

June 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 16.11 - 16.16

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

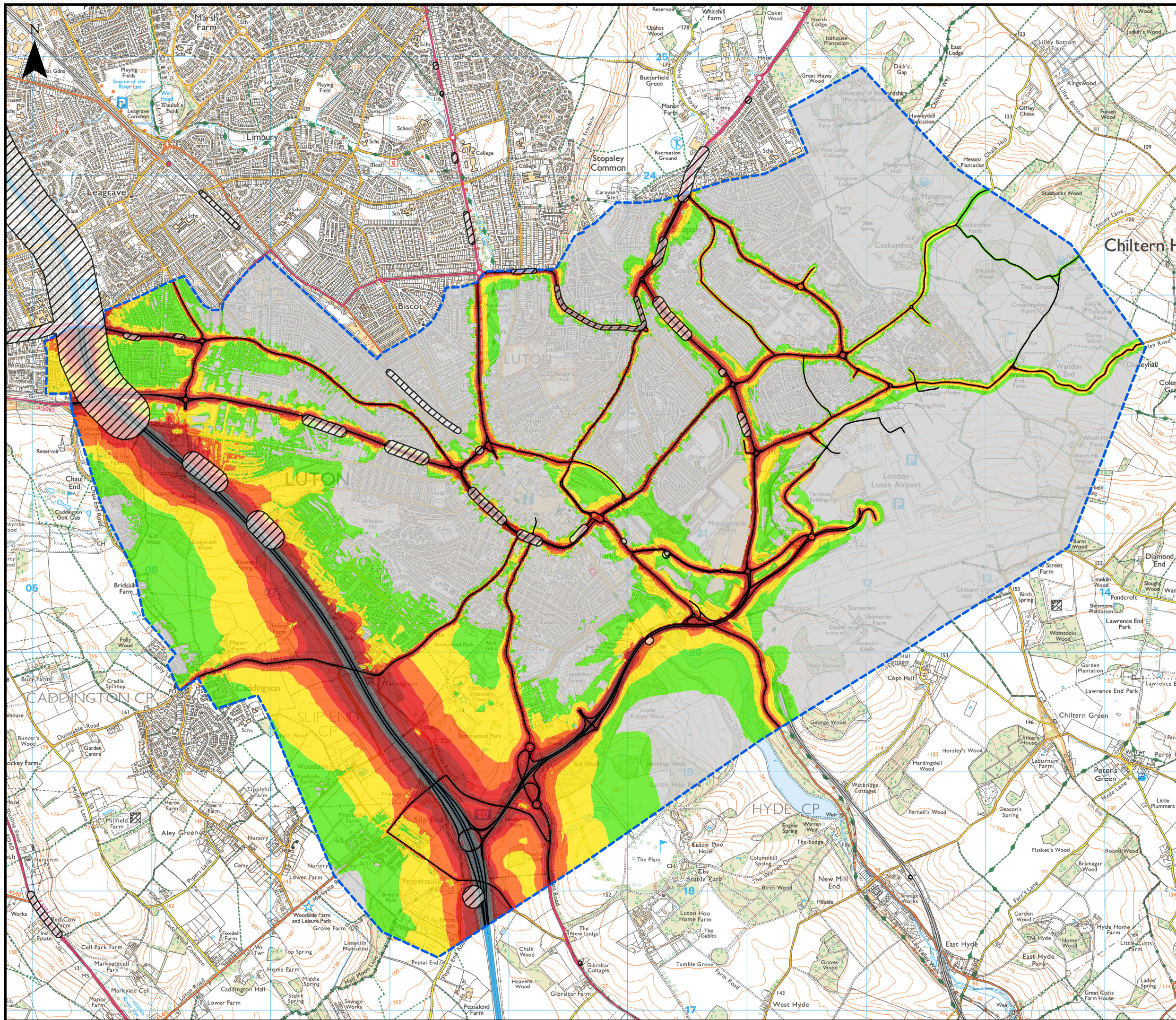
5.03 ENVIRONMENTAL STATEMENT CHAPTER 16 NOISE AND VIBRATION FIGURES 16.11 – 16.16

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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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 Traffic Noise Important Area
- Road

Surface Access Noise Contours in Decibels (dB) (2016 Baseline Daytime LAeq,16h at 4m free-field)

