



# Gatwick Airport Northern Runway Project

Environmental Statement  
Noise and Vibration Figures - Part 3

**Book 5**

VERSION: 1.0

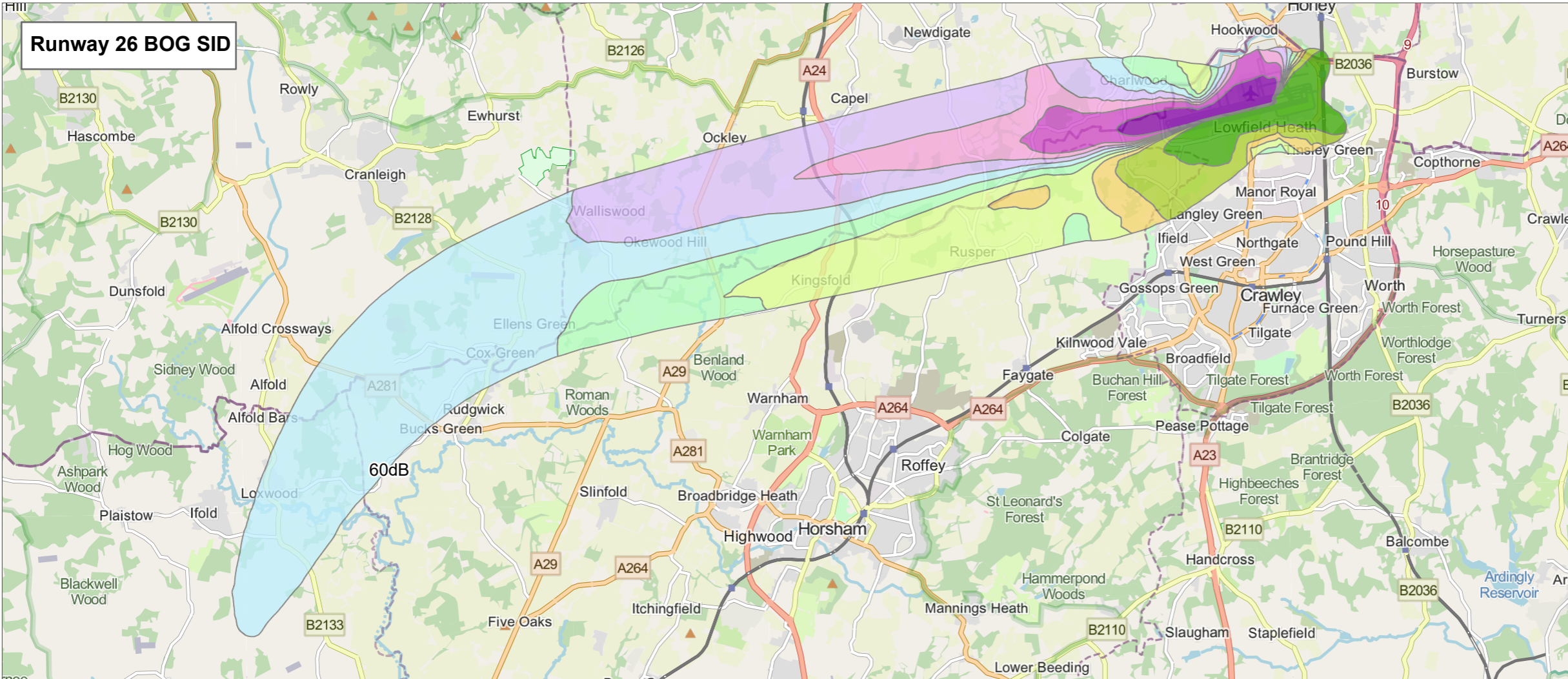
DATE: JULY 2023

Application Document Ref: 5.2

PINS Reference Number: TR020005



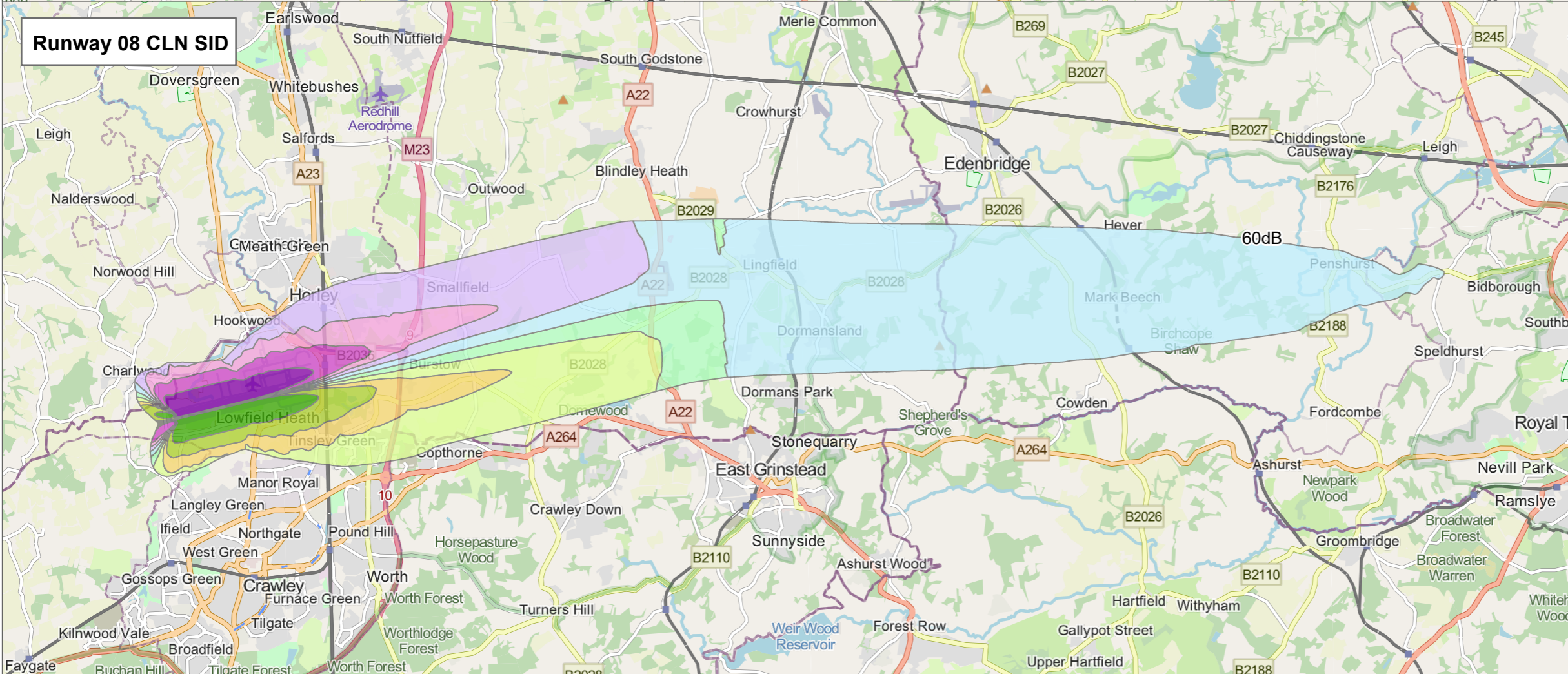
**Runway 26 BOG SID**



**KEY**

<span style="color: green;">■</span>	< -6 dB
<span style="color: lightgreen;">■</span>	-6 to -3 dB
<span style="color: yellow;">■</span>	-3 to -2 dB
<span style="color: lightyellow;">■</span>	-2 to -1 dB
<span style="color: lightgreen;">■</span>	-1 to 0 dB
<span style="color: cyan;">■</span>	0 to +1 dB
<span style="color: lightblue;">■</span>	+1 to +2 dB
<span style="color: purple;">■</span>	+2 to +3 dB
<span style="color: magenta;">■</span>	+3 to +6 dB
<span style="color: darkpurple;">■</span>	> +6 dB

**Runway 08 CLN SID**



DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**A320 Departure L<sub>max</sub> Examples: Northern Runway versus Baseline Difference**

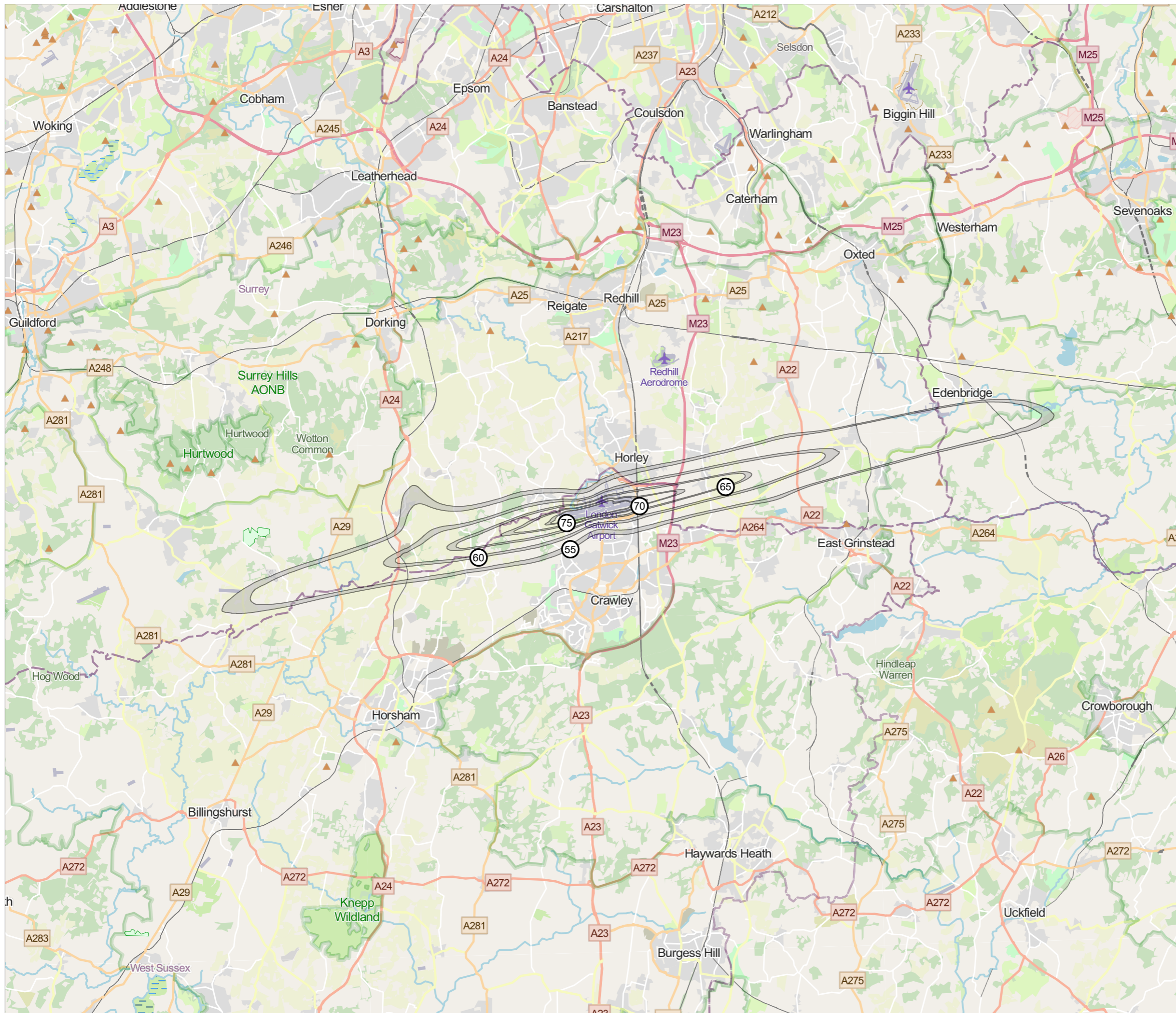
DATE  
**July 2023**

	DRAWING NO. <b>14.9.27</b>	REVISION <b>For ES Issue</b>
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**KEY**

