



Gatwick Airport Northern Runway Project

Environmental Statement
Air Quality Figures – Part 2

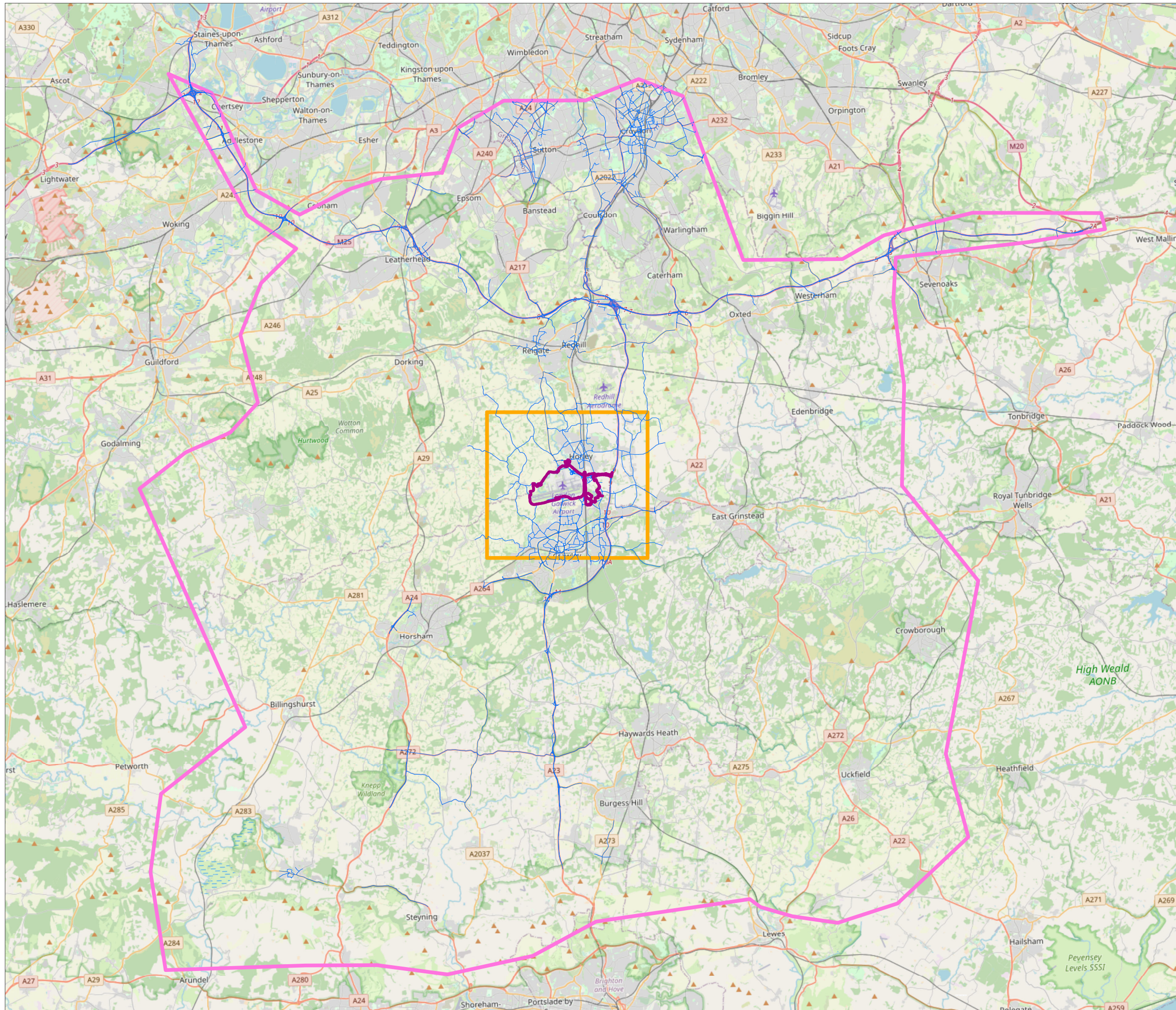
Book 5

VERSION: 2.0

DATE: MARCH 2024

Application Document Ref: 5.2

PINS Reference Number: TR020005



- Project Site Boundary (ES)
- 11 km x 10 km Domain
- Wider Study Area
- Modelled Road Network

DOCUMENT
Environmental Statement

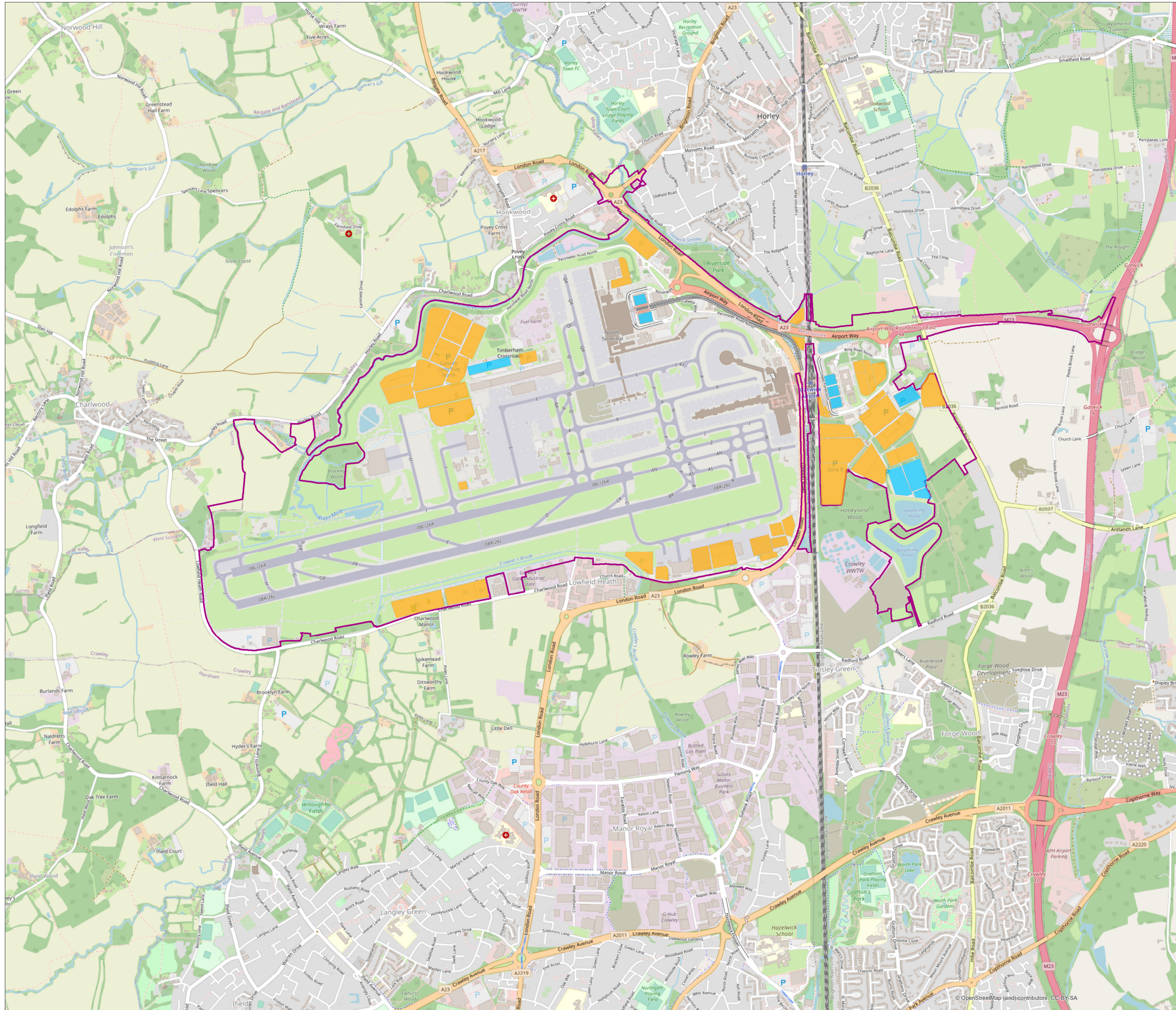
DRAWING TITLE
Modelled Road Network

DATE
July 2023

	DRAWING NO.	REVISION
	APPENDIX 13.4.1 FIGURE 4.1.1	For ES Issue
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		AC

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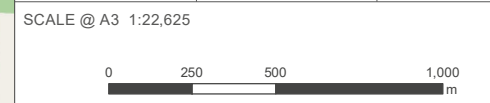
- Legend**
- Project Site Boundary (ES)
 - Modelled Surface Car Park
 - Modelled Multi-storey Car Park

DOCUMENT
Environmental Statement

DRAWING TITLE
Location of Modelled Car Parks for the 2018 Baseline Scenario

DATE
July 2023

	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.2	REVISION For ES Issue
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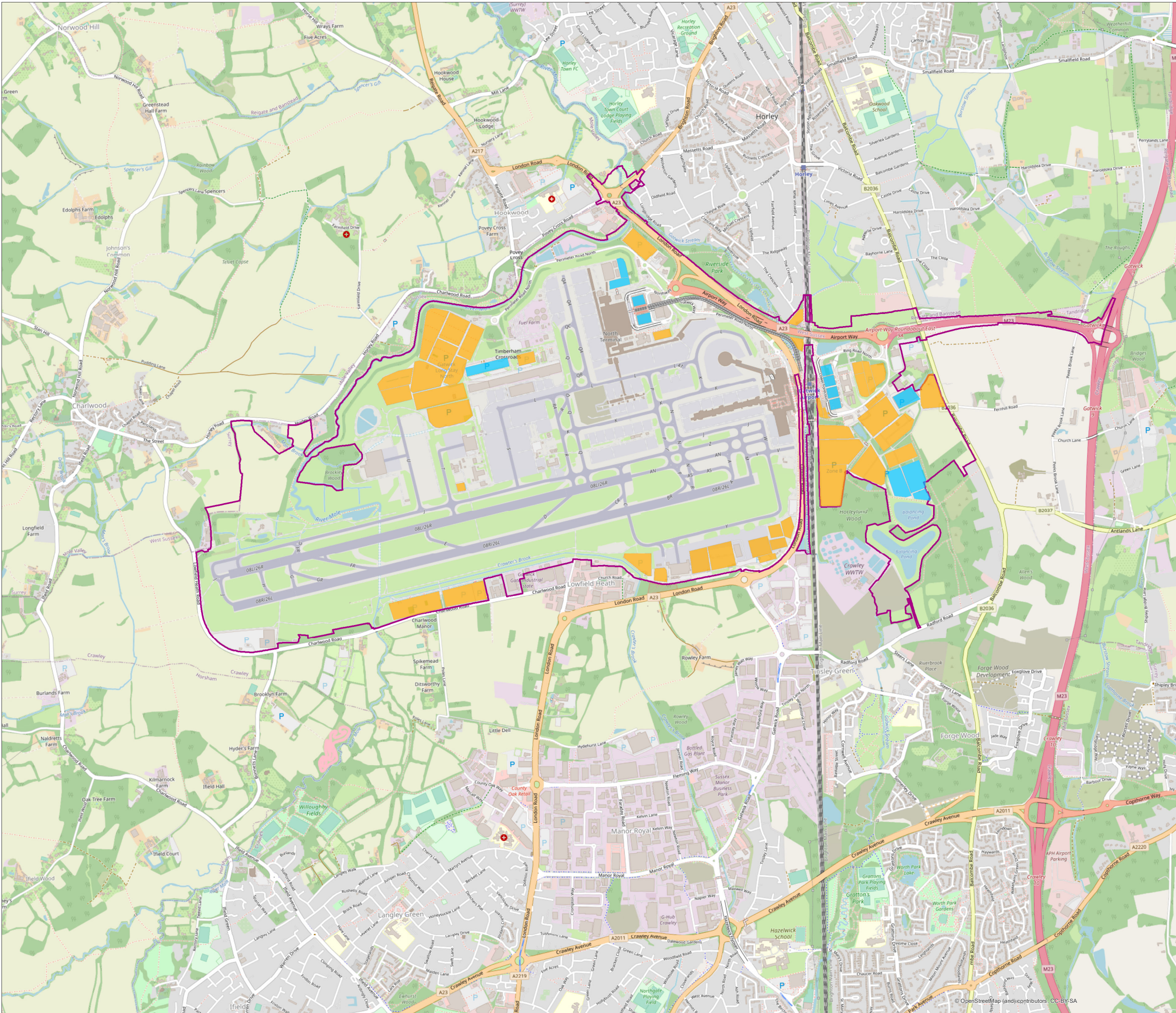


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Legend

- Project Site Boundary (ES)
- Modelled Surface Car Park
- Modelled Multi-storey Car Park



DOCUMENT

Environmental Statement

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Location of Modelled Car Parks
for the Without Project Scenarios

