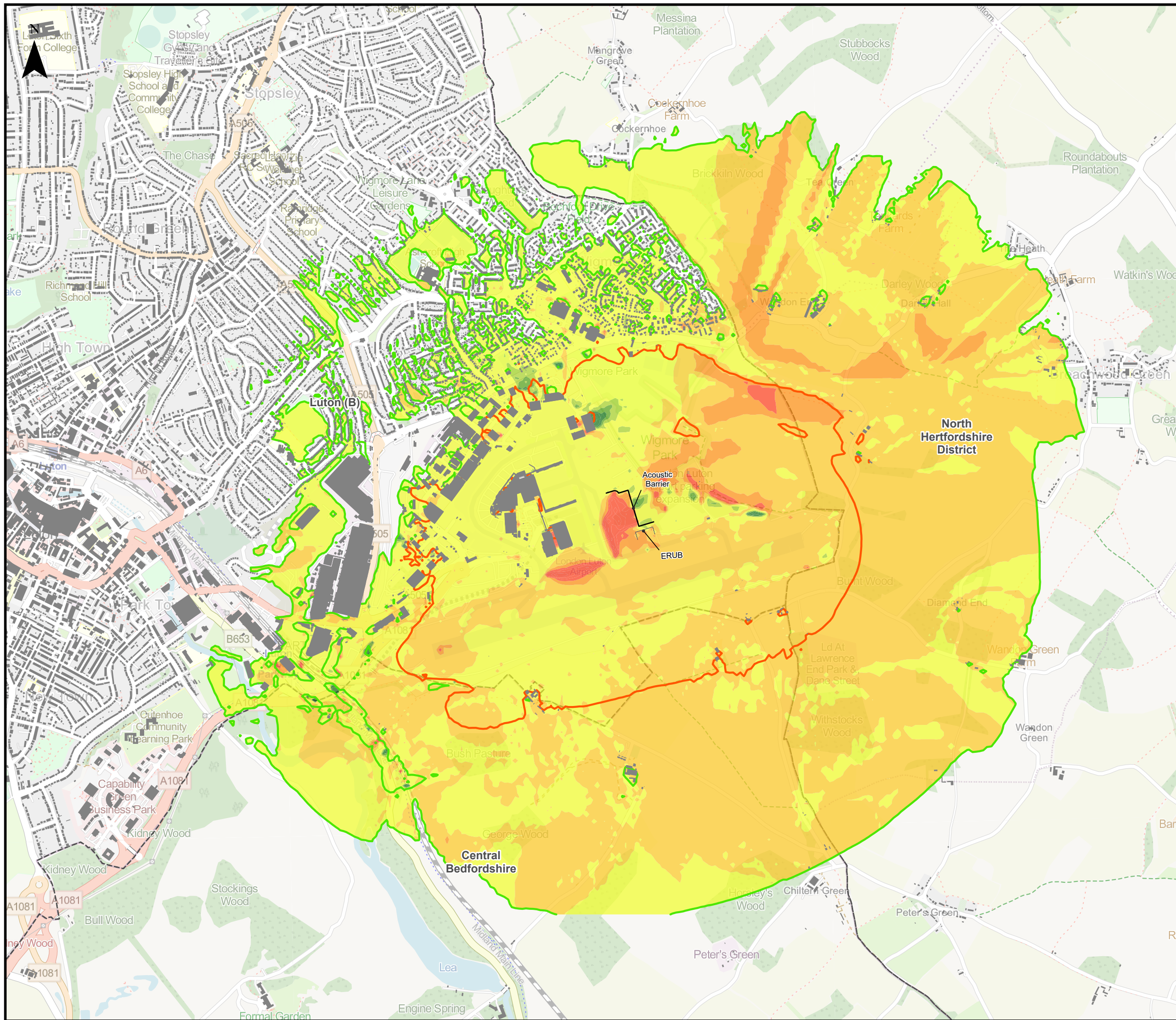
Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				<b>S2</b>		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:16,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0031	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
  - Building
- Change in 2027 Do-Something - Do-Minimum Night-time LAeq,8h Ground Noise Contours**
- 3.0 dB or more decrease
  - 2.0 - 2.9 dB decrease
  - 1.0 - 1.9 dB decrease
  - 1.0 dB decrease - 1.0 dB increase
  - 1.0 - 1.9 dB increase
  - 2.0 - 2.9 dB increase
  - 3.0 dB or more increase
- Ground Noise Contours in Decibels (dB) (2027 Do-Something Night-time LAeq,8h)**
- 45 dB - Lowest Observed Adverse Effect Level (LOAEL)
  - 55 dB - Significant Observed Adverse Effect Level (SOAEL)

ERUB = Engine Run Up Bay

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. 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 16.32**  
**Change in 2027 Do-Something - Do-Minimum Night-time LAeq,8h Ground Noise Contours**