Central Case and Slower Transition Fleet Case Range

DOCUMENT

**Environmental Statement**

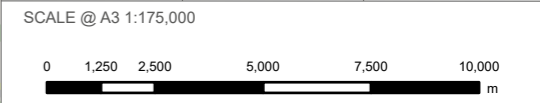
DRAWING TITLE

**2032 Air Noise L<sub>den</sub> Annual Contours with the Project**

DATE

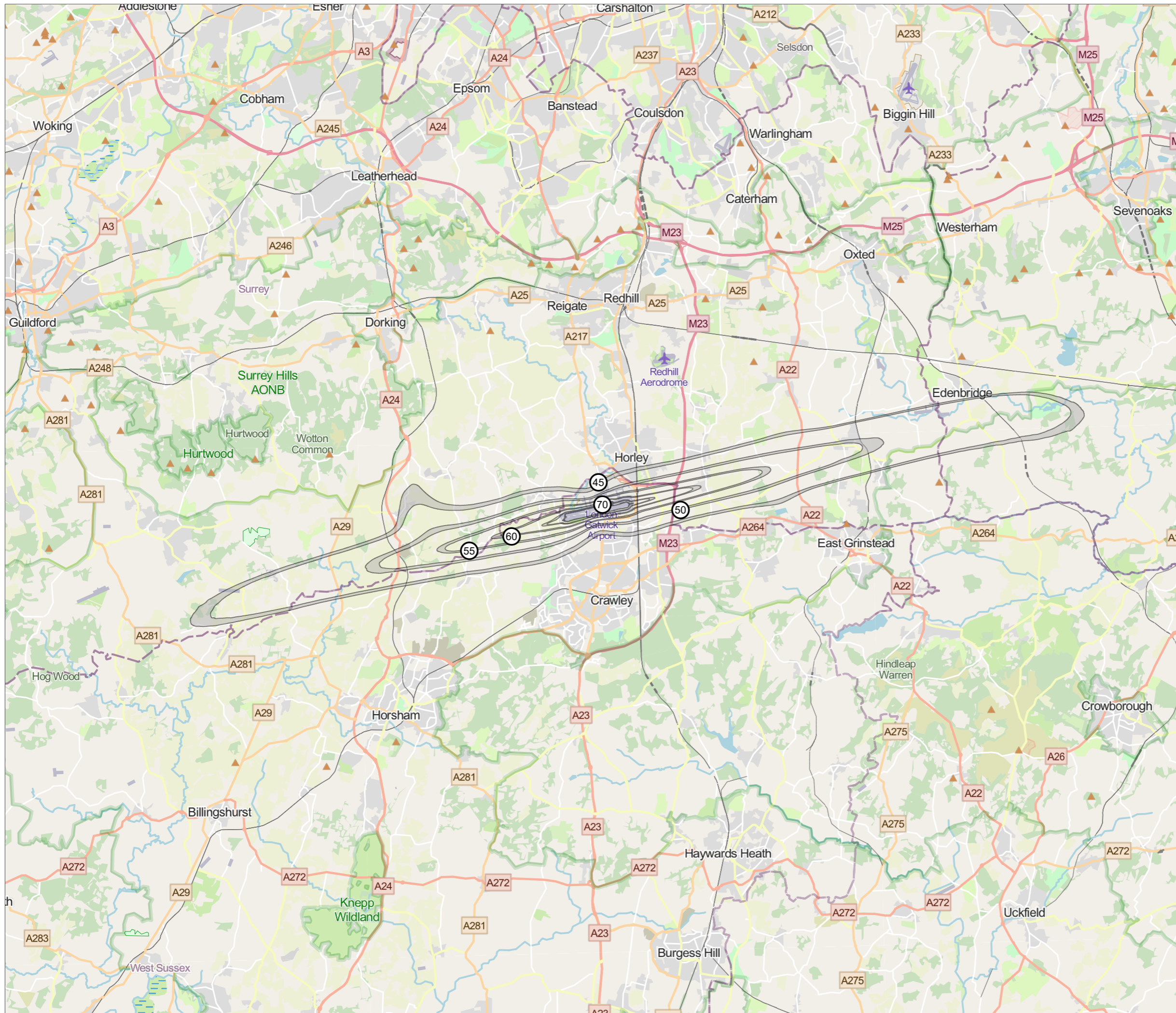
**July 2023**

ORIENTATION	DRAWING NO.	REVISION
	14.9.28	<b>For ES Issue</b>
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**KEY**

Central Case and Slower Transition Fleet Case Range

DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Air Noise L<sub>Night</sub> Annual Contours with the Project

DATE

July 2023

ORIENTATION	DRAWING NO.	REVISION
	14.9.29	For ES Issue
	DRAWN BY	PM / CHECKED BY
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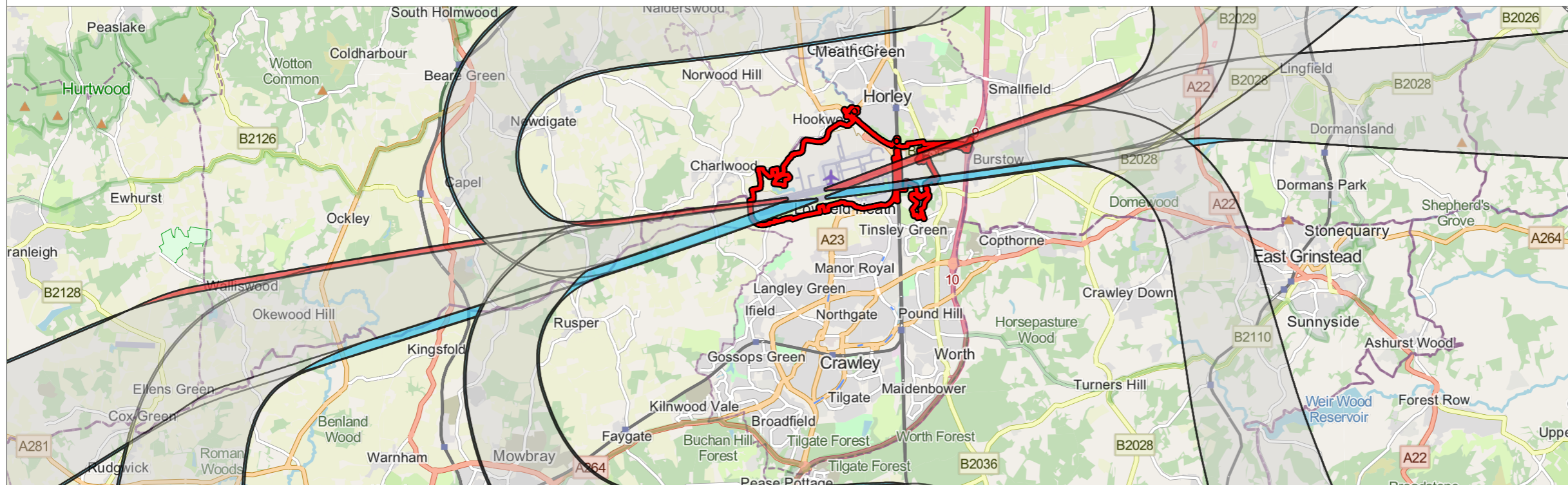
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KEY

- Area Overflow from Northern Runway Only (Departures)
- Area Overflow from Main Runway Only (Departures)
- Area Overflow from both Main and Northern Runways (Departures)
- Project Site Boundary



DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Departure Overflights from the Main and Northern Runways

DATE

July 2023

ORIENTATION



DRAWING NO.

14.9.30

REVISION

For ES Issue

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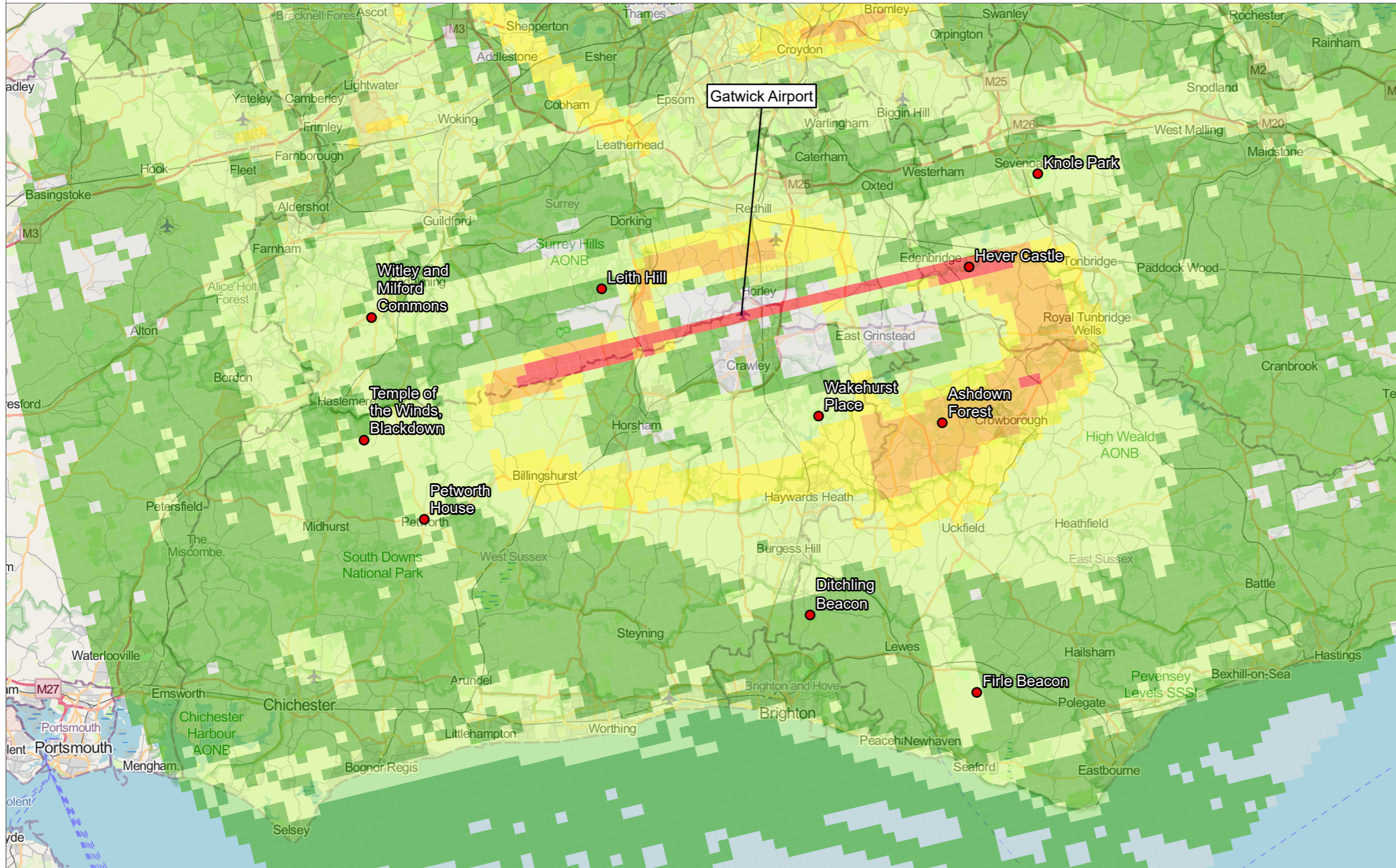


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KEY

- Landscape Assessment Location
- < 1 Overflight
- 1 - 10 Overflights
- 11 - 50 Overflights
- 51 - 100 Overflights
- 101 - 200 Overflights
- > 200 Overflights



DOCUMENT

Environmental Statement

DRAWING TITLE

2032 A319 Departure Overflights from the Main and Northern Runways

DATE

July 2023

ORIENTATION



DRAWING NO.