- Below LOAEL
- 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

Additional submissions (updated in response to Rule 9 letter)	LP	CSH	CS	22/06/23	P02
First Issue	LP	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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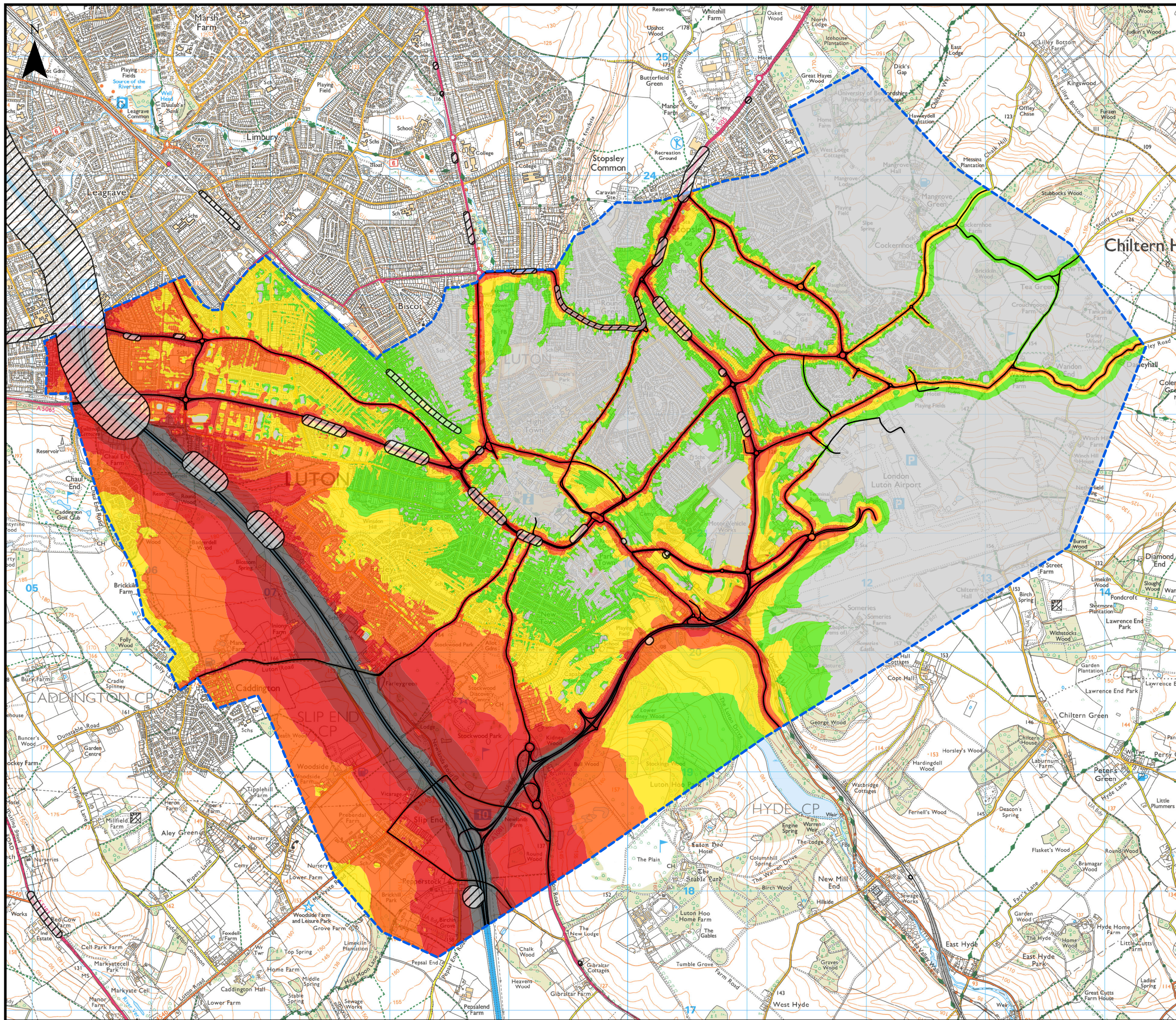
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Drawing Title
 Figure 16.11
 Extent of 2016 Daytime LAeq,16h
 Surface Access Noise Contours

Purpose of issue	Additional submissions (updated in response to Rule 9 letter)				Suitability
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	22/06/23	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-0011	P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	



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Legend

- Local Authority Boundaries
- Surface Access Noise Calculation Area
- Road Traffic Noise Important Area