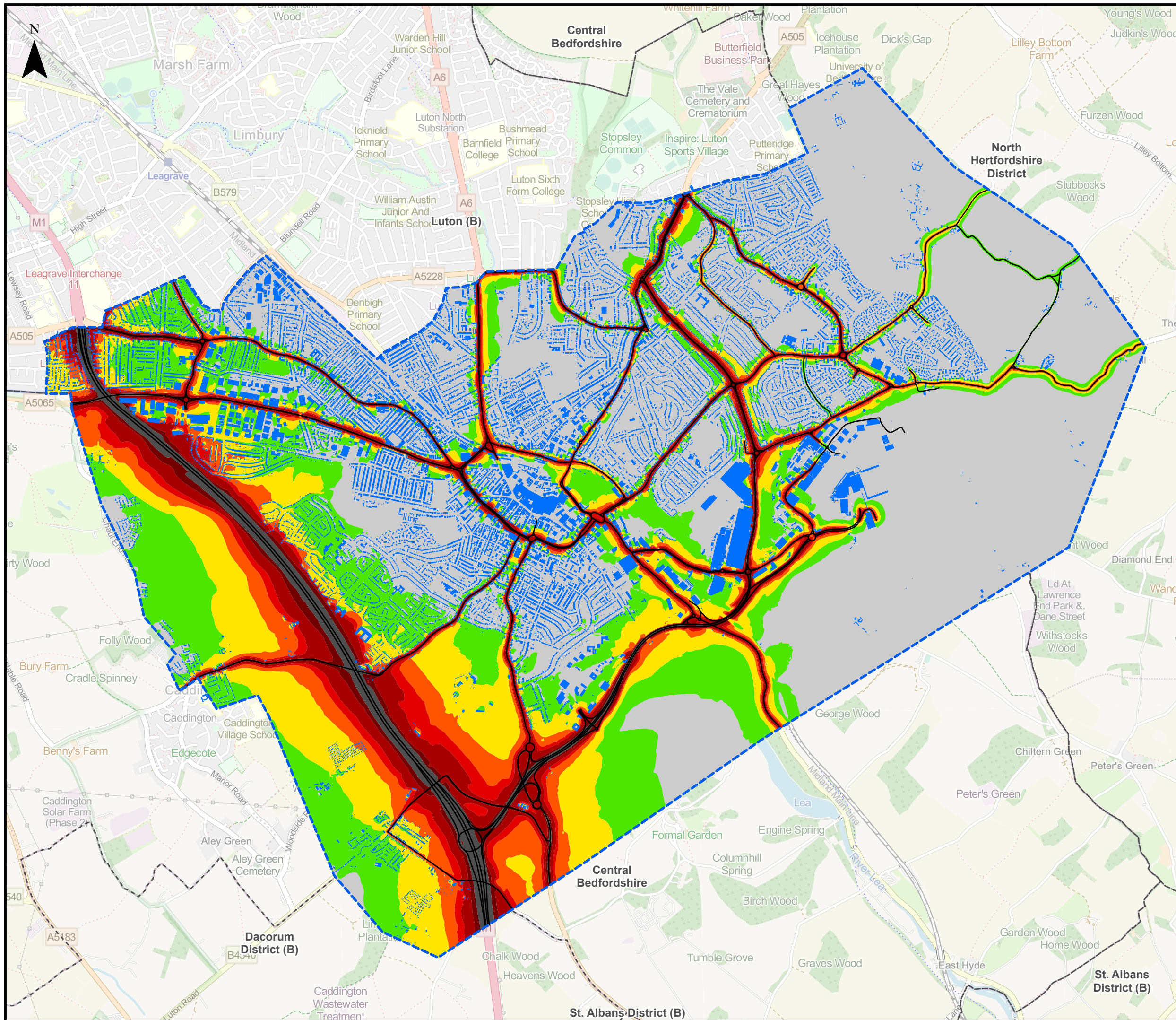
Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSh	CS	31/01/23	1:20,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0032	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundary
- Surface Access Noise Calculation Area
- Building
- Road

**Surface Access Noise Contours in Decibels (dB) (2027 Do-Minimum Daytime LAeq,16h at 4m free-field)**

- 13.73,50
- LOAEL - ≤ 55
- > 55 - ≤ 60
- > 60 - ≤ SOAEL
- > SOAEL - ≤ 65
- > 65 - ≤ 70
- > 70 - ≤ UAEL
- Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 50 dB  
 Significant Observed Adverse Effect Level (SOAEL) = 63 dB  
 Unacceptable Adverse Effect Level (UAEL) = 74 dB

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. 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 16.33**  
 Extent of 2027 Do-Minimum Daytime LAeq,16h Surface Access Noise Contours