14.9.31

REVISION

For ES Issue

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SCALE @ A3 1:50,000

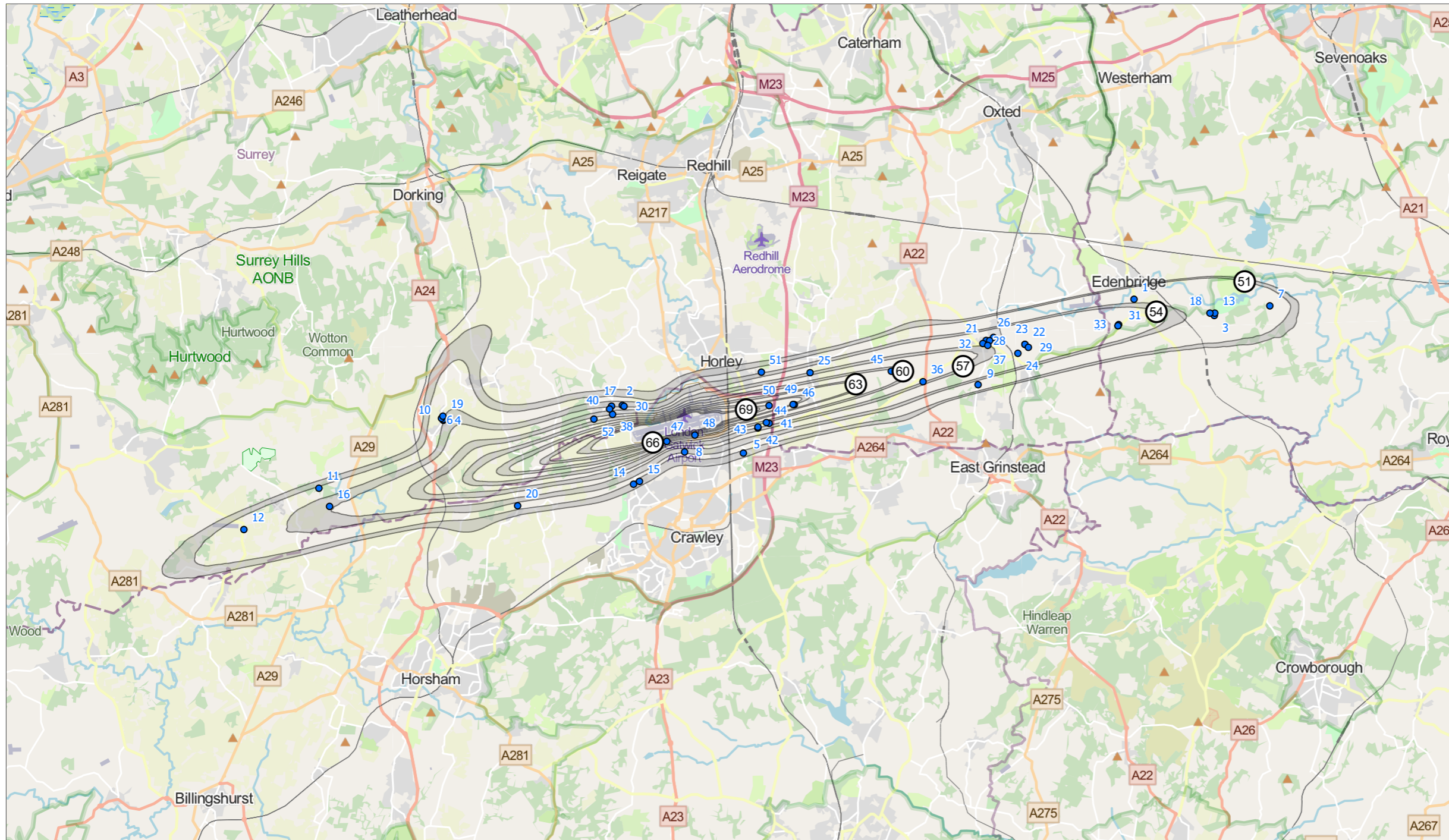


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KEY

- Noise Sensitive Community Buildings
- Central Case and Slower Transition Fleet Case Range



1	Edenbridge & District War Memorial Hospital	18	Hever Village Hall	37	Lingfield & Dormansland Community Centre
2	Charlwood Village Primary School	19	Capel Memorial Hall	38	The Chapel
3	Hever Church of England Voluntary Aided Primary School	20	St Mary Magdalene Church	40	St Nicholas' Church
4	Scott Broadwood C of E Infant School	21	Lingfield Primary School	41	Cranbrook Nursery
5	Forge Wood Primary School	22	St Piers School (Young Epilepsy)	42	Childcare & Learning Ltd
6	Capel Pre School	23	Young Epilepsy (The National Centre for Young People with Epilepsy)	43	Kid Co Ltd
7	Chiddingstone Nursery	24	Lingfield College	44	Acorn Cottage Cranbrook Nursery Ltd
8	Brookfield Day Nursery	25	Aurora Redehall School	45	Newchapel Hall
9	The Stables Nursery School	26	Wee One's Day Nursery & Pre School	46	The Little House Montessori
10	St John the Baptist's Church, Capel	27	Marsh Green Pre-school	47	Charlwood House Day Nursery
11	John the Baptist church, Okewood	28	St Peter and St Paul's Church	48	St Michael and All Angels' Church
12	The Ellens Green Memorial Hall	29	29 Chapel (Private)	49	St Bartholomew C of E Church Rectory
13	St Peter's C of E Church	30	Providence Chapel	50	Touchwood Chapel
14	Gurdwara Sri Guru Singh Sabha Temple	31	Kingdom Hall of Jehovah's Witnesses	51	Thunderfield Castle Site
15	Gurjar Hindu Union	32	St Bernard's Church	52	Lowfield Heath Windmill
16	Okewood Hill Village Hall	33	St John's Church		
17	Parish Hall	36	The London Temple		

DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Air Noise Project  $L_{eq} 16 \text{ hr}$  and Noise Sensitive Community Buildings

DATE

July 2023

ORIENTATION



DRAWING NO.

14.9.32

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**KEY**

- Receptors
- Noise Barriers
- Project Design

**dB Level**

- 55 L<sub>A10</sub>, 18HR dB
- 60 L<sub>A10</sub>, 18HR dB
- 65 L<sub>A10</sub>, 18HR dB
- 68 L<sub>A10</sub>, 18HR dB

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

**DOCUMENT**

Environmental Statement

**DRAWING TITLE**

2032 Traffic Noise Levels with Project During the Daytime

**DATE**

July 2023

**ORIENTATION**



**DRAWING NO.**

14.9.33

**REVISION**

For ES Issue

**DRAWN BY**

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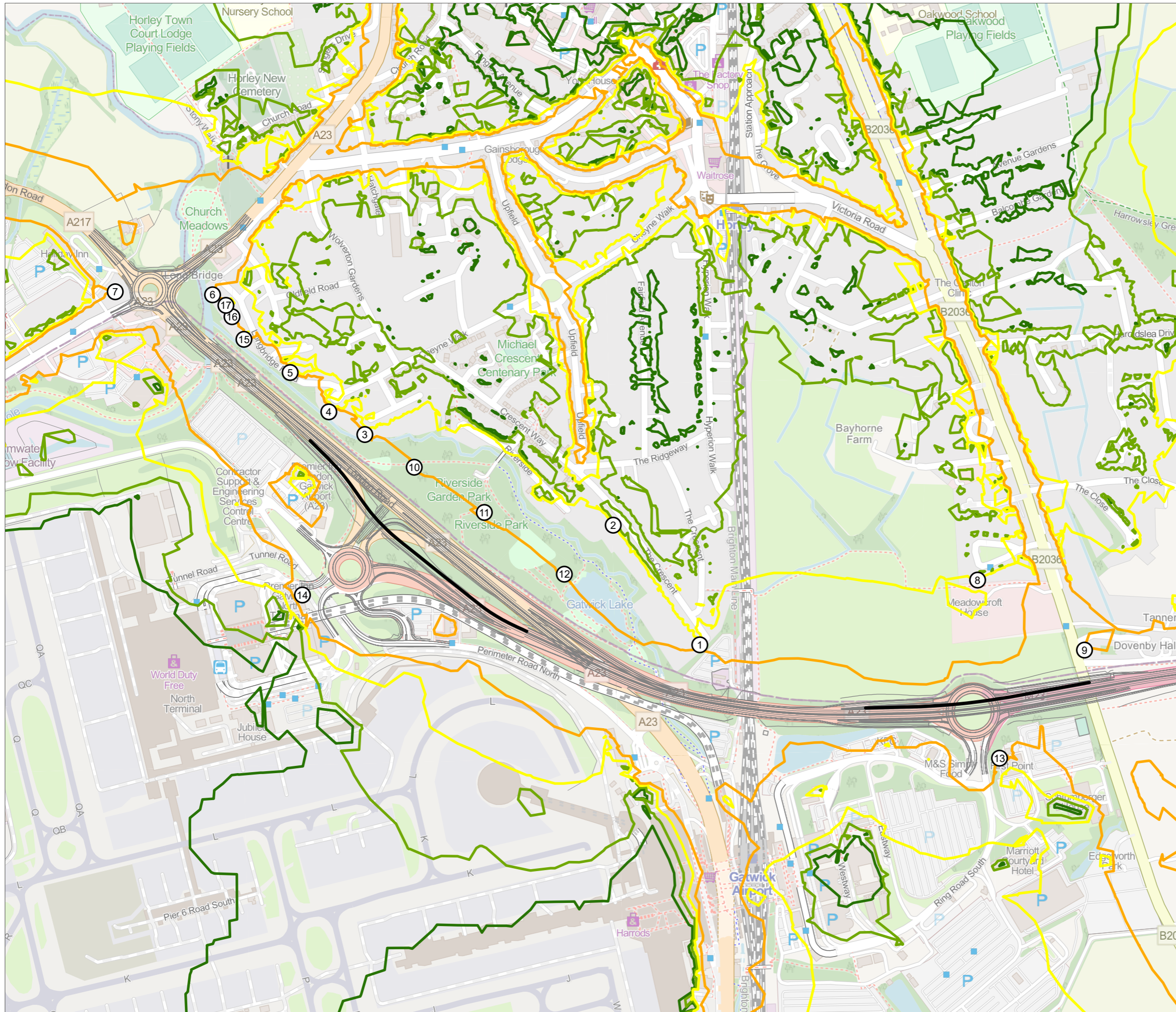
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**KEY**

- Receptors
- Noise Barriers
- Project Design

**dB Level**

- 40 L<sub>Aeq</sub>, Night dB
- 45 L<sub>Aeq</sub>, Night dB
- 50 L<sub>Aeq</sub>, Night dB
- 55 L<sub>Aeq</sub>, Night dB

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

**DOCUMENT**

Environmental Statement

**DRAWING TITLE**

2032 Traffic Noise Levels with Project During the Night Time

**DATE**

July 2023

**ORIENTATION**



**DRAWING NO.**

14.9.34

**REVISION**

For ES Issue

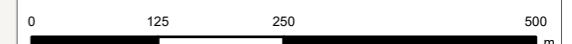
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**SCALE @ A3 1:7,500**



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**KEY**

- Receptors
- Noise Barriers
- Project Design

**Noise Level Change (dB):**

	-1 to 0
	0 to 1
	1 to 3
	3 to 5
	-5 to -3
	≤ -5
	-3 to -1

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

**DOCUMENT**

Environmental Statement

**DRAWING TITLE**

2032 Traffic Noise Levels with Project v Baseline Daytime Difference

**DATE**

July 2023

**ORIENTATION**



**DRAWING NO.**

14.9.35

**REVISION**

For ES Issue

**DRAWN BY**

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**SCALE @ A3 1:7,500**



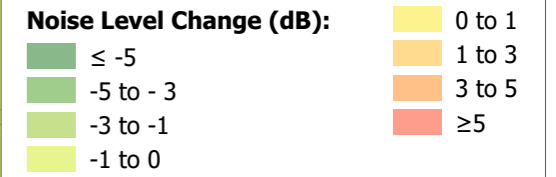
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**KEY**

- Receptors
- Noise Barriers
- Project Design



**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
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- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Traffic Noise Levels with Project v Baseline Night Time Difference

DATE

July 2023

ORIENTATION



DRAWING NO.

