



# Gatwick Airport Northern Runway Project

Environmental Statement  
Air Quality Figures - Part 2

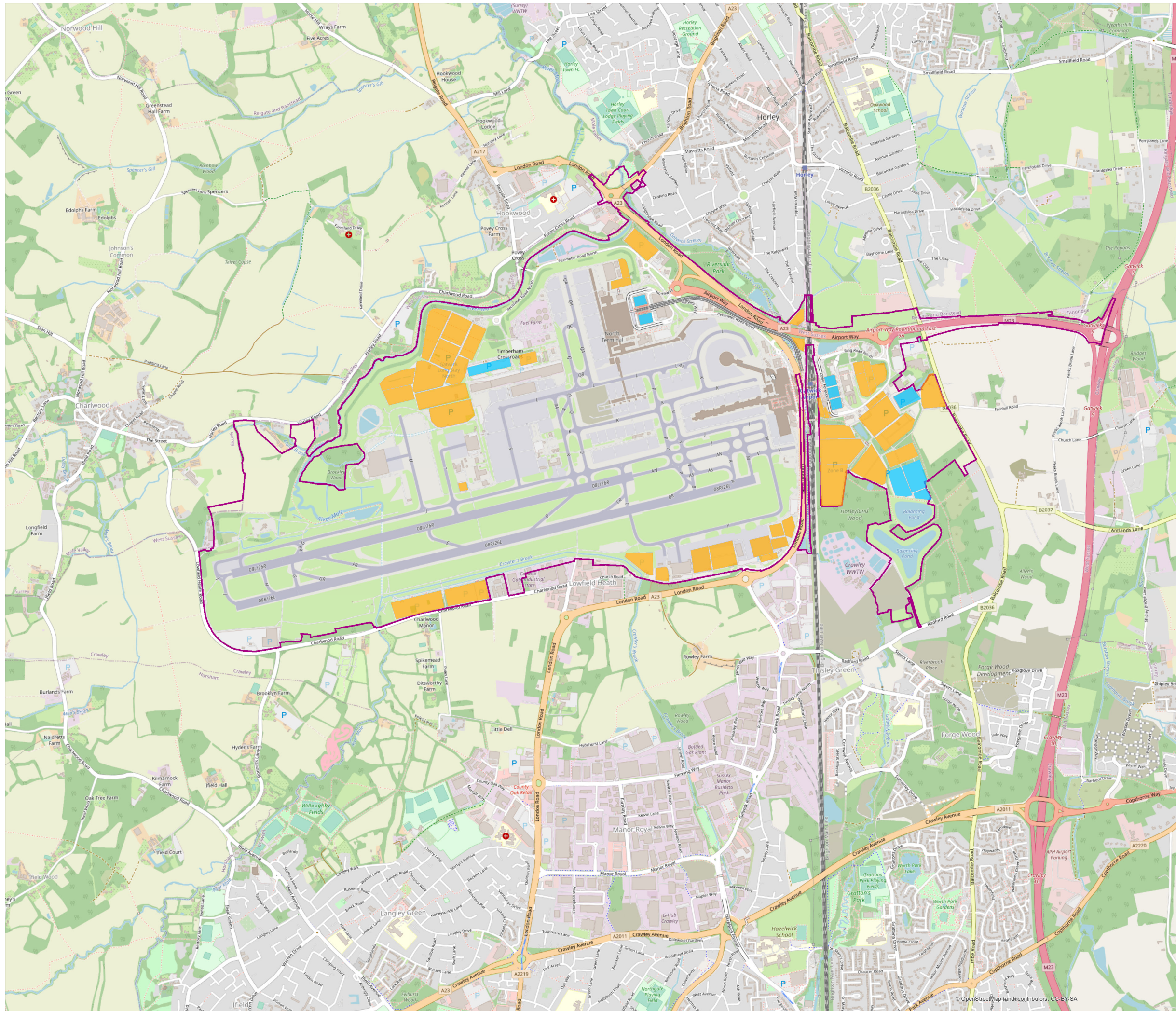
**Book 5**

VERSION: 1.0

DATE: JULY 2023

Application Document Ref: 5.2

PINS Reference Number: TR020005



- 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. <b>APPENDIX 13.4.1 FIGURE 4.1.2</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>SG</b>	PM / CHECKED BY <b>AC</b>

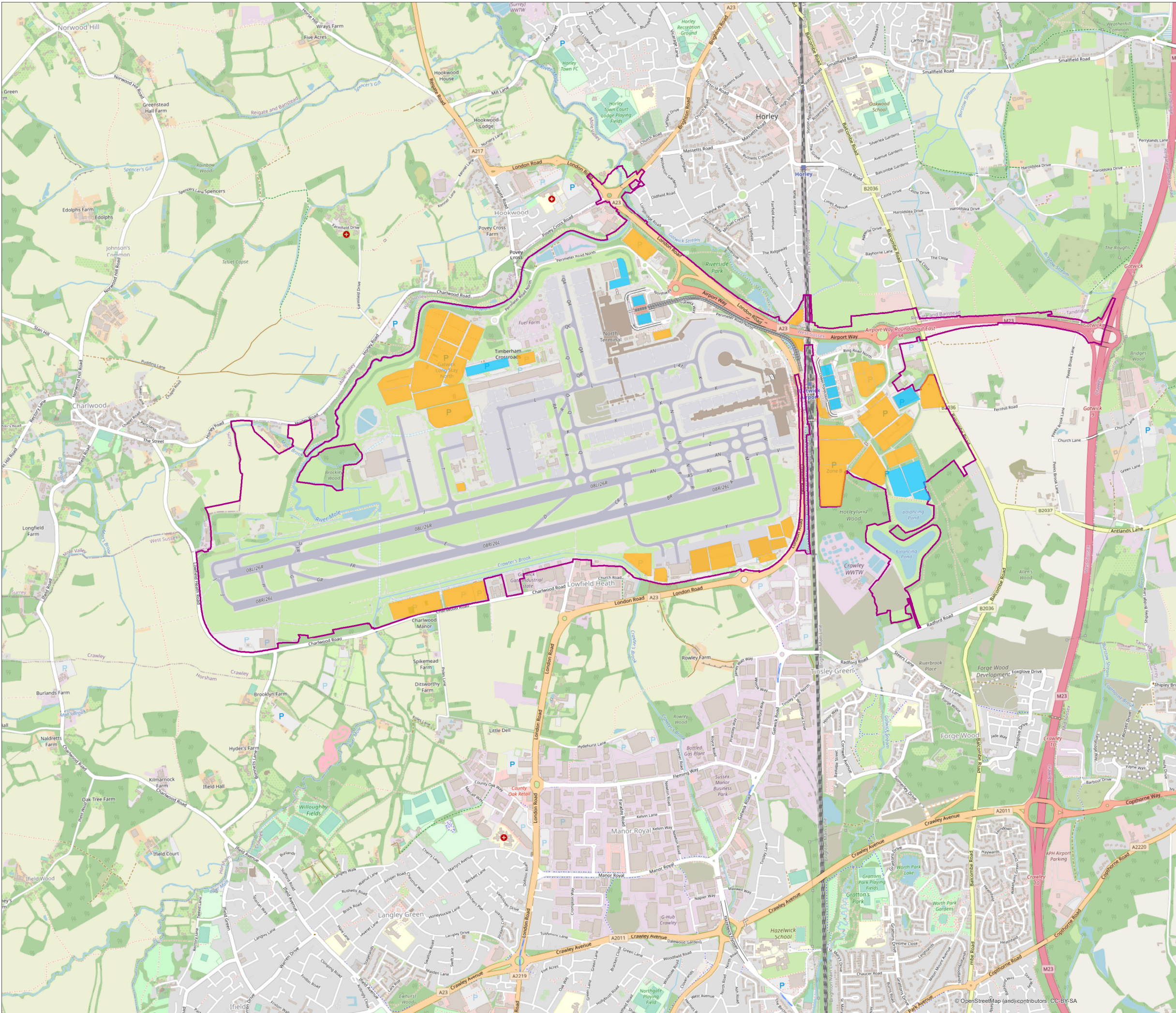
SCALE @ A3 1:22,625

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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 Without Project Scenarios

DATE

July 2023

ORIENTATION



DRAWING NO.  
**APPENDIX 13.4.1**  
**FIGURE 4.1.3**

REVISION  
**For ES Issue**

DRAWN BY  
**SG**

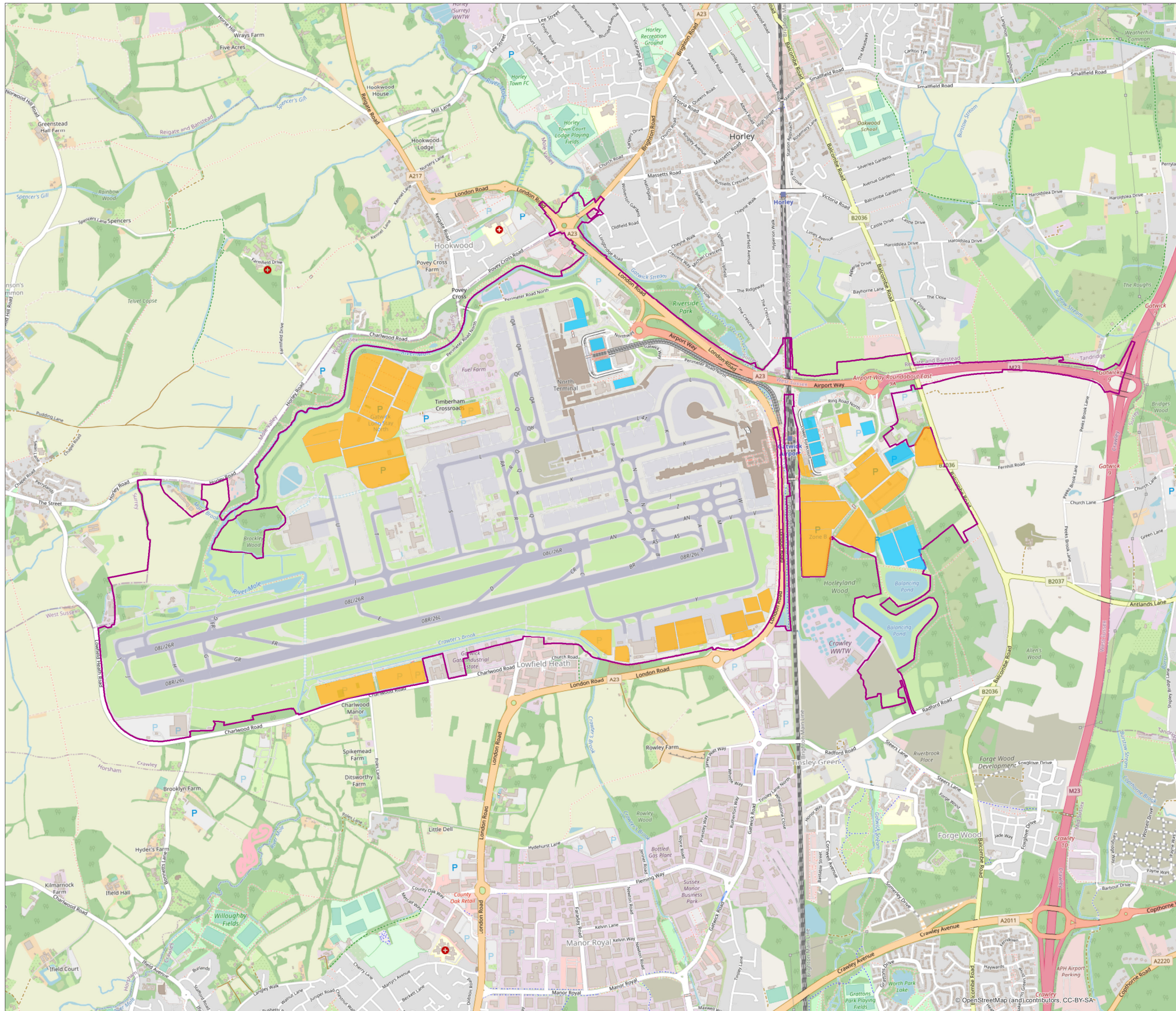
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**AC**

SCALE @ A3 1:22,625



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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  
**July 2023**