DATE

July 2023

ORIENTATION



DRAWING NO.
APPENDIX 13.4.1
FIGURE 4.1.3

REVISION
For ES Issue

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SG

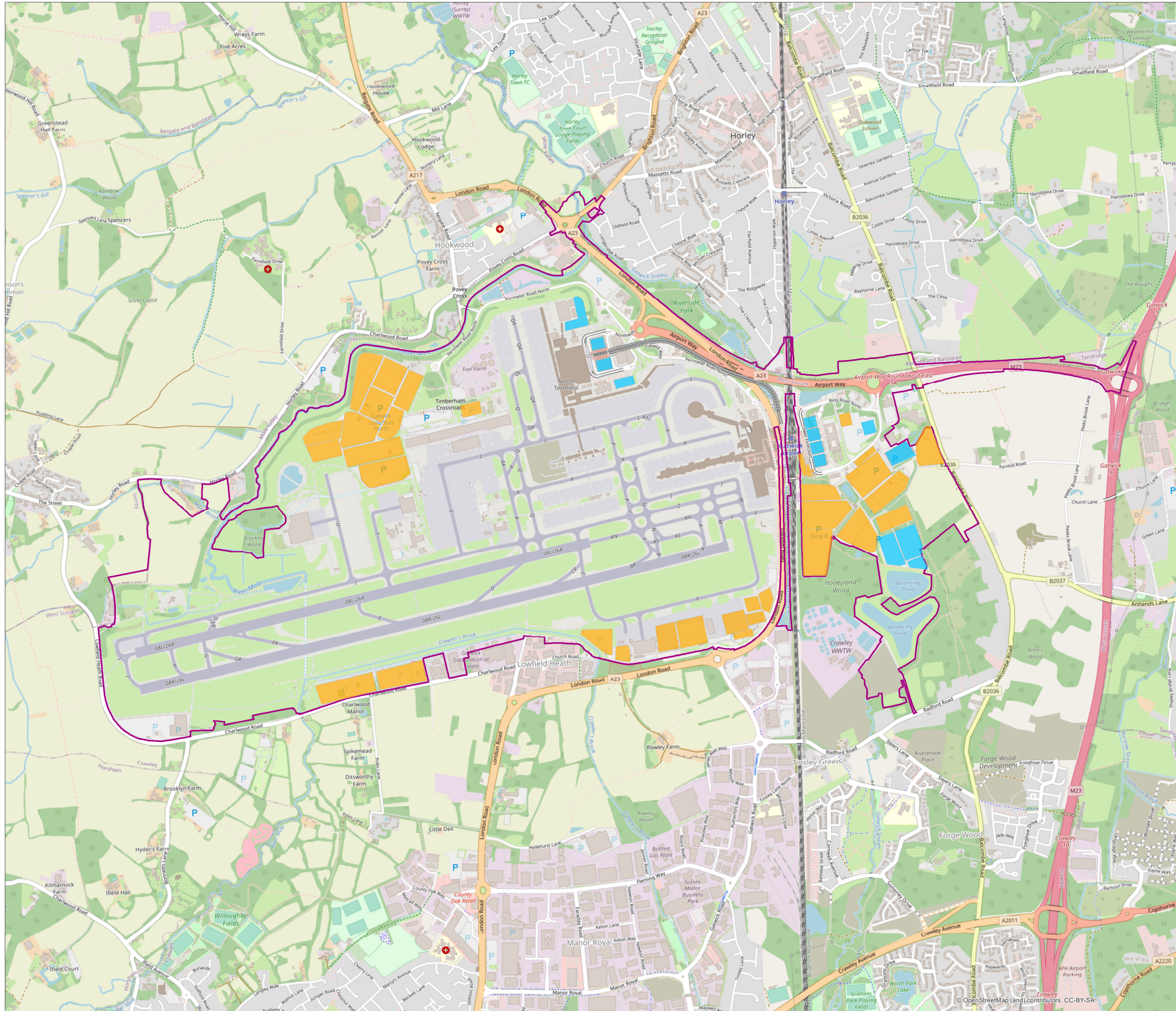
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- Legend**
- Project Site Boundary (ES)
 - Modelled Surface Car Park
 - Modelled Multi-storey Car Park

DOCUMENT
Environmental Statement

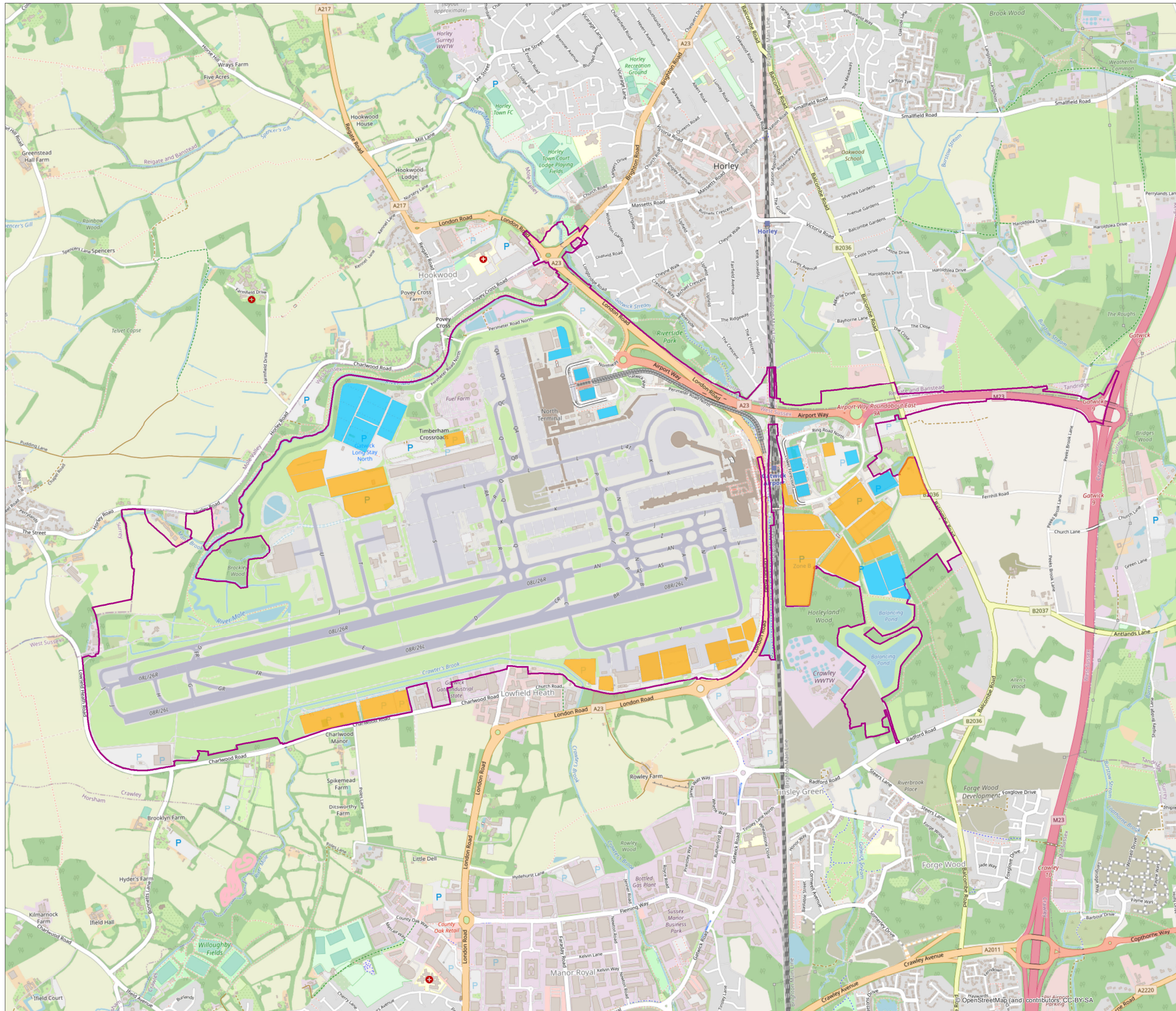
DRAWING TITLE
Location of Modelled Car Parks for the 2029 With Project Scenario

DATE
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	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.4	REVISION For ES Issue
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- Legend**
- Project Site Boundary (ES)
 - Modelled Surface Car Park
 - Modelled Multi-storey Car Park

DOCUMENT
Environmental Statement

DRAWING TITLE
Location of Modelled Car Parks for the 2032 With Project Scenario

DATE
July 2023

	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.5	REVISION For ES Issue
	DRAWN BY SG	PM / CHECKED BY AC

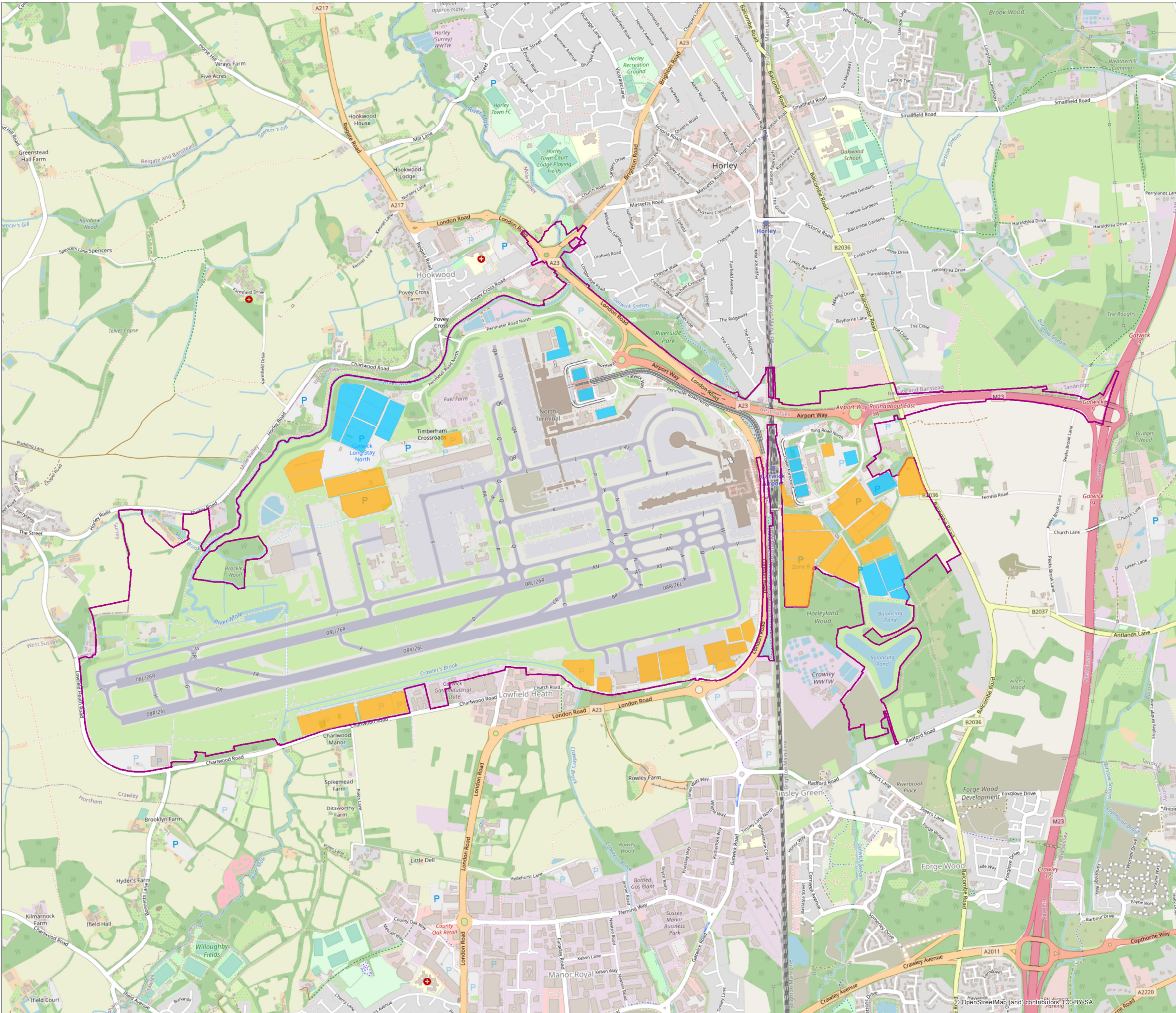


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Legend

- Project Site Boundary (ES)
- Modelled Surface Car Park
- Modelled Multi-storey Car Park



DOCUMENT

Environmental Statement

DRAWING TITLE

Location of Modelled Car Parks for the 2038 with Project Scenario

DATE

July 2023

ORIENTATION



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**APPENDIX 13.4.1
FIGURE 4.1.6**

REVISION
For ES Issue

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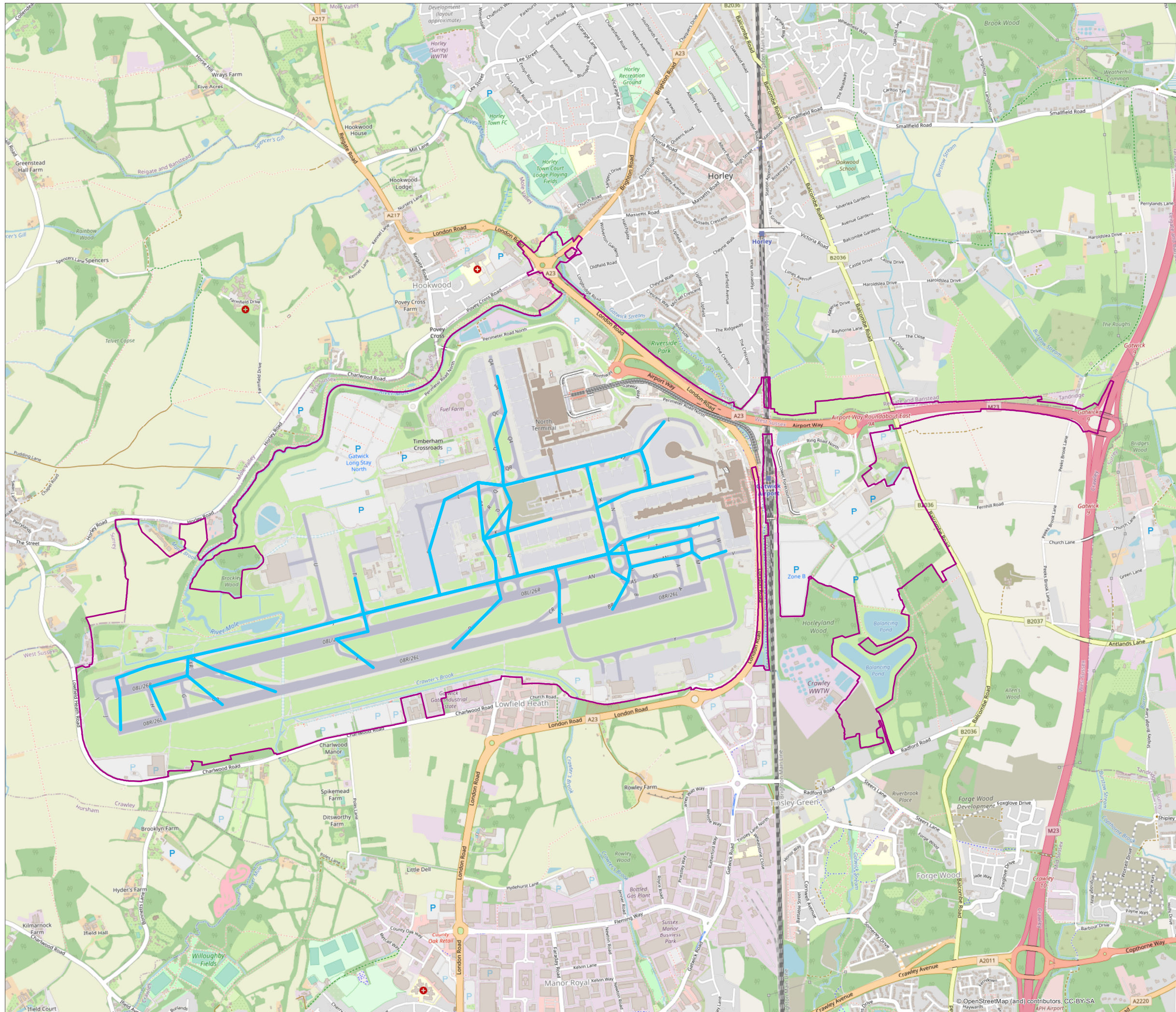
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- Legend**
- Project Site Boundary (ES)
 - Taxi in