14.9.36

REVISION

For ES Issue

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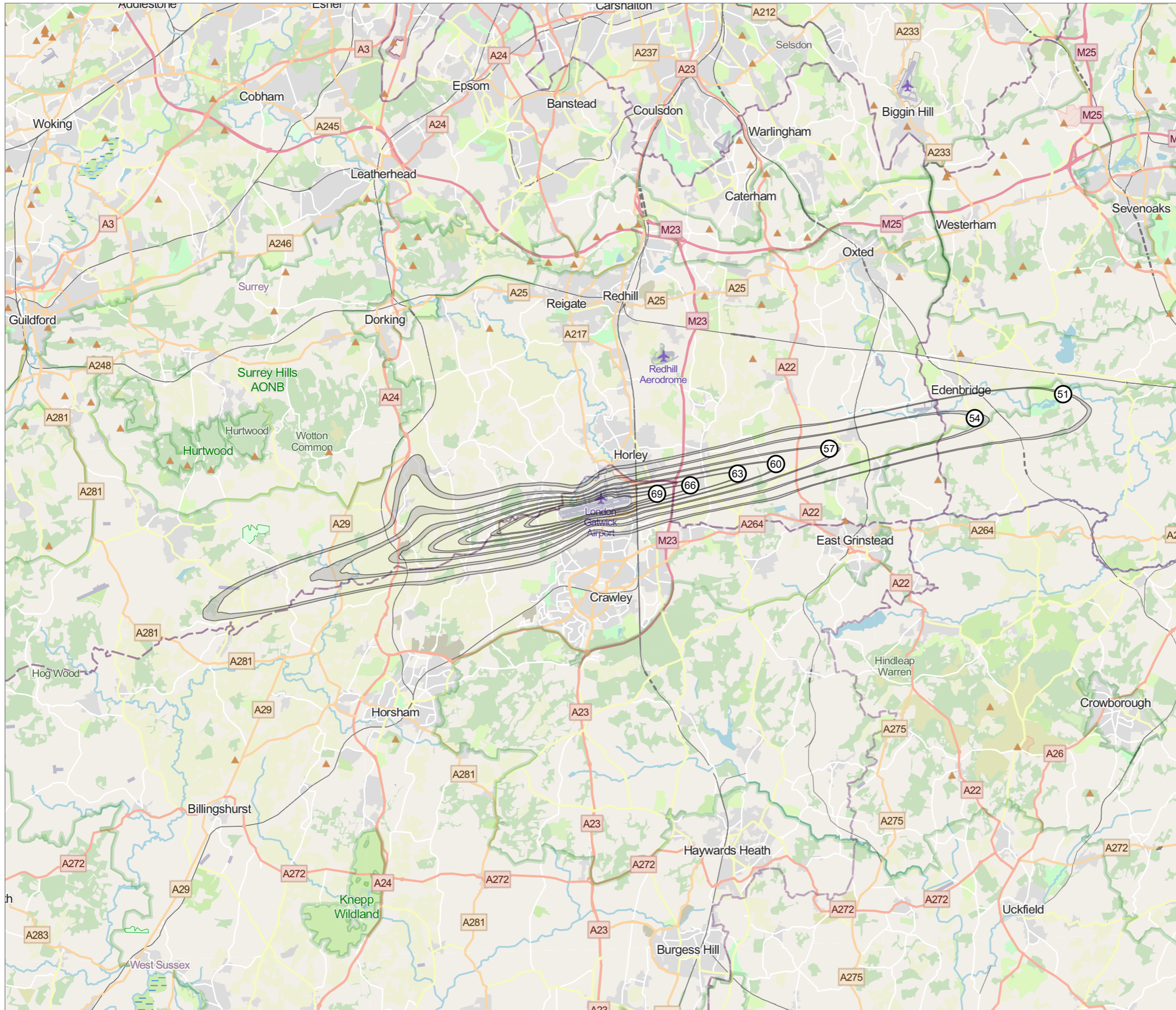
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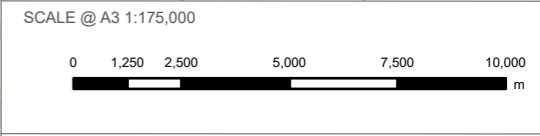
**KEY**  
 [Grey Box] Central Case and Slower Transition Fleet Case Range

DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**2038 Air Noise with Project, L<sub>eq</sub>, 16 hr**

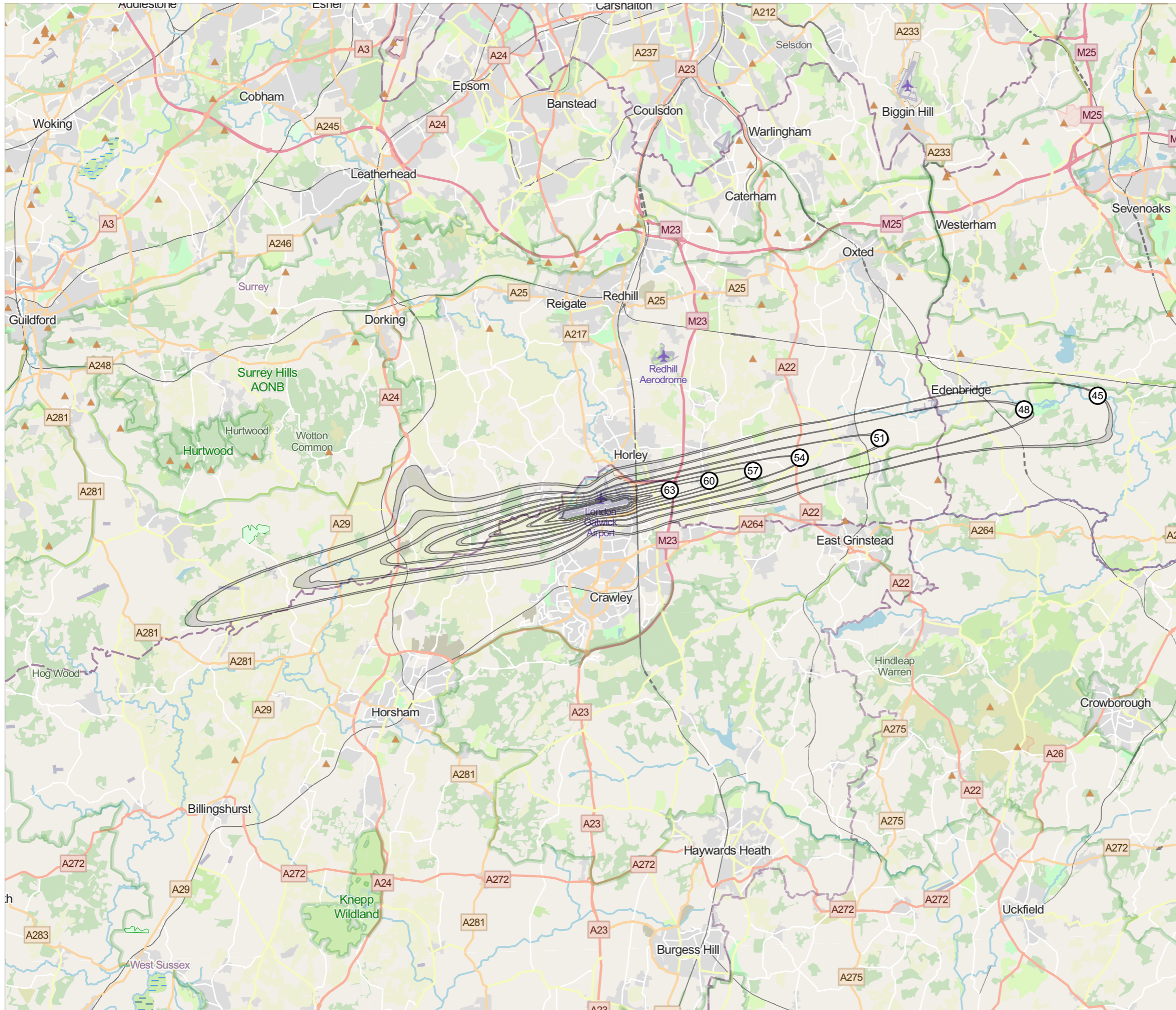
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**KEY**

Central Case and Slower Transition Fleet Case Range

DOCUMENT

**Environmental Statement**

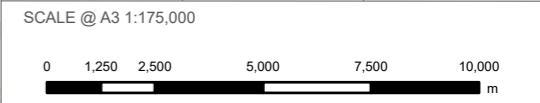
DRAWING TITLE

**2038 Air Noise with Project,  $L_{eq}$  8 hr Night**

DATE

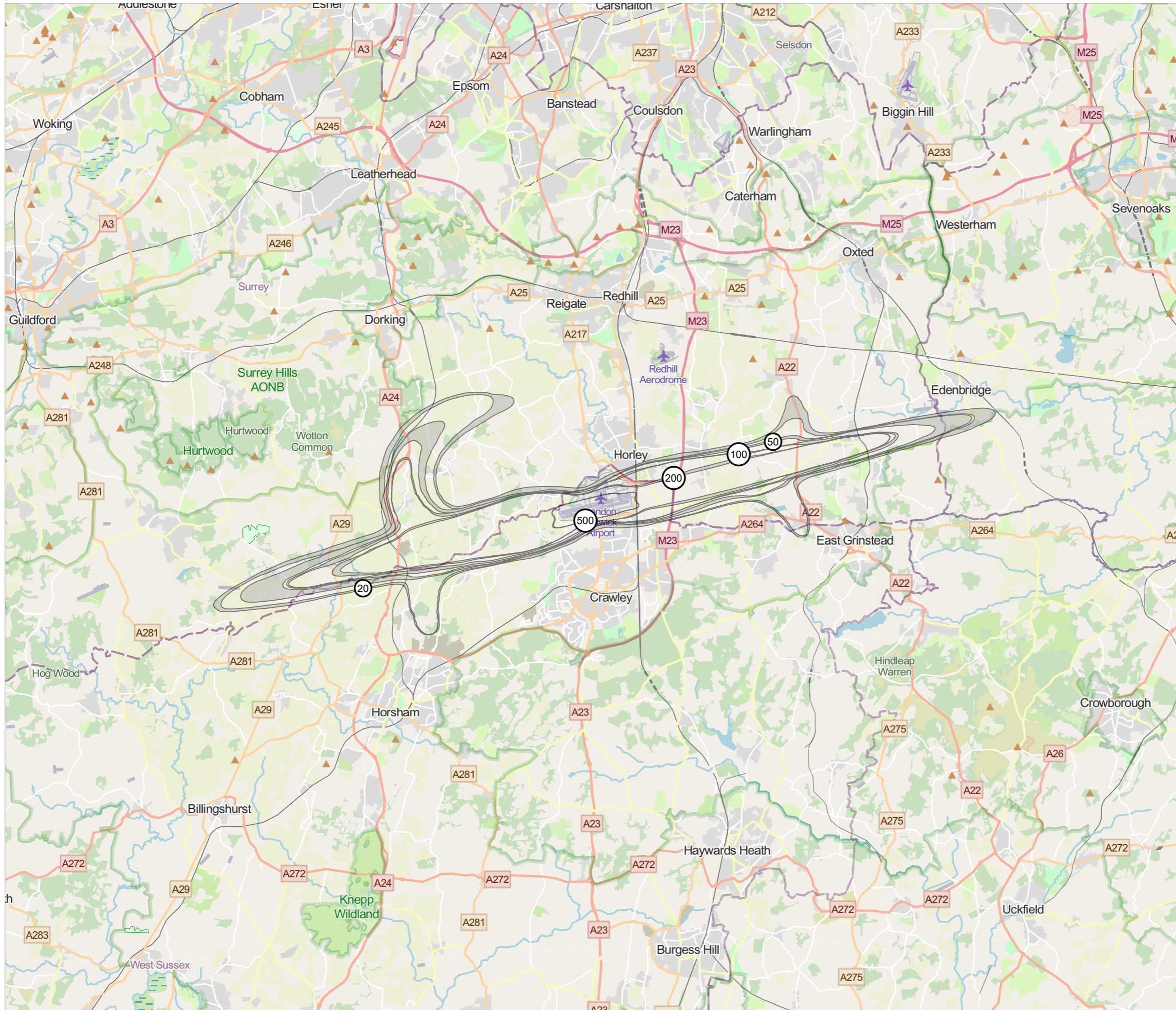
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**KEY**  
 [Grey Box] Central Case and Slower Transition Fleet Case Range

DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**2038 Air Noise with Project N65 Day**

