



Gatwick Airport Northern Runway Project

Environmental Statement
Alternatives Considered Figures

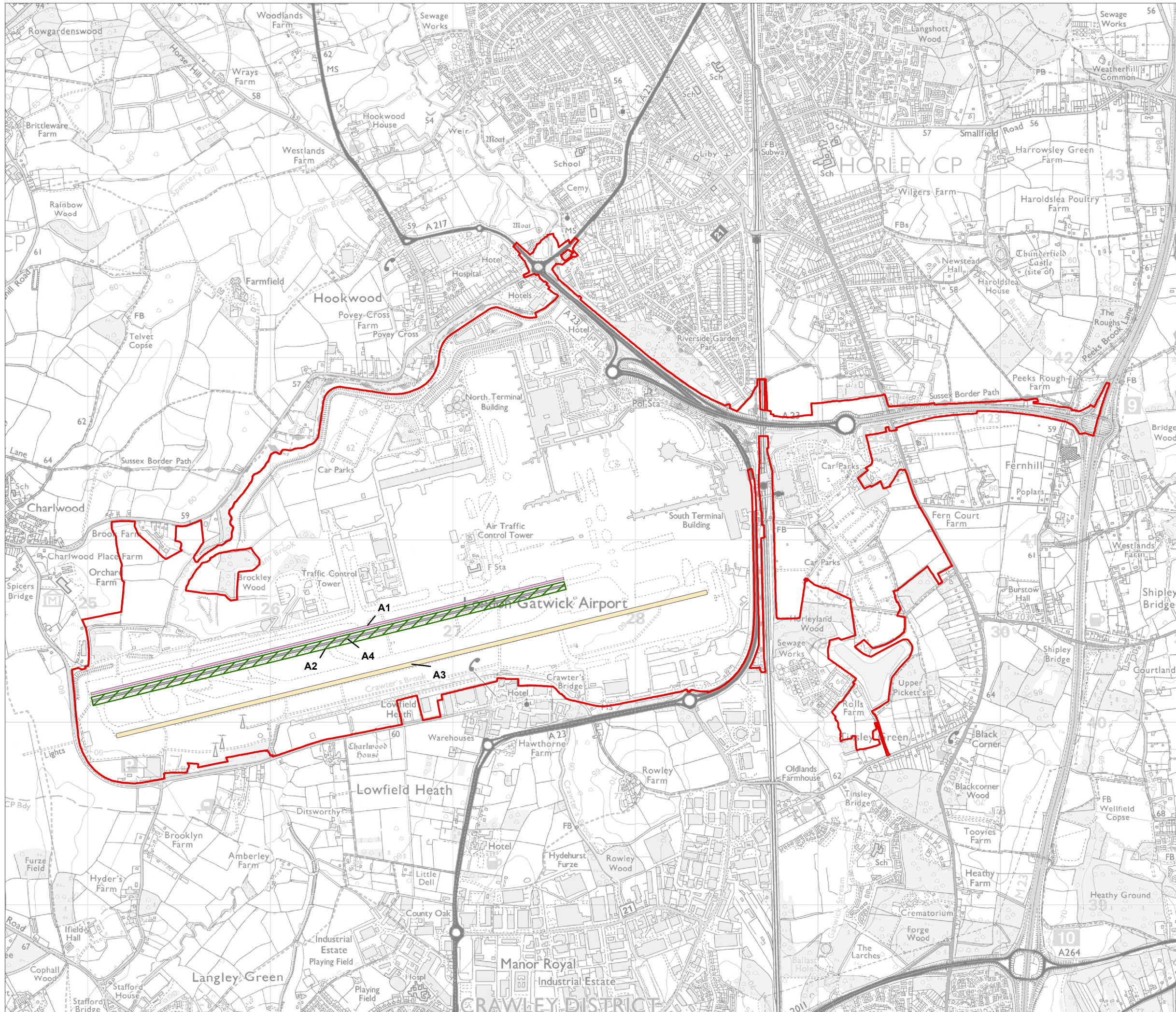
Book 5

VERSION: 1.0

DATE: JULY 2023

Application Document Ref: 5.2

PINS Reference Number: TR020005



KEY

Project Site Boundary

Runways Options

- Option A1 - moving the existing northern runway centreline north by 12 metres to achieve a separation distance of 210 metres
- Option A2 - No Material Changes
- Option A3 - moving the main runway centreline south by 12 metres
- Option A4 - No Material Changes

DOCUMENT

Environmental Statement

DRAWING TITLE

Runways

DATE

July 2023

ORIENTATION



DRAWING NO.

FIGURE 3.3.1

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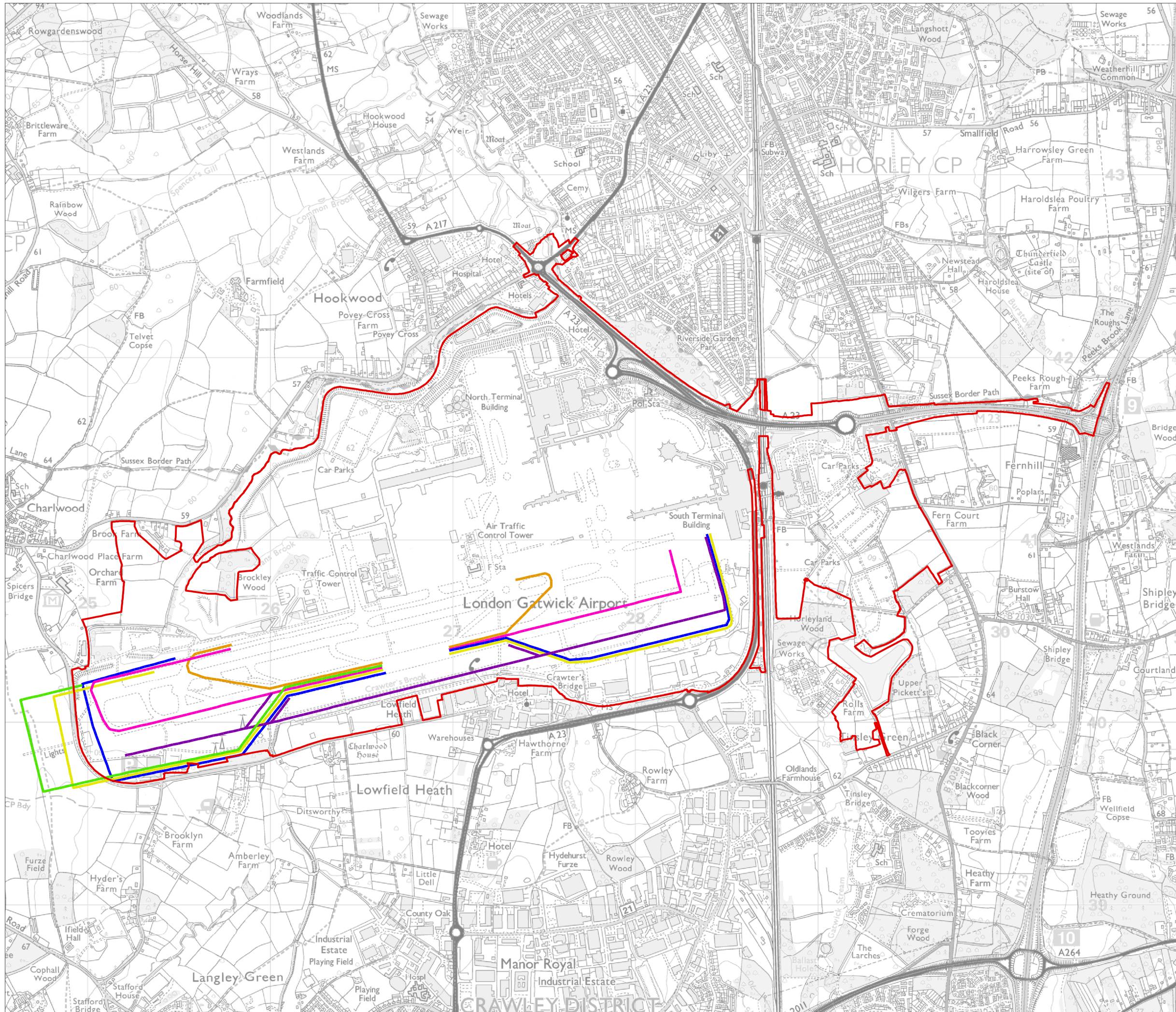
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KEY

Project Site Boundary

End Around and Exit Taxiway

Option B1 - Vacate onto a new dependent end around taxiway (EAT) inside the boundary

Option B2 - Taxi down the full length of the runway and wait to vacate at the end

Option B3 - Arriving flights taxi across the northern runway behind a departing flight, further optimised by holding code C on Rapid Exit Taxiway's (RET)

Option B4 - Vacate onto a new dependent end around taxiway but outside the boundary (not on 08R due to train line)

Option B5 - Vacate onto a new RET to join a new independent end around taxiway

Option B6 - new southern taxiway attached to new RETs and either option 2, 3 or 4 and within the boundary if possible

DOCUMENT

Environmental Statement

DRAWING TITLE

End Around and Exit/Entrance Taxiways

DATE

July 2023

ORIENTATION



DRAWING NO.