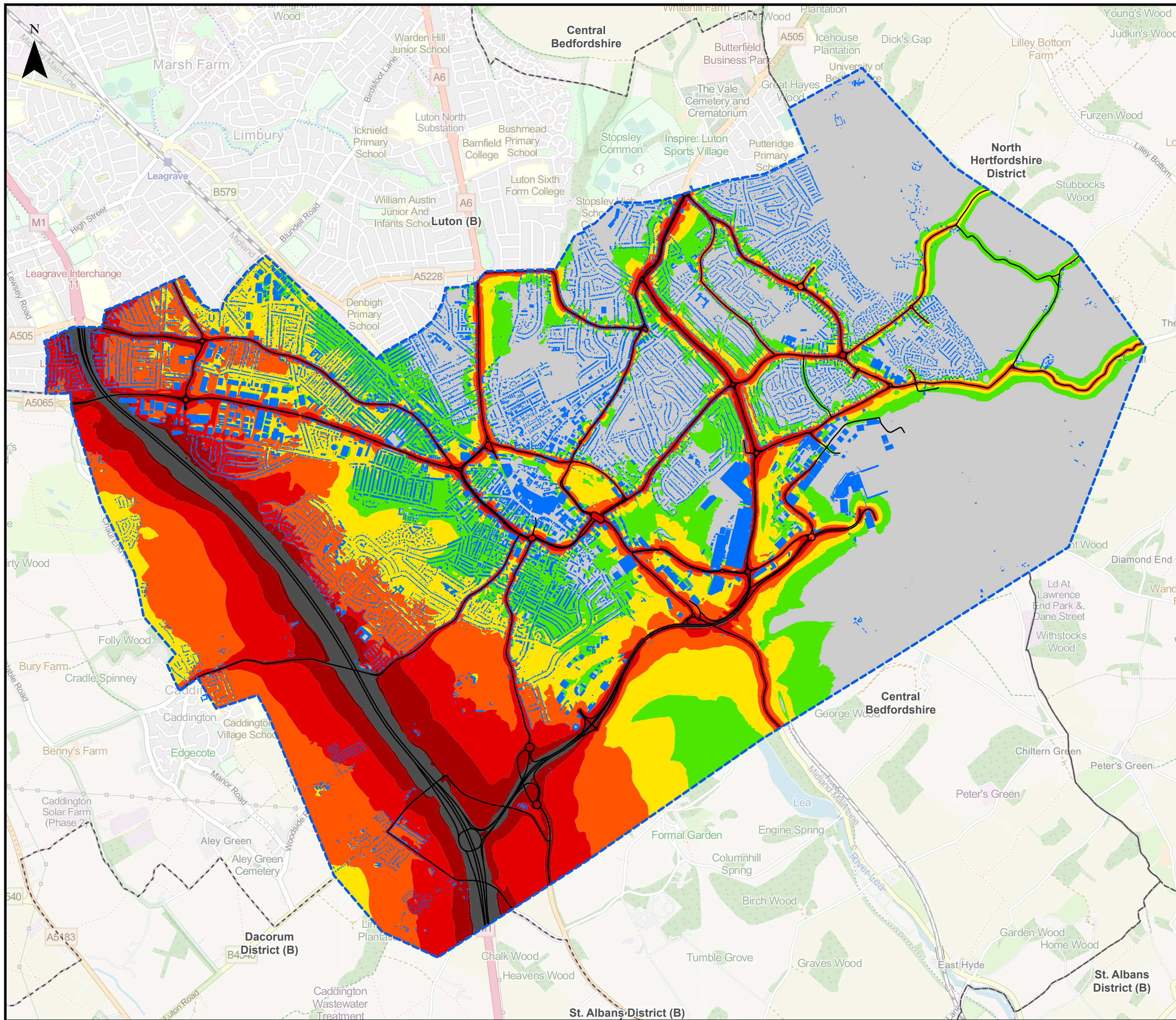
Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	31/01/23	1:30,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0033	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673  
 All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Surface Access Noise Calculation Area
- Building
- Road

**Surface Access Noise Contours in Decibels (dB) (2027 Do-Minimum Night-time LAeq,8h at 4m free-field)**

- Below LOAEL
- LOAEL - ≤ 45
- > 45 - ≤ 50
- > 50 - ≤ SOAEL
- > 55 - ≤ 60
- > 60 - ≤ 65
- > 65 - ≤ UAEL
- Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 40 dB  
 Significant Observed Adverse Effect Level (SOAEL) = 55 dB  
 Unacceptable Adverse Effect Level (UAEL) = 66 dB

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. Our planet.

Luton Rising  
 Hart House Business Centre  
 Kimpton Road, Luton, LU2 0LA  
 www.lutonrising.org.uk