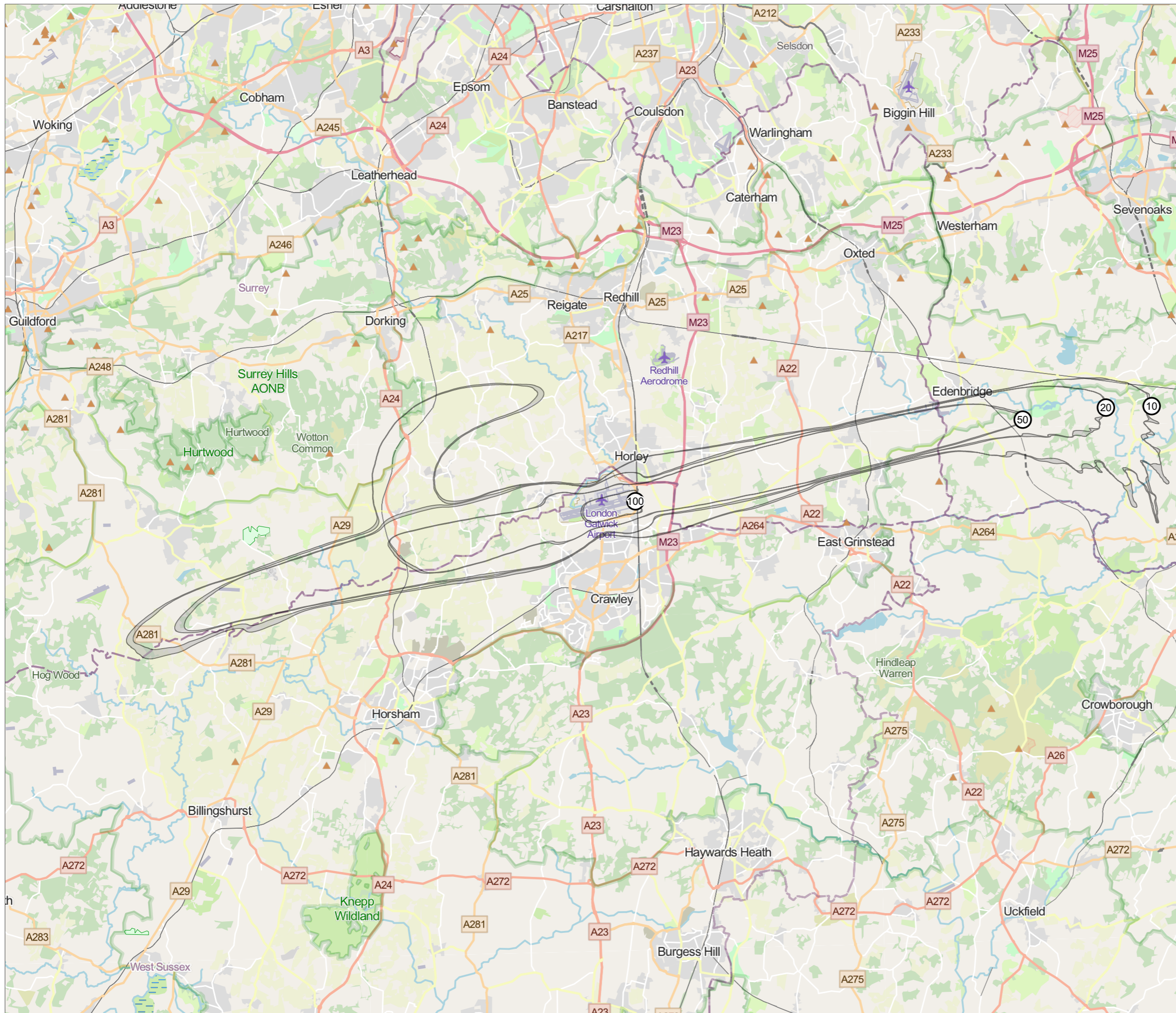
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**KEY**  
 [Grey Box] Central Case and Slower Transition Fleet Case Range

DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**2038 Air Noise with Project N60 Night**

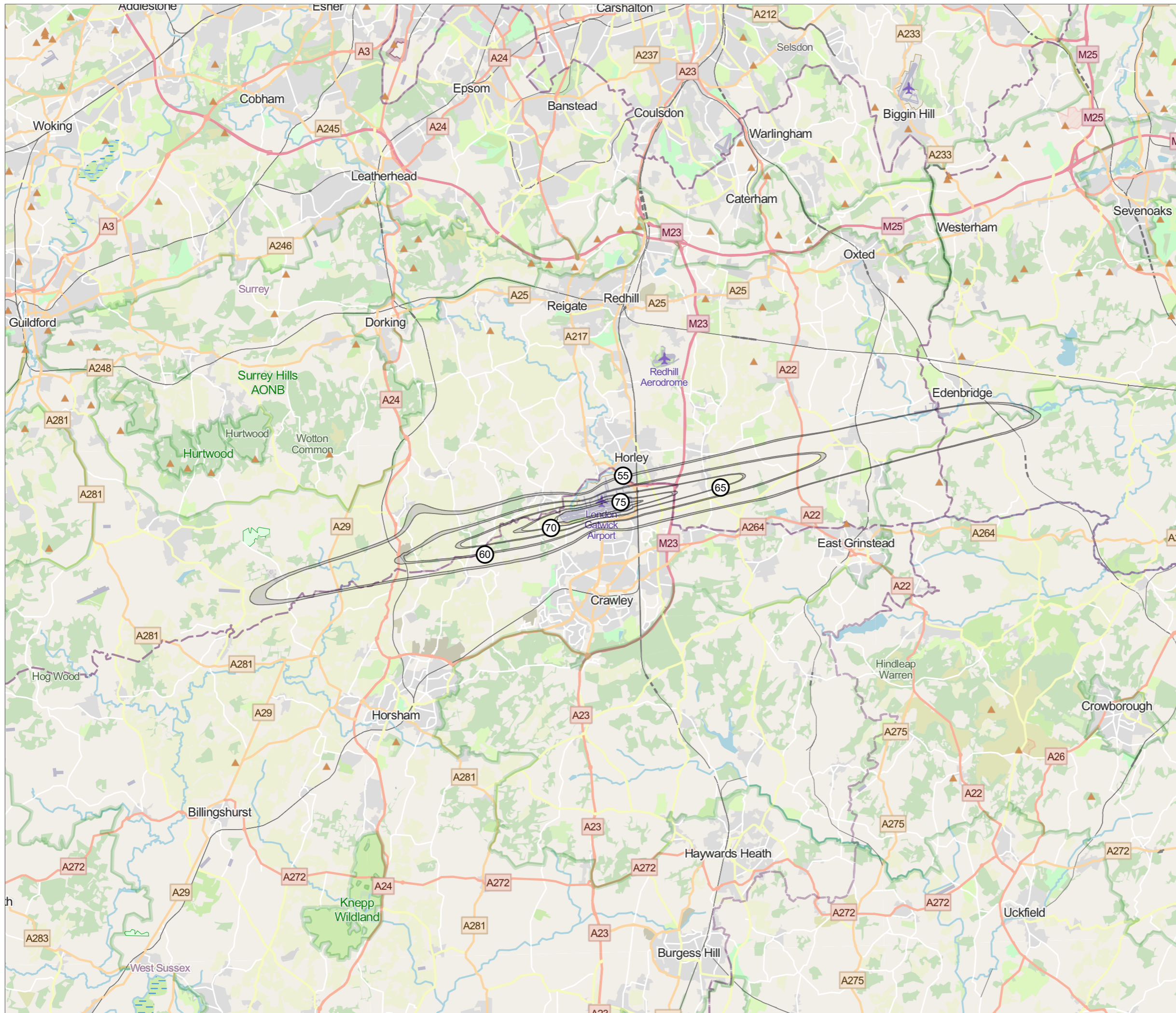
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KEY

Central Case to Worst Case Fleet Range

DOCUMENT

Environmental Statement

DRAWING TITLE

2038 Air Noise L<sub>den</sub> Annual Contours with the Project

DATE

July 2023

ORIENTATION



DRAWING NO.

14.9.41

REVISION

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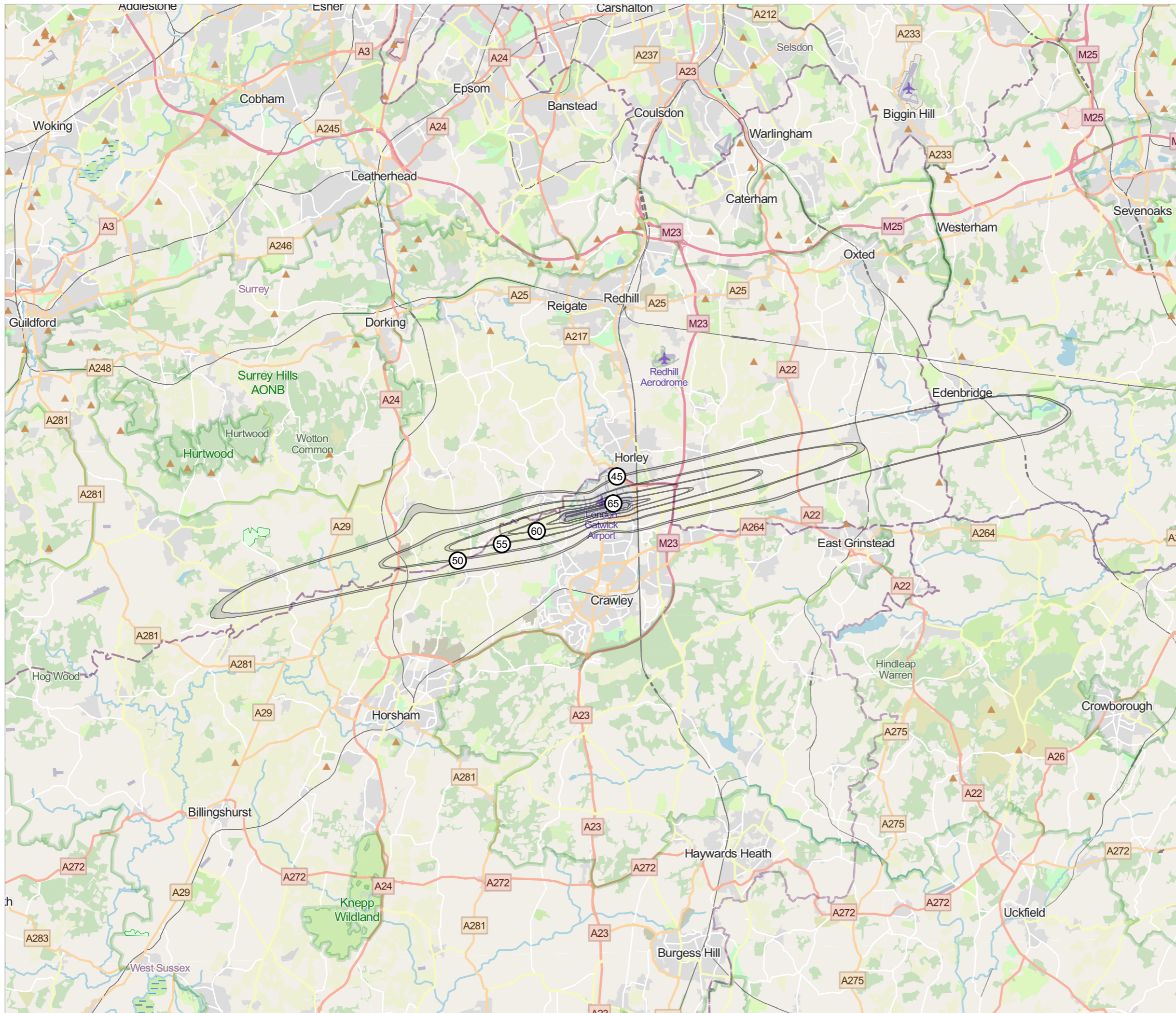


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KEY

Central Case to Worst Case Fleet Range



DOCUMENT

Environmental Statement

DRAWING TITLE

2038 Air Noise L<sub>Night</sub> Annual Contours with the Project

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July 2023

ORIENTATION



DRAWING NO.