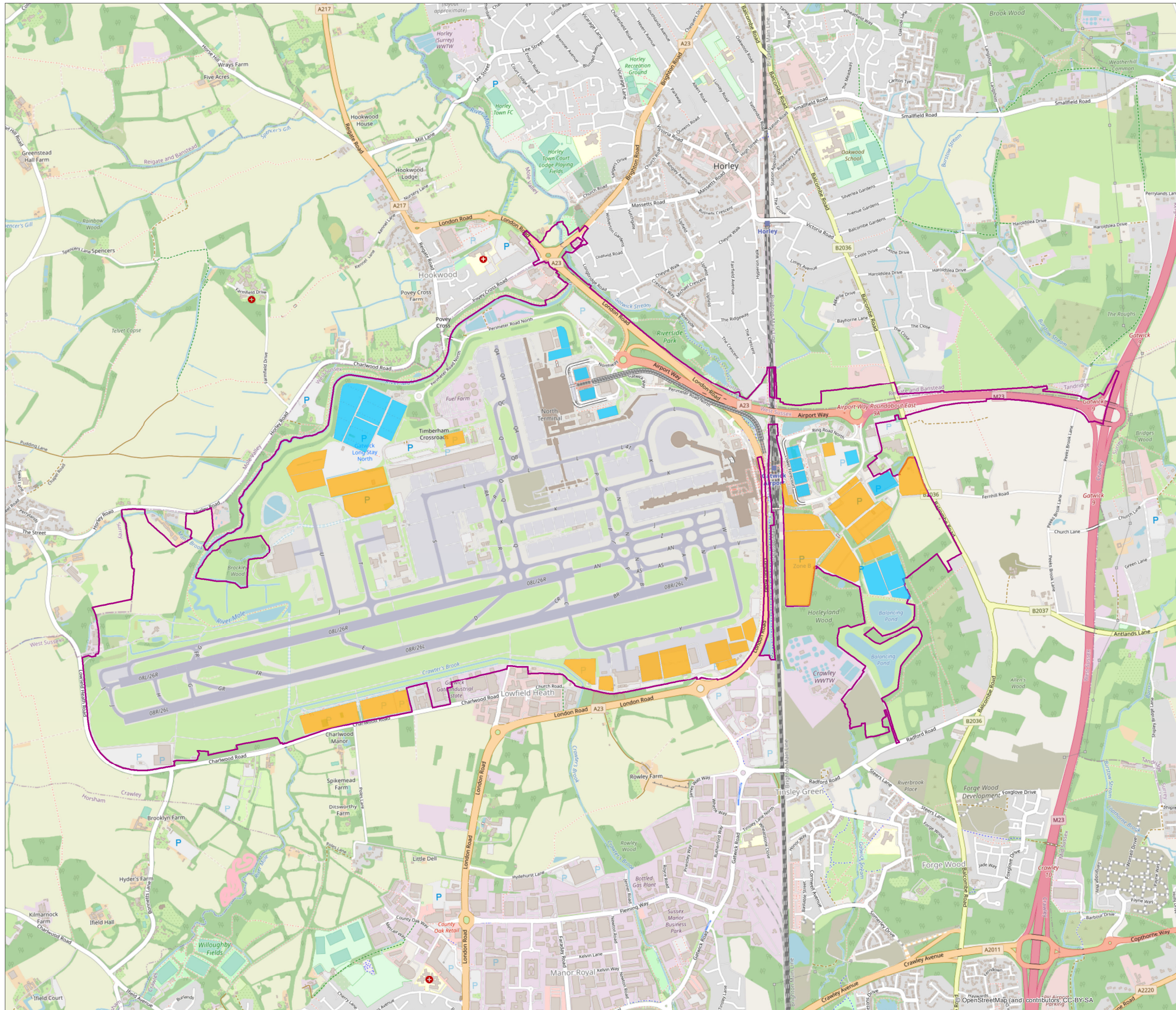
	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.4</b>	REVISION <b>For ES Issue</b>
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**Legend**

- 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

ORIENTATION



DRAWING NO.

APPENDIX 13.4.1  
FIGURE 4.1.5

REVISION

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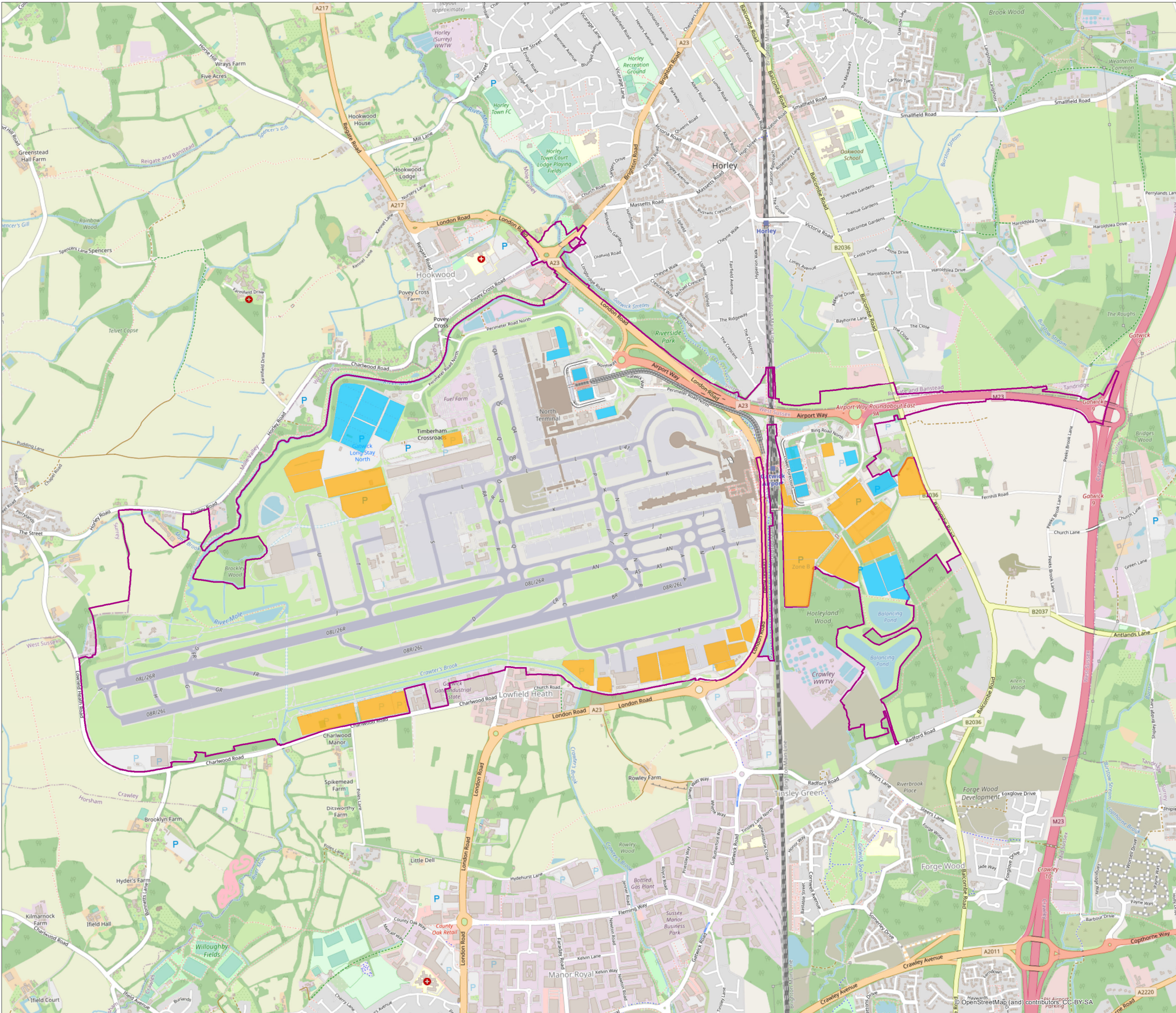


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**Legend**

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



DOCUMENT

Environmental Statement

DRAWING TITLE

Location of Modelled Car Parks for the 2038 with Project Scenario

DATE

July 2023

ORIENTATION



DRAWING NO.

APPENDIX 13.4.1  
FIGURE 4.1.6

REVISION

For ES Issue

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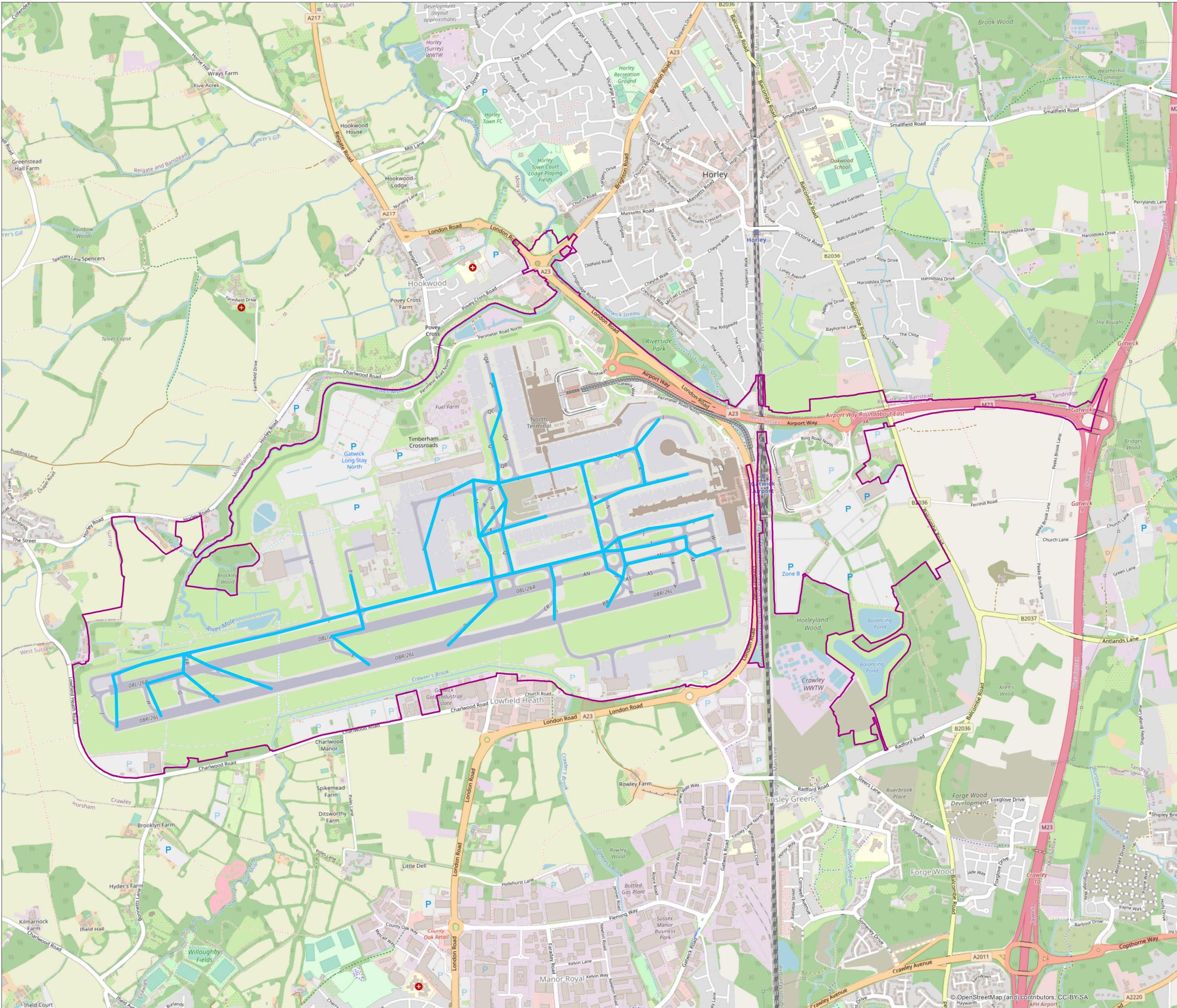
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- Legend**
- Project Site Boundary (ES)
  - Taxi in

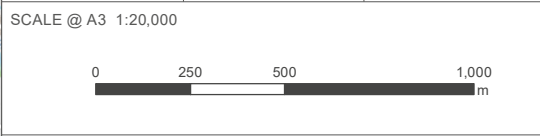


DOCUMENT  
Environmental Statement

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

DATE  
July 2023

ORIENTATION 	DRAWING NO. APPENDIX 13.4.1 FIGURE 4.1.7	REVISION For ES Issue
	DRAWN BY CD	PM / CHECKED BY AC

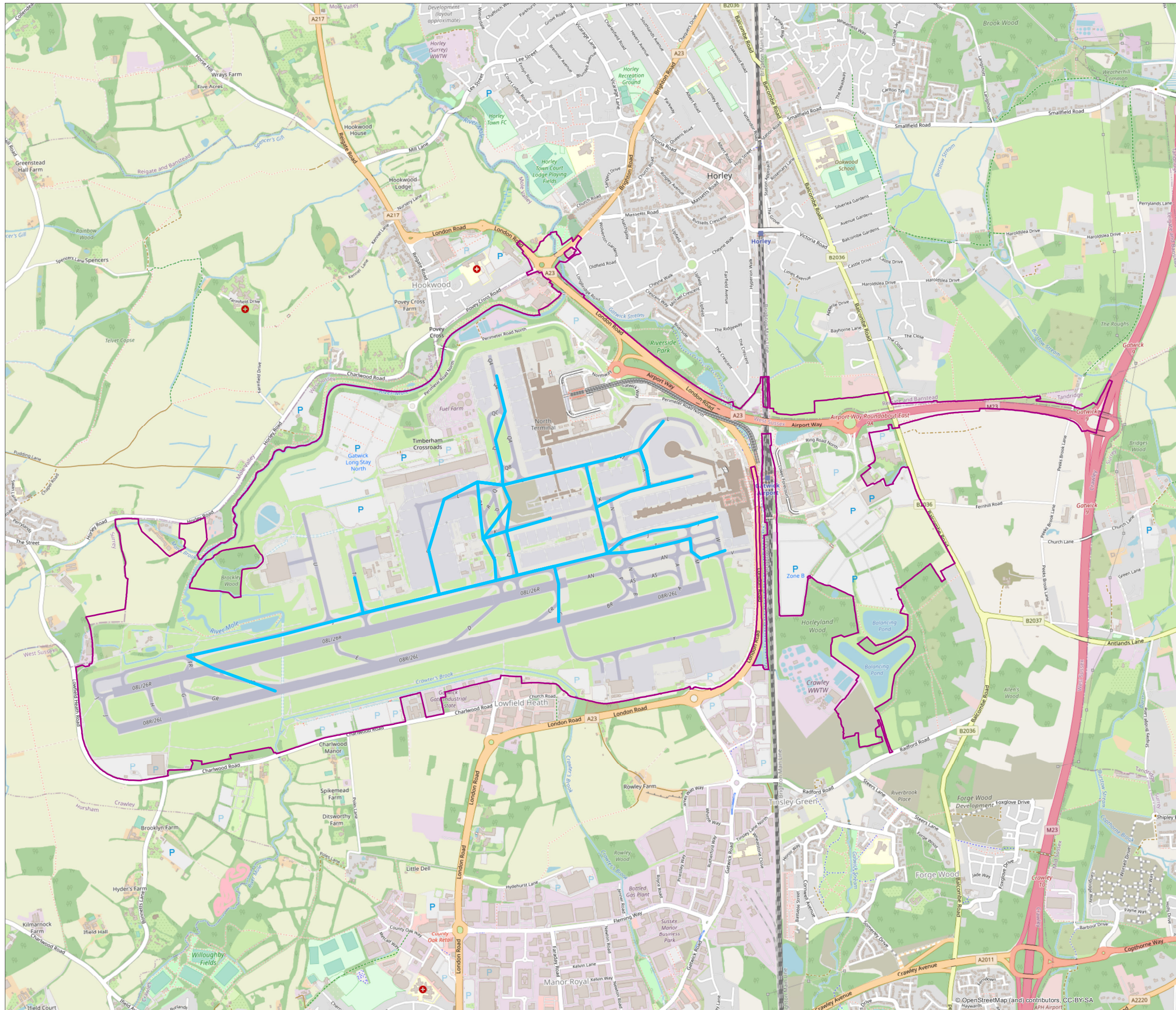


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**Legend**

- Project Site Boundary (ES)
- Taxi in

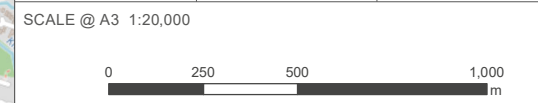


DOCUMENT  
**Environmental Statement**

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

DATE  
**July 2023**

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.8</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>CD</b>	PM / CHECKED BY <b>AC</b>