**London Luton Airport Expansion  
 Development Consent Order**

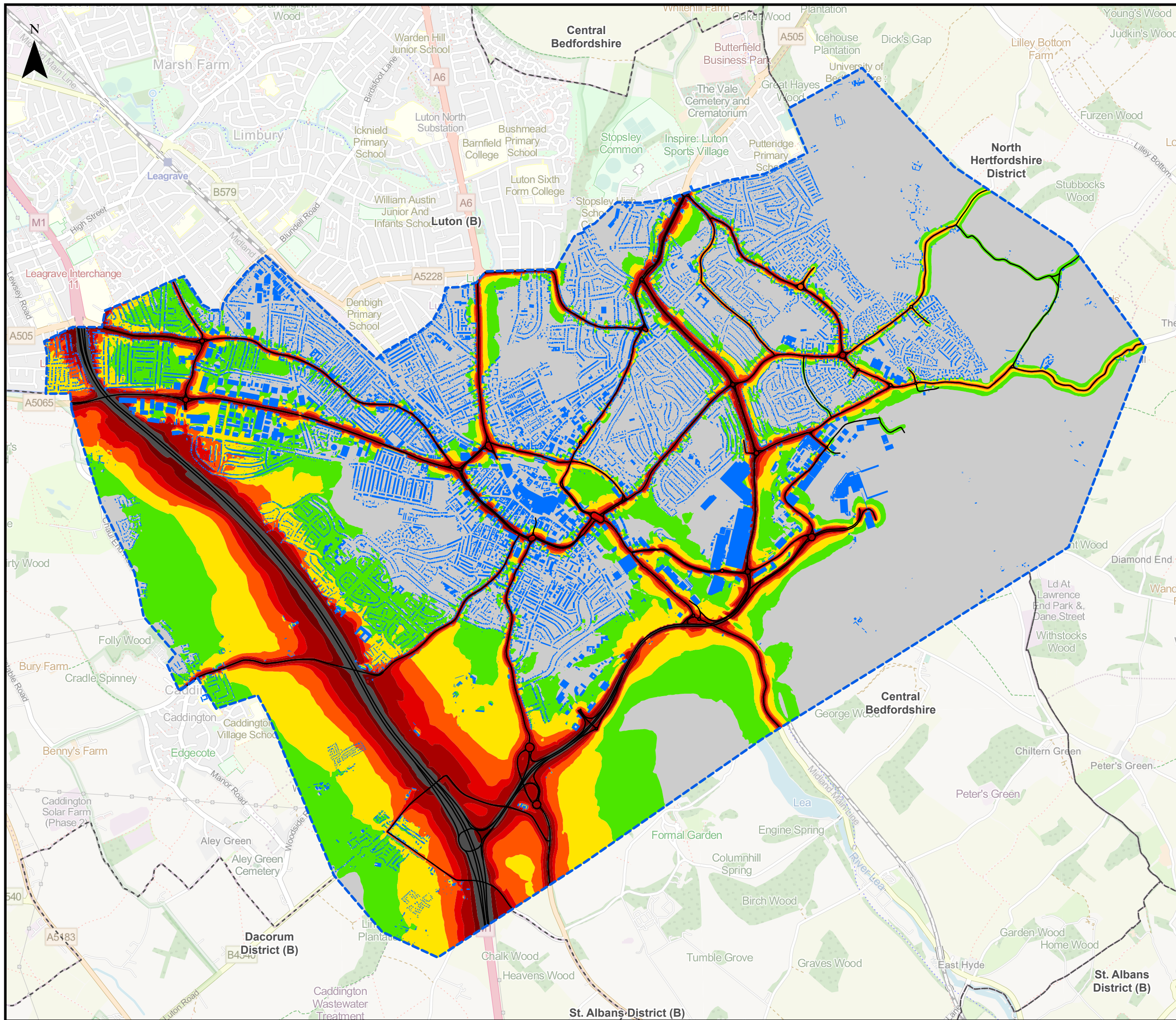
Drawing Title Figure 16.34  
 Extent of 2027 Do-Minimum Night-time LAeq,8h  
 Surface Access Noise Contours

Purpose of issue				Suitability		
SUITABLE FOR INFORMATION				S2		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSH	CS	31/01/23	1:30,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0034	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Surface Access Noise Calculation Area
- Road
- Building

**Surface Access Noise Contours in Decibels (dB) (2027 Do-Something Daytime LAeq,16h at 4m free-field)**

- 13.77,50
- LOAEL - ≤ 55
- > 55 - ≤ 60
- > 60 - ≤ SOAEL
- > SOAEL - ≤ 65
- > 65 - ≤ 70
- > 70 - ≤ UAEL
- Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 50 dB  
 Significant Observed Adverse Effect Level (SOAEL) = 63 dB  
 Unacceptable Adverse Effect Level (UAEL) = 74 dB

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. 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 16.35**  
 Extent of 2027 Do-Something Daytime LAeq,16h Surface Access Noise Contours

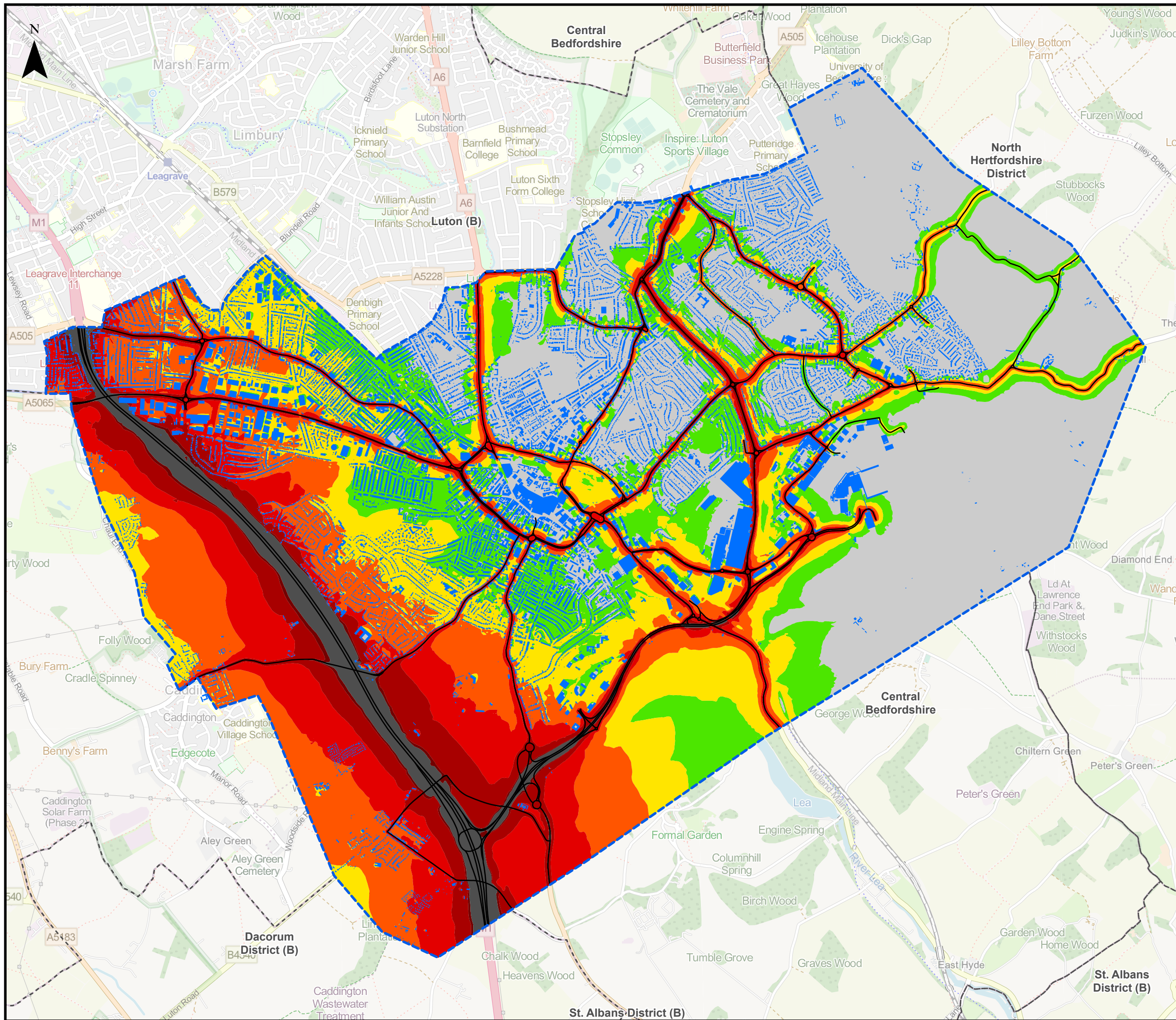
Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	31/01/23	1:30,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0035	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Surface Access Noise Calculation Area
- Building
- Road