14.9.42

REVISION

For ES Issue

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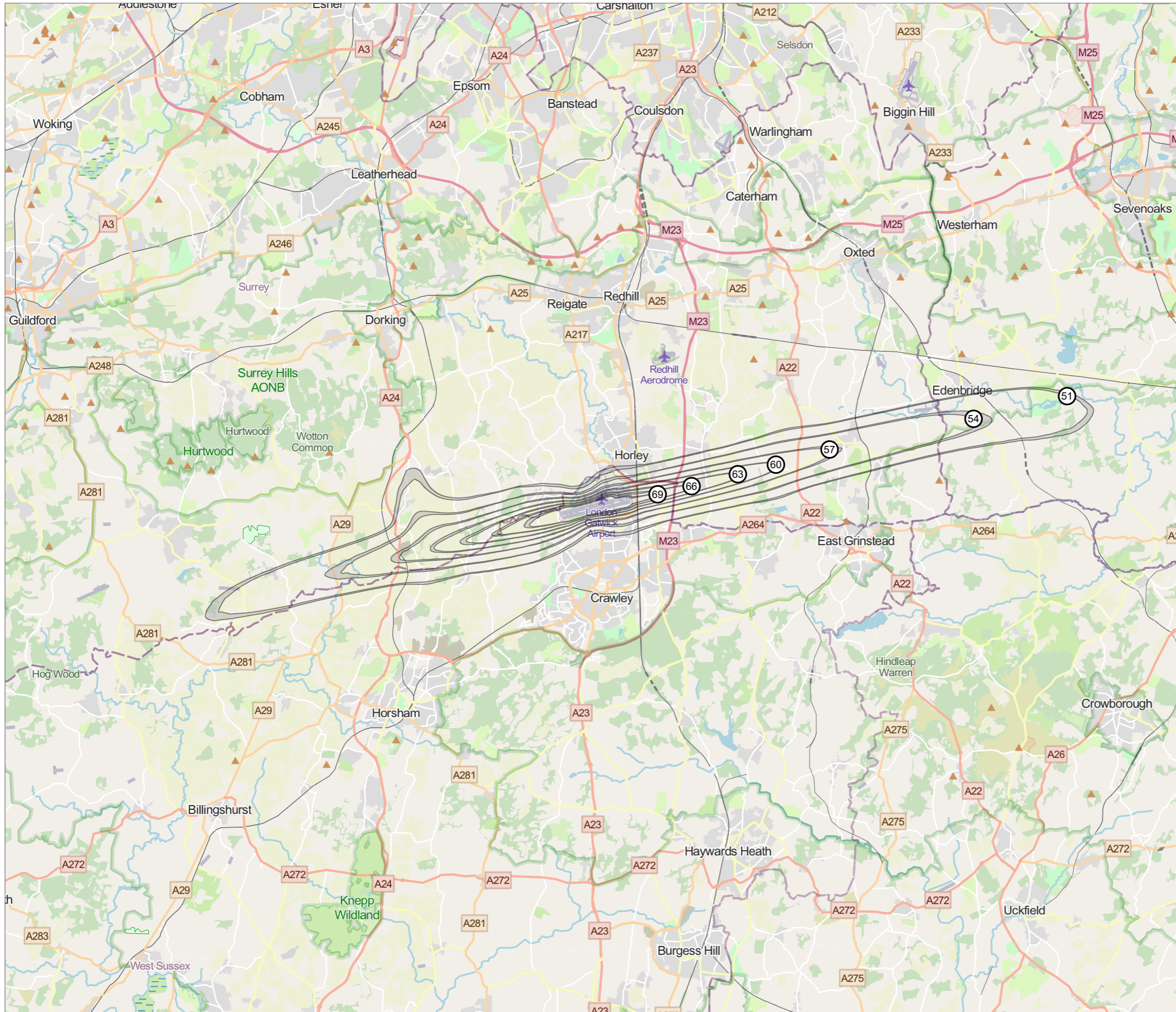
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KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

Environmental Statement

DRAWING TITLE

2047 Air Noise with Project,  $L_{eq}$ , 16 hr

DATE

July 2023

ORIENTATION



DRAWING NO.

14.9.43

REVISION

For ES Issue

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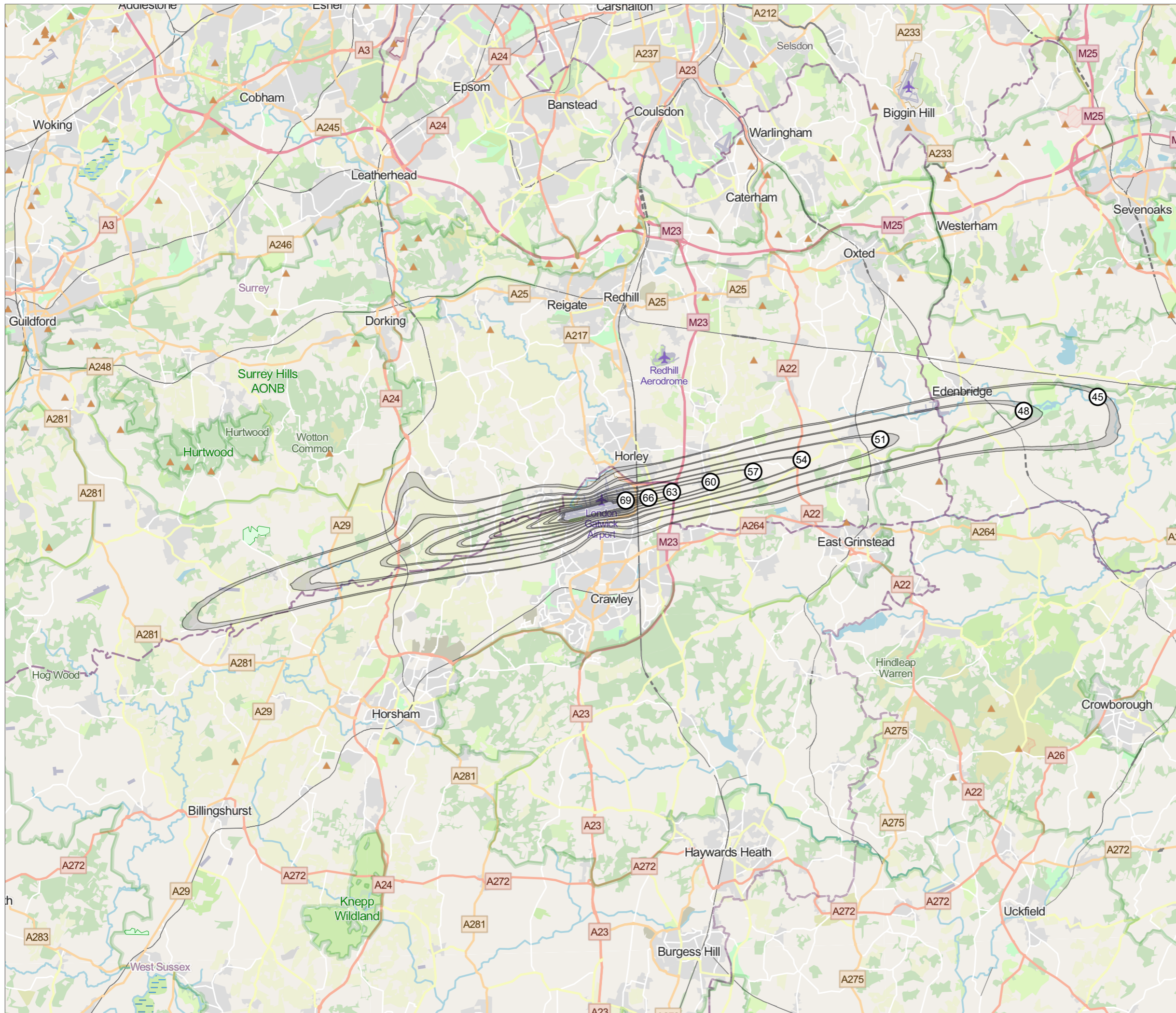
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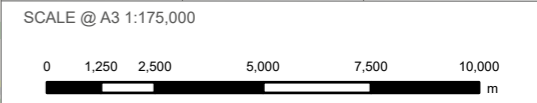
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DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**2047 Air Noise with Project,  $L_{eq}$  8 hr Night**

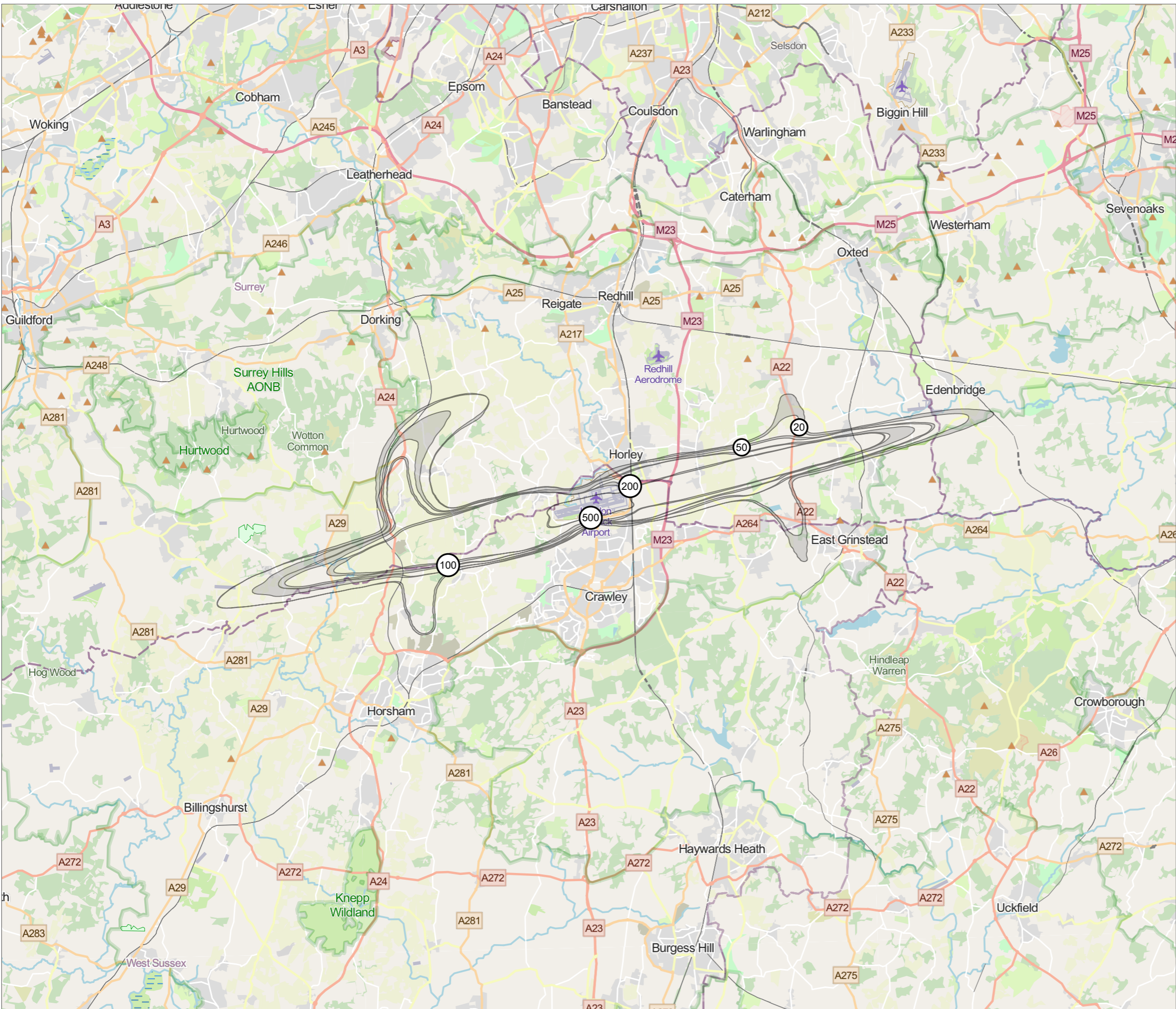
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**July 2023**

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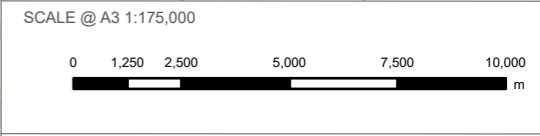
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 [Grey Box] Central Case and Slower Transition Fleet Case Range

DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**2047 Air Noise with Project N65 Day**