FIGURE 3.3.2

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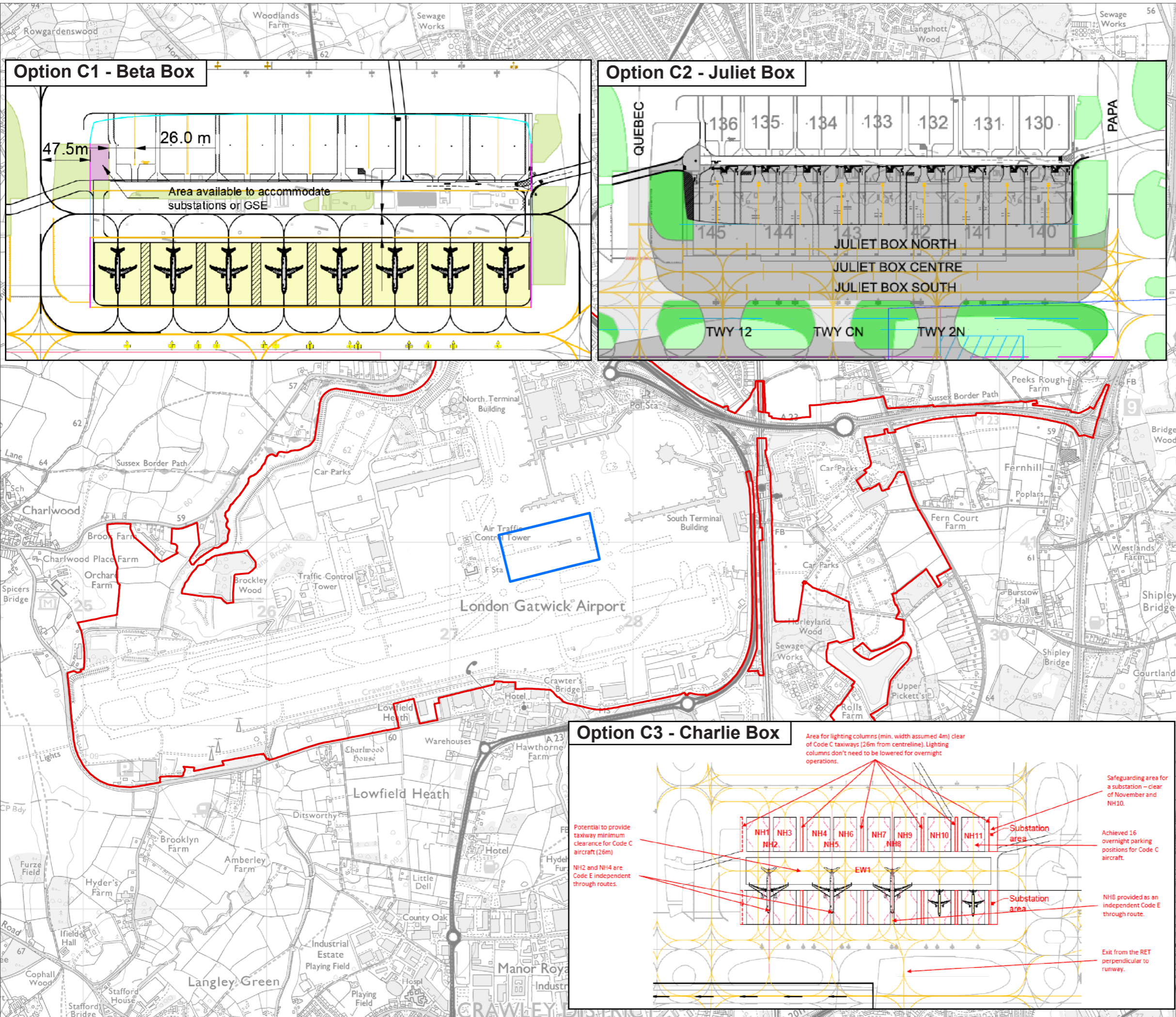
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- KEY**
- Project Site Boundary
 - Hold Area Options**
 - Options Area

DOCUMENT
Environmental Statement

DRAWING TITLE
Aircraft Holding Areas

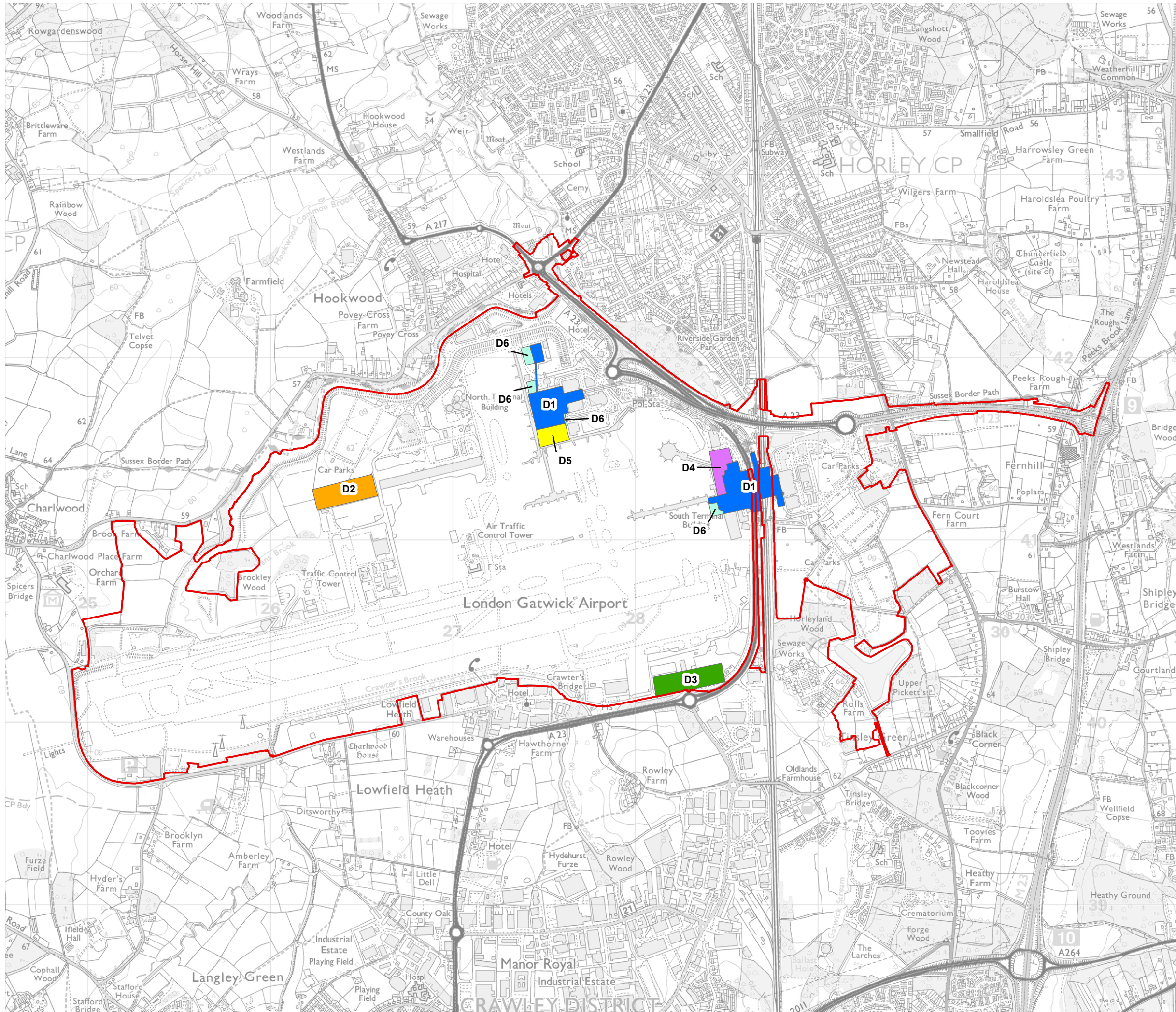
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	DRAWING NO. FIGURE 3.3.3	REVISION ES
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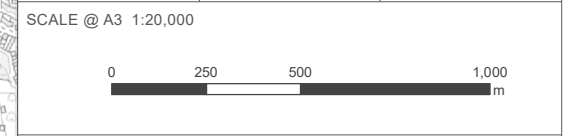
- KEY**
- Project Site Boundary
 - Terminal options**
 - Option D1 - Do nothing approach
 - Option D2 - New terminal in the north western part of the site
 - Option D3 - New terminal in the southern part of the site
 - Option D4 - Expand the existing South Terminal only
 - Option D5 - Expand the existing North Terminal only
 - Option D6 - Expand both existing south and north terminals