DOCUMENT
Environmental Statement

DRAWING TITLE
**Modelled LTO Sources -
Taxi In for 2018 Baseline
Scenario**

DATE
July 2023

	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.7	REVISION For ES Issue
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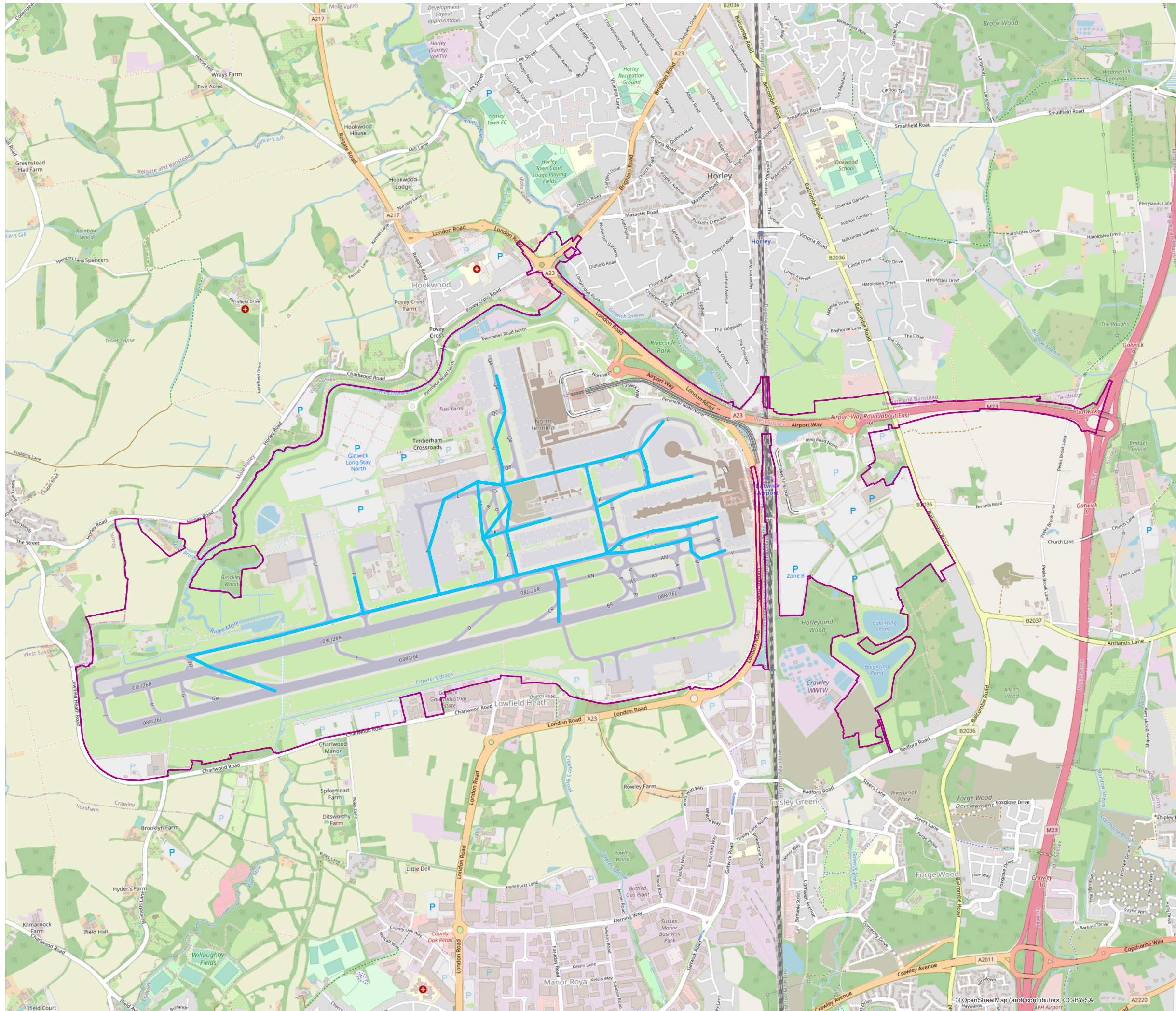


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Legend

- Project Site Boundary (ES)
- Taxi in



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Environmental Statement

DRAWING TITLE
**Modelled LTO Sources -
Taxi In for Without Project
Scenarios**

DATE
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	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.8	REVISION For ES Issue
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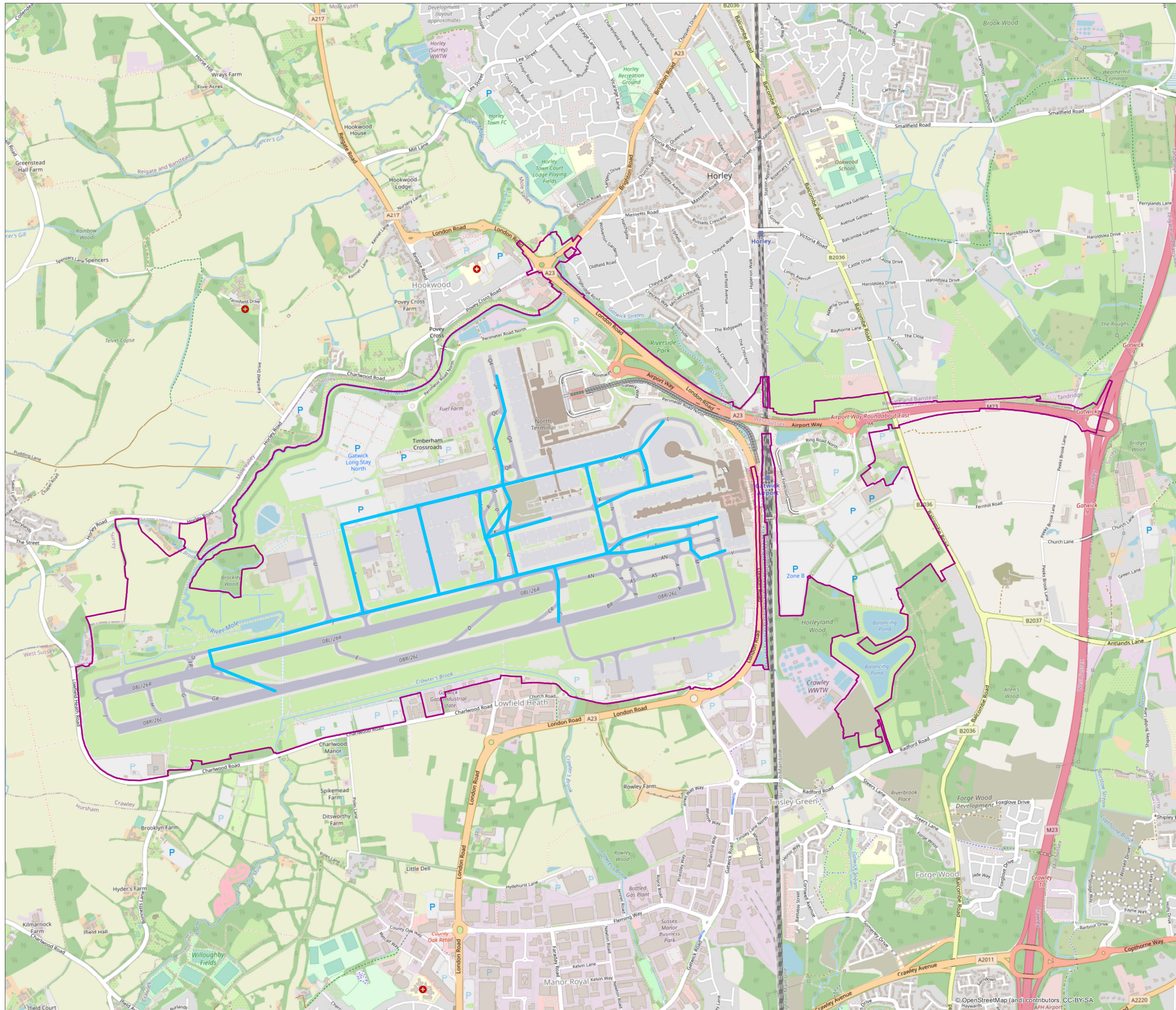
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Legend

- Project Site Boundary (ES)
- Taxi in



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Environmental Statement

DRAWING TITLE

Modelled LTO Sources -
Taxi In for With Project
Scenarios

DATE

July 2023

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APPENDIX 13.4.1
FIGURE 4.1.9

REVISION

For ES Issue

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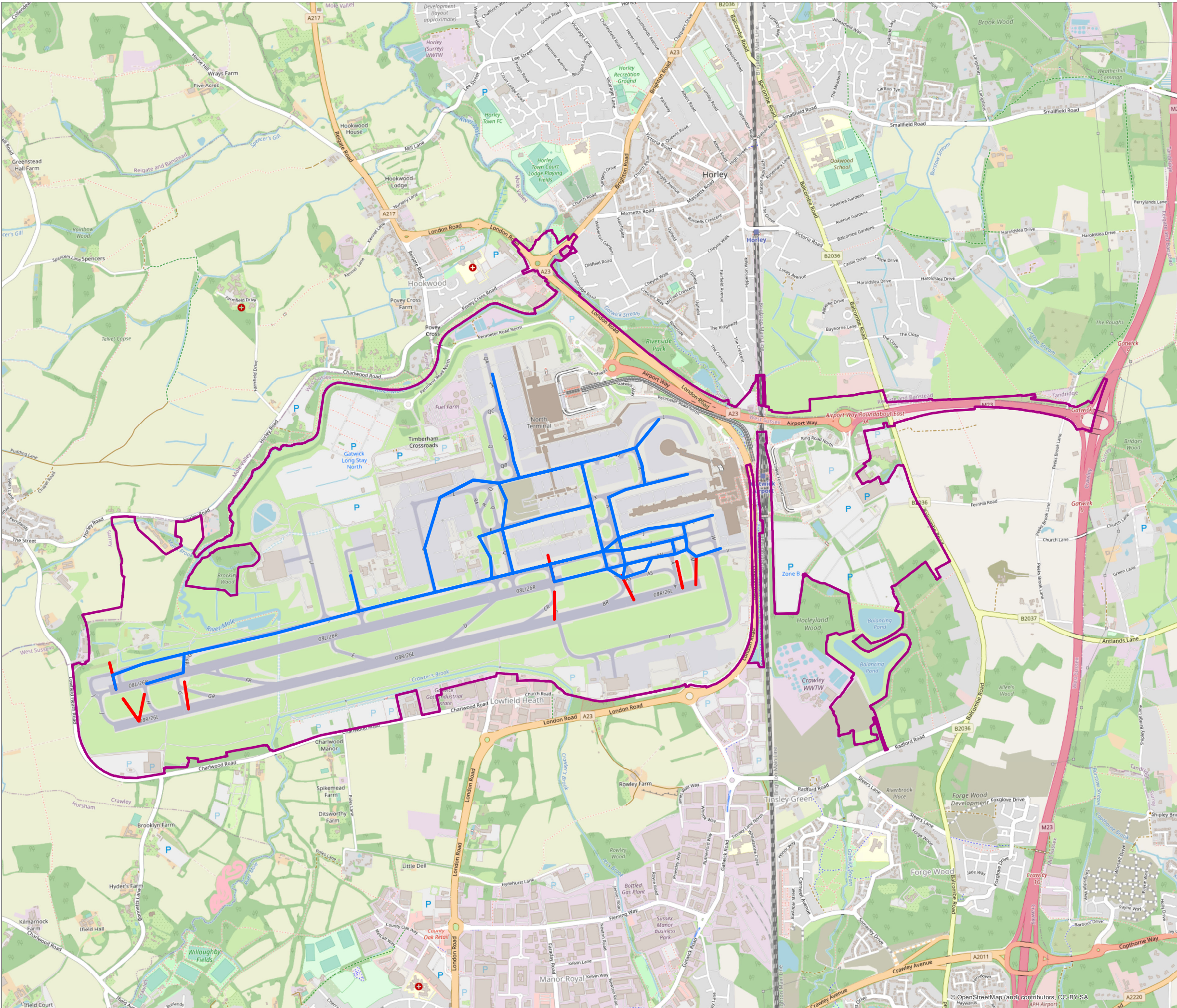
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- Legend**
- Project Site Boundary (ES)
 - Hold
 - Taxi Out

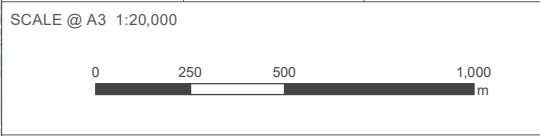


DOCUMENT
Environmental Statement

DRAWING TITLE
Modelled LTO Sources - Taxi Out and Hold for 2018 Baseline Scenario