**Surface Access Noise Contours (2027 Do-Something Night-time LAeq, dB at 4m free-field)**

- Below LOAEL
- LOAEL - <= 45
- > 45 - <= 50
- > 50 - <= SOAEL
- > 55 - <= 60
- > 60 - <= 65
- > 65 - <= UAEL
- Above UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 40 dB  
 Significant Observed Adverse Effect Level (SOAEL) = 55 dB  
 Unacceptable Adverse Effect Level (UAEL) = 66 dB

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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

**London Luton Airport Expansion Development Consent Order**

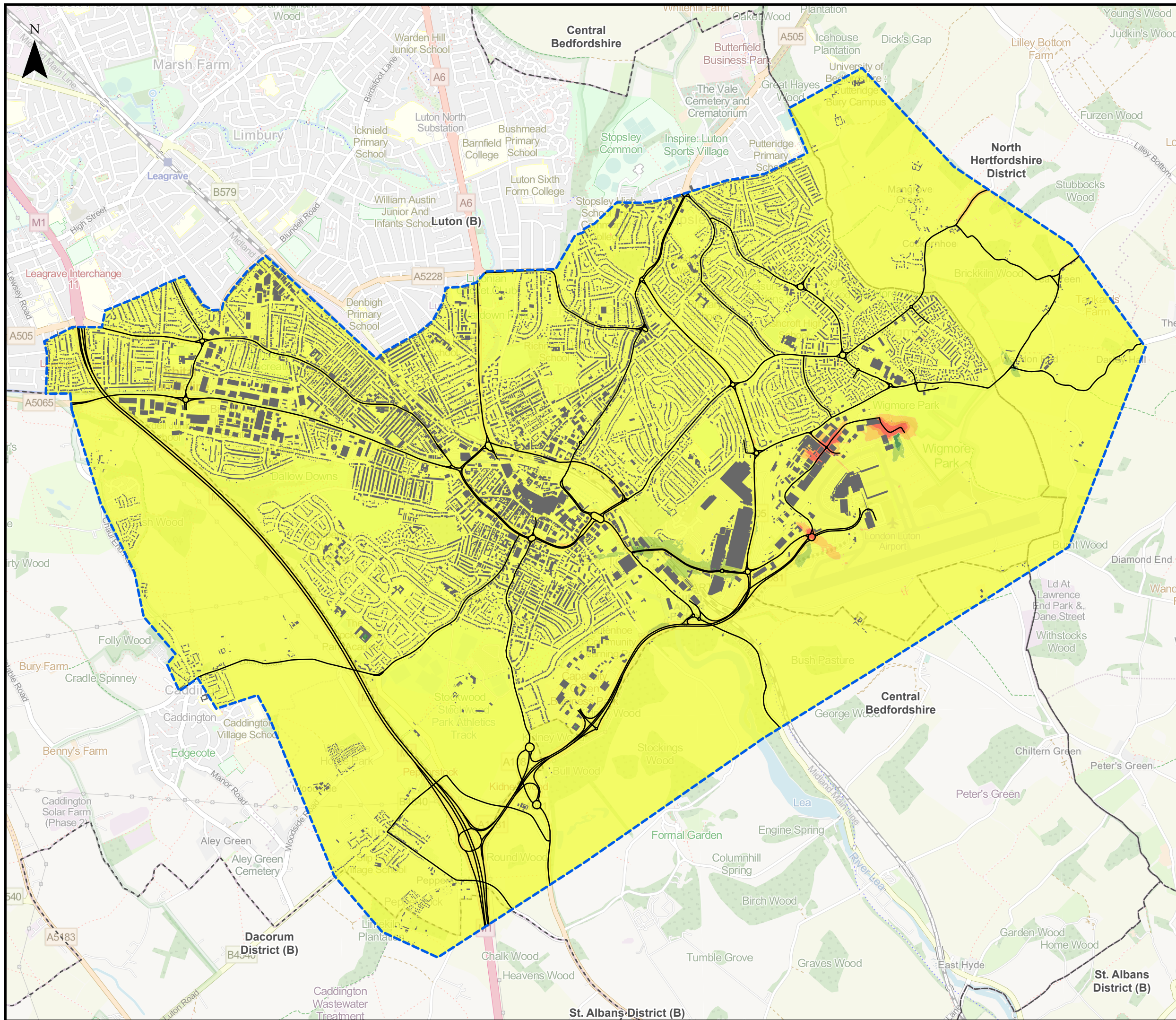
Drawing Title: Figure 16.36  
 Extent of 2027 Do-Something Night-time LAeq,8h Surface Access Noise Contours