DOCUMENT
Environmental Statement

DRAWING TITLE
Terminals

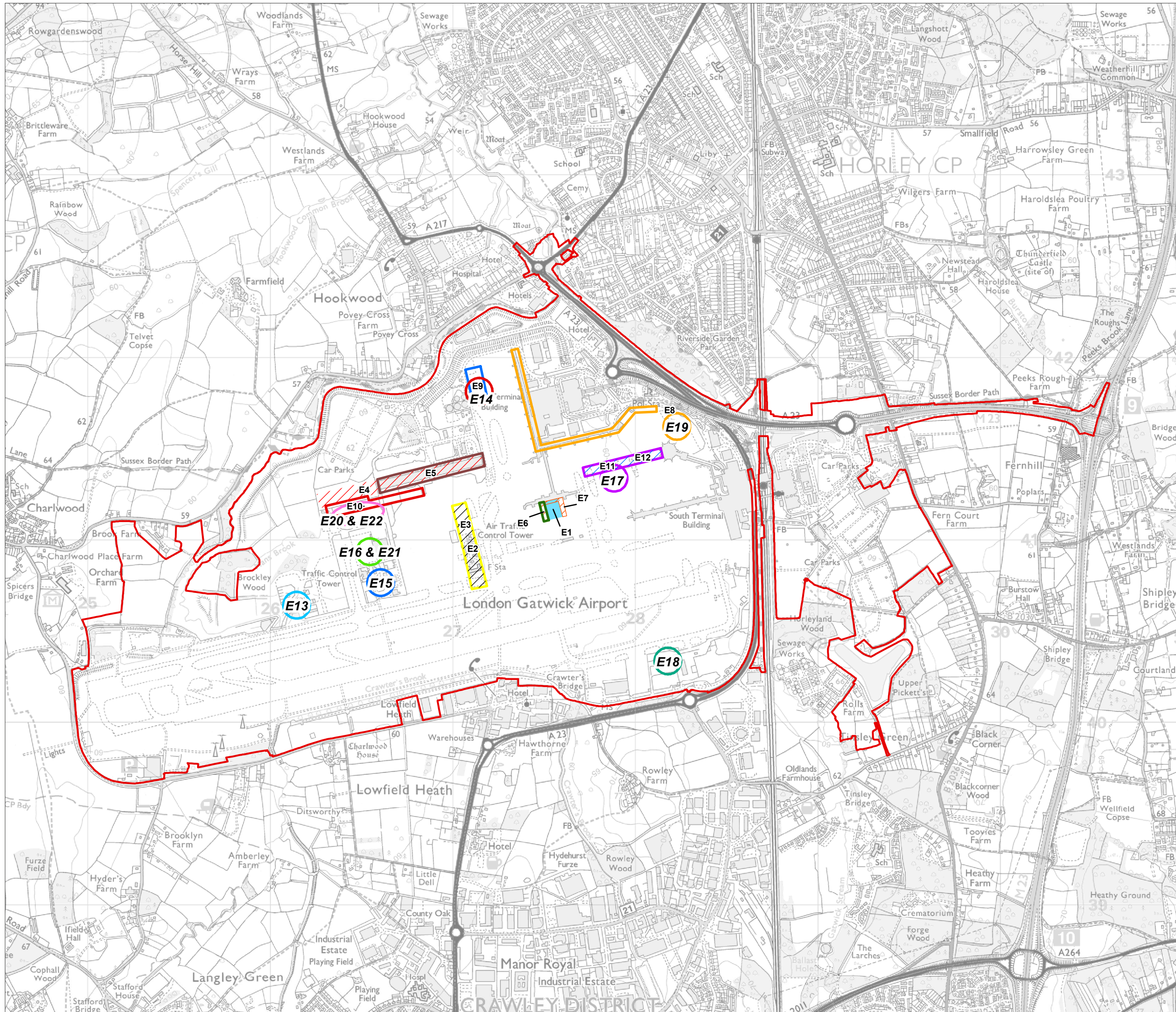
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	ORIENTATION	DRAWING NO. FIGURE 3.3.4	REVISION ES
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KEY

- Project Site Boundary
- Pier Options**
- Option E1 - Pier 6 South Full Service
- Option E2 - Current tower stands location, remote, mixed-use pier proposal
- Option E3 - Current tower stands (Code C only)
- Option E4 - Pier 7 (Cargo) Single loaded
- Option E5 - Pier 7 (Cargo) Double loaded
- Option E6 - Pier 6 southern single pier
- Option E7 - Pier 6 southern double pier
- Option E8 - Pier 5 / Pier 4 re-configured
- Option E9 - Pier 5 West Extension
- Option E10 - Pier 7 (south of cargo)
- Option E11 - Pier 3 Western Extension
- Option E12 - Other Pier 3 Alternative Options
- Stand Options**
- Option E13 - new '230' stands, north west zone
- Option E14 - '60' stand expansion
- Option E15 - new 'Oscar' stands south of Hangar 7
- Option E16 - new Hangar 7 stands; Option E21 - new Hangar 7 stand
- Option E17 - '40' stand expansion east of Pier 6
- Option E18 - new Taxiway Yankee - MA 1 stands
- Option E19 - new South Terminal 'edge' stands
- Option E20 - Taxiway Lima extension stands; Option E22 - reconfigure stands 150-151, remove stand 152

DOCUMENT
Environmental Statement

DRAWING TITLE
Piers and Stands

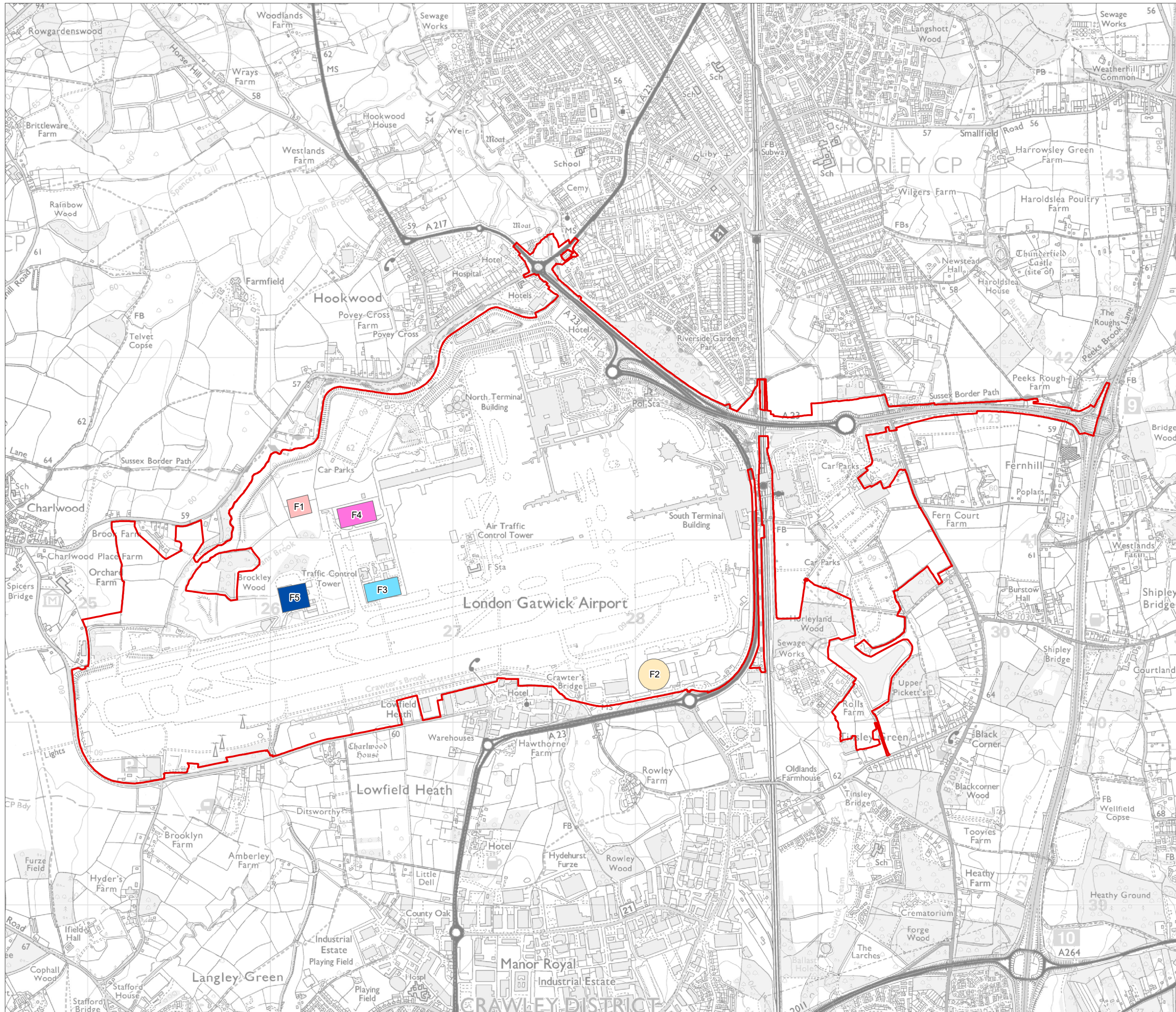
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	DRAWING NO. FIGURE 3.3.5	REVISION ES
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KEY