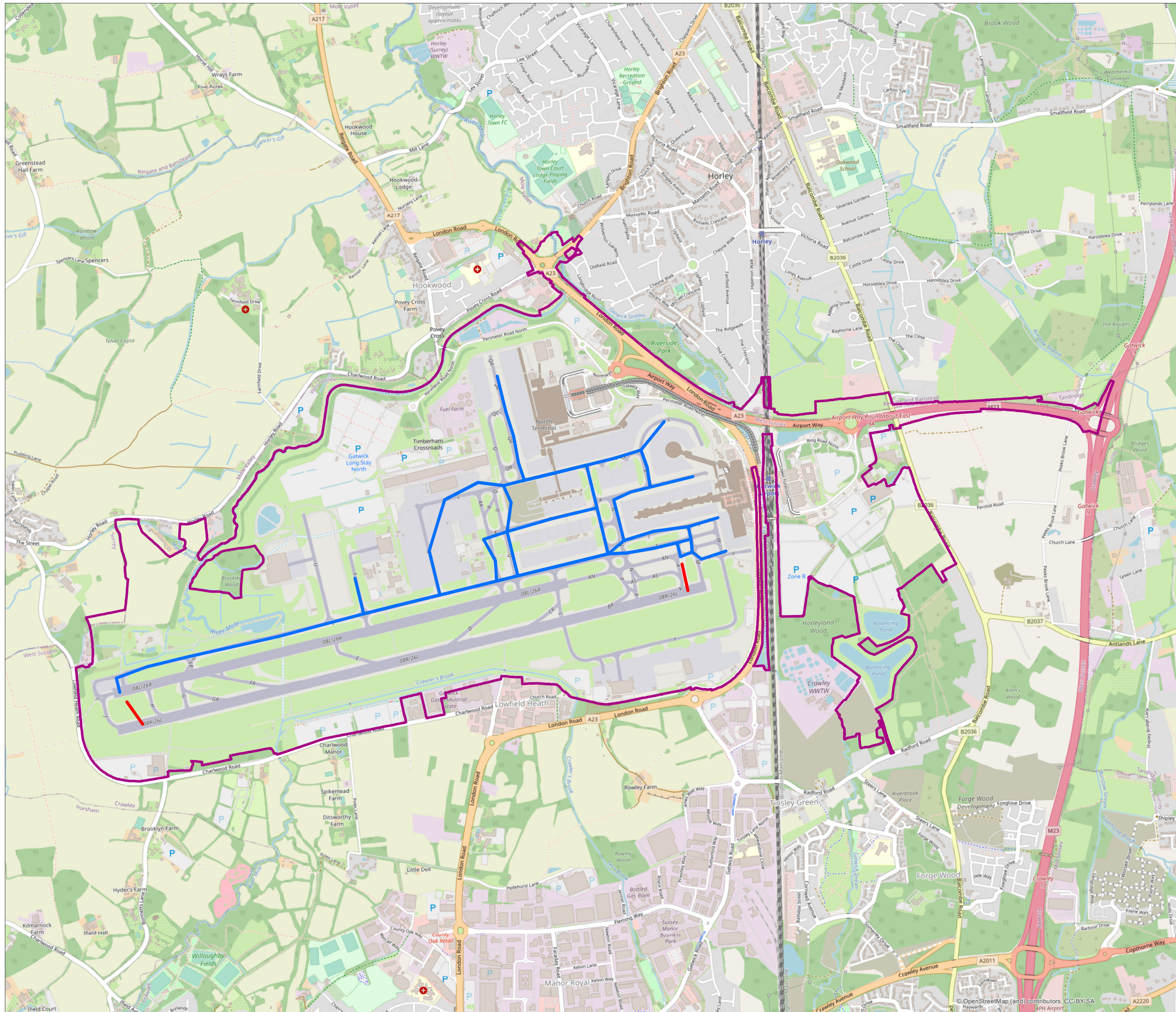
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	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.10	REVISION For ES Issue
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- Legend**
- Project Site Boundary (ES)
 - Taxi Out
 - Hold

DOCUMENT
Environmental Statement

DRAWING TITLE
**Modelled LTO Sources -
Taxi Out and Hold
for Without Project Scenarios**

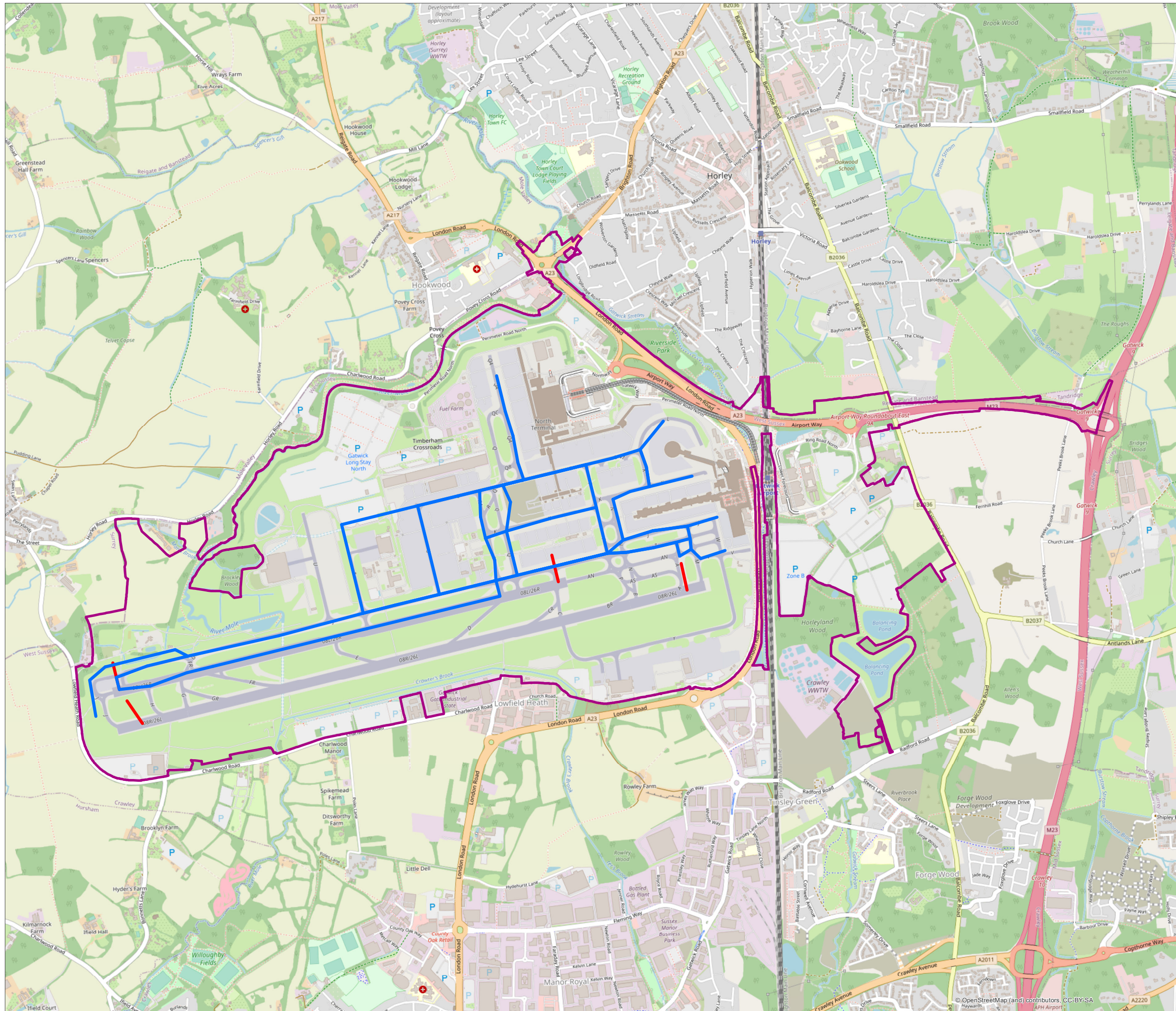
DATE
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	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.11	REVISION For ES Issue
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- Legend**
- Project Site Boundary (ES)
 - Taxi Out
 - Hold

DOCUMENT
Environmental Statement

DRAWING TITLE
Modelled LTO Sources -
Taxi Out and Hold
for With Project Scenarios

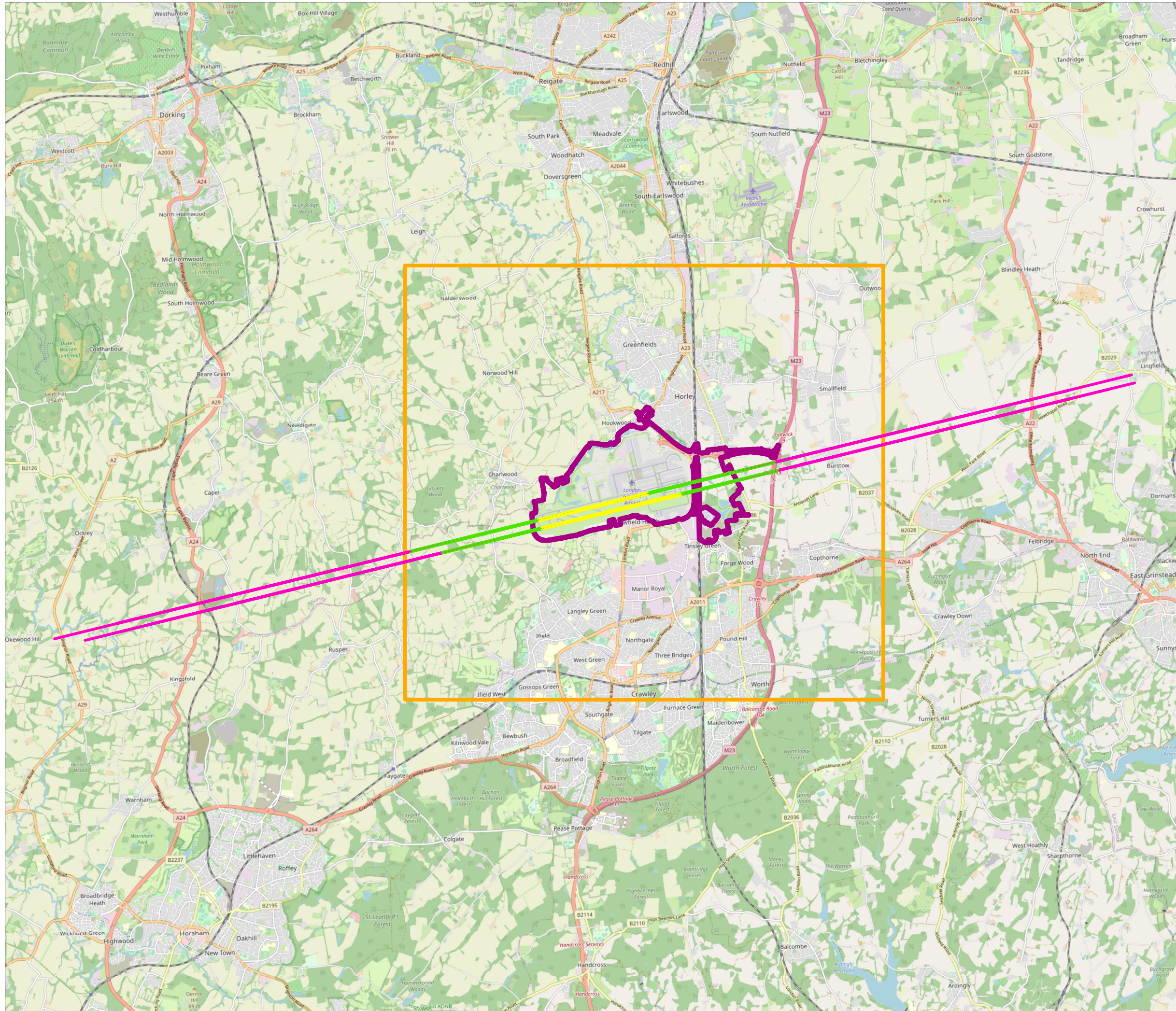
DATE
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	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.12	REVISION For ES Issue
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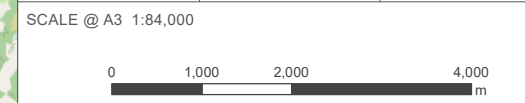
- Legend**
- Project Site Boundary
 - 11 km x 10 km domain
 - Take Off Roll
 - Initial Climb
 - Climb Out

DOCUMENT
Environmental Statement

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**Modelled LTO Sources -
Take Off Roll, Initial Climb and
Climb Out**

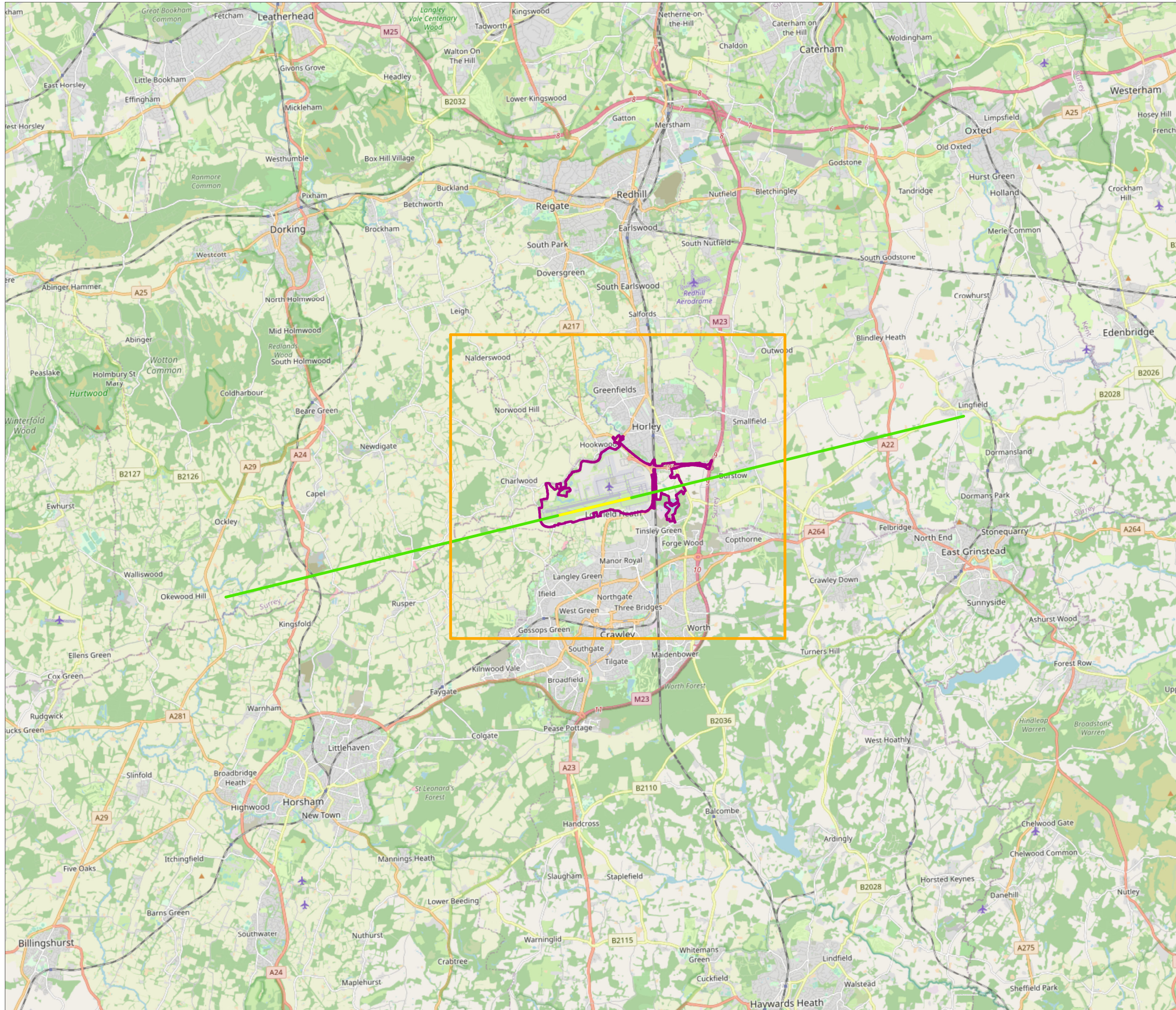
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 N	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.13	REVISION For ES Issue
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- Legend**
- Project Site Boundary (ES)
 - 11 km x 10 km domain
 - Landing
 - Approach