Purpose of issue				Suitability	
SUITABLE FOR INFORMATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	31/01/23	1:30,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0036	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

- Legend**
- Local Authority Boundaries
  - Surface Access Noise Calculation Area
  - Building
  - Road

**Change in Decibels (dB) in 2027 Do-Something and Do-Minimum Daytime LAeq,16h Surface Access Noise Contours**

- Noise Decrease**
- 5.0 dB or more
  - 3.0 to 4.9 dB
  - 1.0 - 2.9 dB
  - 0.1 - 0.9 dB
- Noise Increase**
- 0.1 - 0.9 dB
  - 1.0 - 2.9 dB
  - 3.0 - 4.9 dB
  - 5.0 dB or more

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. 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 16.37**  
**Change in 2027 Do-Something - Do-Minimum Daytime LAeq,16h Surface Access Noise Contours**

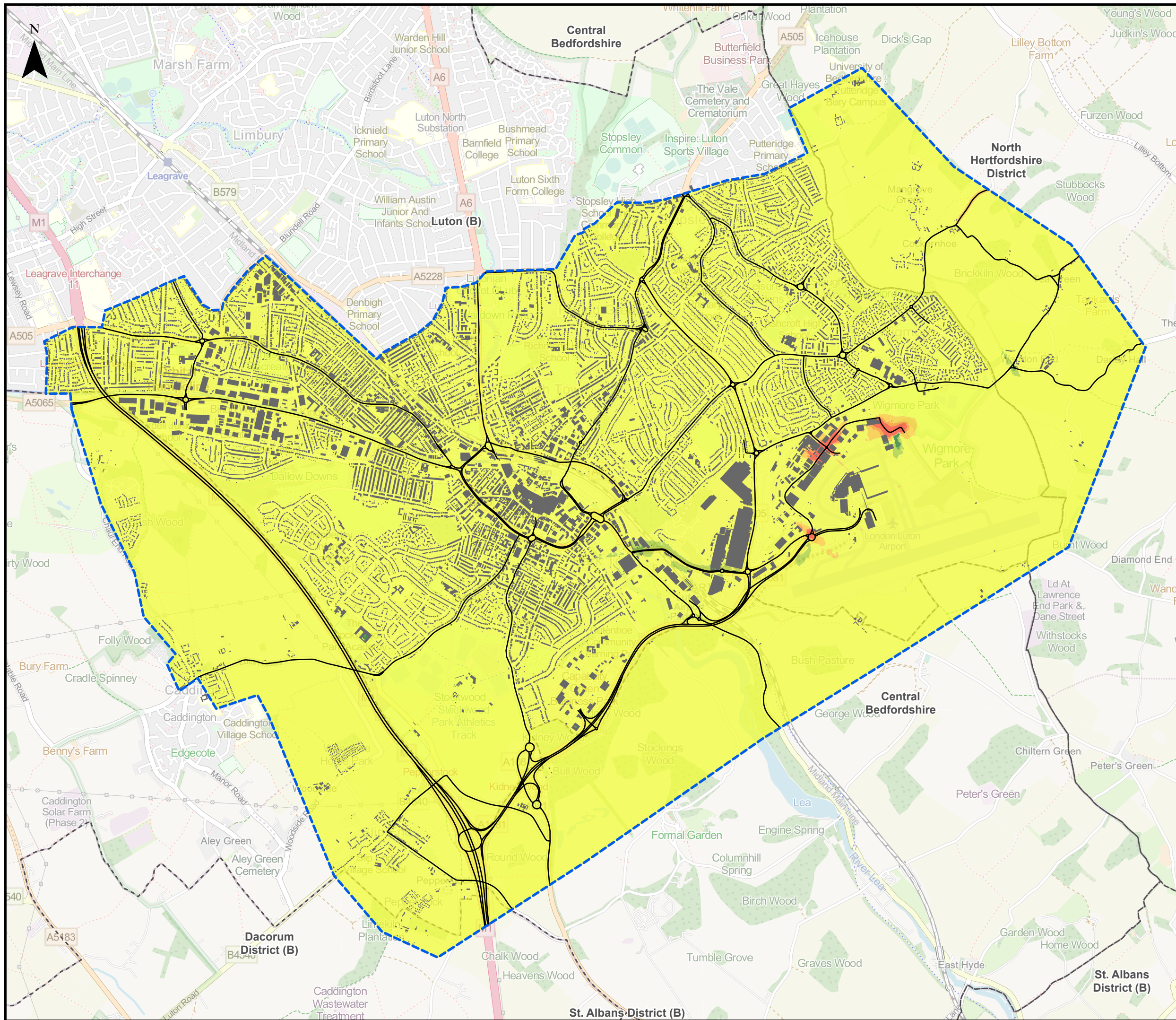
Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				<b>S2</b>		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CSH	CS	31/01/23	1:30,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0037	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Surface Access Noise Calculation Area
- Building
- Road