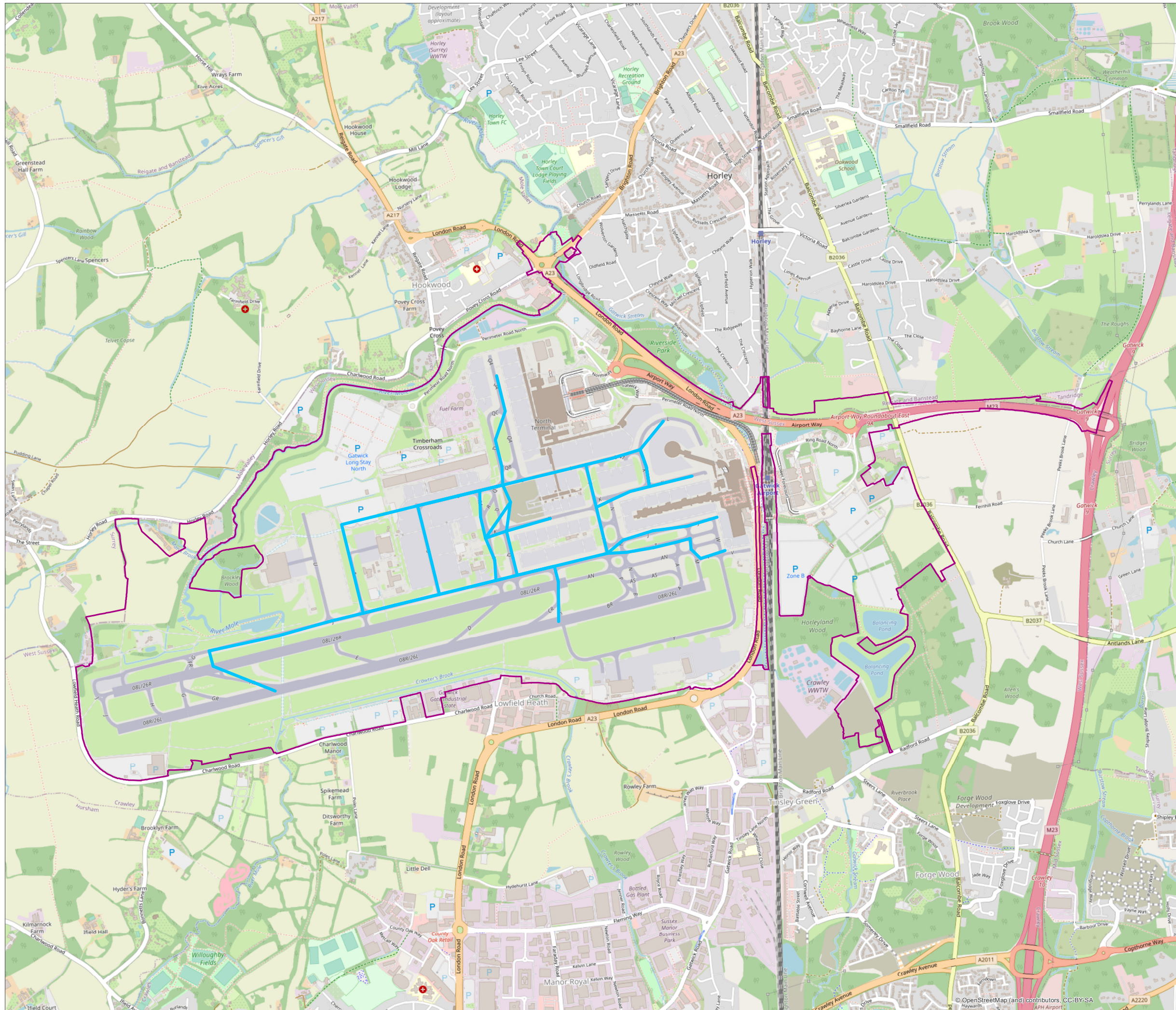
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**Legend**

- Project Site Boundary (ES)
- Taxi in



DOCUMENT

Environmental Statement

DRAWING TITLE

Modelled LTO Sources -  
Taxi In for With Project  
Scenarios

DATE

July 2023

ORIENTATION



DRAWING NO.  
**APPENDIX 13.4.1  
FIGURE 4.1.9**

REVISION  
**For ES Issue**

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**CD**

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**AC**

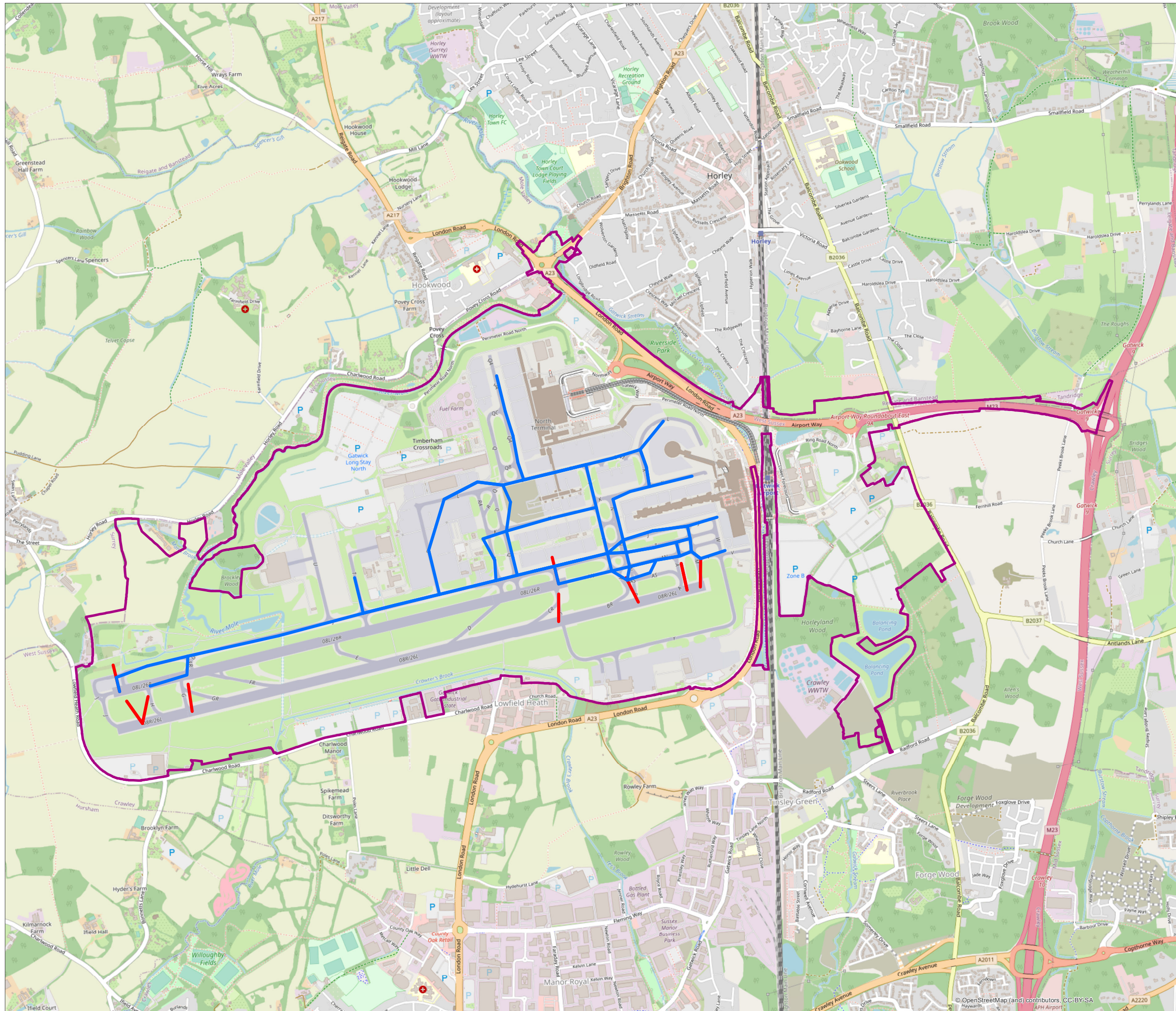
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- Legend**
- Project Site Boundary (ES)
  - Hold
  - Taxi Out

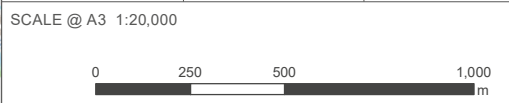


DOCUMENT  
Environmental Statement

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

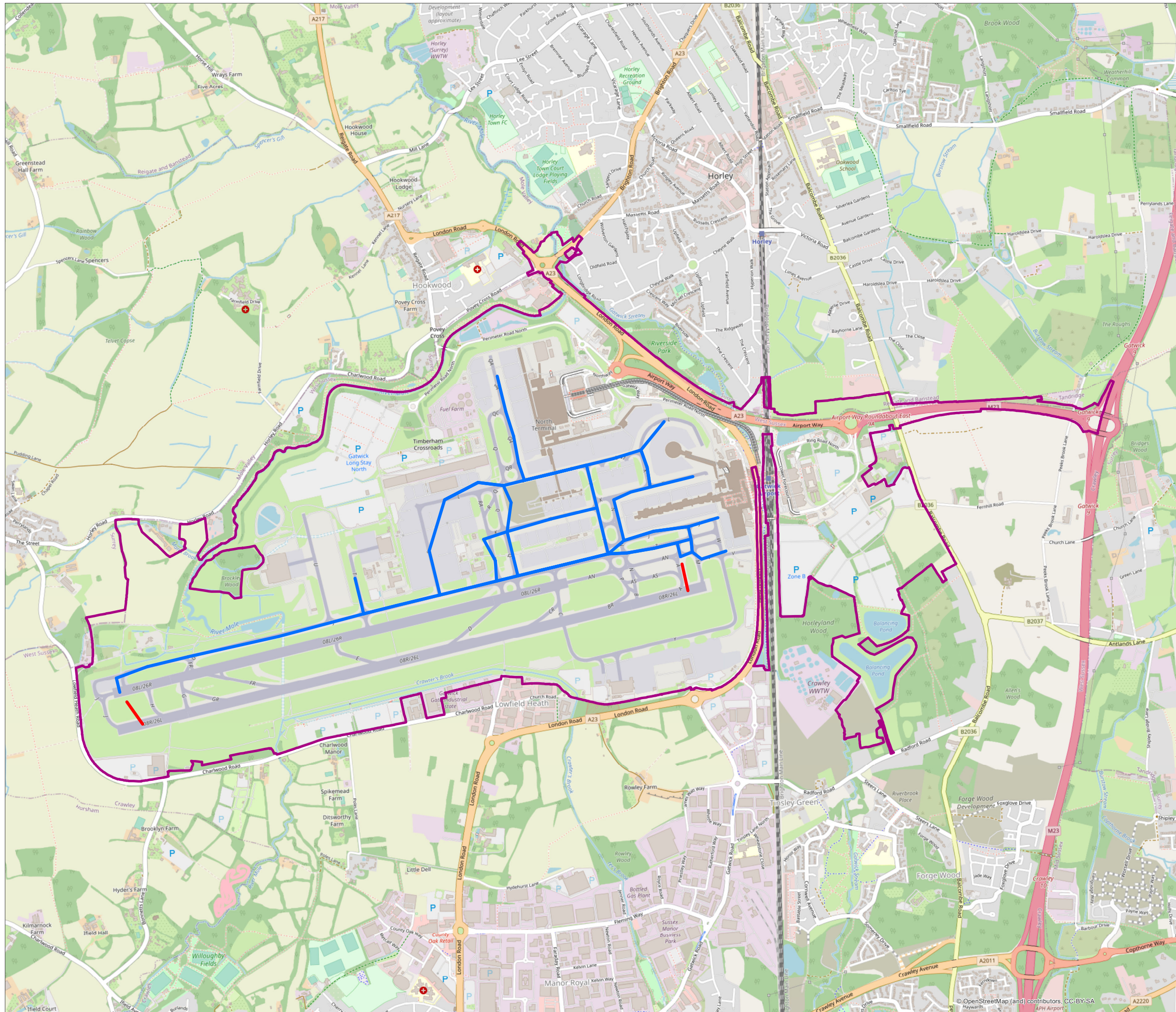
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July 2023