DOCUMENT
Environmental Statement

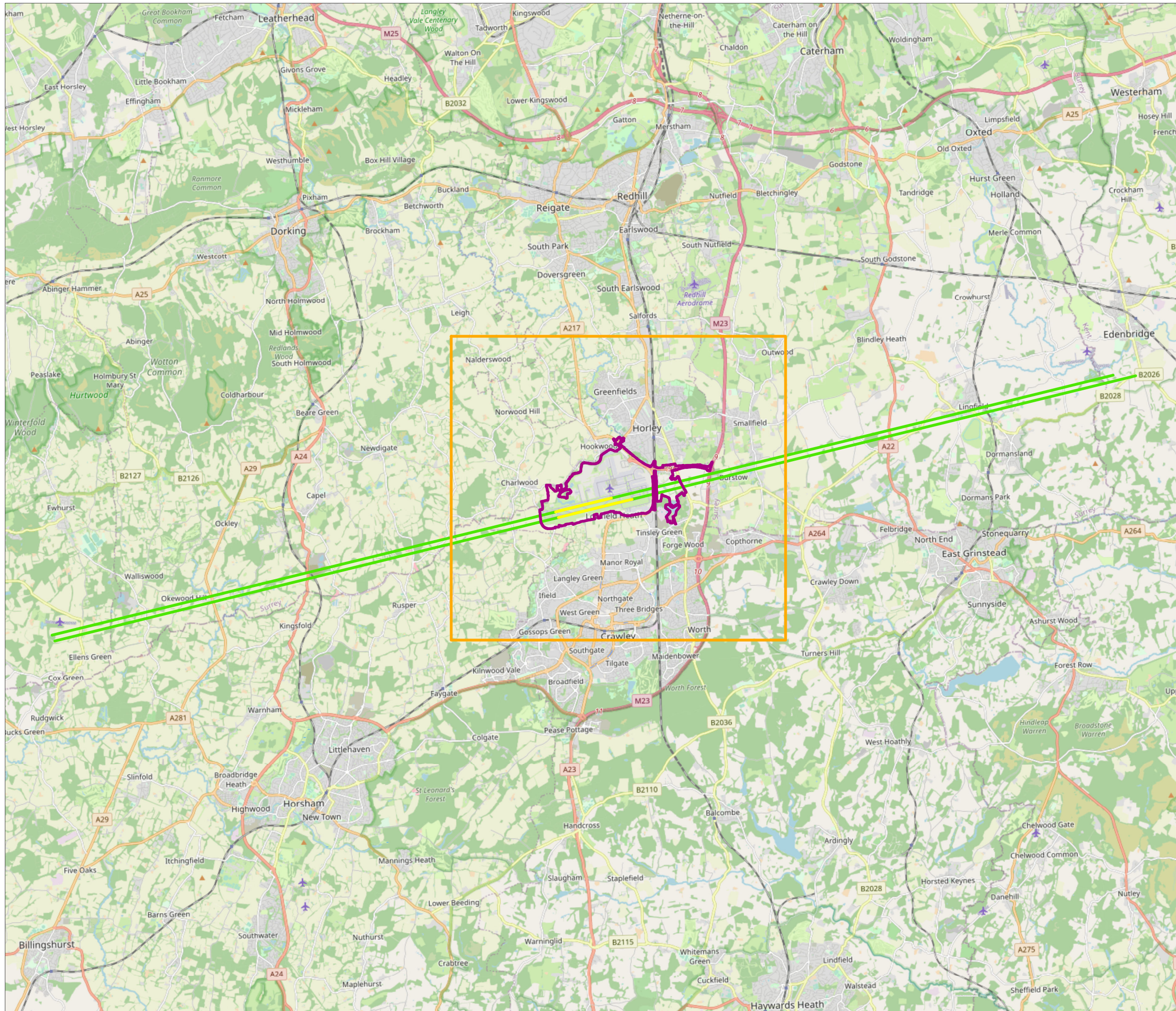
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Modelled LTO Sources -
Approach and Landing for
2018 Baseline Scenario

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	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.14	REVISION For ES Issue
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- Legend**
- Project Site Boundary (ES)
 - 11 km x 10 km domain
 - Landing
 - Approach

DOCUMENT
Environmental Statement

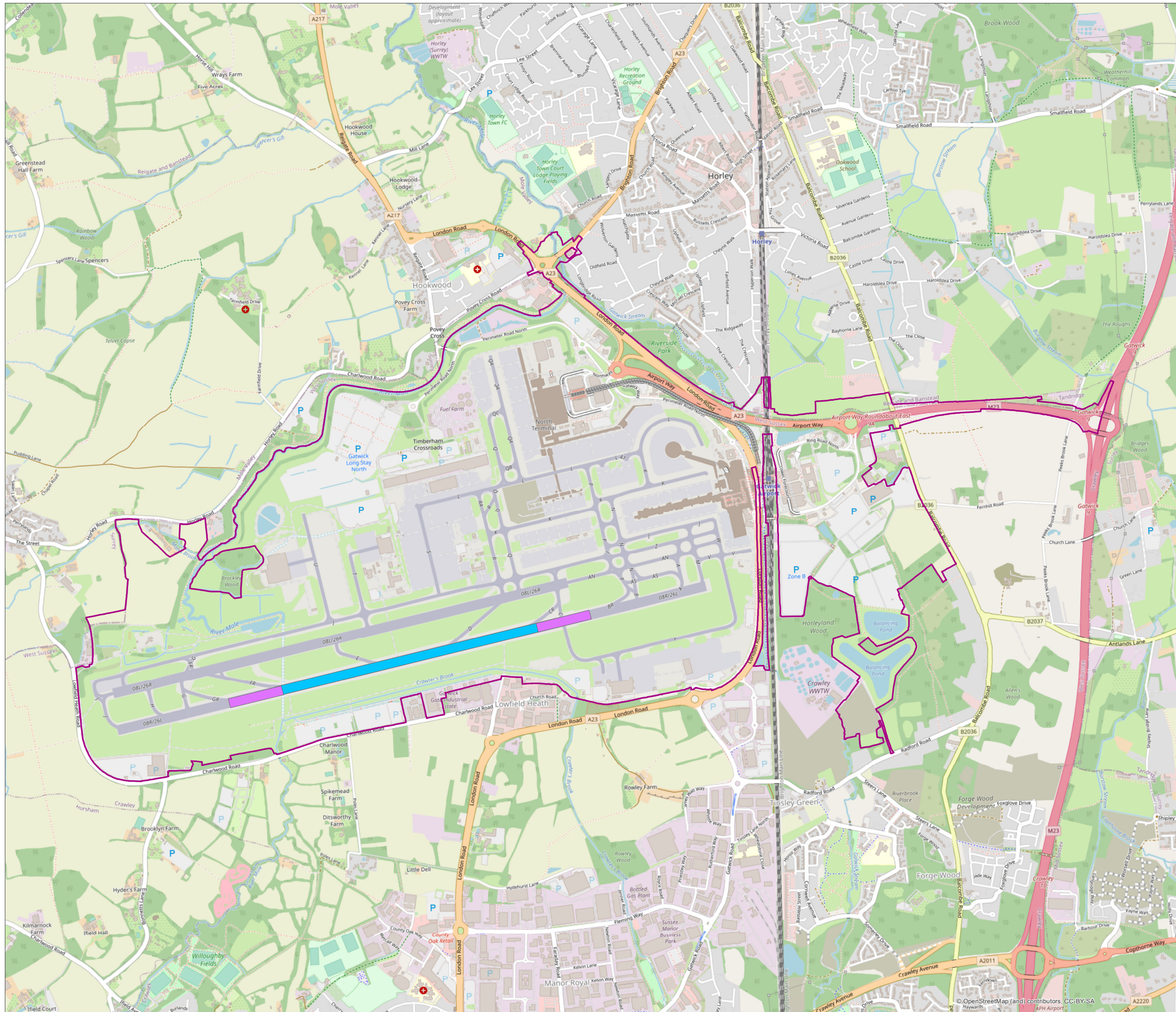
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**Modelled LTO Sources -
Approach and Landing for
Future Scenarios**

DATE
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	APPENDIX 13.4.1 FIGURE 4.1.15	For ES Issue
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- Legend**
- Project Site Boundary (ES)
 - Tyre Wear
 - Brake Wear

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Brake and Tyre Wear for 2018 Base Scenarios

DATE
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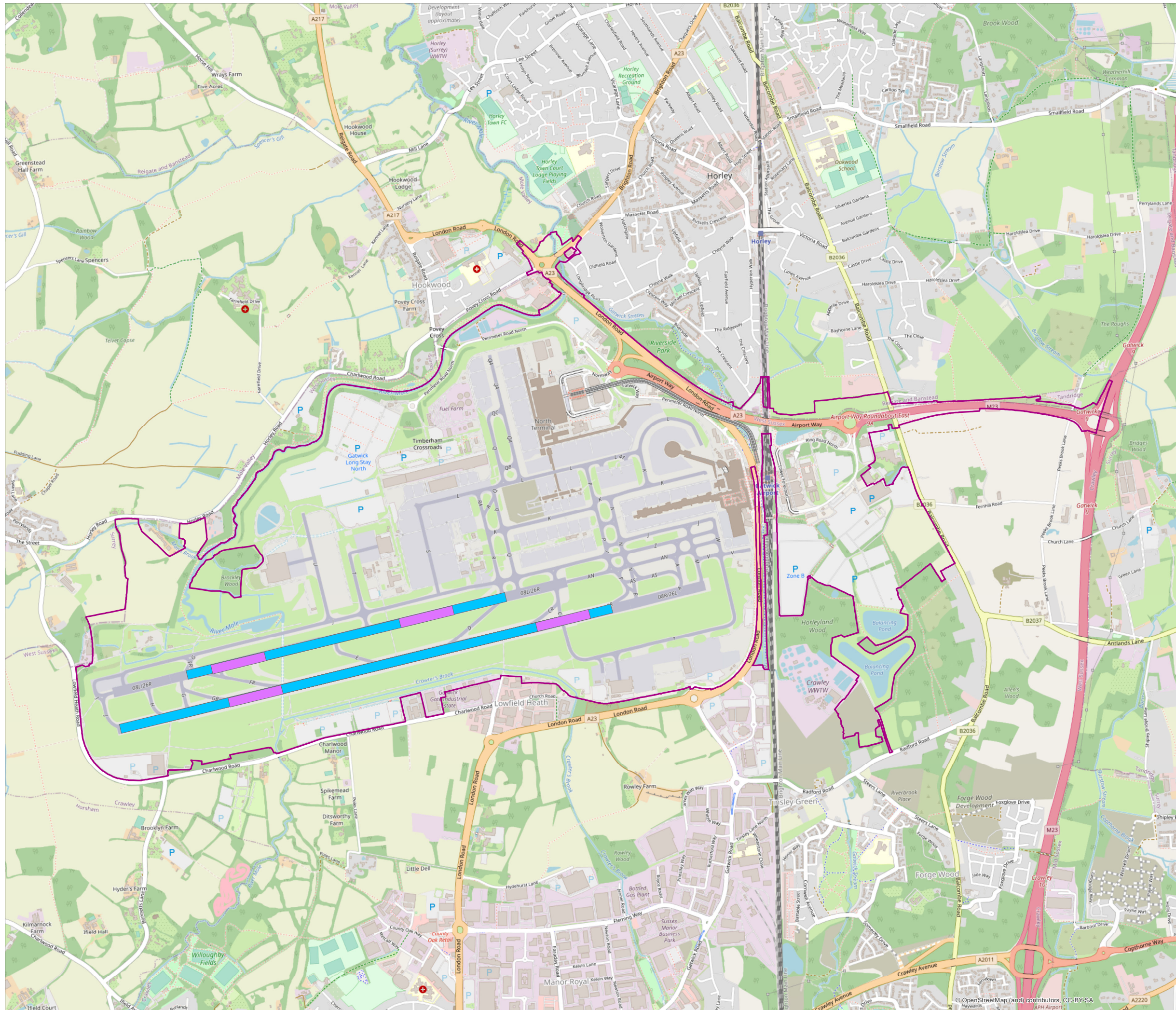


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Legend

-  Project Site Boundary (ES)
-  Tyre Wear
-  Brake Wear



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Brake and Tyre Wear
for Future Scenarios

DATE

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**APPENDIX
13.4.1 FIGURE
4.1.17**

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For ES Issue

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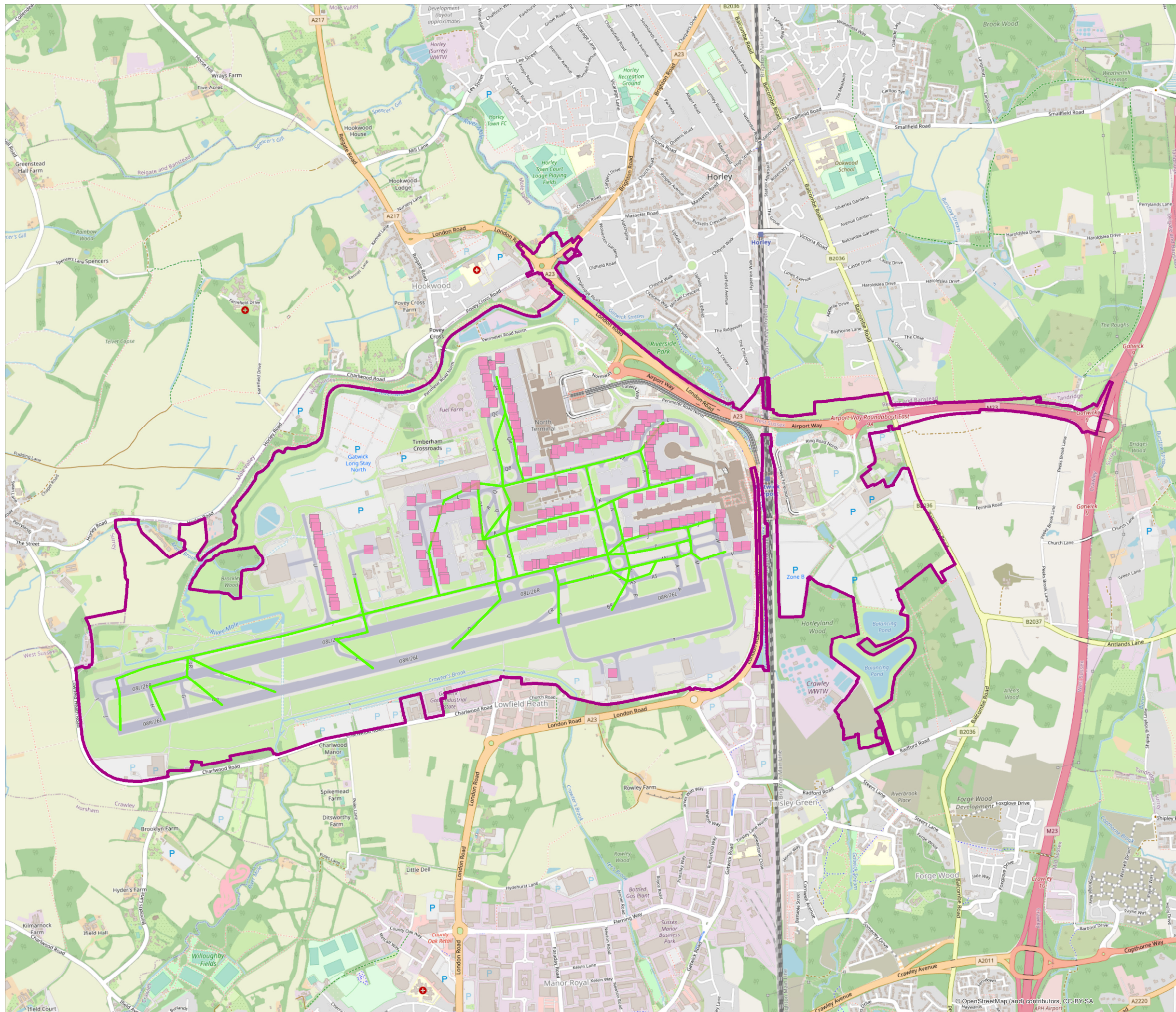