- Project Site Boundary
- Hangar Option**
- Option F1 - a site which is currently used for car parking
- Option F2 - a site adjacent to Hangar 6 currently used for car parking;
- Option F3 - a site within an area of the airport known as Oscar, adjacent to the existing Virgin hangar;
- Option F4 - a site currently used for Long Stay Summer Special car parking
- Option F5 - land adjacent to the Boeing Hangar.

DOCUMENT
Environmental Statement

DRAWING TITLE
Hangars

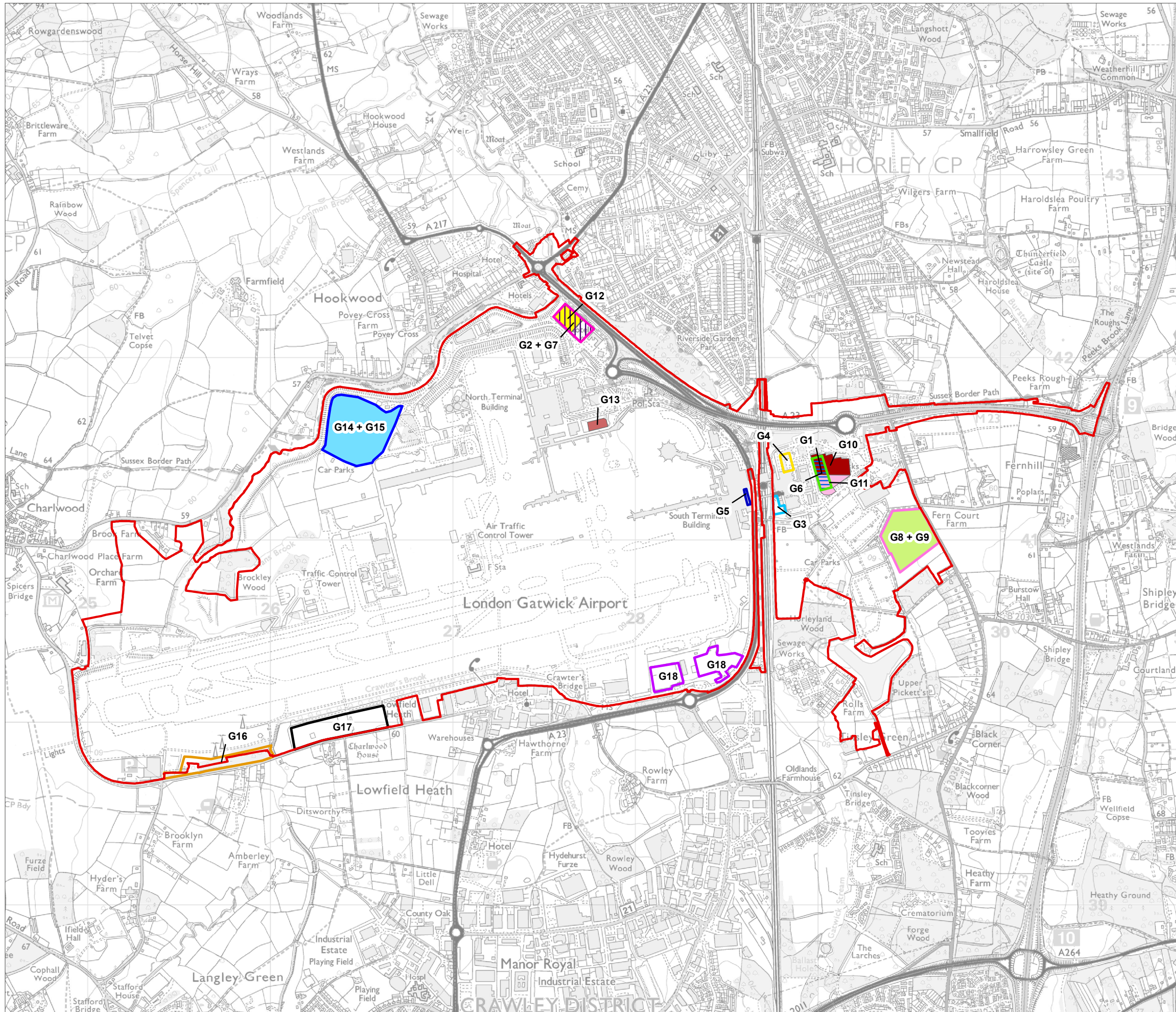
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	DRAWING NO. FIGURE 3.3.6	REVISION ES
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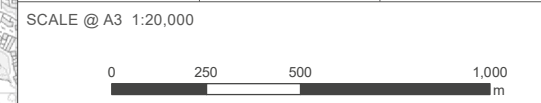
- KEY**
- Project Site Boundary
 - Hotel Options**
 - Option G1
 - Option G2
 - Option G3
 - Option G4
 - Option G5
 - Office Options**
 - Option G6
 - Option G7
 - Car Park Options**
 - Option G8
 - Option G9
 - Option G10
 - Option G11
 - Option G12
 - Option G13
 - Option G14
 - Option G15
 - Option G16
 - Option G17
 - Option G18