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.10</b>	REVISION <b>For ES Issue</b>
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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**

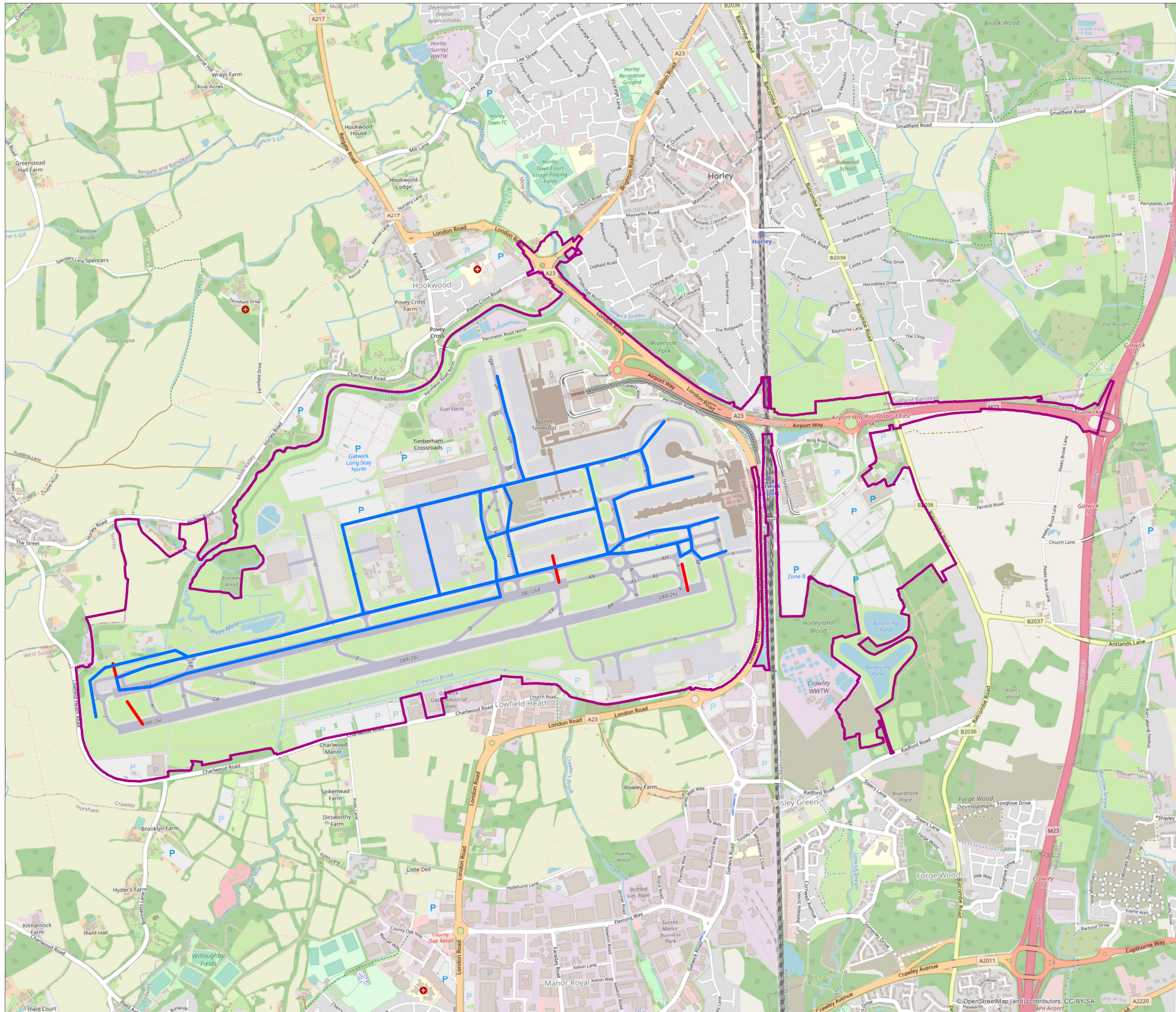
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**July 2023**

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.11</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>CD</b>	PM / CHECKED BY <b>AC</b>



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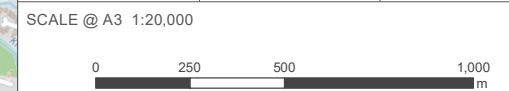
- Legend**
- Project Site Boundary (ES)
  - Taxi Out
  - Hold

DOCUMENT  
**Environmental Statement**

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

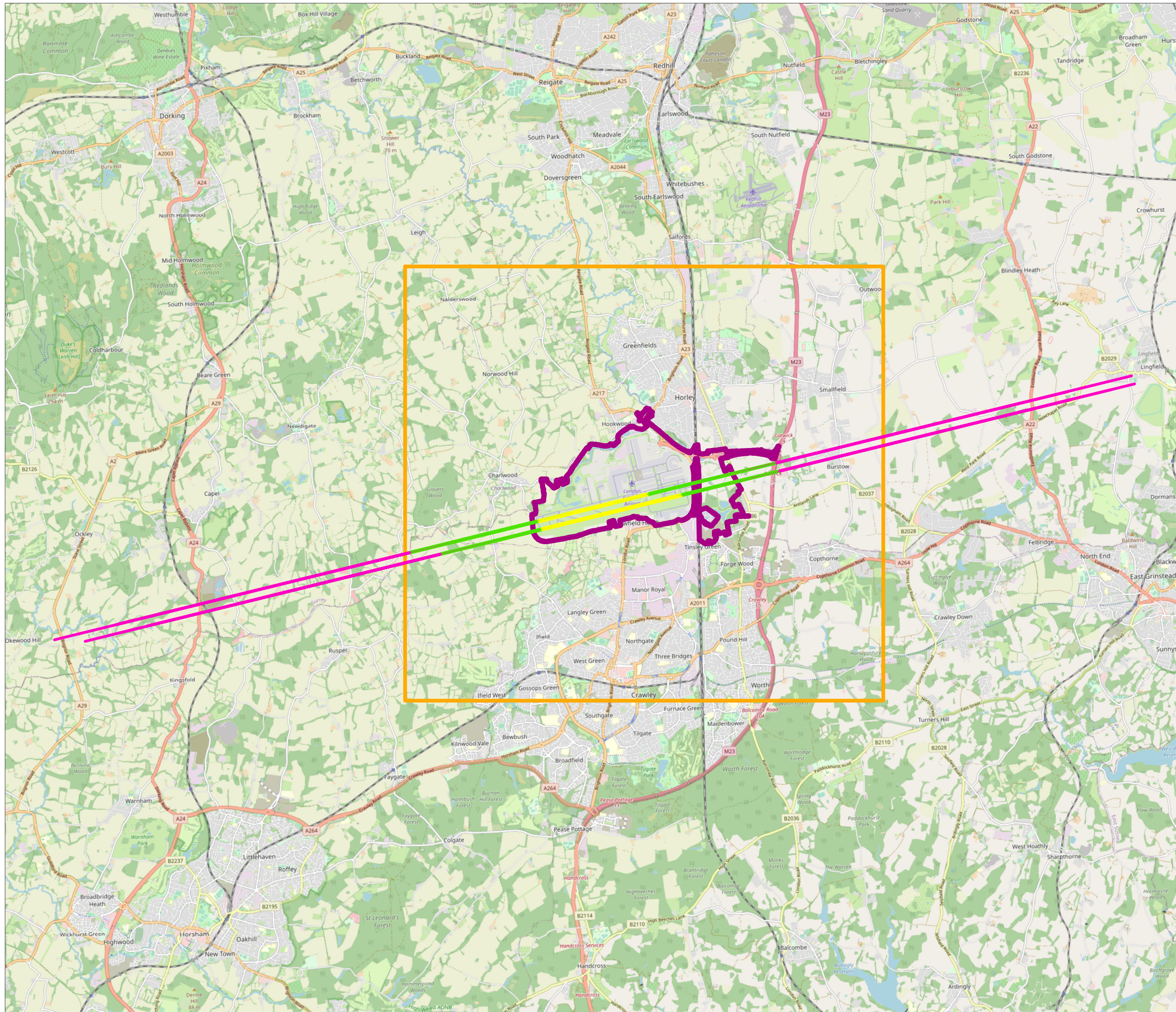
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**July 2023**

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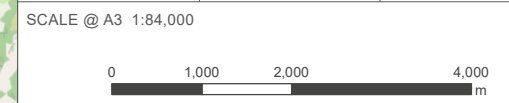
- Legend**
- Project Site Boundary
  - 11 km x 10 km domain
  - Take Off Roll
  - Initial Climb
  - Climb Out

DOCUMENT  
**Environmental Statement**

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

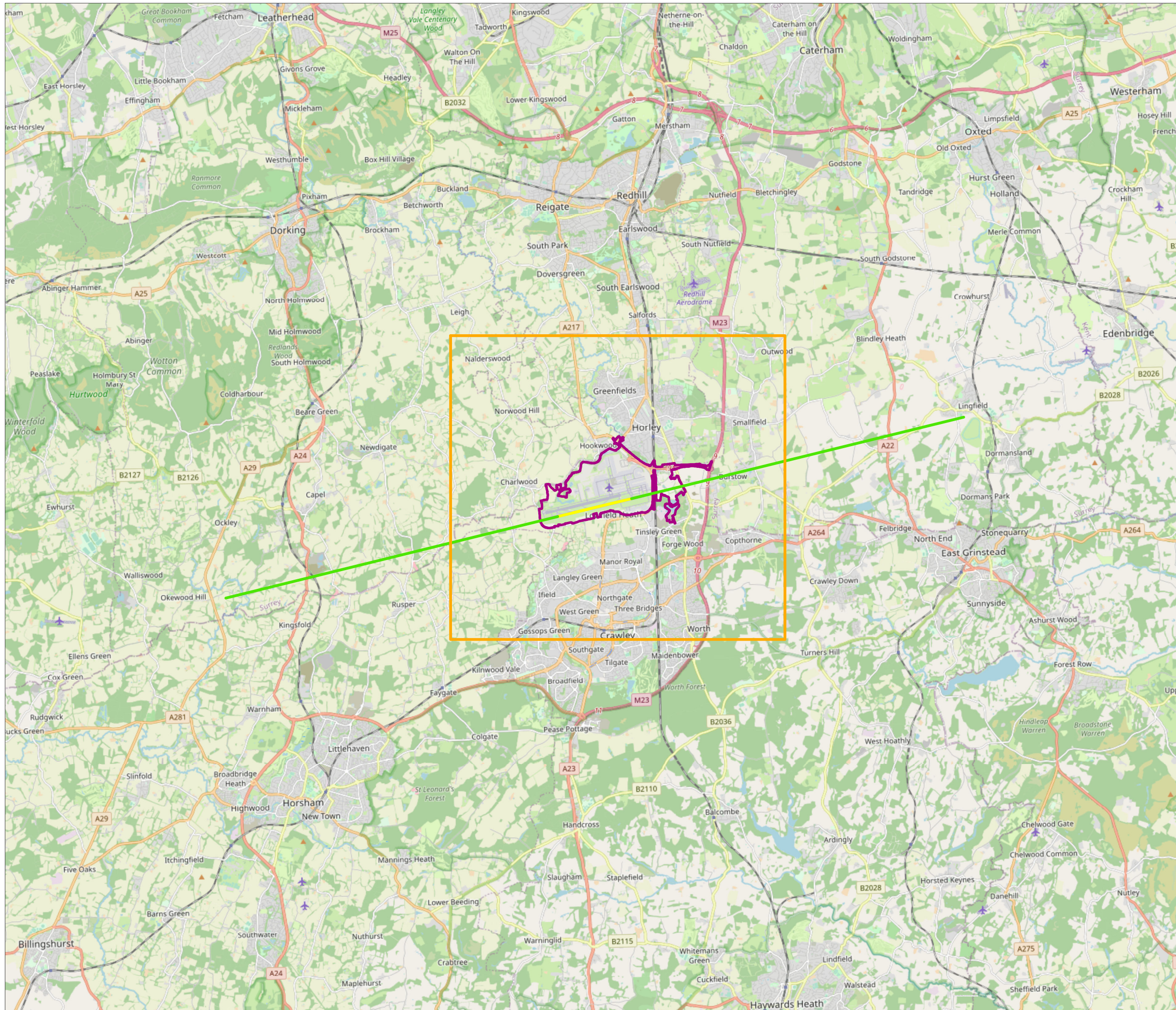
DATE  
**July 2023**

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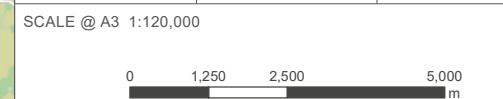
- Legend**
- Project Site Boundary (ES)
  - 11 km x 10 km domain
  - Landing
  - Approach