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Legend

- Project Site Boundary (ES)
- On-stand Auxillary Power Unit
- Auxillary Power Unit in use during taxiing

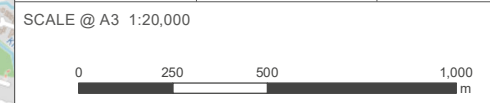


DOCUMENT
Environmental Statement

DRAWING TITLE
Auxiliary Power Units for 2018 Baseline Scenario

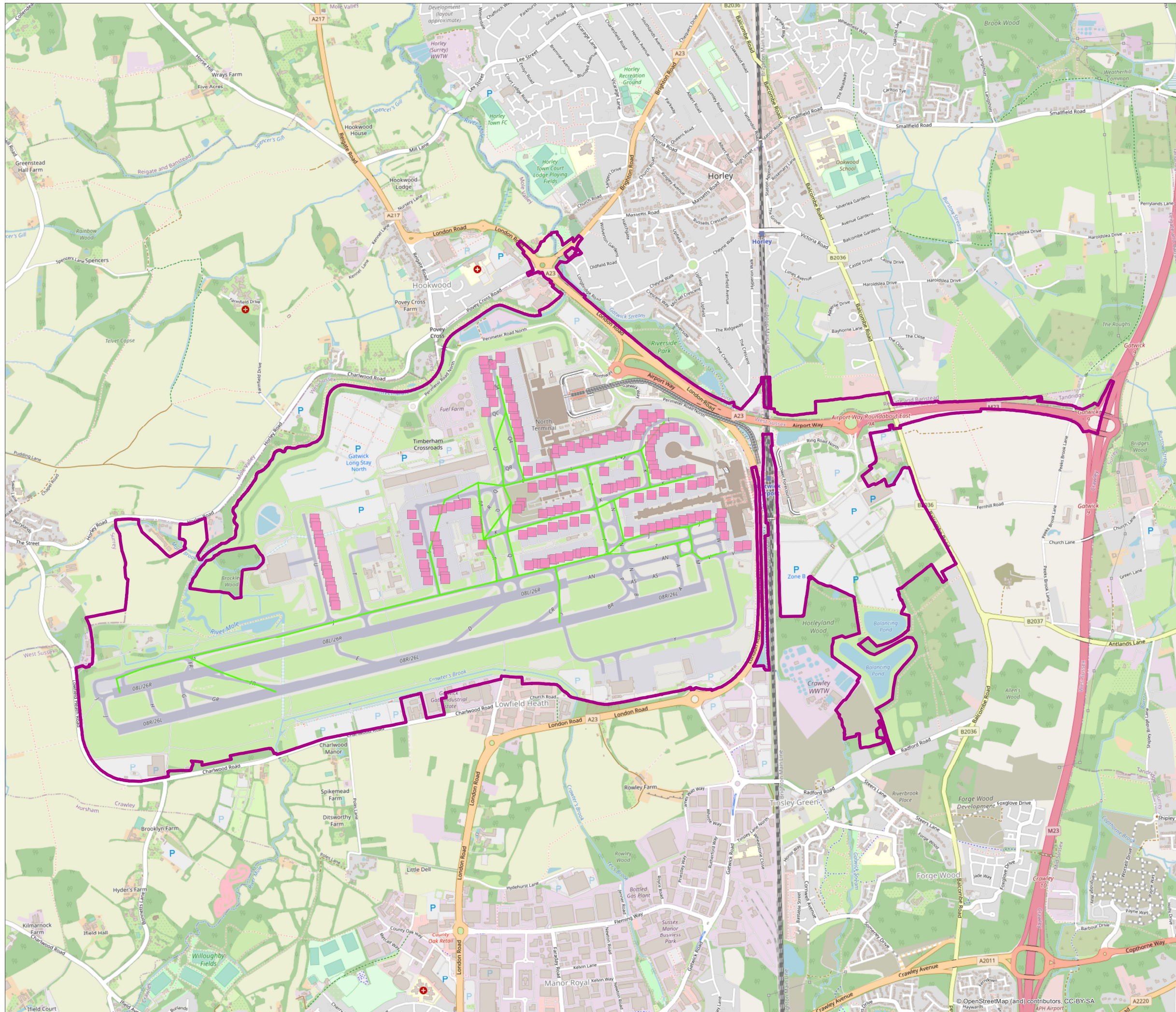
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	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.18	REVISION For ES Issue
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- Legend**
- Project Site Boundary
 - On-stand Auxillary Power Unit
 - Auxillary Power Unit in use during taxiing

DOCUMENT
Environmental Statement

DRAWING TITLE
Auxiliary Power Units for Without Project Scenarios

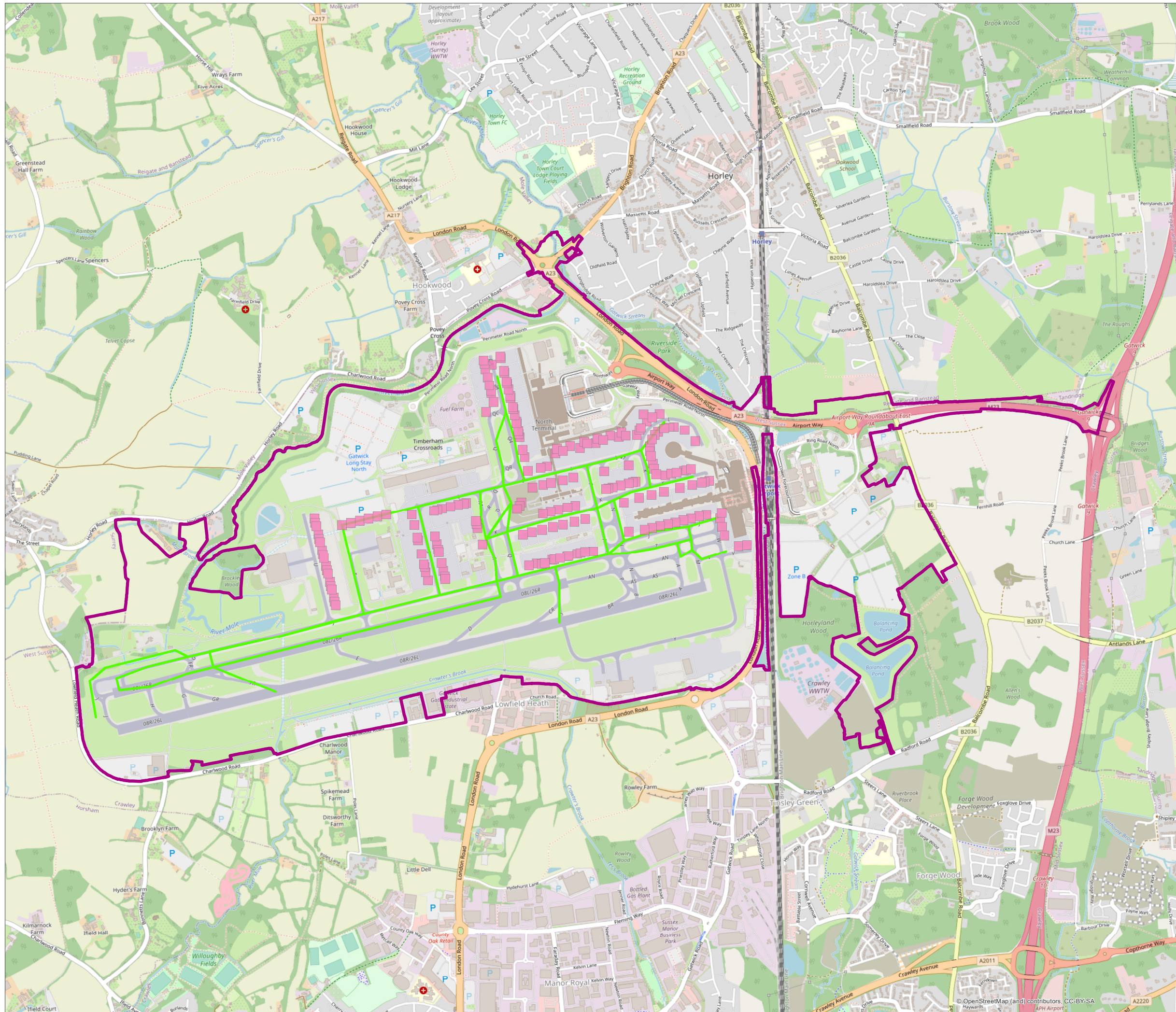
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	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.19	REVISION For ES Issue
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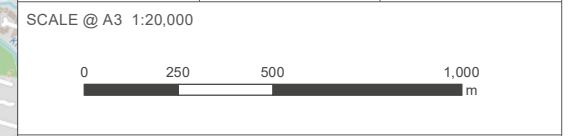
- Legend**
- Project Site Boundary (ES)
 - On-stand Auxillary Power Unit
 - Auxillary Power Unit in use during taxiing

DOCUMENT
Environmental Statement

DRAWING TITLE
Auxiliary Power Units with Project Scenarios

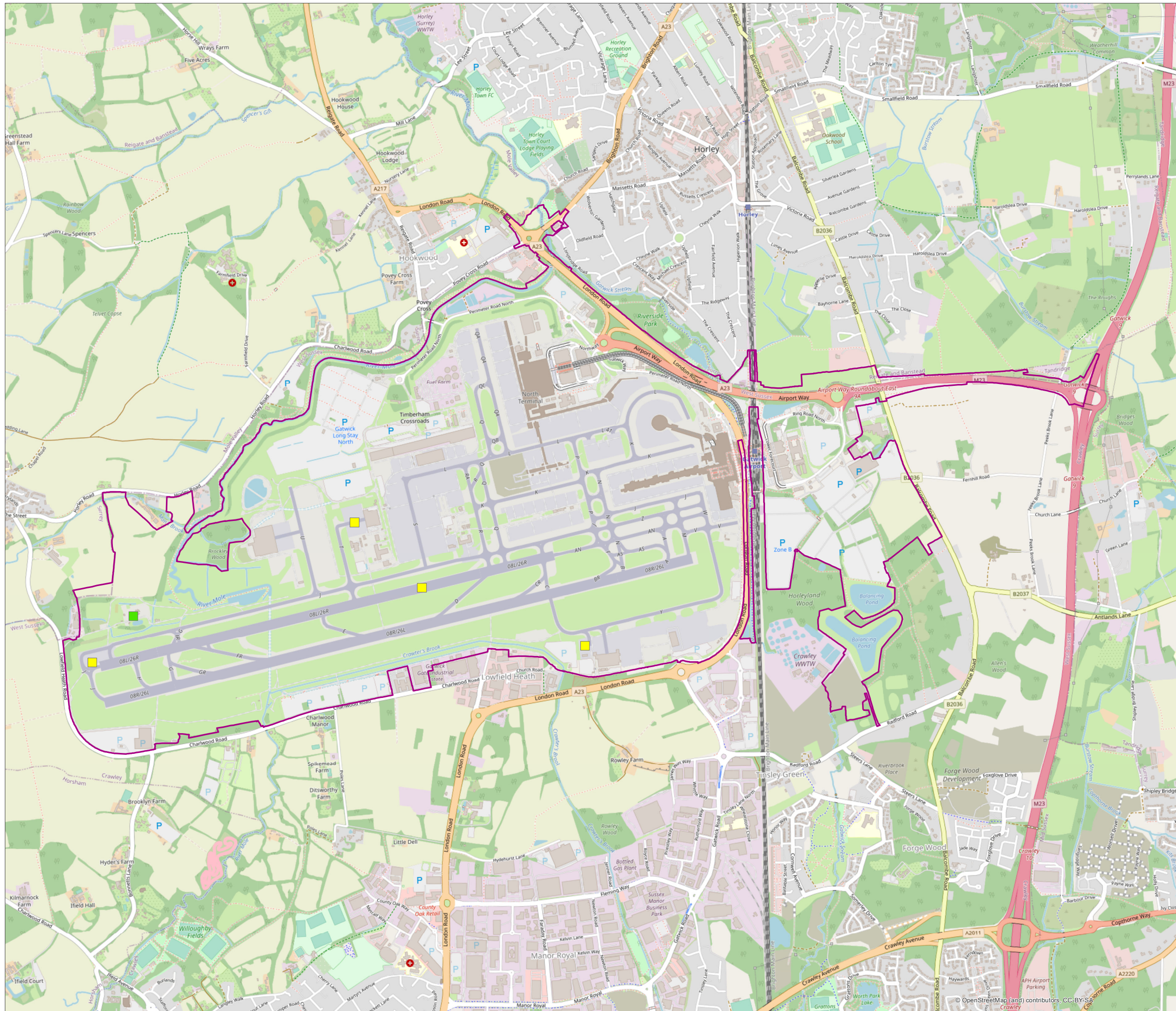
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	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.20	REVISION For ES Issue
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- Legend**
- Project Site Boundary (ES)
 - Engine Testing
 - Fire Training Ground

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Environmental Statement

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Engine Testing and Fire Training Ground