Surface Access Noise Contours in Decibels (dB) (2016 Baseline 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

Additional submissions (updated in response to Rule 9 letter)	LP	CS	CS	22/06/23	P02
First Issue	LP	CS	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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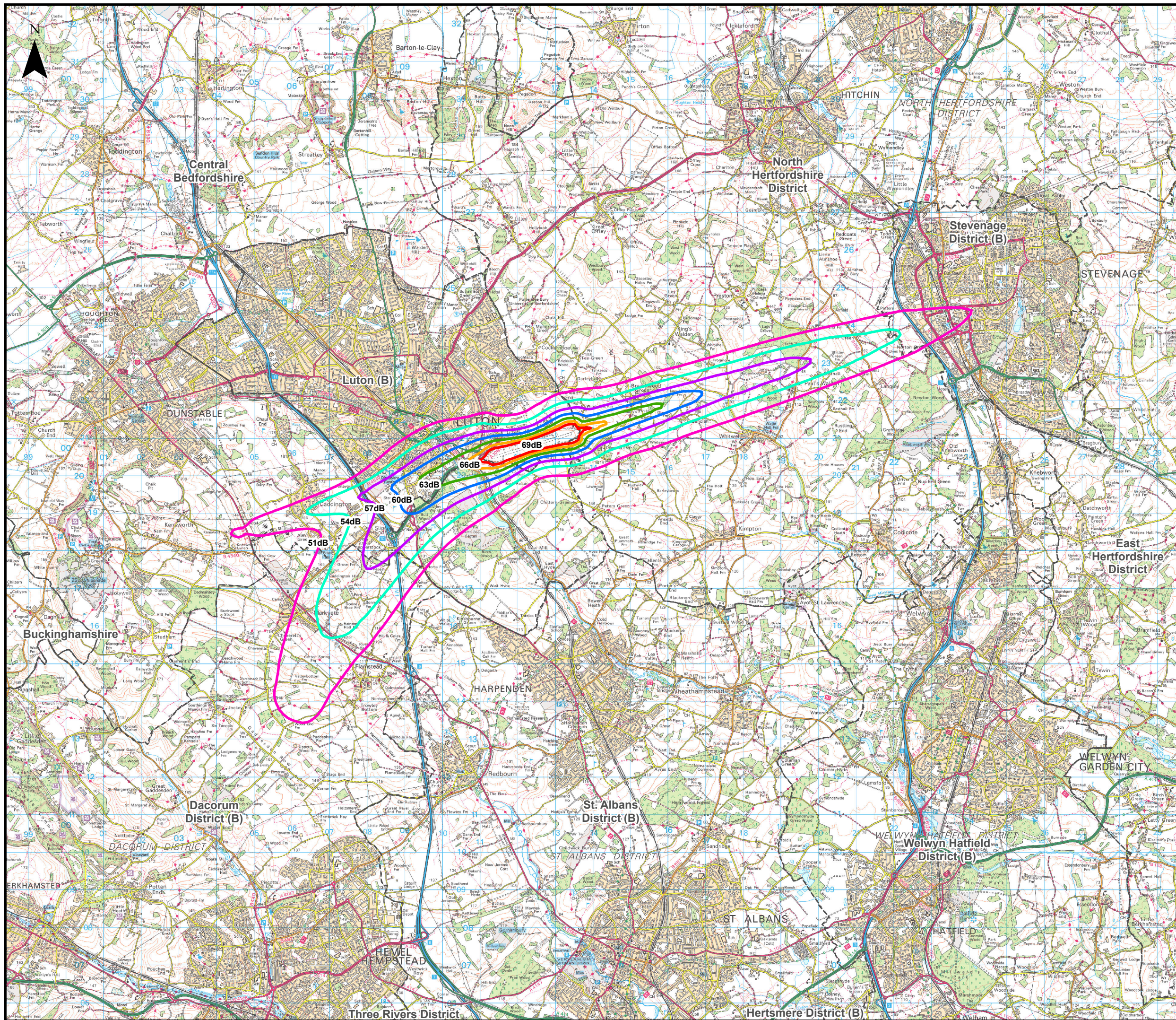
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Drawing Title
**Figure 16.12
 Extent of 2016 Night-time LAeq,8h
 Surface Access Noise Contours**

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CS	CS	22/06/23	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-0012	P02
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Legend

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2027 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)