**Change in Decibels (dB) in 2027 Do-Something and Do-Minimum Night-time LAeq,8h Surface Access Noise Contours**

**Noise Decrease**

- 5.0 dB or more
- 3.0 to 4.9 dB
- 1.0 - 2.9 dB
- 0.1 - 0.9 dB

**Noise Increase**

- 0.1 - 0.9 dB
- 1.0 - 2.9 dB
- 3.0 - 4.9 dB
- 5.0 dB or more

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CS	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

Luton Rising  
Our airport. Our community. 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 16.38**  
**Change in 2027 Do-Something - Do-Minimum Night-time LAeq,8h Surface Access Noise Contours**

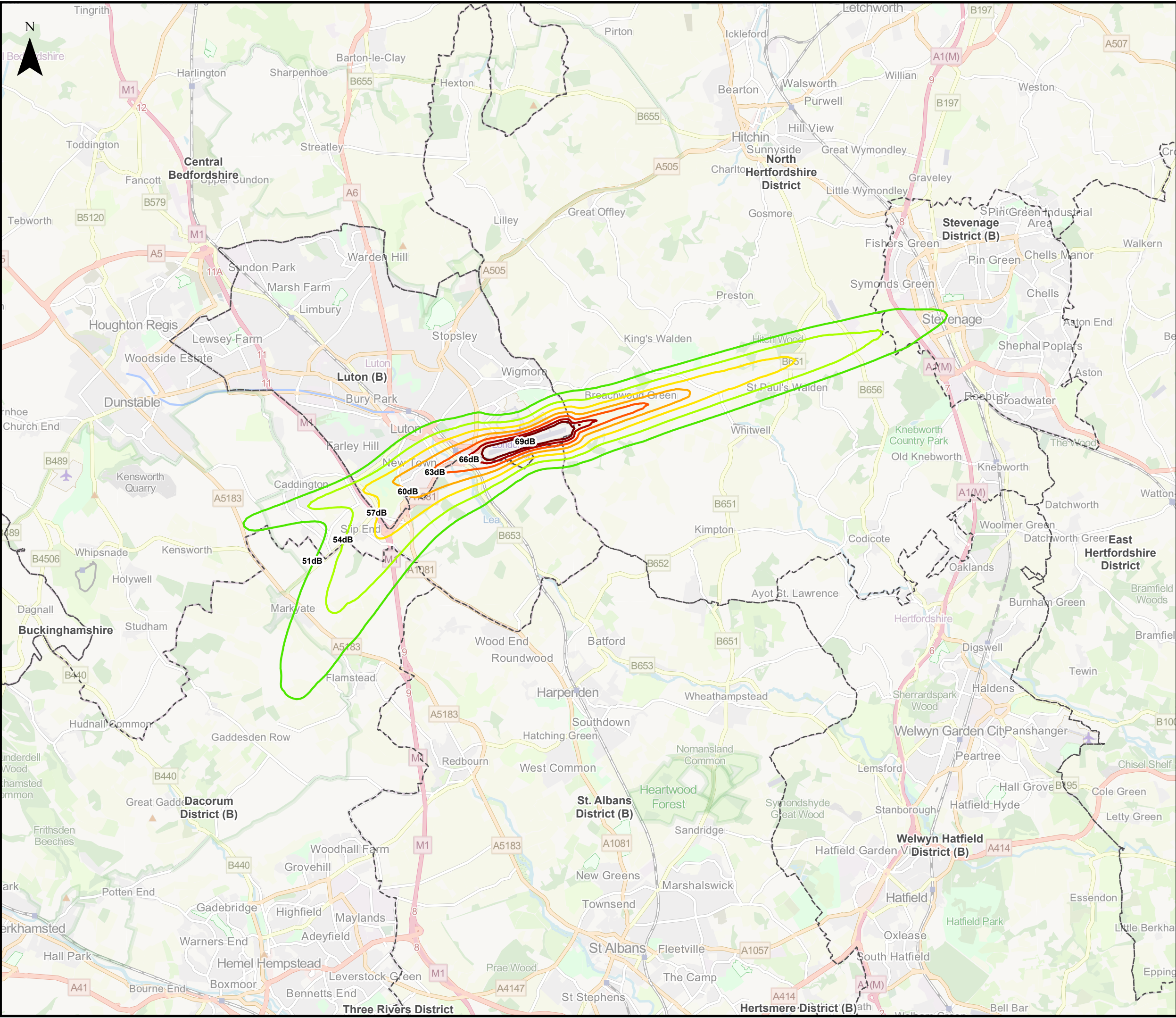
Purpose of issue				Suitability		
<b>SUITABLE FOR INFORMATION</b>				<b>S2</b>		
Drawn	Checked	Approved	Date	Scale	Size	
LP	CS	CS	31/01/23	1:30,000	A3	

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0038	P01

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





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673  
 All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2039 Do-Minimum Daytime LAeq,16h)**
- 51dB - Lowest Observed Adverse Effect Level (LOAEL)
- 54dB
- 57dB
- 60dB
- 63dB - Significant Observed Adverse Effect Level (SOAEL)
- 66dB
- 69dB - Unacceptable Adverse Effect Level (UAEL)

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CS	CS	31/02/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. Our planet.