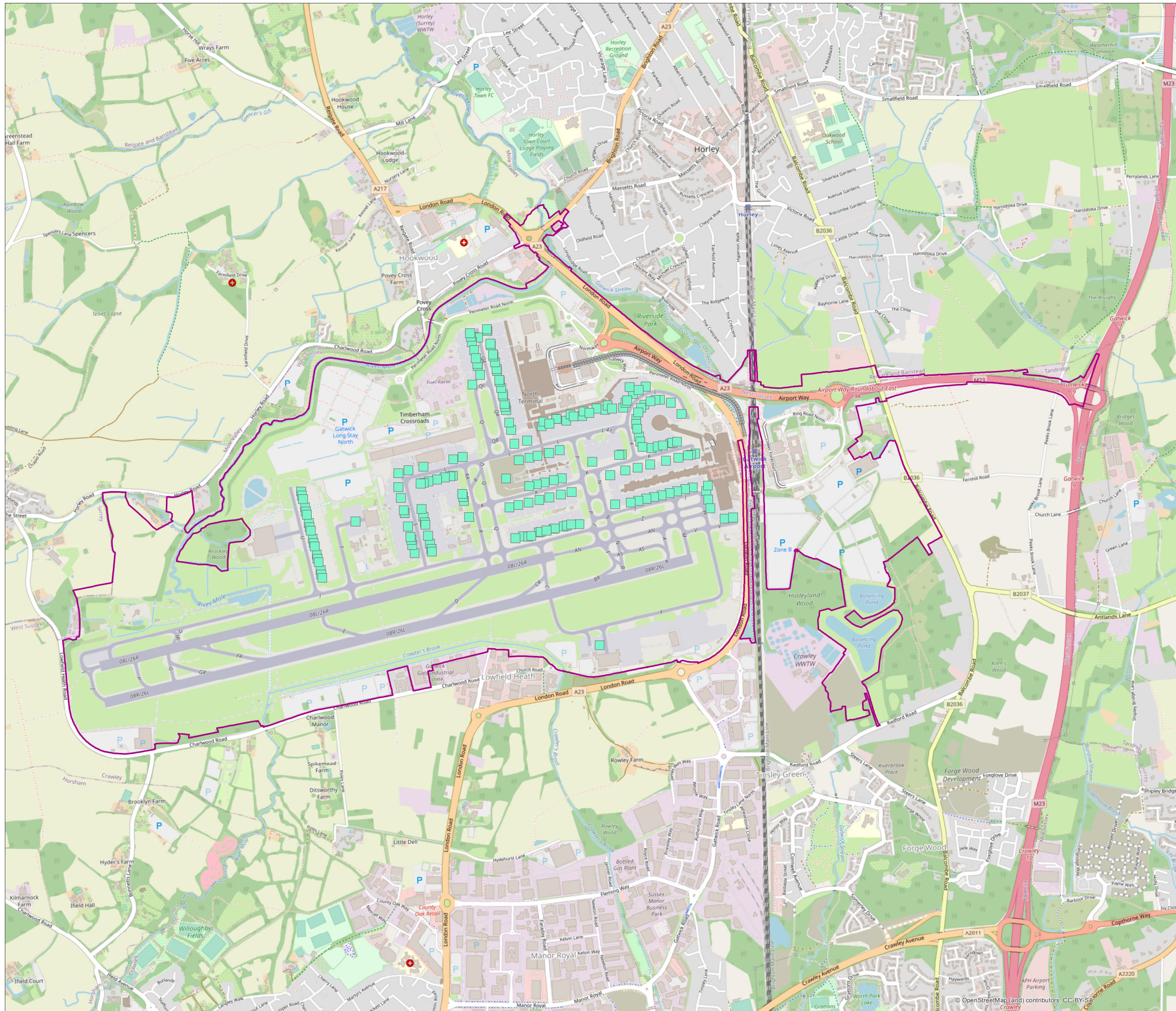
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July 2023

	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.21	REVISION For ES Issue
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- Legend**
- Project Site Boundary (ES)
 - Ground Support Equipment

DOCUMENT
Environmental Statement

DRAWING TITLE
Ground Support Equipment for
2018 Baseline Scenario

DATE
July 2023

	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.22	REVISION For ES Issue
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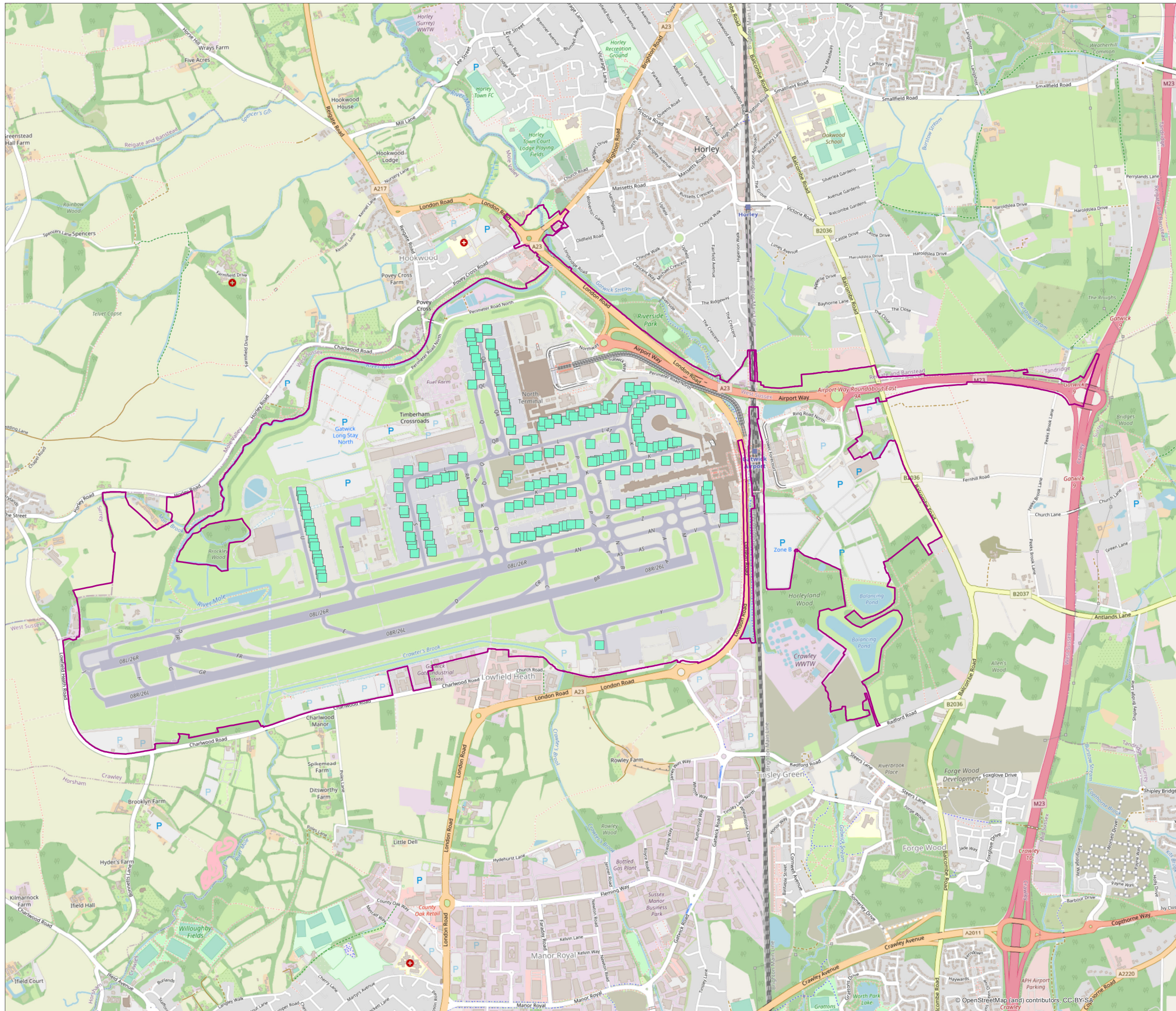


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Legend

- Project Site Boundary (ES)
- Ground Support Equipment



DOCUMENT

Environmental Statement

DRAWING TITLE

Ground Support Equipment for Without Project Scenarios

DATE

July 2023

ORIENTATION



DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.23	REVISION For ES Issue
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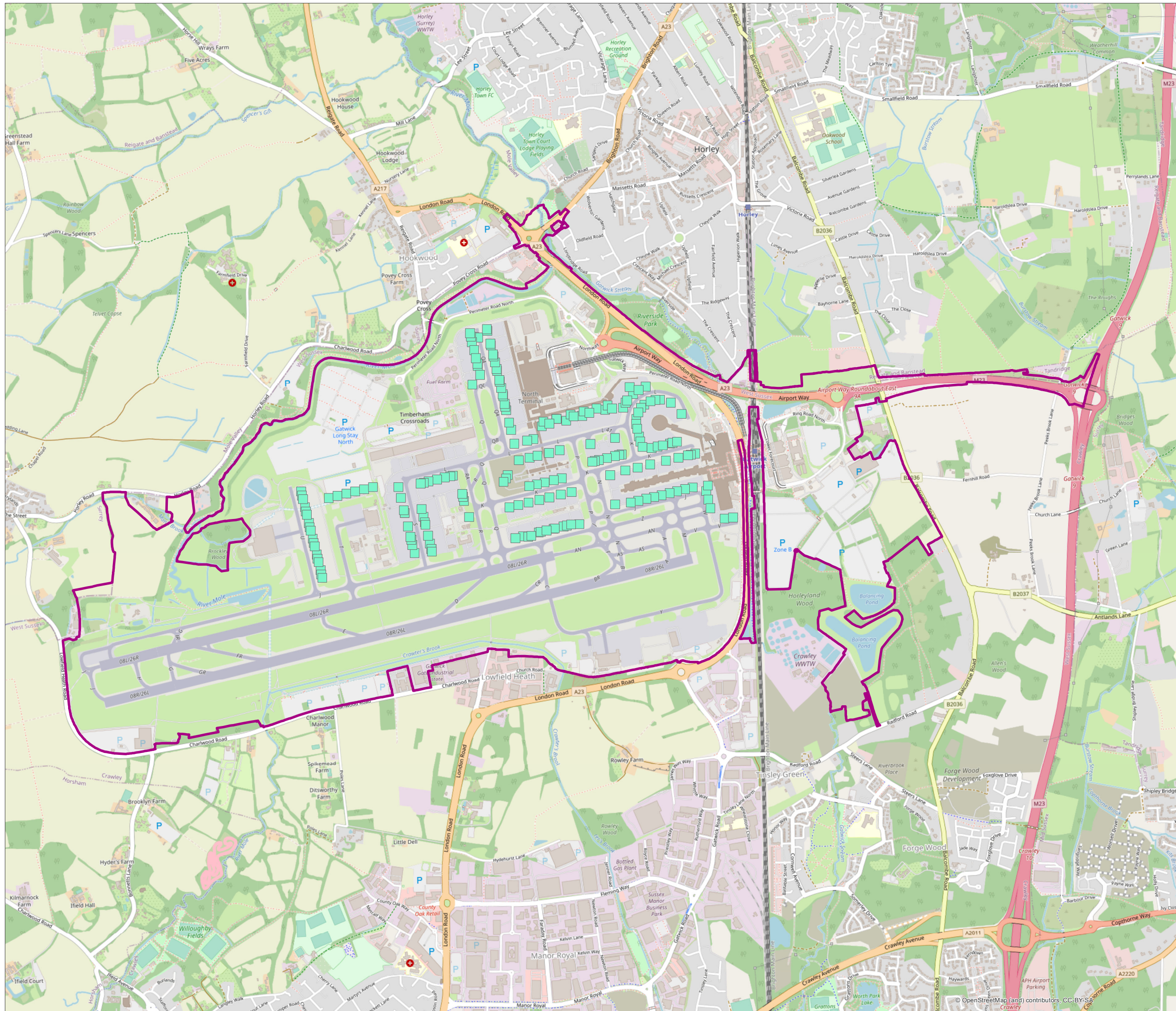


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Legend

- Project Site Boundary (ES)
- Ground Support Equipment



DOCUMENT

Environmental Statement

DRAWING TITLE

Ground Support Equipment
for With Project Scenarios

DATE

July 2023

ORIENTATION



DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.24	REVISION For ES Issue
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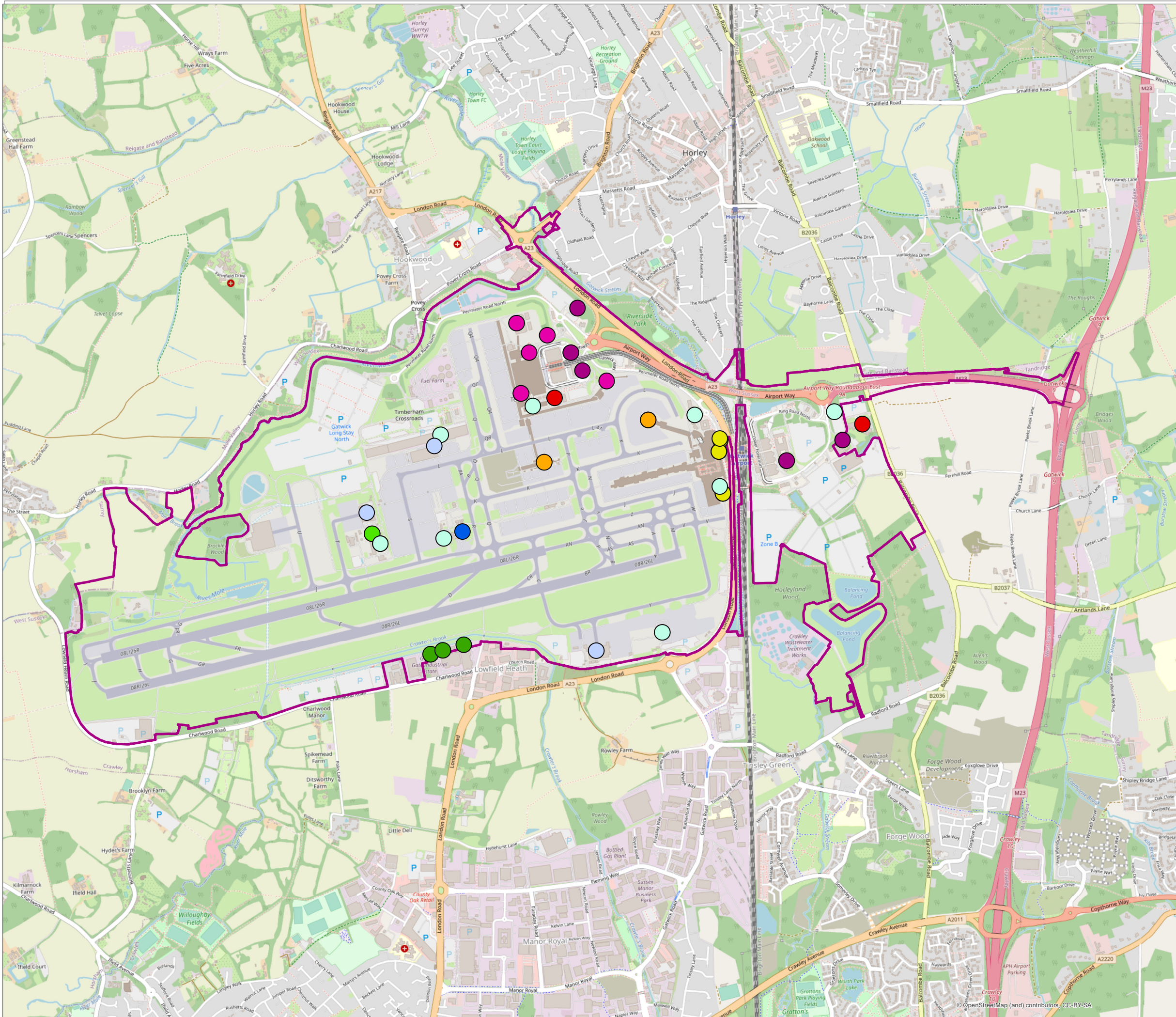
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Legend