DOCUMENT  
**Environmental Statement**

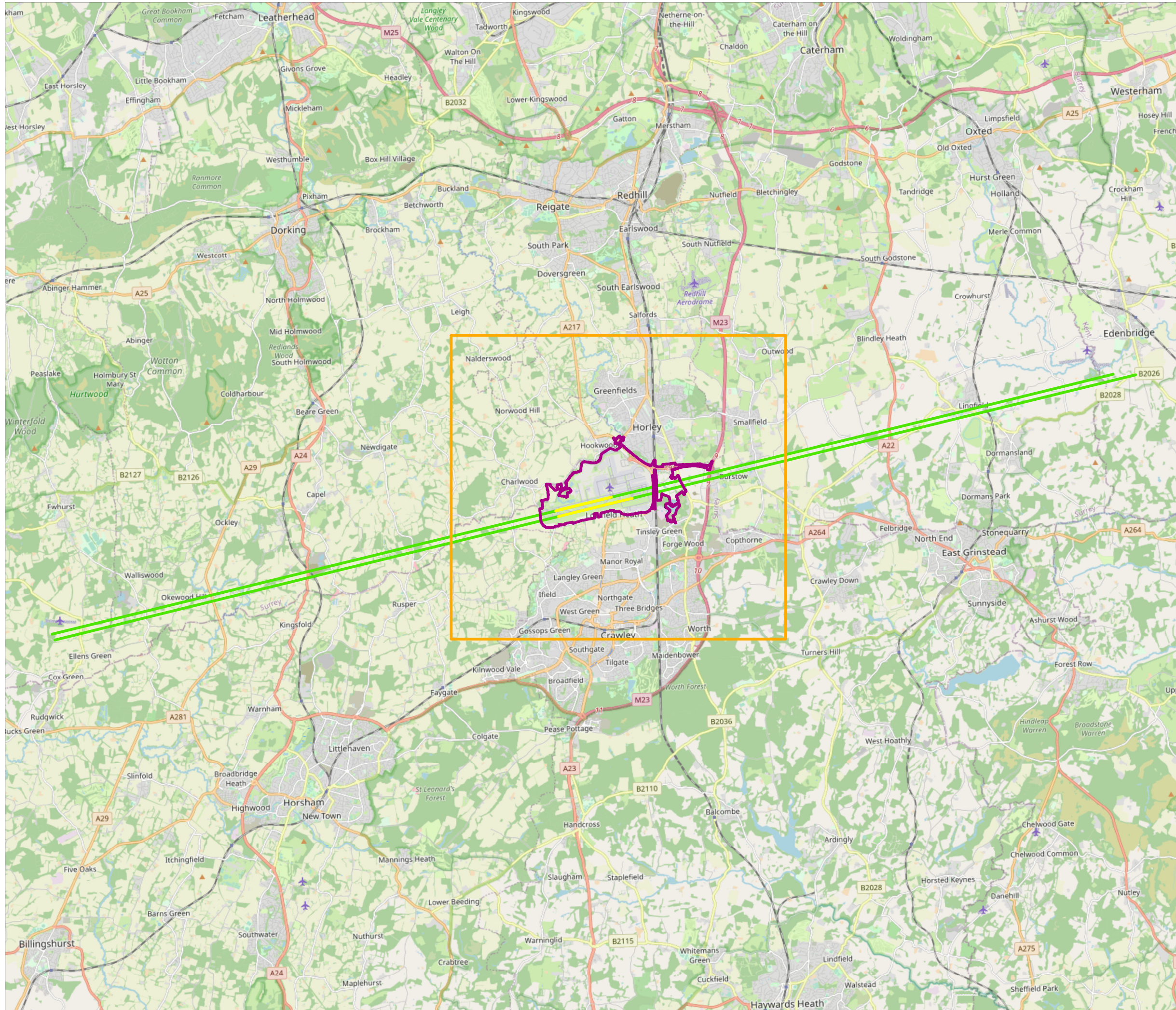
DRAWING TITLE  
**Modelled LTO Sources -  
Approach and Landing for  
2018 Baseline Scenario**

DATE  
**July 2023**

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.14</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>MA</b>	PM / CHECKED BY <b>AC</b>



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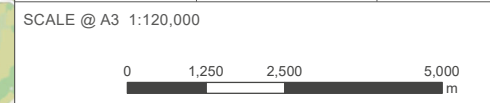
- Legend**
- Project Site Boundary (ES)
  - 11 km x 10 km domain
  - Landing
  - Approach

DOCUMENT  
**Environmental Statement**

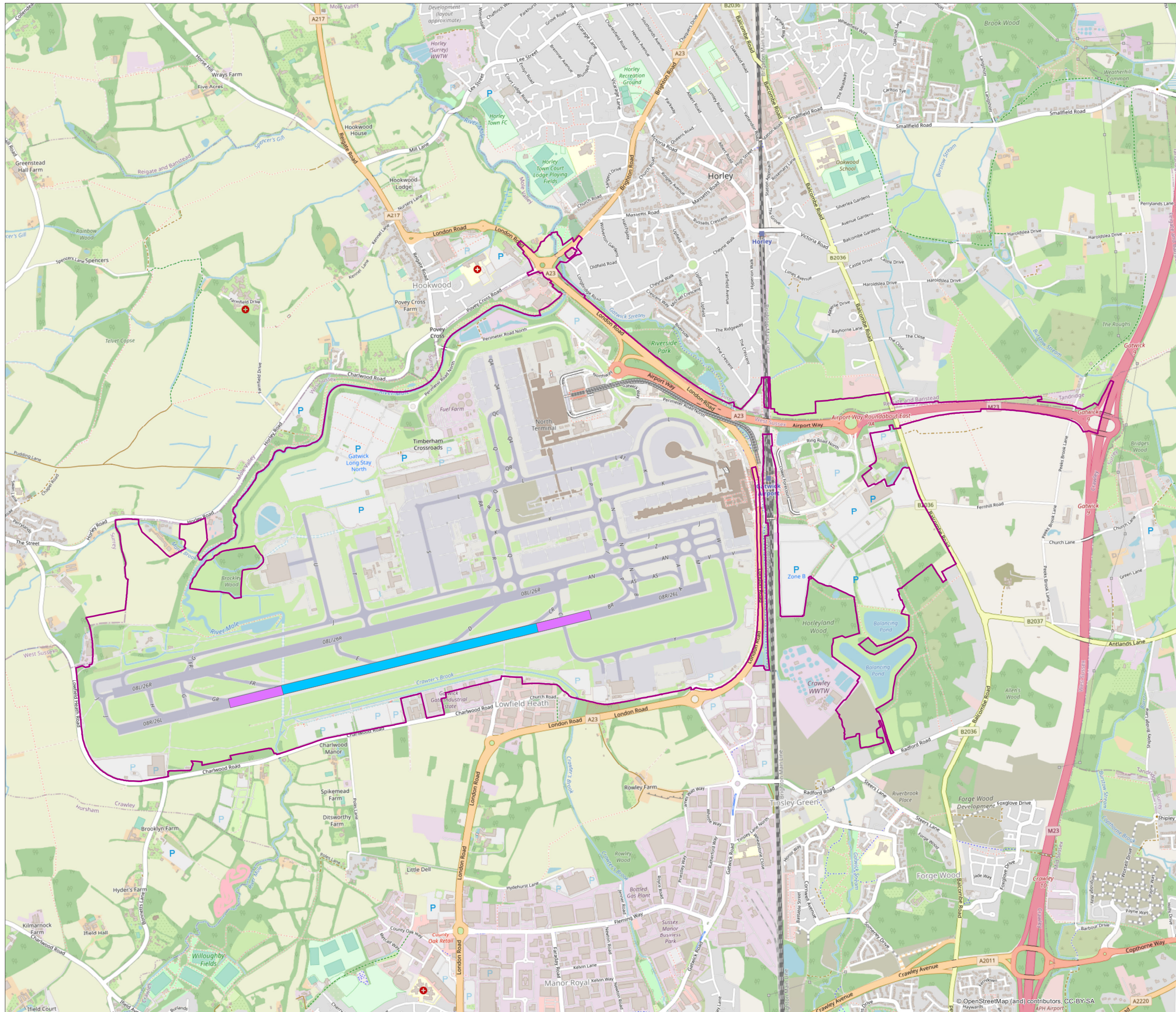
DRAWING TITLE  
**Modelled LTO Sources - Approach and Landing for Future Scenarios**

DATE  
**July 2023**

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.15</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>MA</b>	PM / CHECKED BY <b>AC</b>



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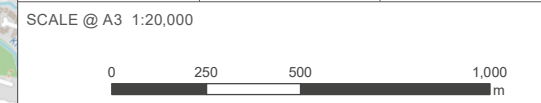
- Legend**
- Project Site Boundary (ES)
  - Tyre Wear
  - Brake Wear

DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**Brake and Tyre Wear for 2018 Base Scenarios**

DATE  
**July 2023**

	DRAWING NO. <b>APPENDIX 14.4.1 FIGURE 4.1.16</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>CD</b>	PM / CHECKED BY <b>AC</b>

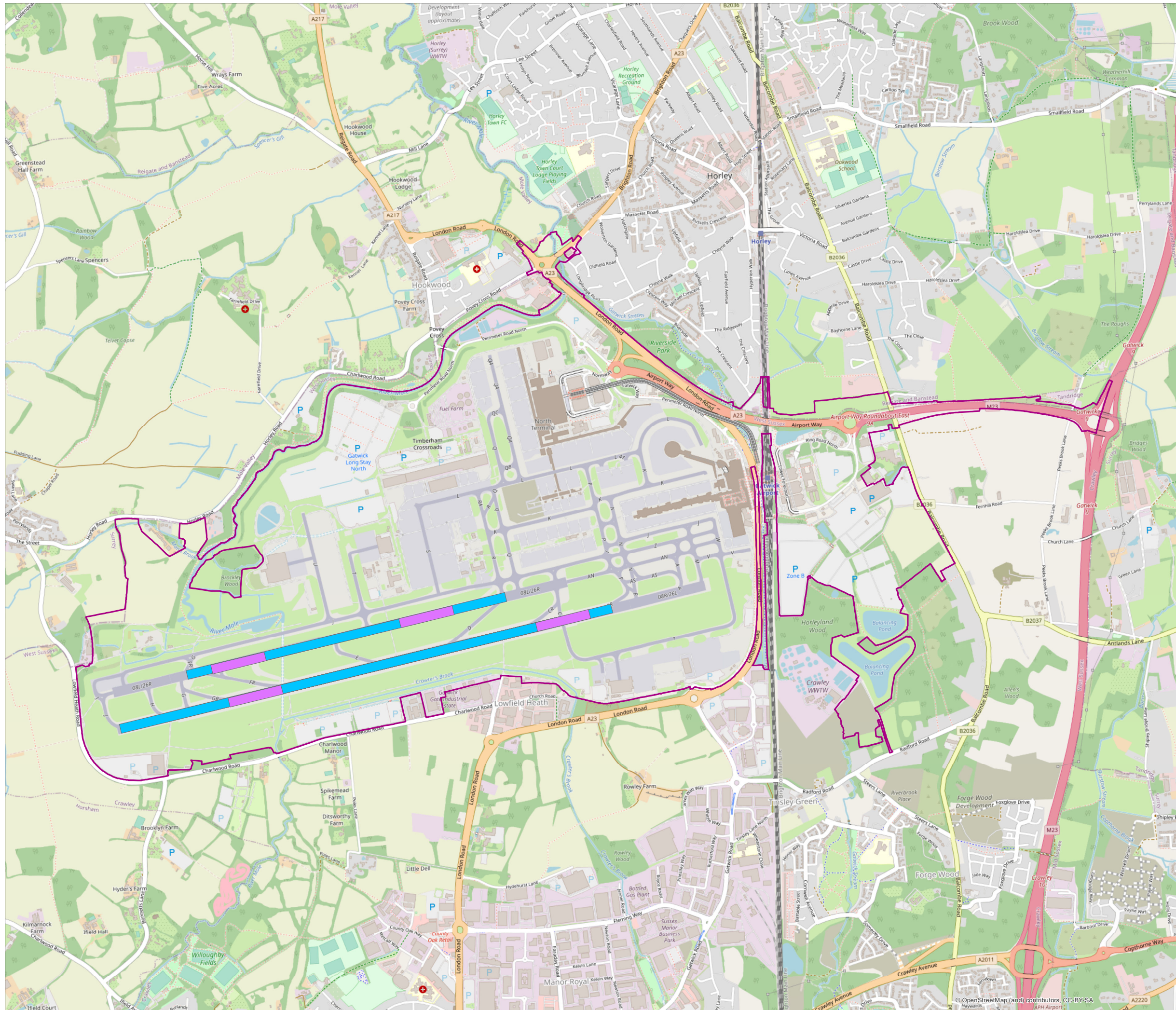


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- Legend**
- Project Site Boundary (ES)
  - Tyre Wear
  - Brake Wear

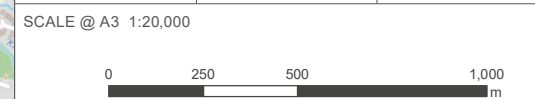


DOCUMENT  
Environmental Statement

DRAWING TITLE  
Brake and Tyre Wear for Future Scenarios

DATE  
July 2023

ORIENTATION 	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.17</b>	REVISION For ES Issue
	DRAWN BY <b>CD</b>	PM / CHECKED BY <b>AC</b>