DOCUMENT
Environmental Statement

DRAWING TITLE
Hotels, Offices and Car Parks

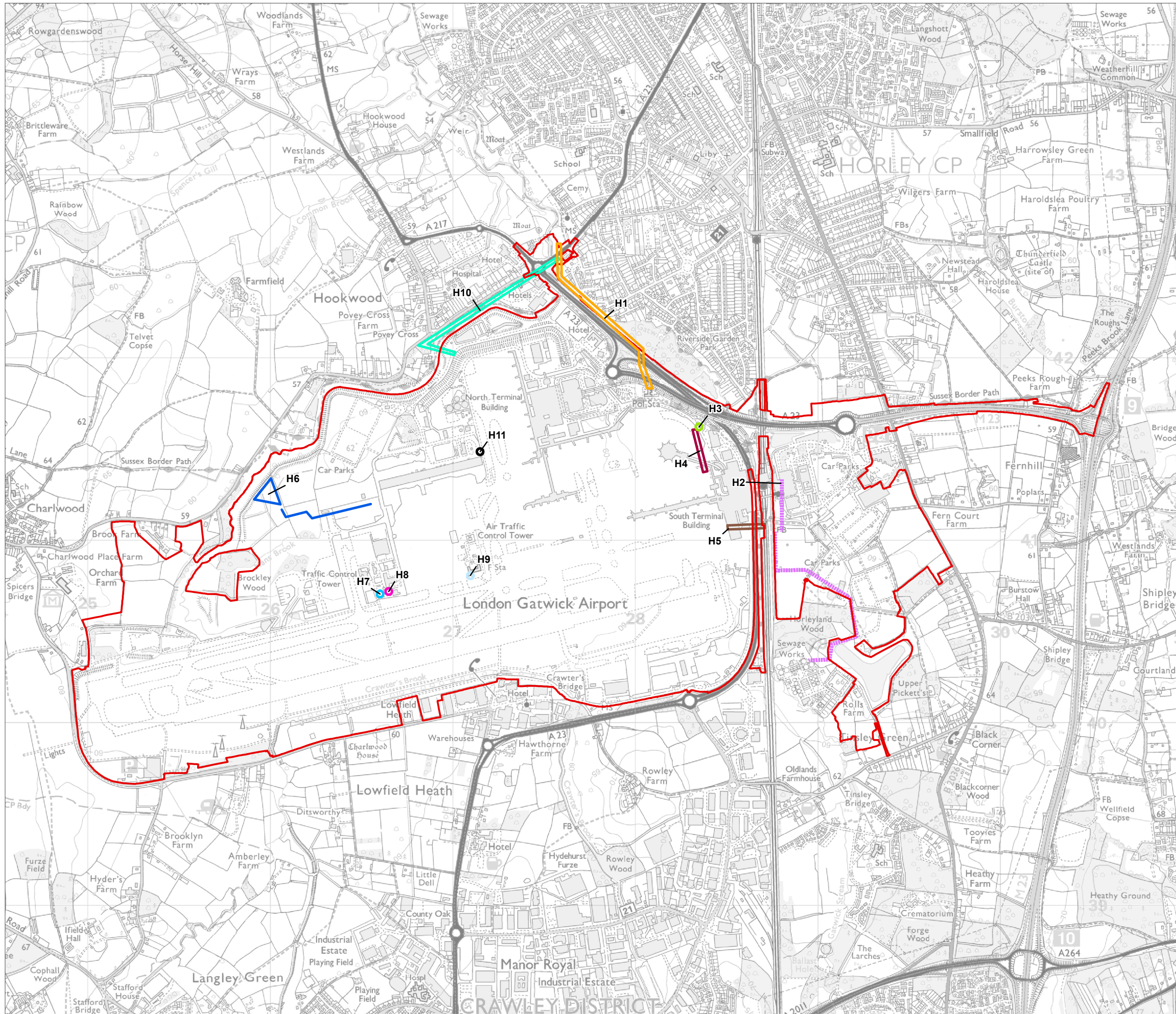
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	DRAWING NO. FIGURE 3.3.7	REVISION ES
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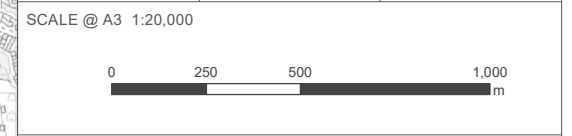
- KEY**
- Project Site Boundary
 - Foul Water Drainage Options**
 - Option H1 - ST-foul, upgrade main to Horley STW
 - Option H2 - ST-foul, reroute PS19 and PS23 to Crawley STW
 - Option H3 - ST-foul, storage tanks and slow release to Horley STW
 - Option H4 - ST-foul PS40 and sewer line upgrade
 - Option H5 - ST-foul connection to Crawley STW under railway
 - Option H6 - GAL owned waste water treatment works
 - Option H7 - Airfield foul - relocate PS3
 - Option H8 - Airfield foul - reinforce PS3
 - Option H9 - Airfield foul - add PS2a
 - Option H10 - NT foul - route to Horley STW
 - Option H11 - NT foul - PS7a

DOCUMENT
Environmental Statement

DRAWING TITLE
Foul Water

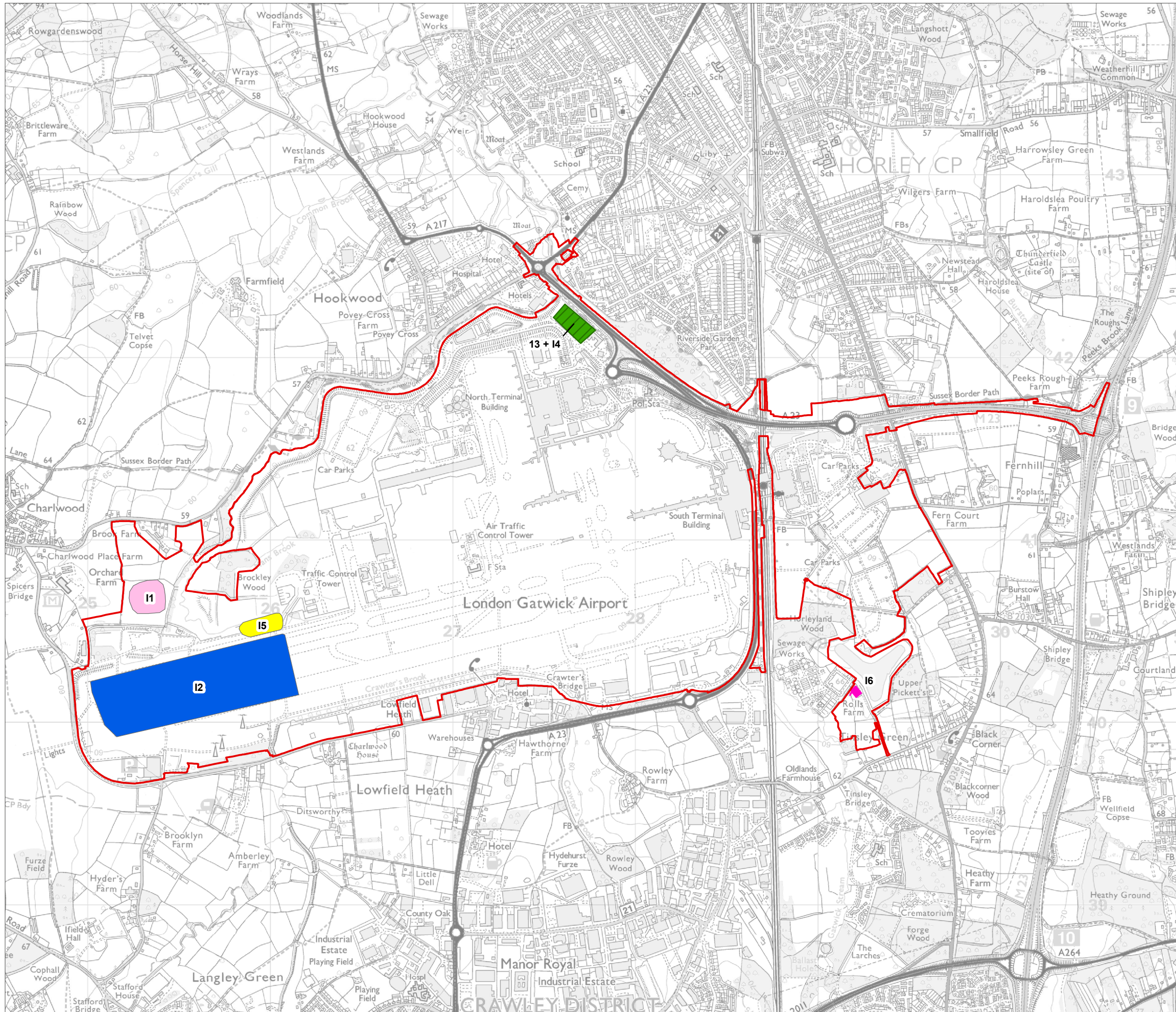
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	DRAWING NO. FIGURE 3.3.8	REVISION ES
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KEY