- Project Site Boundary (ES)
- Airport Activities
- Biomass
- Building
- Fire Station
- Hangar
- Hotel
- North Terminal
- Office
- Pier
- South Terminal

DOCUMENT

Environmental Statement

DRAWING TITLE

Energy Plant for 2018 Baseline and Without Project Scenarios

DATE

July 2023

ORIENTATION



DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.25	REVISION For ES Issue
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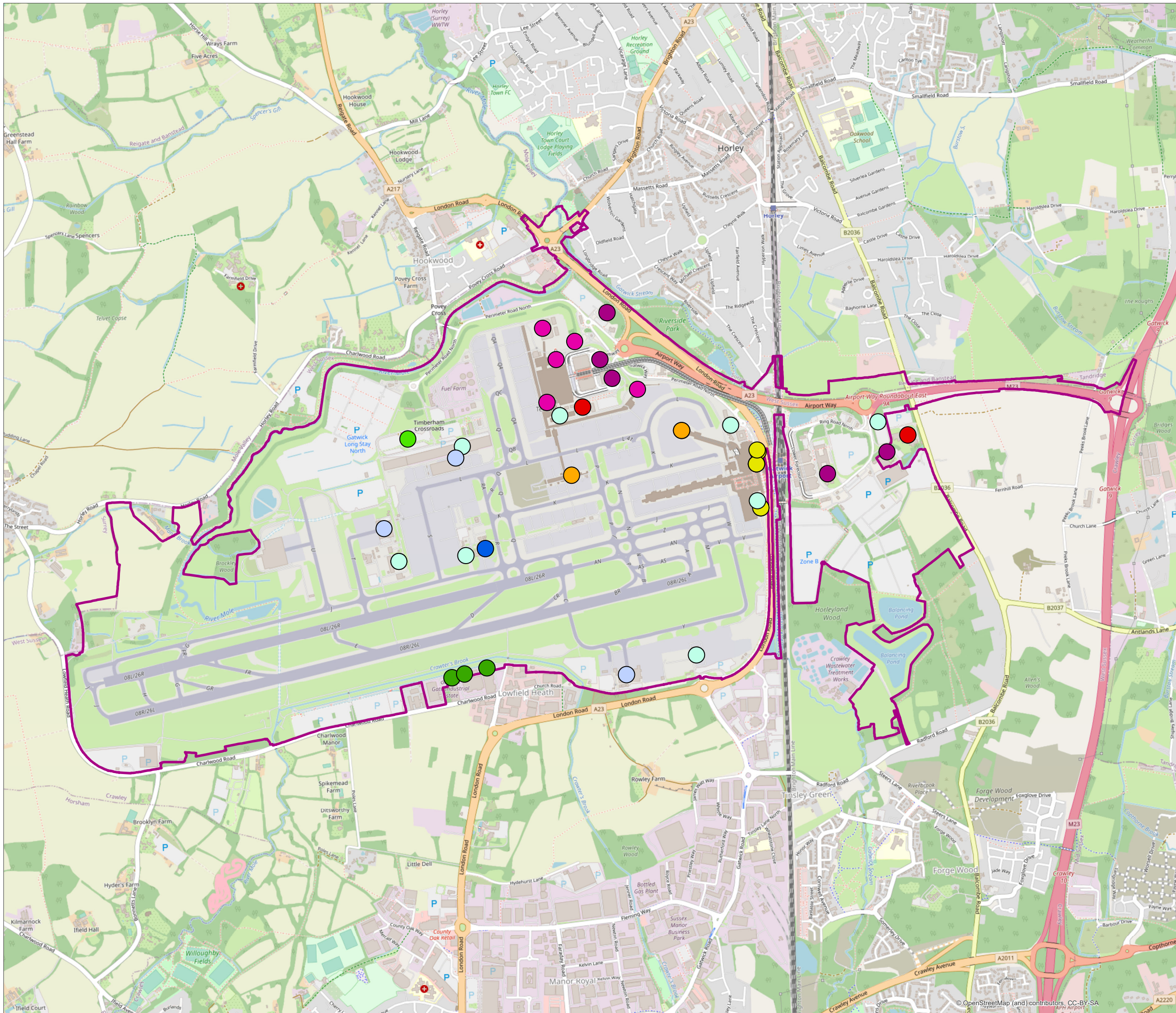
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Legend

Project Site Boundary (ES)

Energy Plants

- Airport Activities
- Biomass
- Building
- Fire Station
- Hangar
- Hotel
- North Terminal
- Office
- Pier
- South Terminal

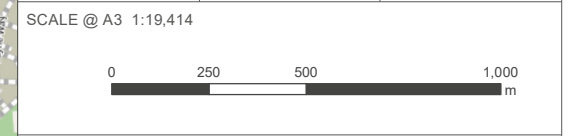


DOCUMENT
Environmental Statement

DRAWING TITLE
Energy Plant for With Project Scenarios

DATE
July 2023

	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.26	REVISION For ES Issue
	DRAWN BY CD	PM / CHECKED BY AC

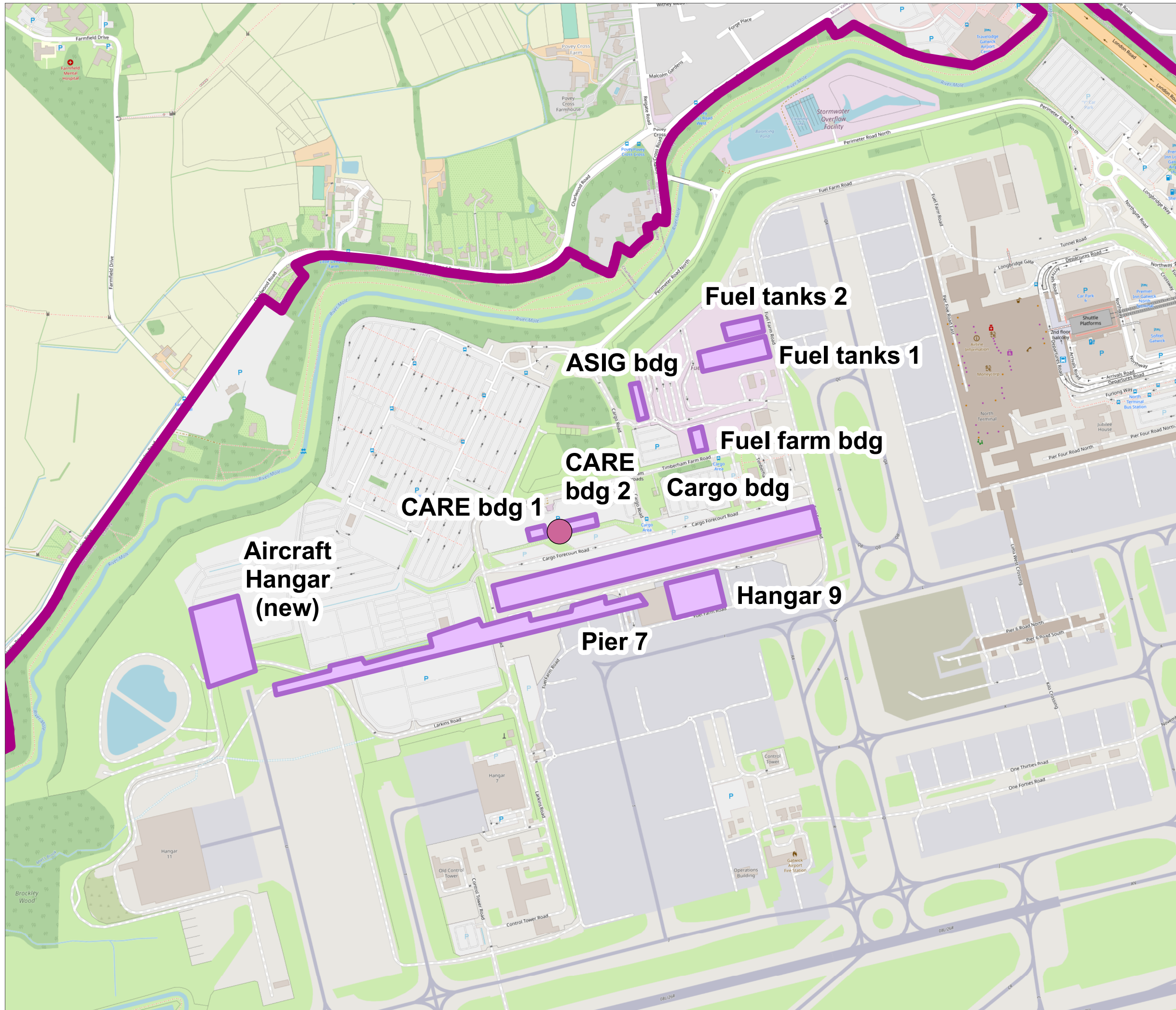


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Legend

- Project Site Boundary (ES)
- Buildings
- CARE facility



DOCUMENT
Environmental Statement

DRAWING TITLE
CARE Facility

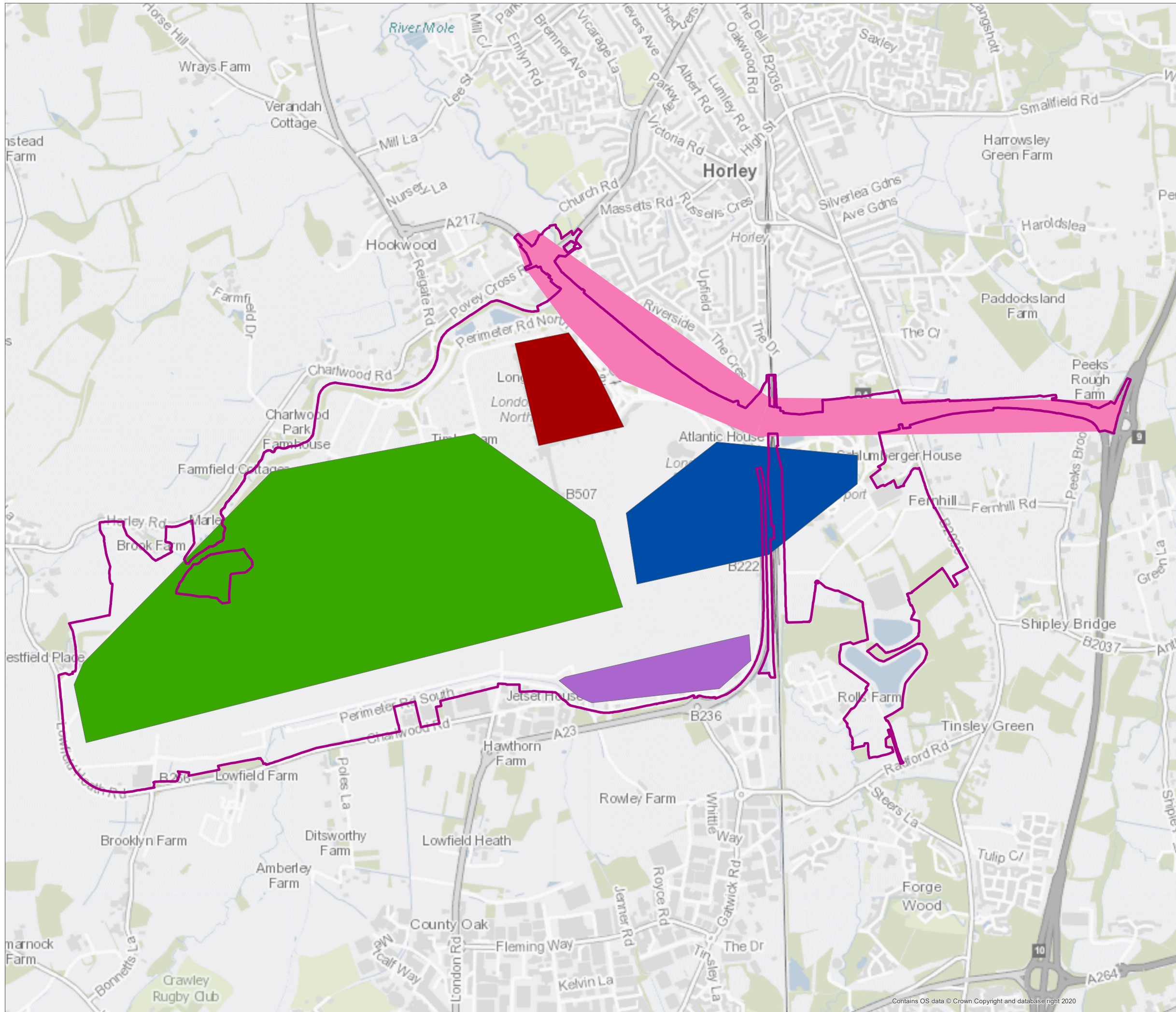
DATE
July 2023

	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.27	REVISION For ES Issue
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SCALE @ A3 1:6,500

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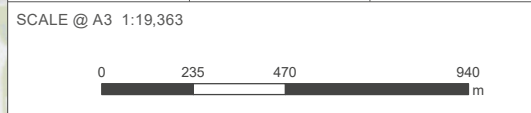
- Legend**
- Project Site Boundary
 - NRMM Areas**
 - NW Airfield Construction
 - North Terminal
 - SE Airfield Construction
 - South Terminal, Hotel and Commercial
 - Surface Access Construction

DOCUMENT
Environmental Statement

DRAWING TITLE
Non-Road Mobile Machinery Areas

DATE
July 2023

	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.28	REVISION For ES Issue
	DRAWN BY GP	PM / CHECKED BY CA



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