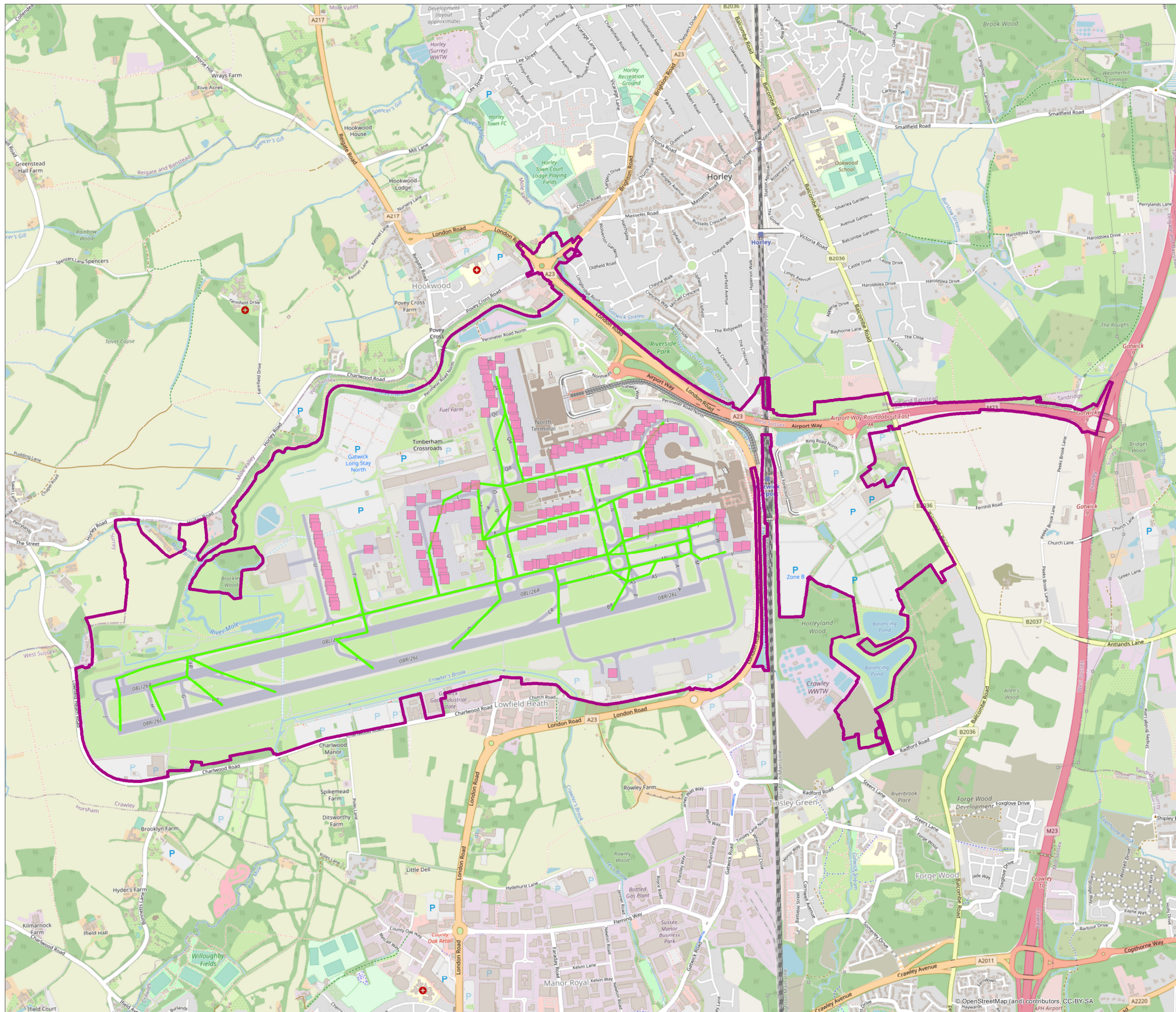


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**Legend**

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

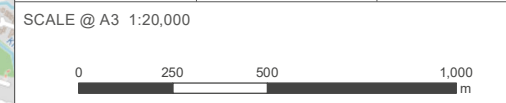


DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**Auxiliary Power Units for 2018 Baseline Scenario**

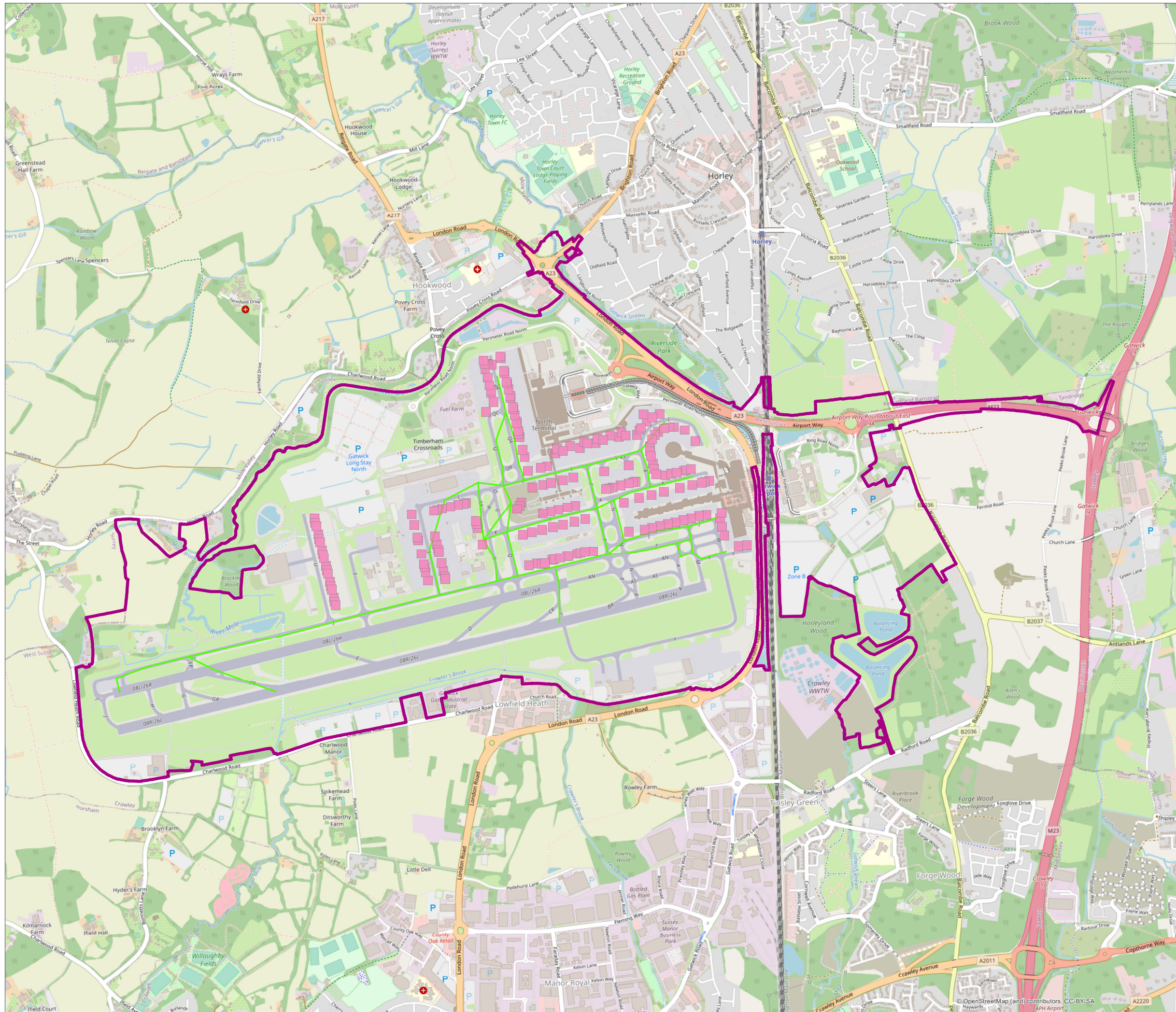
DATE  
**July 2023**

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.18</b>	REVISION <b>For ES Issue</b>
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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**

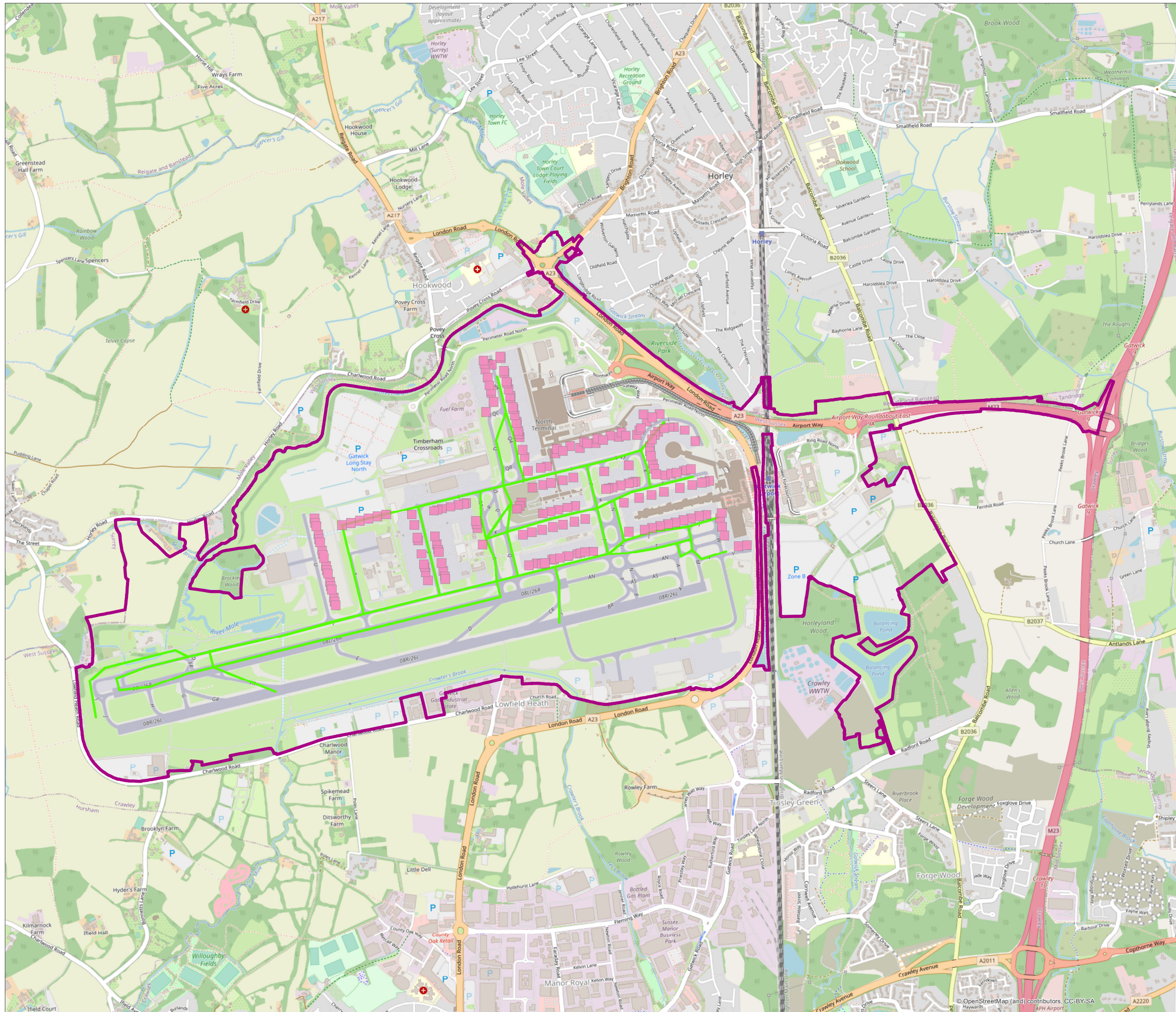
DATE  
**July 2023**

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.19</b>	REVISION <b>For ES Issue</b>
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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**

DATE  
**July 2023**

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.20</b>	REVISION <b>For ES Issue</b>
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**Legend**

- Project Site Boundary (ES)
- Engine Testing
- Fire Training Ground



DOCUMENT

Environmental Statement

DRAWING TITLE

 Engine Testing and  
Fire Training Ground

DATE

July 2023

ORIENTATION



DRAWING NO.