Additional submissions (updated in response to Rule 9 letter)	LP	CS	CS	20/06/23	P02
First Issue	LP	CS	CS	31/01/23	P01
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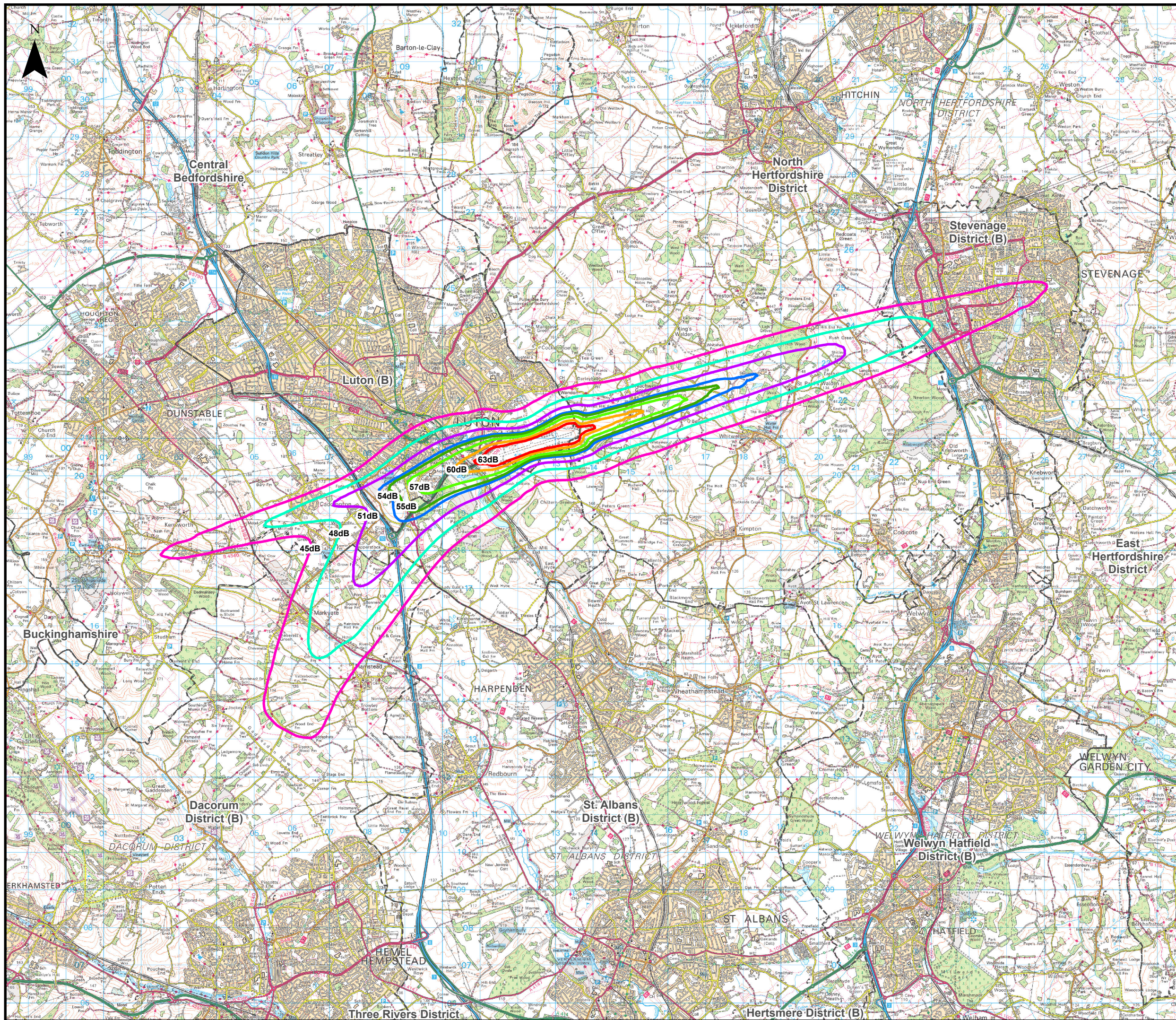
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Drawing Title **Figure 16.13**
Extent of 2027 Do-Minimum Daytime LAeq,16h Air Noise Contours

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CS	CS	20/06/23	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-0013	P02
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Legend

- Local Authority Boundaries
- Air Noise Contours in Decibels (dB) (2027 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)