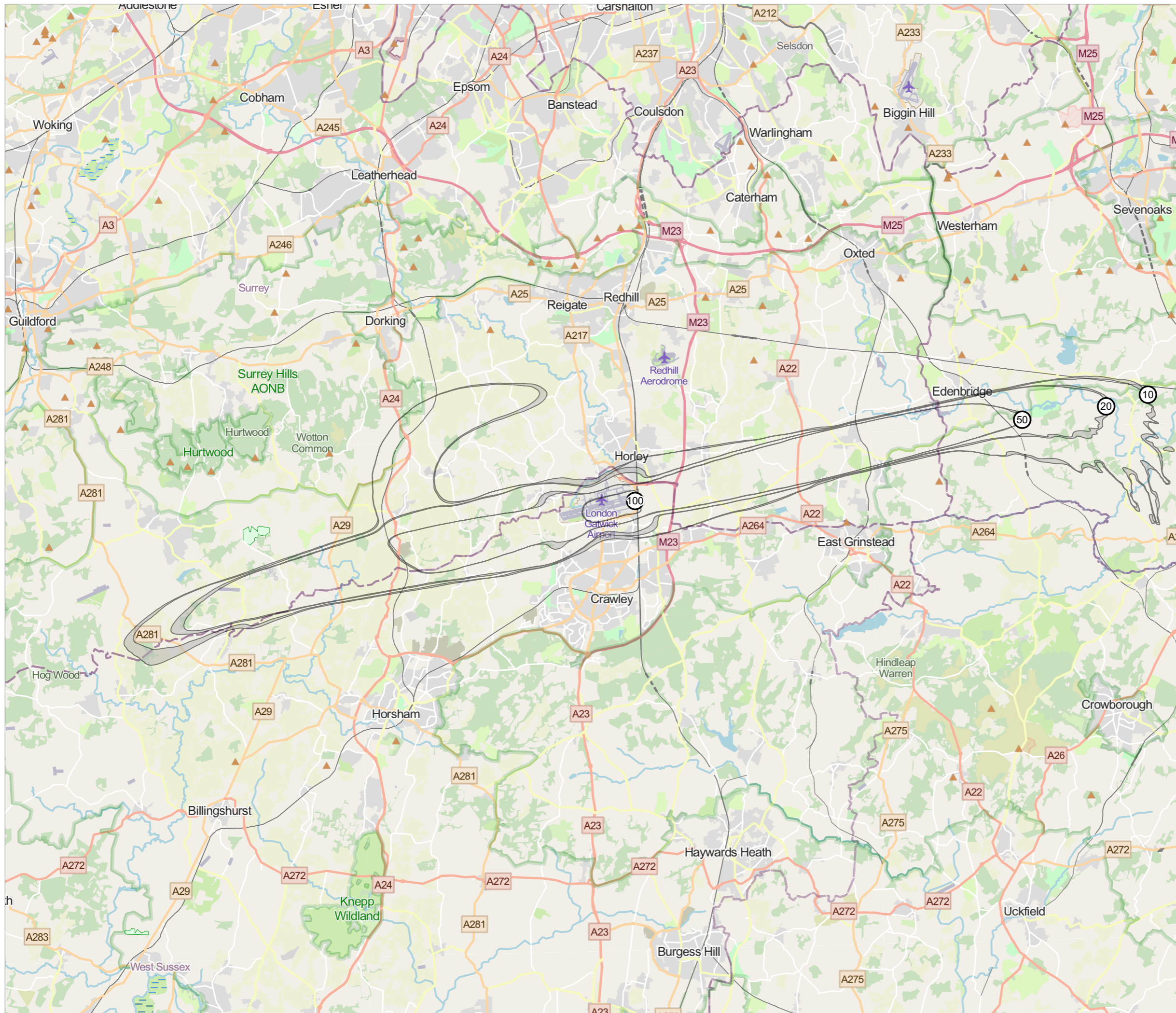
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**July 2023**

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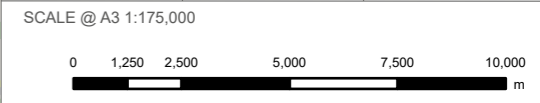
**KEY**  
 [Grey shaded area] Central Case and Slower Transition Fleet Case Range

DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**2047 Air Noise with Project N60 Night**

DATE  
**July 2023**

ORIENTATION 	DRAWING NO. <b>14.9.46</b>	REVISION <b>For ES Issue</b>
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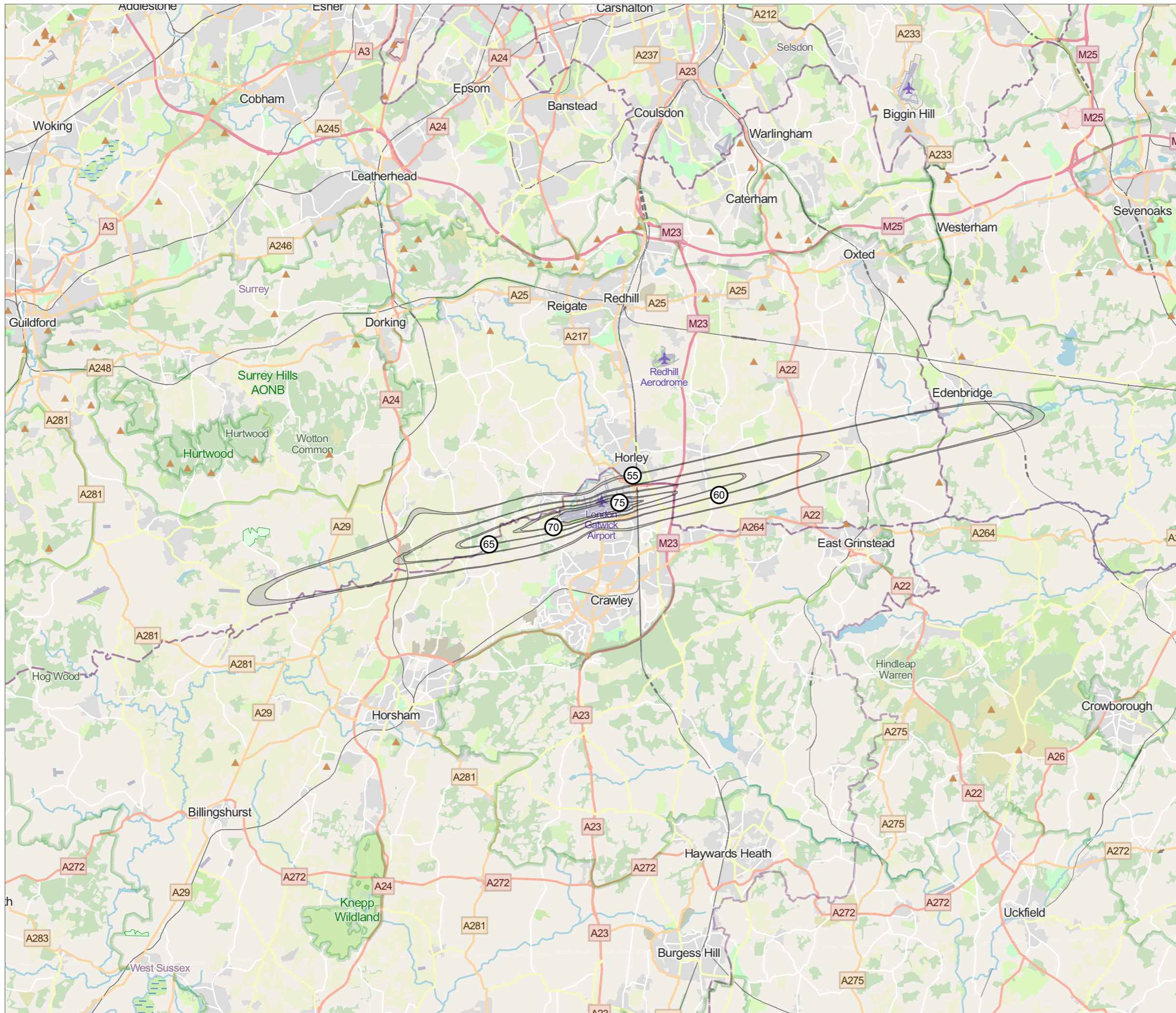


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KEY

Central Case to Worst Case Fleet Range



DOCUMENT

Environmental Statement

DRAWING TITLE

2047 Air Noise L<sub>den</sub> Annual Contours with the Project

DATE

July 2023

ORIENTATION



DRAWING NO.

14.9.47

REVISION

For ES Issue

DRAWN BY

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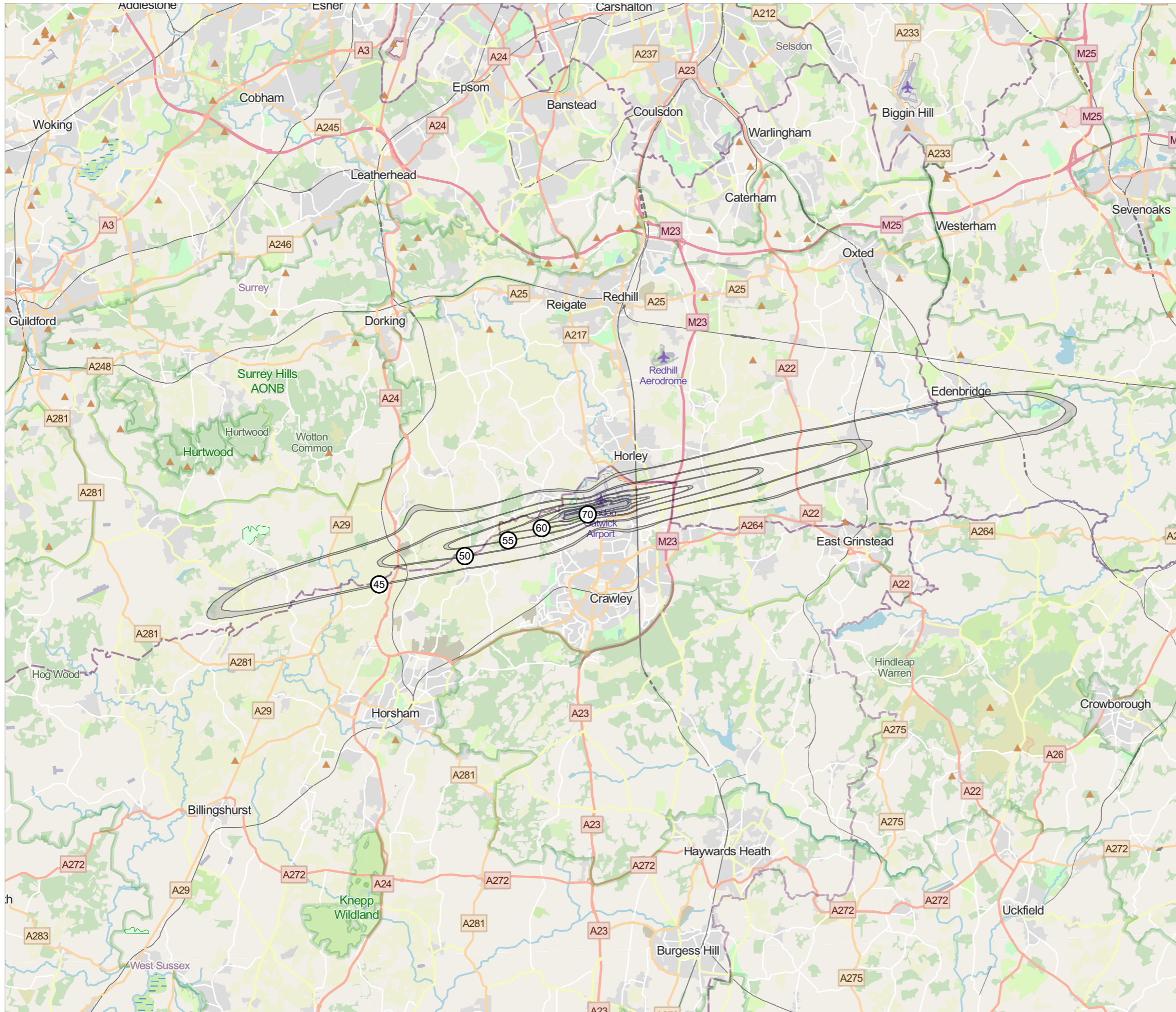
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**KEY**

Central Case to Worst Case Fleet Range

DOCUMENT

**Environmental Statement**

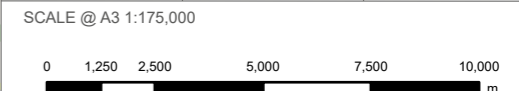
DRAWING TITLE

**2047 Air Noise L<sub>Night</sub> Annual Contours with the Project**

DATE

**July 2023**

ORIENTATION	DRAWING NO.	REVISION
	14.9.48	<b>For ES Issue</b>
	DRAWN BY	PM / CHECKED BY
	<b>MTC</b>	<b>SM</b>



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KEY

○ Receptors

**dB Level**

- 55 L<sub>A10, 18HR</sub> dB
- 60 L<sub>A10, 18HR</sub> dB
- 65 L<sub>A10, 18HR</sub> dB
- 68 L<sub>A10, 18HR</sub> dB

Number Name

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

DOCUMENT

Environmental Statement

DRAWING TITLE

2047 Road Traffic Noise, Business as Usual Daytime

DATE

July 2023

ORIENTATION



DRAWING NO.