 APPENDIX 13.4.1  
FIGURE 4.1.21

REVISION

For ES Issue

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CD

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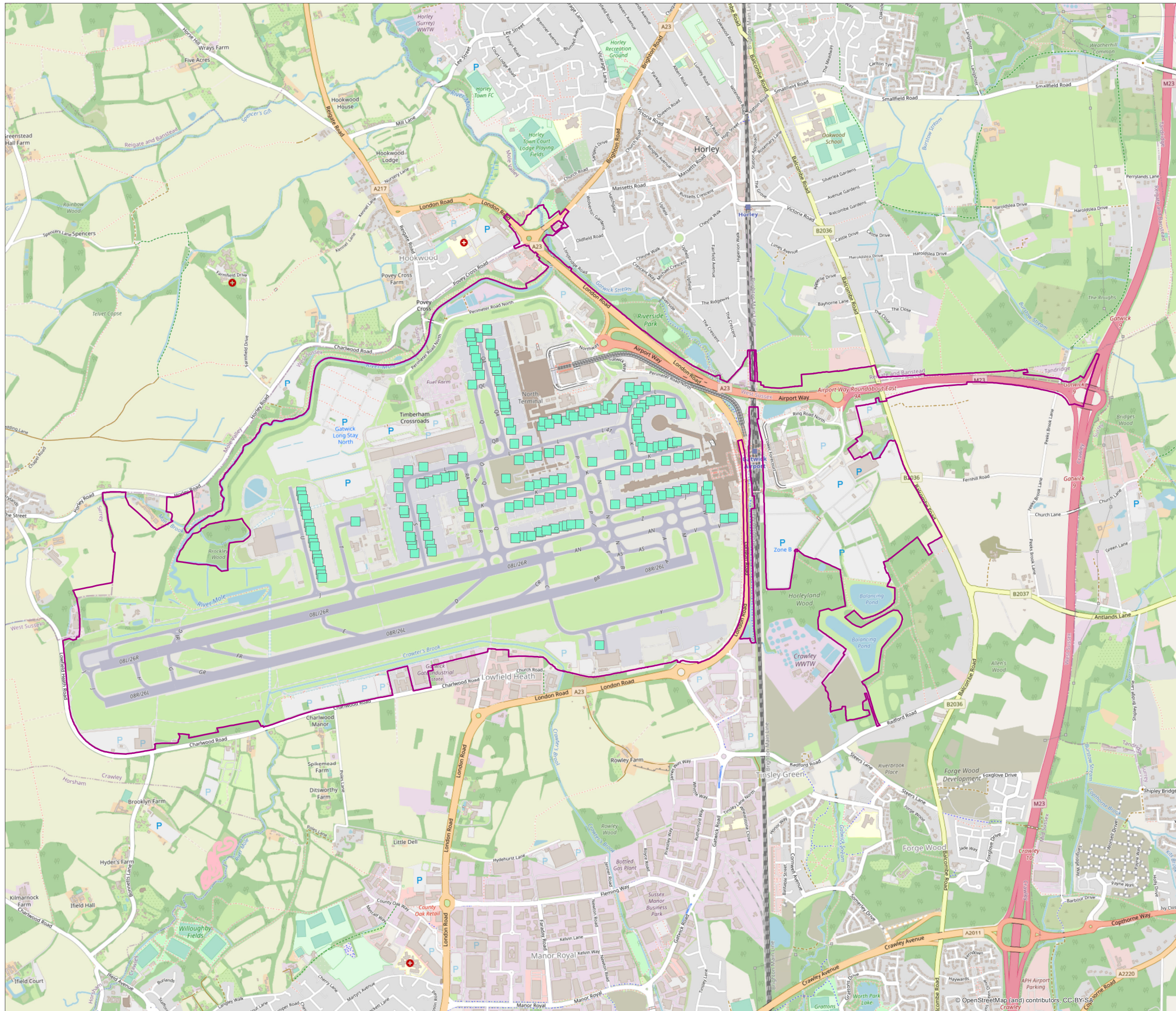
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- Legend**
- Project Site Boundary (ES)
  - Ground Support Equipment

DOCUMENT  
**Environmental Statement**

DRAWING TITLE  
**Ground Support Equipment for  
2018 Baseline Scenario**

DATE  
**July 2023**

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.22</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>CD</b>	PM / CHECKED BY <b>AC</b>

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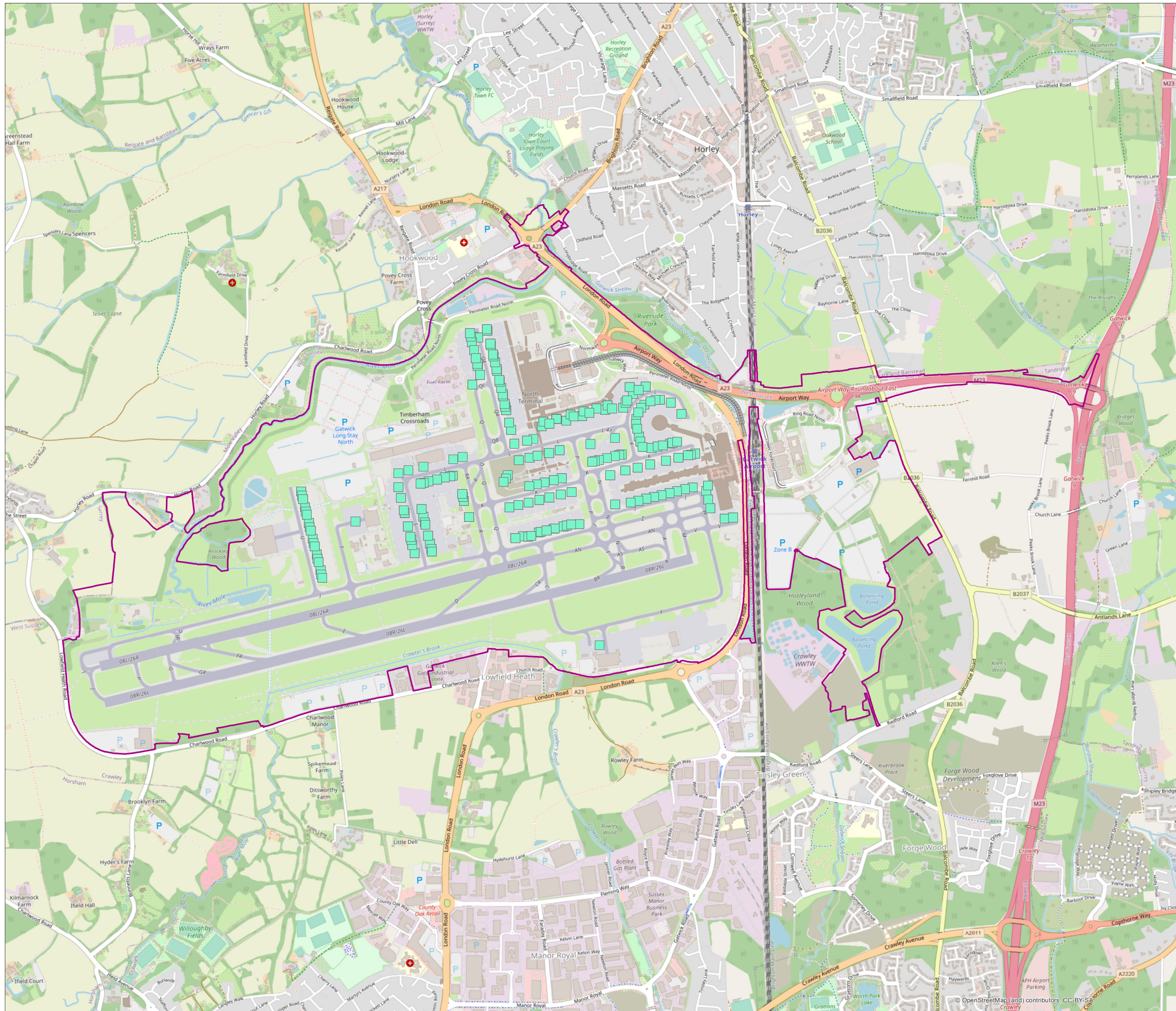


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**Legend**

- 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. <b>APPENDIX 13.4.1 FIGURE 4.1.23</b>	REVISION <b>For ES Issue</b>
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SCALE @ A3 1:20,000

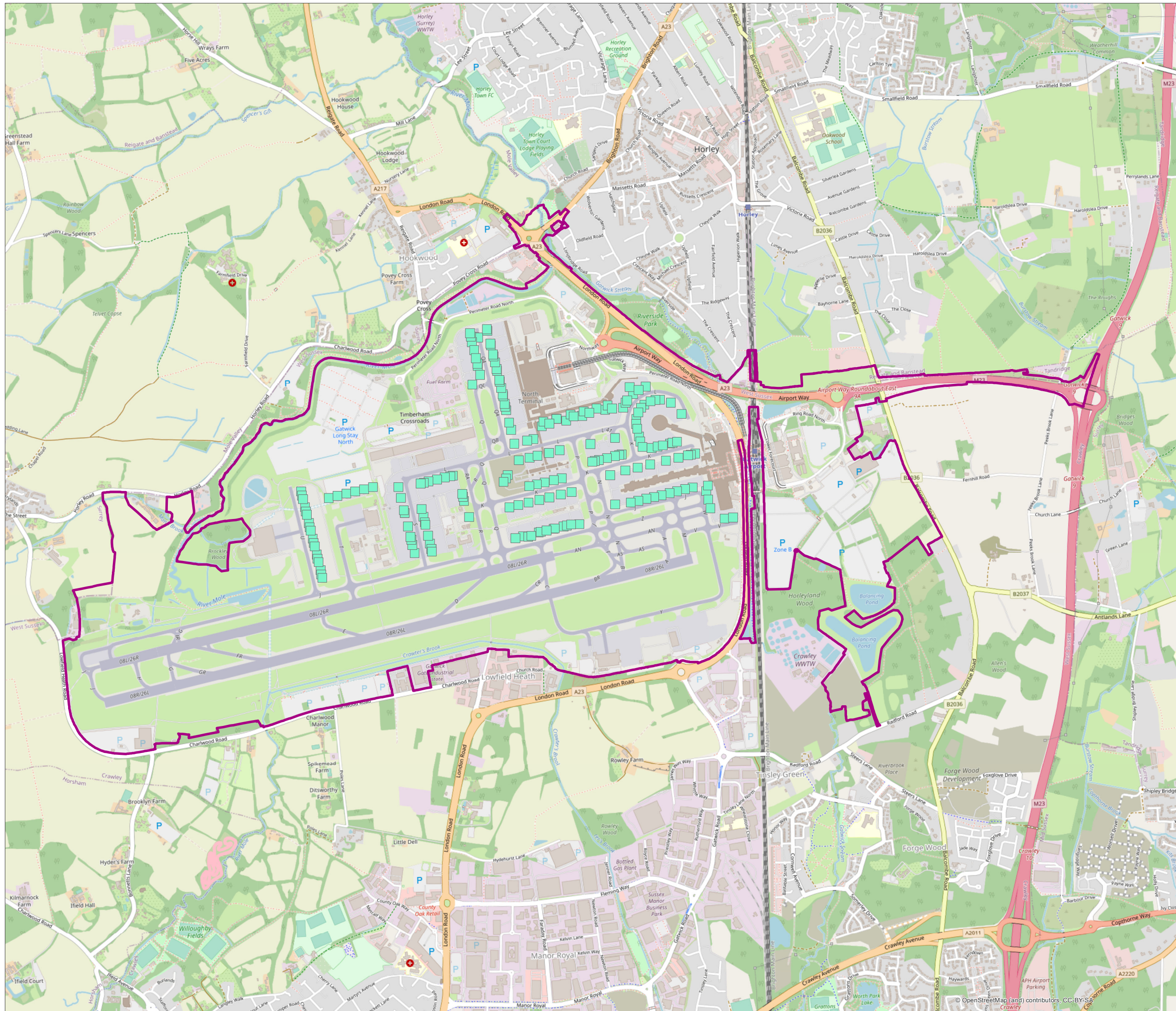


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**Legend**

- 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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CD

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AC

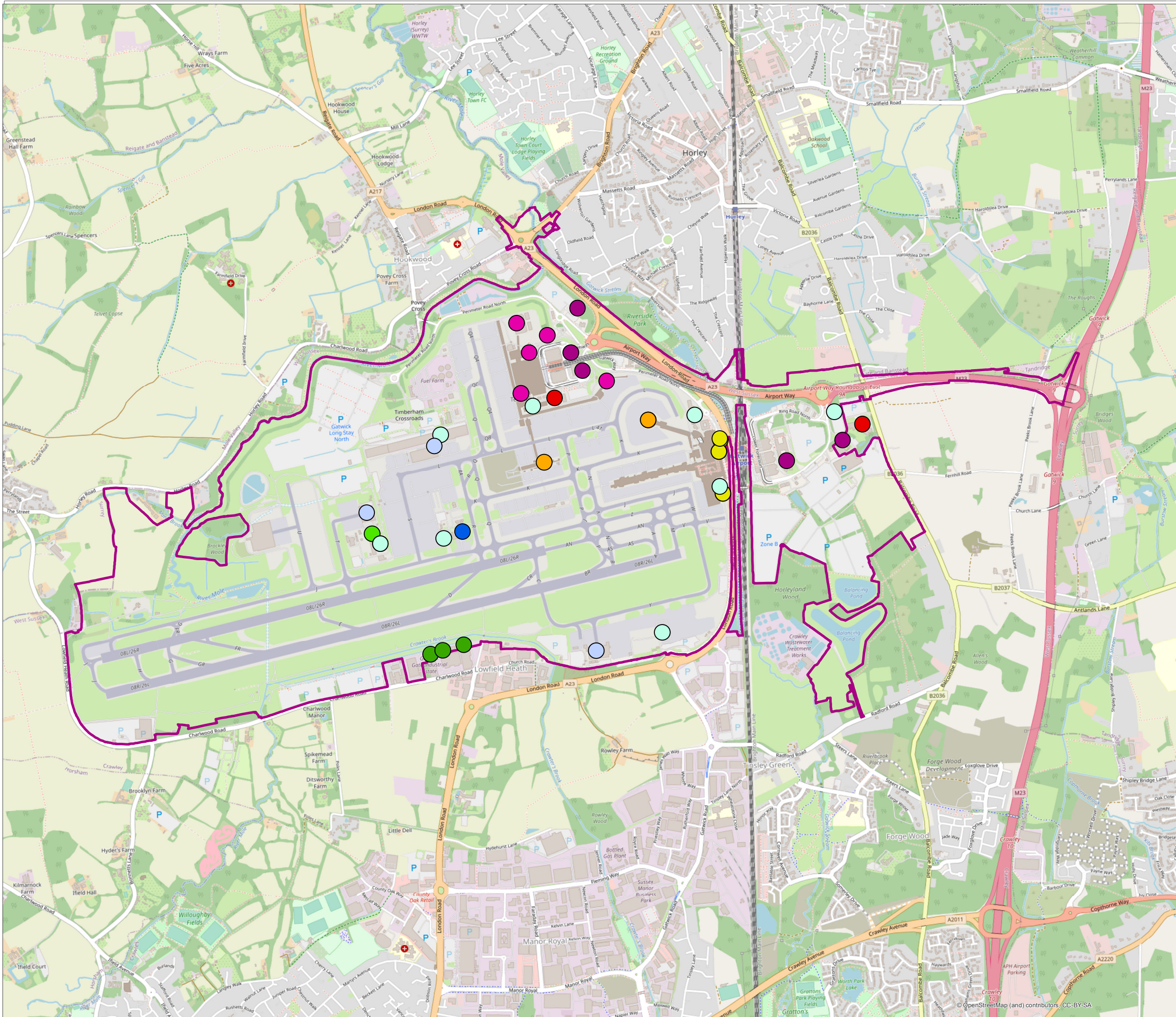
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**Legend**