Additional submissions (updated in response to Rule 9 letter)	LP	CSH	CS	20/06/23	P02
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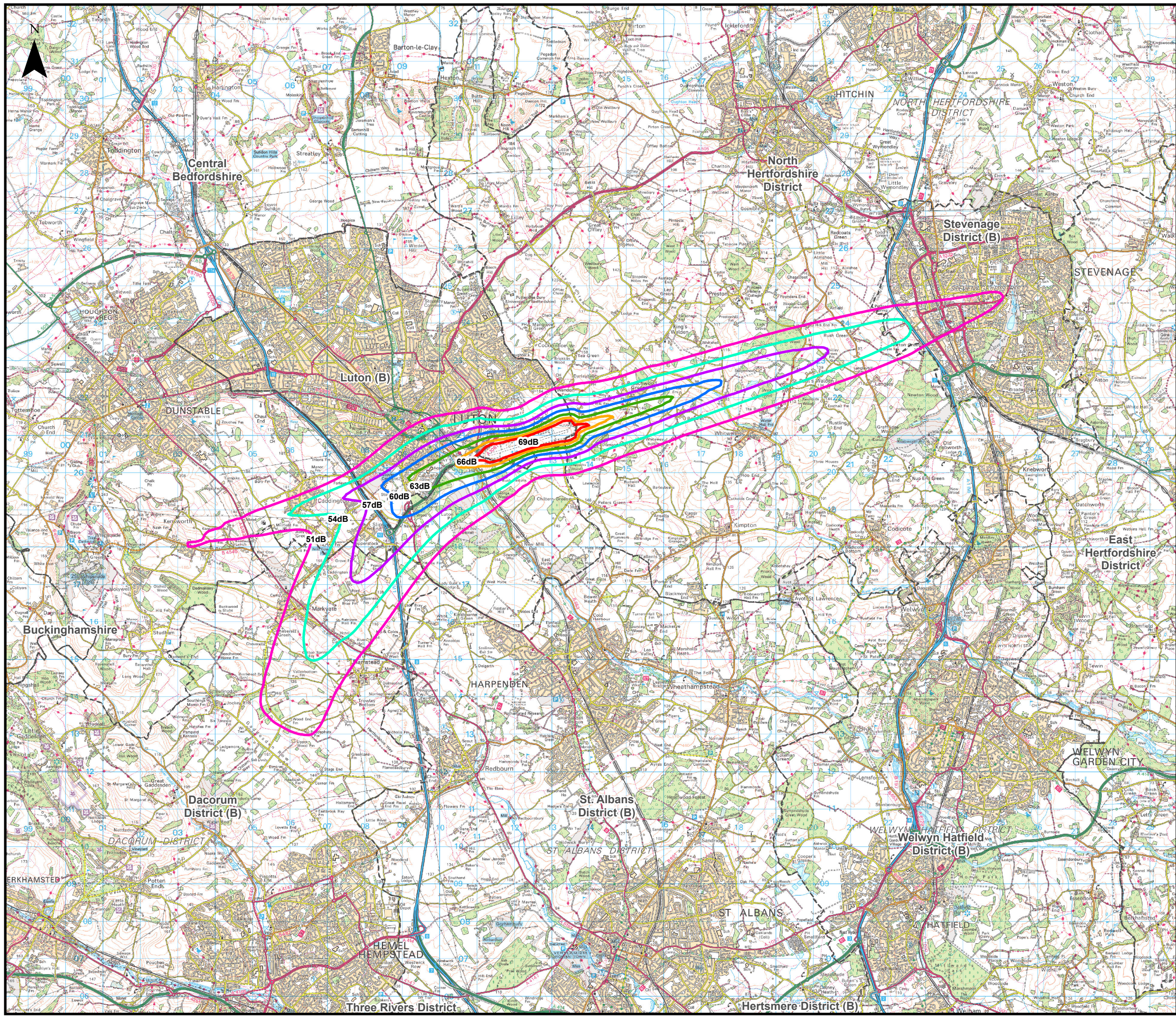
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Drawing Title **Figure 16.14**
Extent of 2027 Do-Minimum Night-time LAeq,8h Air Noise Contours