14.9.49

REVISION

For ES Issue

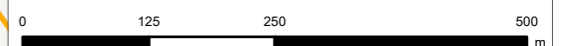
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**KEY**

○ Receptors

**dB Level**

- 40 L<sub>Aeq</sub>, Night dB
- 45 L<sub>Aeq</sub>, Night dB
- 50 L<sub>Aeq</sub>, Night dB
- 55 L<sub>Aeq</sub>, Night dB

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

**DOCUMENT**

Environmental Statement

**DRAWING TITLE**

2047 Road Traffic Noise, Business as Usual Night Time

**DATE**

July 2023

**ORIENTATION**



**DRAWING NO.**

14.9.50

**REVISION**

For ES Issue

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**KEY**

- Receptors
- Noise Barriers
- Project Design

**dB Level**

- 55 LA10, 18HR dB
- 60 LA10, 18HR dB
- 65 LA10, 18HR dB
- 68 LA10, 18HR dB

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

**DOCUMENT**

Environmental Statement

**DRAWING TITLE**

2047 Traffic Noise Levels with Project During the Daytime

**DATE**

July 2023

**ORIENTATION**



**DRAWING NO.**

14.9.51

**REVISION**

For ES Issue

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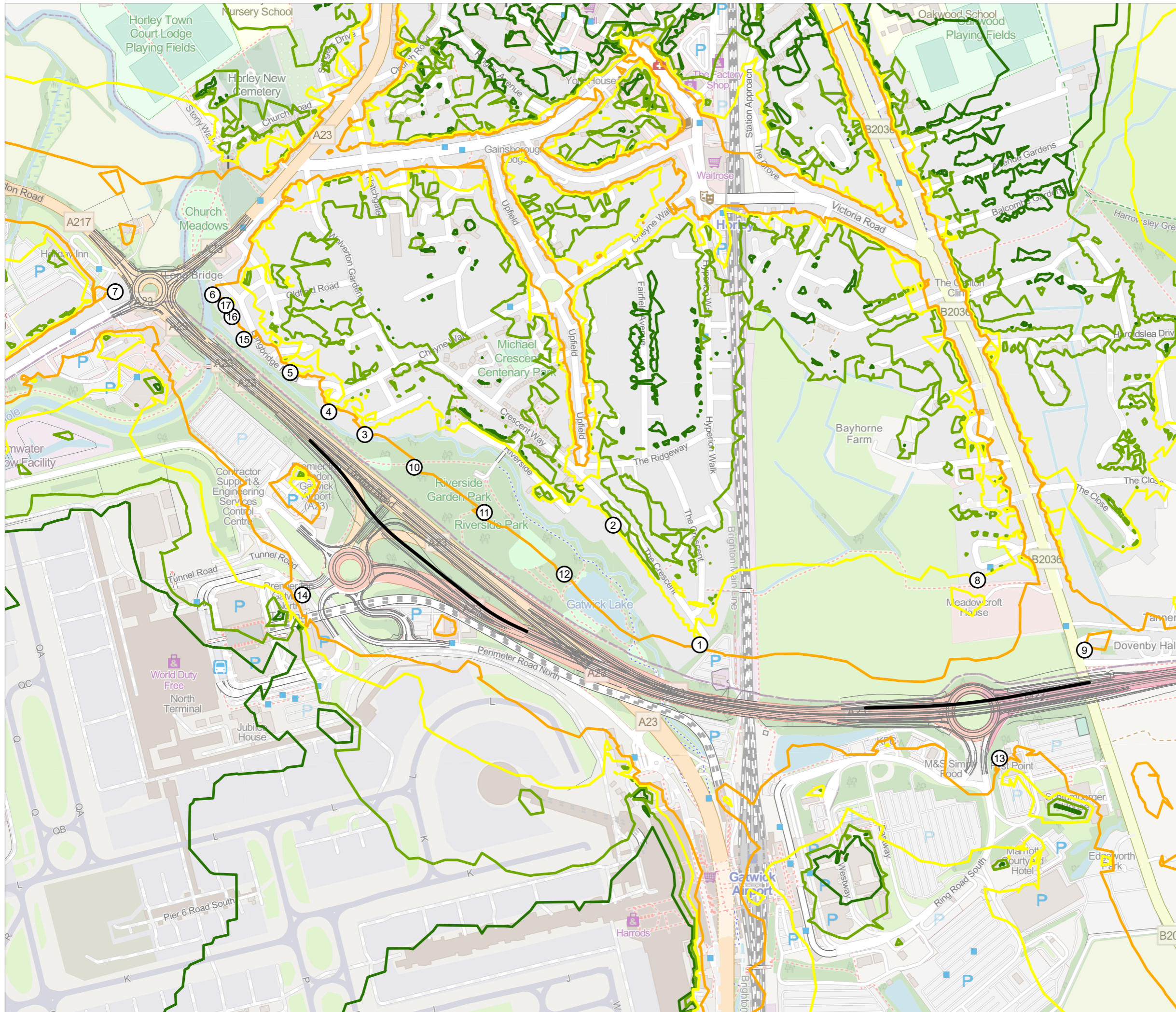
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**KEY**

- Receptors
- Noise Barriers
- Project Design

**dB Level**

- 40 L<sub>Aeq</sub>, Night dB
- 45 L<sub>Aeq</sub>, Night dB
- 50 L<sub>Aeq</sub>, Night dB
- 55 L<sub>Aeq</sub>, Night dB

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

**DOCUMENT**

Environmental Statement

**DRAWING TITLE**

2047 Traffic Noise Levels with Project During the Night Time

**DATE**

July 2023

**ORIENTATION**



**DRAWING NO.**

14.9.52

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**KEY**

- Receptors
- Noise Barriers
- Project Design

**Noise Level Change (dB):**

	-3 to 0
	0 to 3
	3 to 5
	5 to 10
	≤ -10
	-10 to -5
	-5 to -3

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

**DOCUMENT**

Environmental Statement

**DRAWING TITLE**

2047 Traffic Noise Levels with Project v 2032 Baseline Daytime Difference

**DATE**

July 2023

**ORIENTATION**



**DRAWING NO.**

14.9.53

**REVISION**

For ES Issue

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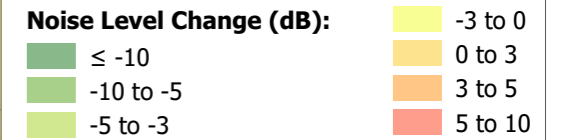
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**KEY**

- Receptors
- Noise Barriers
- Project Design



**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

DOCUMENT

Environmental Statement

DRAWING TITLE

2047 Traffic Noise Levels with Project v 2032 Baseline Night Time Difference

DATE

July 2023

ORIENTATION



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**KEY**

○ Receptors

**Noise Level Change (dB):**

■ -1 to 0

■ 0 to 1

■ 1 to 3

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

**DOCUMENT**

**Environmental Statement**

**DRAWING TITLE**

**2047 Baseline Noise Levels v 2032  
Baseline Noise Levels Daytime Difference**

**DATE**

**July 2023**

**ORIENTATION**



**DRAWING NO.**

**14.9.55**

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**KEY**

○ Receptors

**Noise Level Change (dB):**

- 3 to -1
- 1 to 0
- 0 to 1
- 1 to 3

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

DOCUMENT

**Environmental Statement**

DRAWING TITLE

**2047 Baseline Noise Levels v 2032 Baseline Noise Levels Night Time Difference**

DATE

**July 2023**

ORIENTATION



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**14.9.56**

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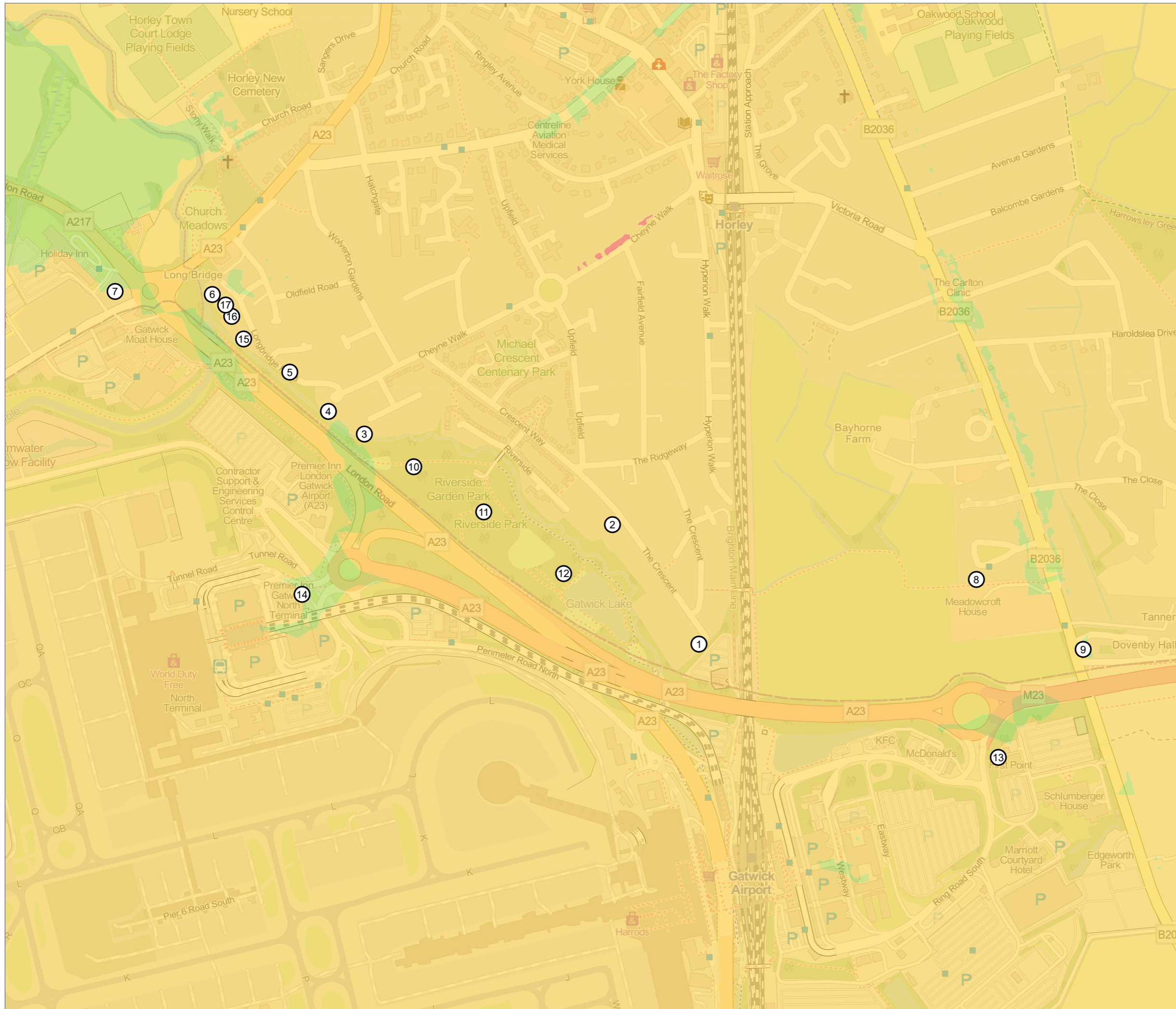
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**KEY**

- DMRB Impact
- Receptors
- Noise Barriers
- Project Design

**Number Name**

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B2036 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Offices
- 14 Premier Inn
- 15 Longbridge Road Centre East
- 16 Longbridge Road Centre
- 17 Longbridge Road Centre West

DOCUMENT

Environmental Statement

DRAWING TITLE

2032 Road Traffic Noise Impact Locations

DATE

July 2023

ORIENTATION



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14.9.57

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