- 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



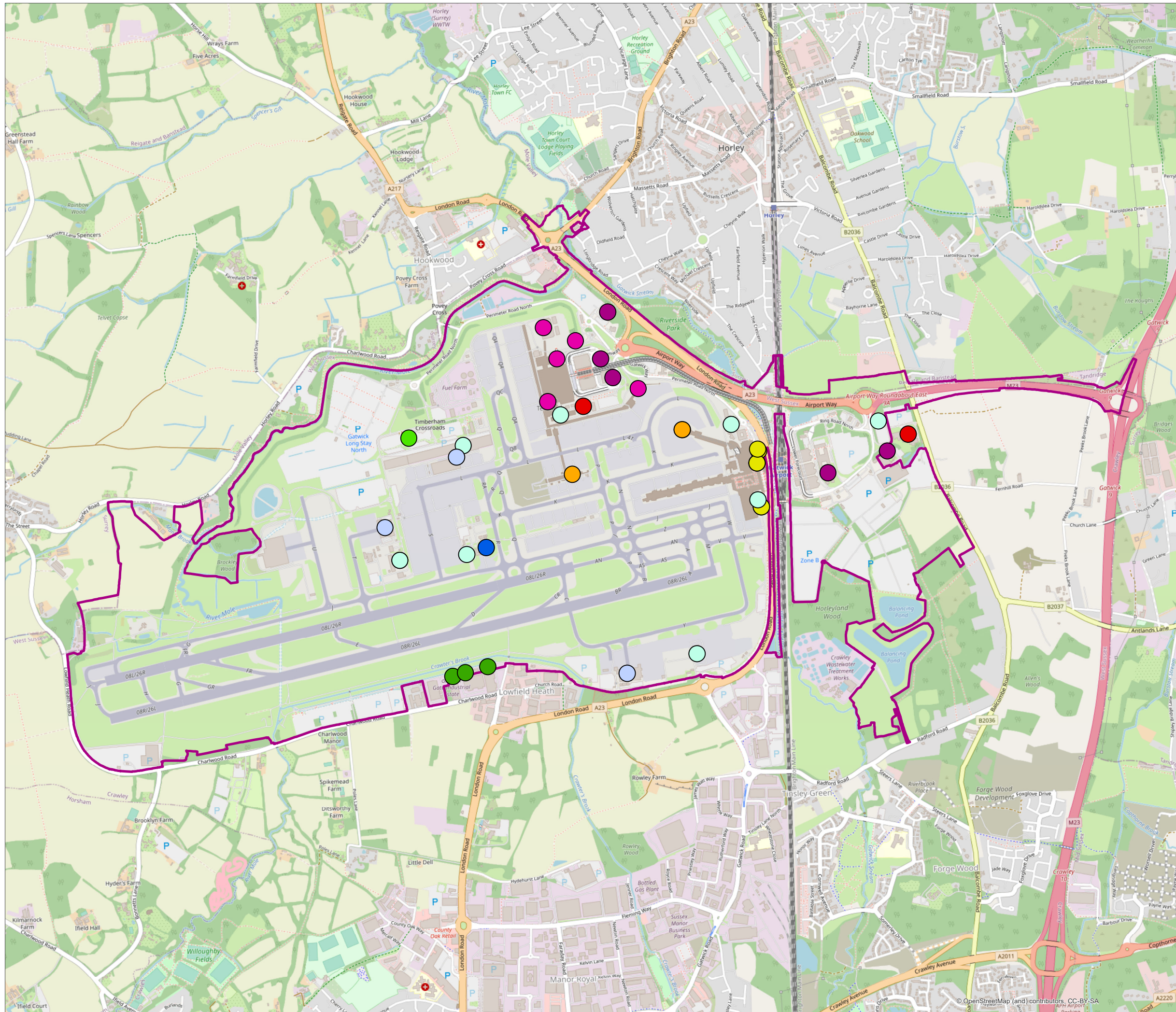
DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.25</b>	REVISION <b>For ES Issue</b>
DRAWN BY <b>CD</b>	PM / CHECKED BY <b>AC</b>

SCALE @ A3 1:20,538



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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

ORIENTATION



DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.26</b>	REVISION <b>For ES Issue</b>
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DRAWN BY <b>CD</b>	PM / CHECKED BY <b>AC</b>
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SCALE @ A3 1:19,414

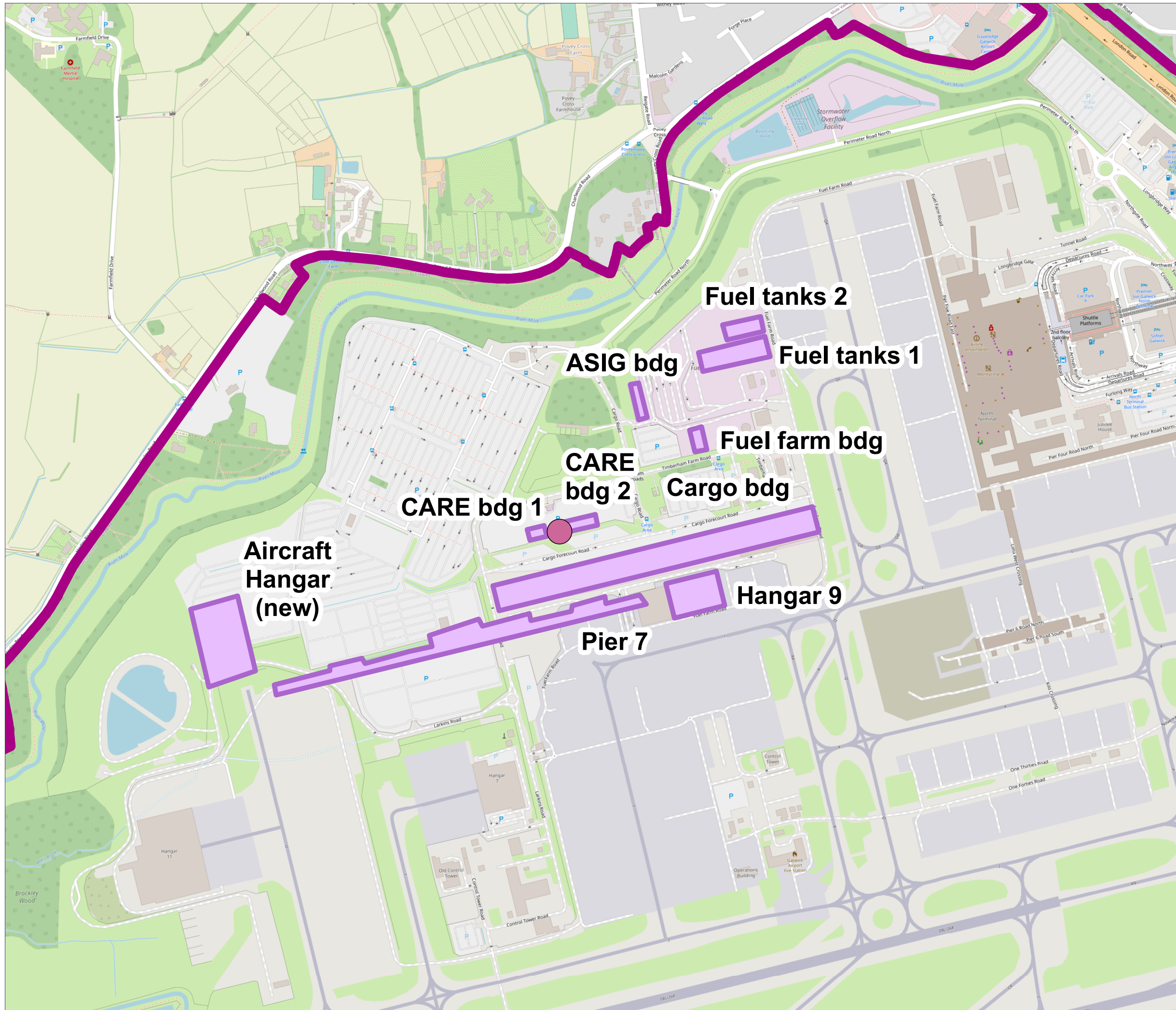


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**Legend**

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



DOCUMENT  
Environmental Statement

DRAWING TITLE  
CARE Facility

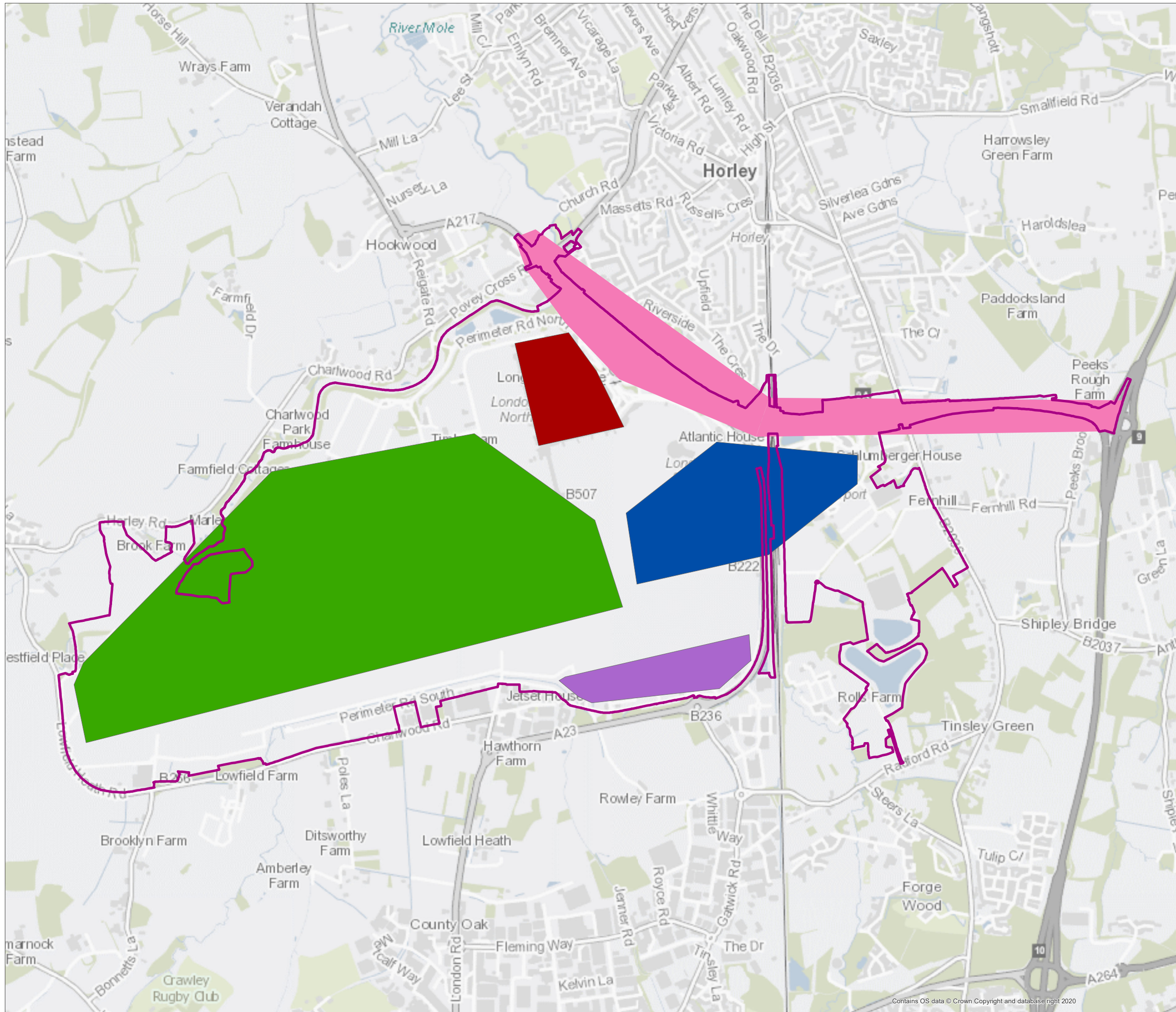
DATE  
July 2023

	DRAWING NO. <b>APPENDIX 13.4.1 FIGURE 4.1.27</b>	REVISION <b>For ES Issue</b>
	DRAWN BY <b>CD</b>	PM / CHECKED BY <b>AC</b>

SCALE @ A3 1:6,500

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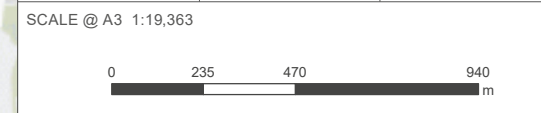
- Legend**
- Project Site Boundary
  - NRMM Areas**
  - NW Airfield Construction
  - North Terminal
  - SE Airfield Construction
  - South Terminal, Hotel and Commercial
  - Surface Access Construction

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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