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSH	CS	20/06/23	1:95,000	A3

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

Drawing Number	Revision
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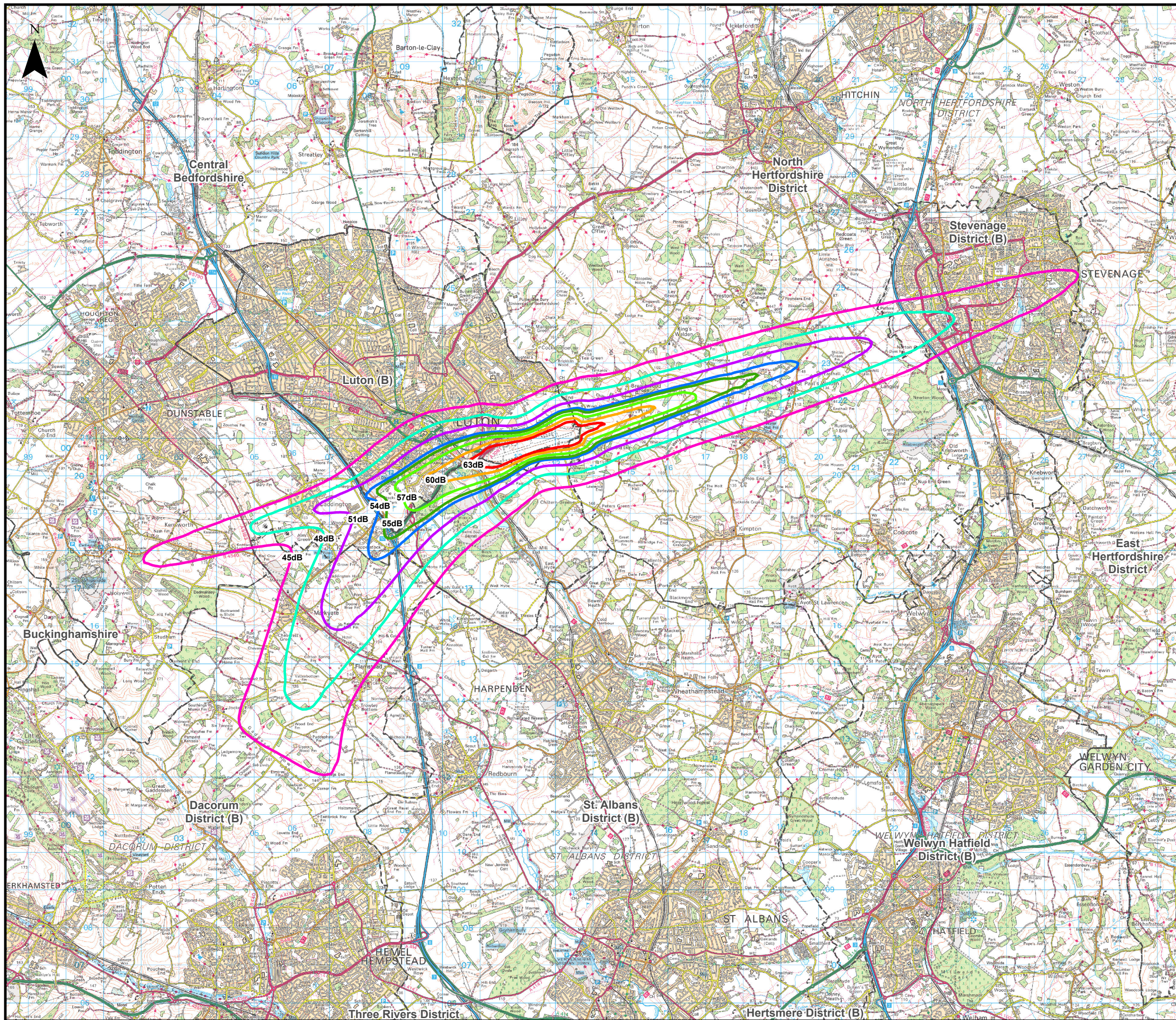
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Drawing Title
Figure 16.15
Extent of 2027 Do-Something Daytime LAeq,16h
Air Noise Contours

Purpose of issue	Additional submissions (updated in response to Rule 9 letter)				Suitability
Drawn	Checked	Approved	Date	Scale	Size
LP	CS	CS	20/06/23	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-0015	P02
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- 60dB
- 63dB - Unacceptable Adverse Effect Level (UAEL)

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Drawing Title: **Figure 16.16**
Extent of 2027 Do-Something Night-time LAeq,8h Air Noise Contours

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Drawn	Checked	Approved	Date	Scale	Size
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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-0016	P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	