Project Site Boundary

Drainage Design Options

Option I1

Option I2

Option I3

Option I4

Option I5

Option I6

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Surface Water Drainage

DATE

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ORIENTATION



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FIGURE 3.3.9

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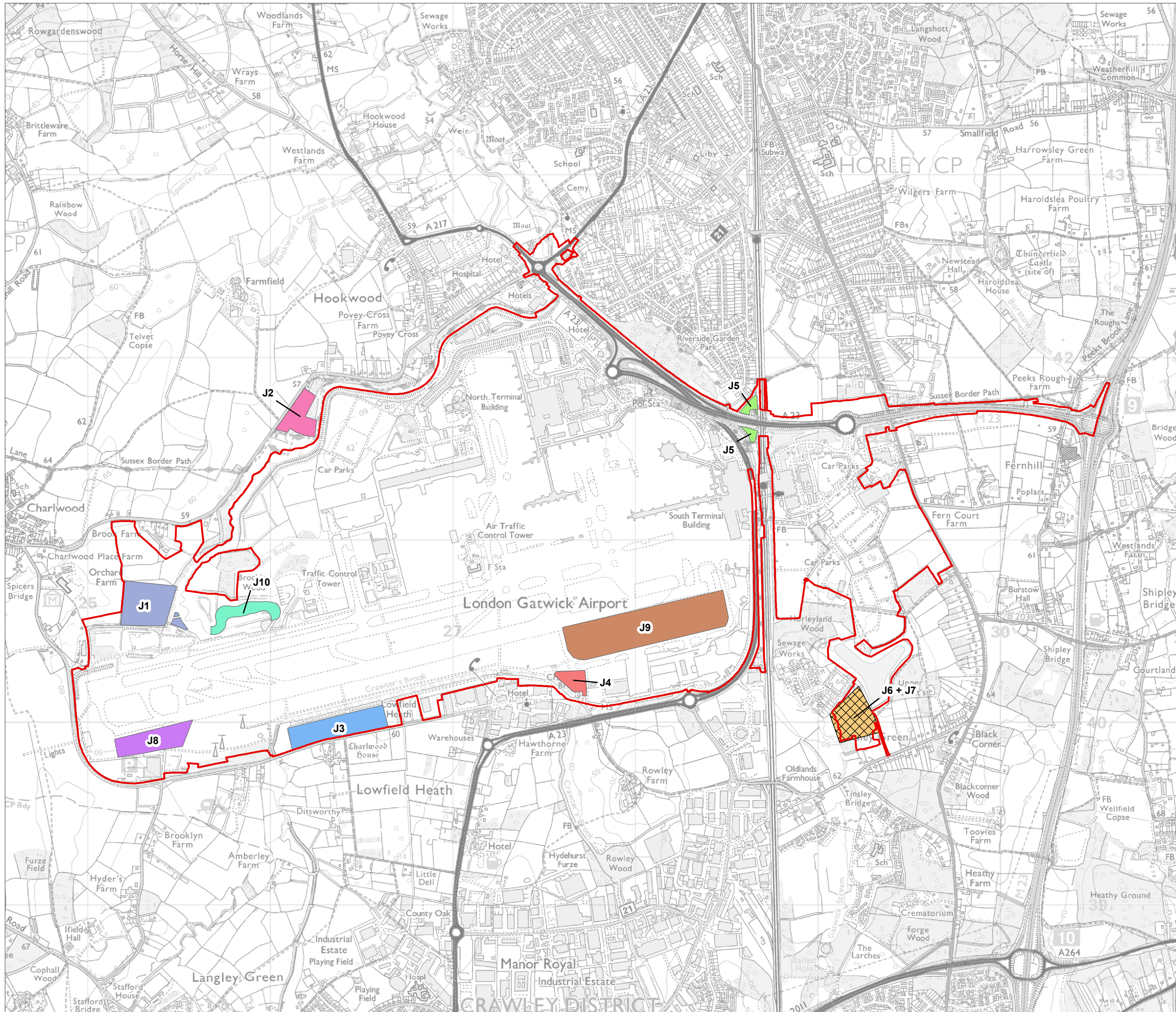
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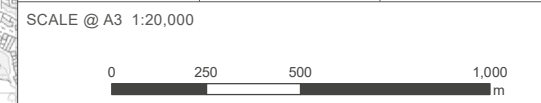
- Project Site Boundary
- Fluvial Flooding Mitigation Options**
- Option J1 - Museum Field
- Option J2 - Summer Holiday Parking
- Option J3 - Car park X
- Option J4 - Car park Z
- Option J5 - Car park B
- Option J6 - East of Gatwick Stream, with trees
- Option J7 - East of Gatwick Stream, without trees
- Option J8 - Areas in between EAT West
- Option J9 - Areas in between EAT East
- Option J10 - Relocate and reconfigure existing River Mole into a two-stage channel

DOCUMENT
Environmental Statement

DRAWING TITLE
Fluvial Flood Risk Mitigation

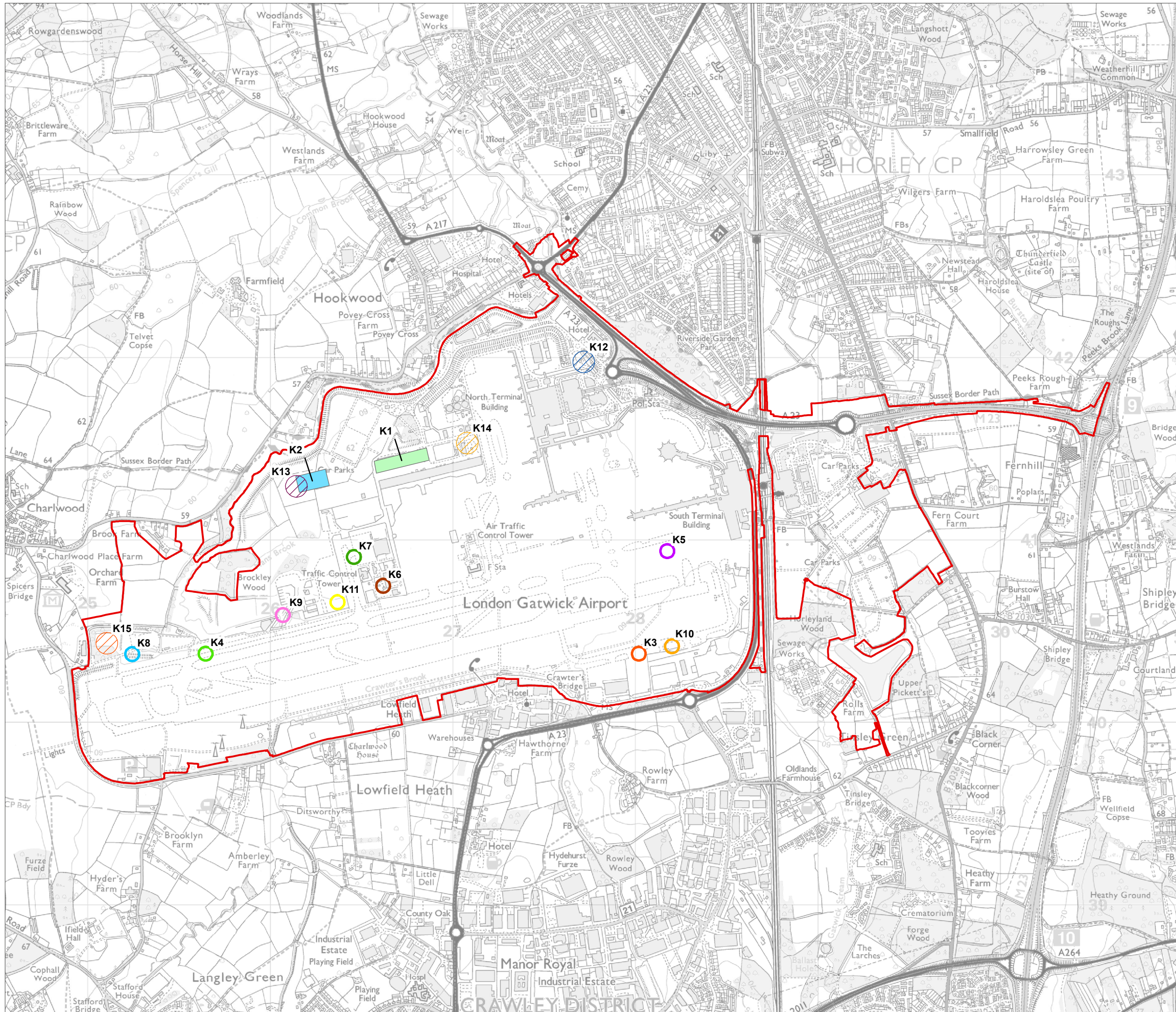
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	DRAWING NO. FIGURE 3.3.10	REVISION ES
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KEY

- Project Site Boundary
- Waste Management Option**
- Option K1 – relocation of the CARE facility in an area currently used as valet north 'Flying Pan' car park
- Option K2 – relocation of the CARE facility in an area currently used as car park self-park north
- Engine Running Options**
- Option K3: Taxiway Yankee - Block 15/16
- Option K4: Taxiway Juliet (West)
- Option K5: Alpha Box
- Option K6: Oscar Area
- Option K7: Taxiway Tango - Block 53
- Option K8: Juliet Spur
- Option K9: South of Boeing Hangar
- Option K10: 'Old Hangar 4' Entrance
- Option K11: 230 Stands
- RVP Options**
- Option K12: Northgate Area (former Security Post)
- Option K13: North West Zone Area
- Option K14: Northern Approach Security Post
- Option K15: Western End of Aerodrome