Luton Rising  
 Hart House Business Centre  
 Kimpton Road, Luton, LU2 0LA  
 www.lutonrising.org.uk

**London Luton Airport Expansion Development Consent Order**

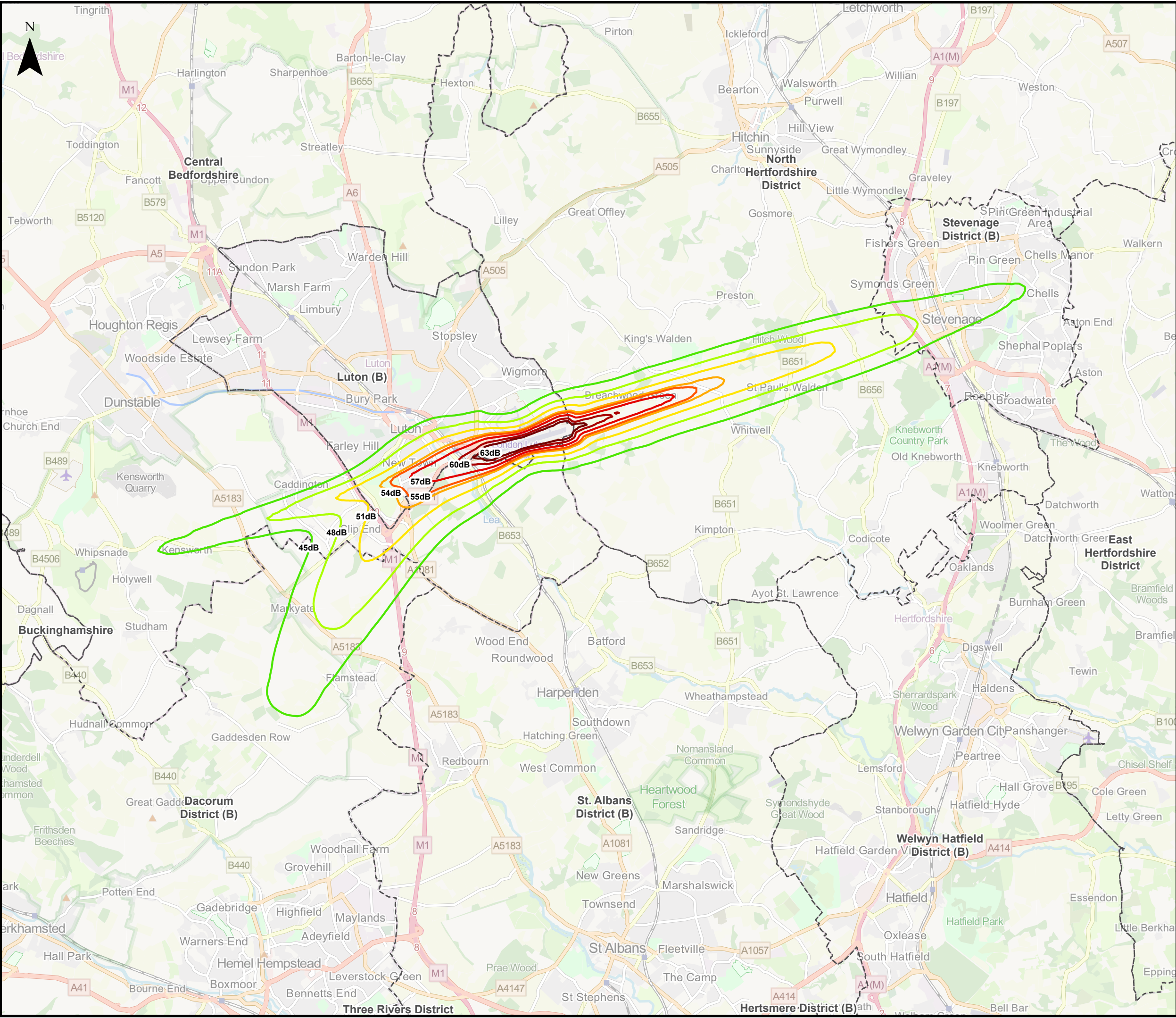
Drawing Title: **Figure 16.39**  
 Extent of 2039 Do-Minimum Daytime LAeq,16h Air Noise Contours

Purpose of issue				Suitability	
<b>SUITABLE FOR INFORMATION</b>				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CS	CS	31/01/23	1:95,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0039	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type - Discp. - Number	





This drawing may contain mapping by permission of Ordnance Survey on behalf of HMSO © Crown Copyright and database rights 2022 Ordnance Survey 0100031673

All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

**Legend**

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2039 Do-Minimum Night-time LAeq,8h)**
  - 45dB - Lowest Observed Adverse Effect Level (LOAEL)
  - 48dB
  - 51dB
  - 54dB
  - 55dB - Significant Observed Adverse Effect Level (SOAEL)
  - 57dB
  - 60dB
  - 63dB - Unacceptable Adverse Effect Level (UAEL)

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri. Contains Ordnance Survey Data © Crown Copyright and database right 2022.

First Issue	LP	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

**Luton Rising** Our airport. Our community. 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 16.40**  
**Extent of 2039 Do-Minimum Night-time LAeq,8h Air Noise Contours**

Purpose of issue				Suitability	
<b>SUITABLE FOR INFORMATION</b>				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	31/01/23	1:95,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0040	P01
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	