DOCUMENT

Environmental Statement

DRAWING TITLE

Displaced Facilities

DATE

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ORIENTATION



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FIGURE 3.3.11

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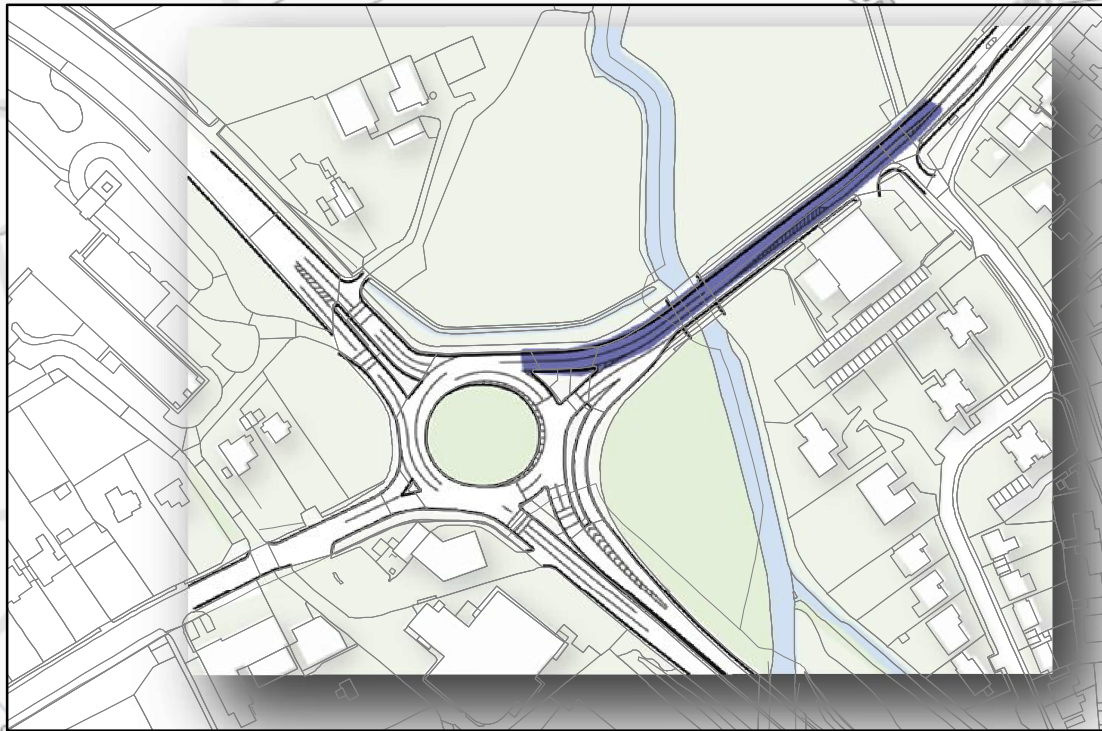
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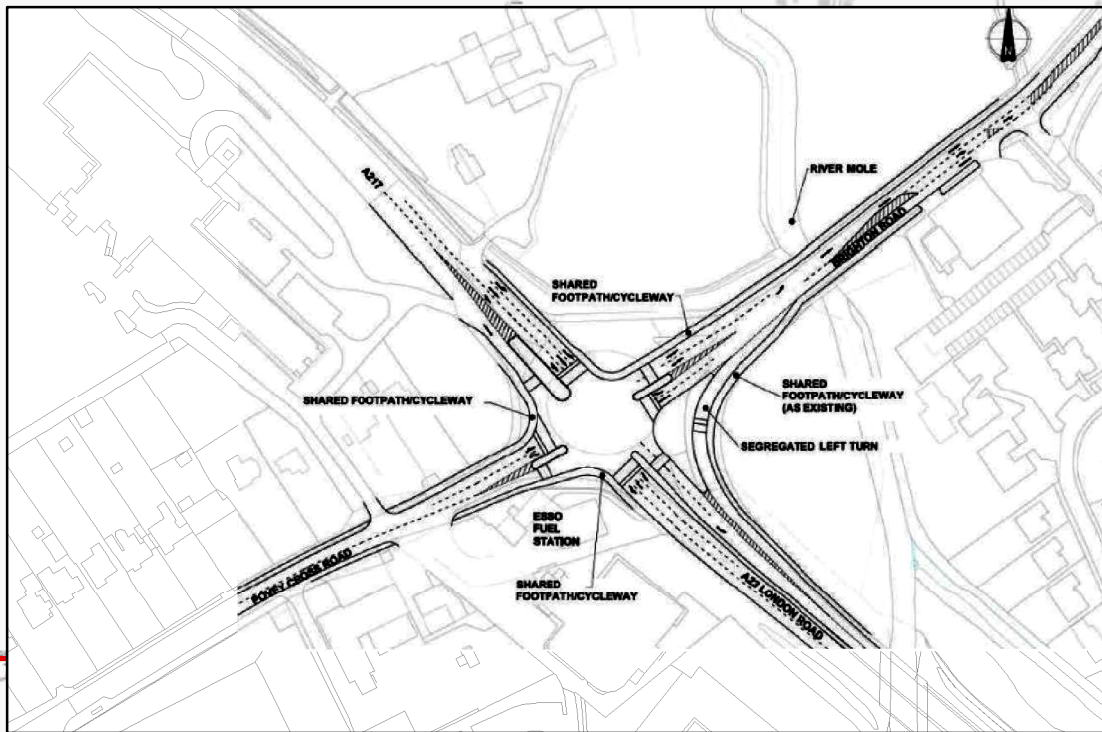
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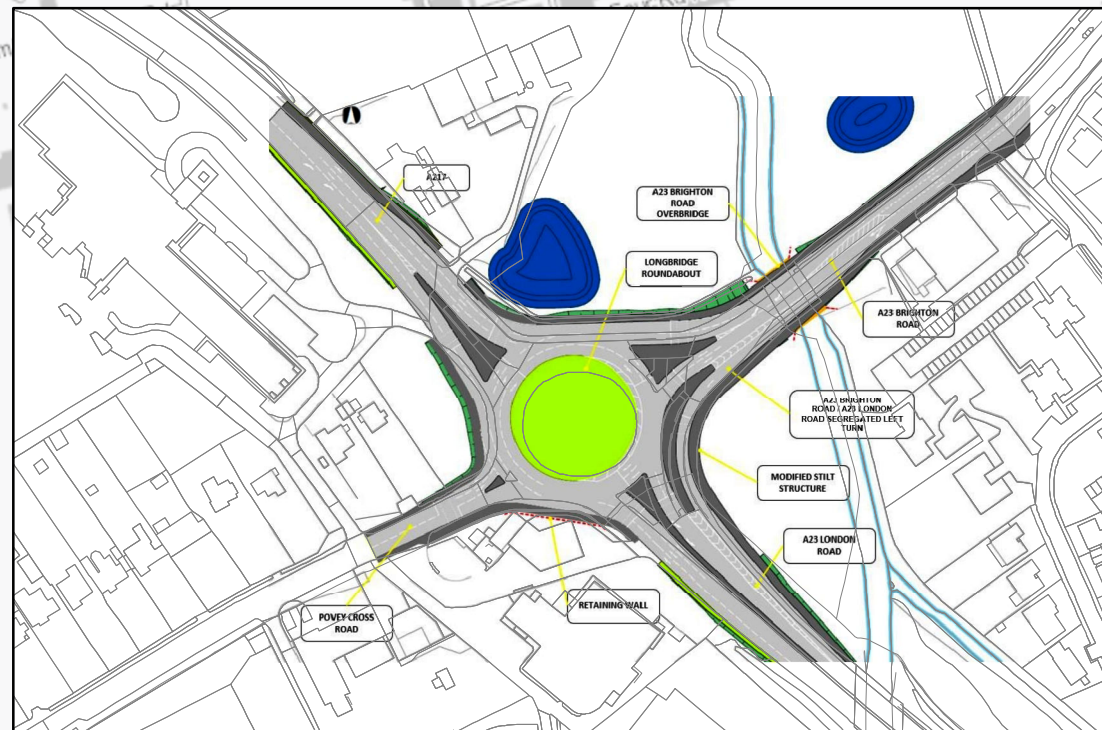
Option L1: Do minimum, right turn storage for Woodroyd Avenue and Petrol Filling Station



Option L2: Junction improvement to four arm signalised intersection



Option L3: Substantially improve the roundabout and provide full width running lanes throughout the junction, replacing the narrow lanes that currently exist



KEY
 Project Site Boundary

DOCUMENT
 Environmental Statement

DRAWING TITLE
 Options L1, L2 and L3 Longbridge Roundabout

DATE
 July 2023

ORIENTATION 	DRAWING NO. FIGURE 3.3.12a	REVISION For ES Issue
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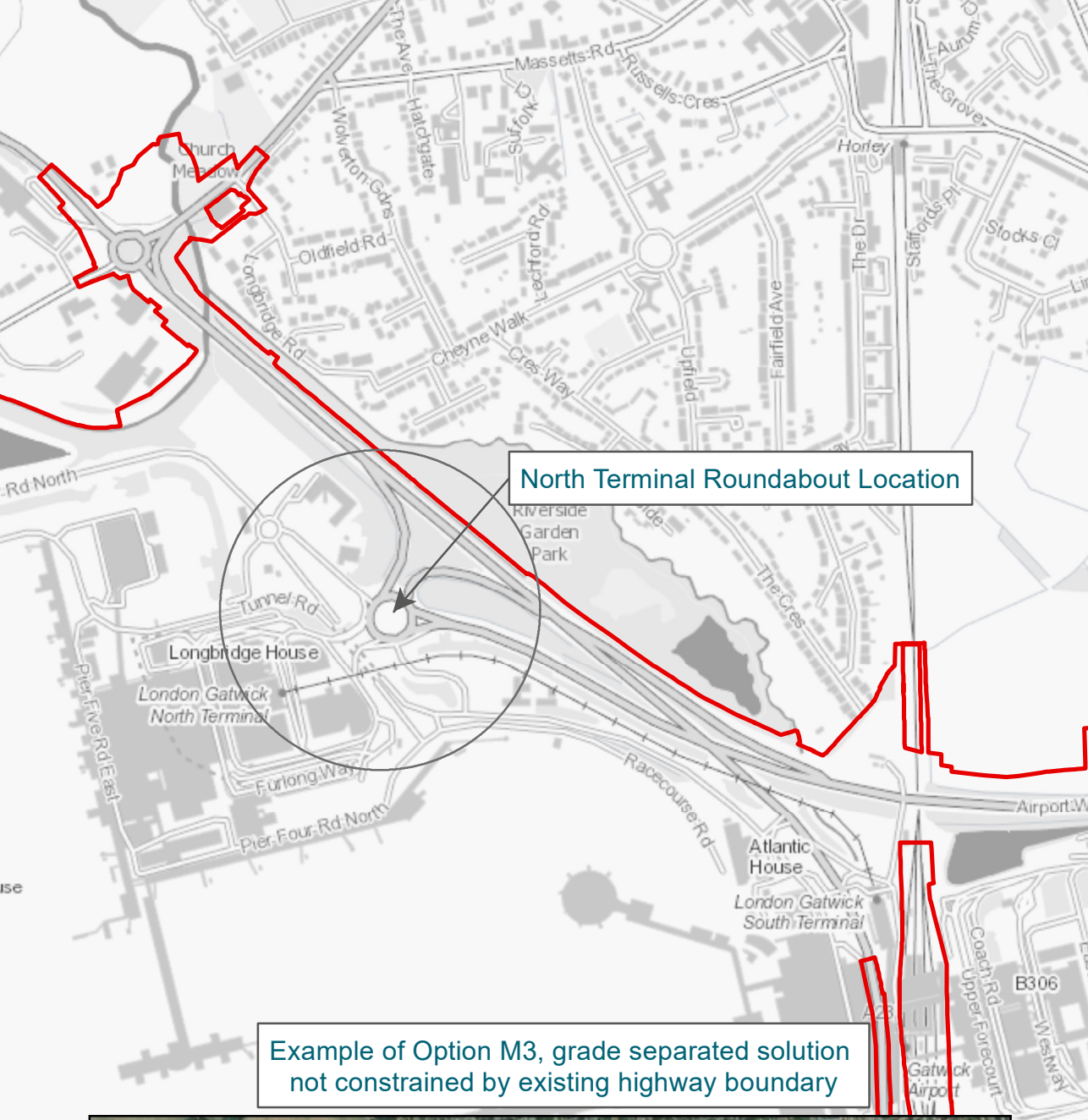
Example of Option M1, at-grade solution (signalisation)



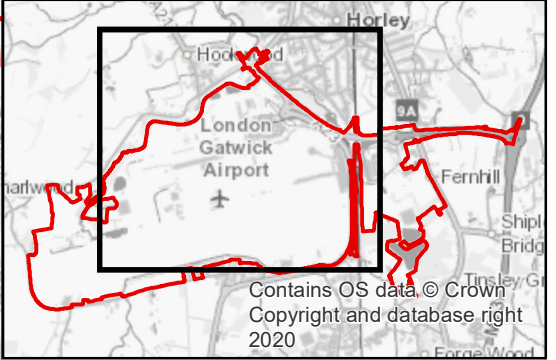
Example of Option M2, grade-separation solution



Example of Option M3, grade separated solution not constrained by existing highway boundary



KEY
 Project Site Boundary



DOCUMENT
 Environmental Statement

DRAWING TITLE
 Options M1-M3 North Terminal Roundabout

DATE
 July 2023

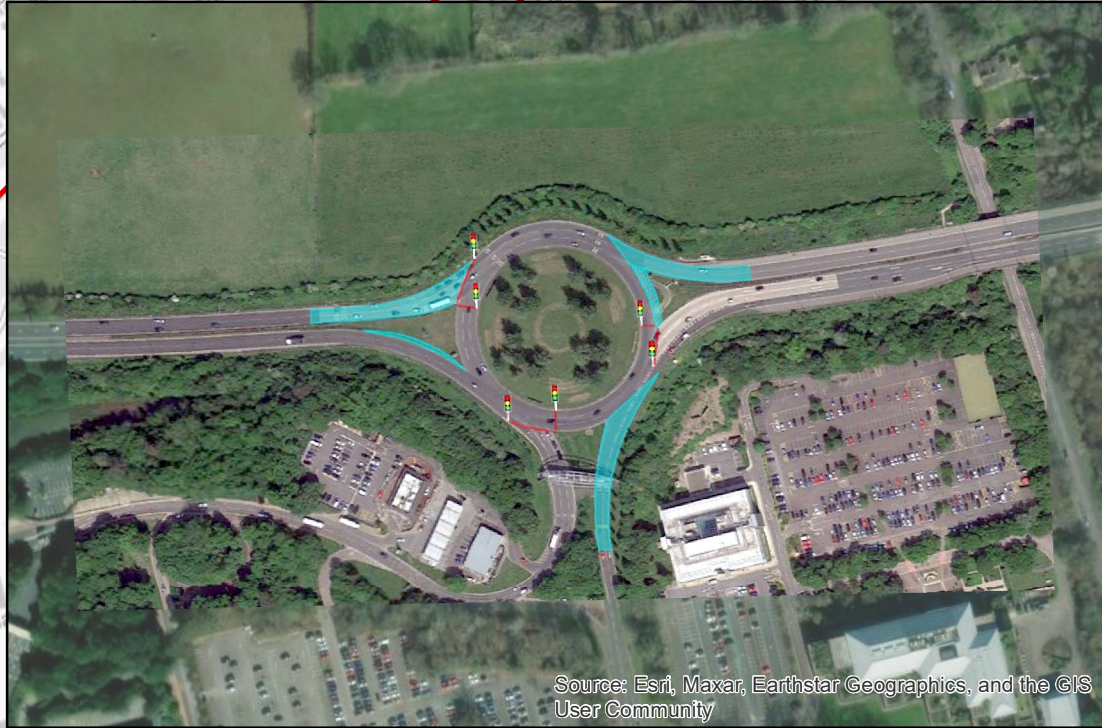
ORIENTATION 	DRAWING NO. FIGURE 3.3.12(b)	REVISION ES
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 Project Site Boundary

Example of Option N1, at-grade solution



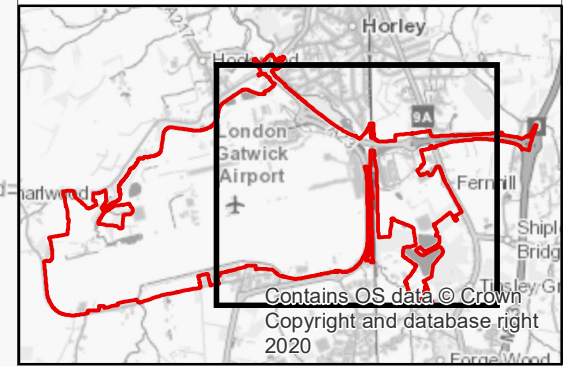
Example of Option N2, grade-separation solution



Example of land that could be acquired for Option N3



South Terminal Roundabout



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 Environmental Statement

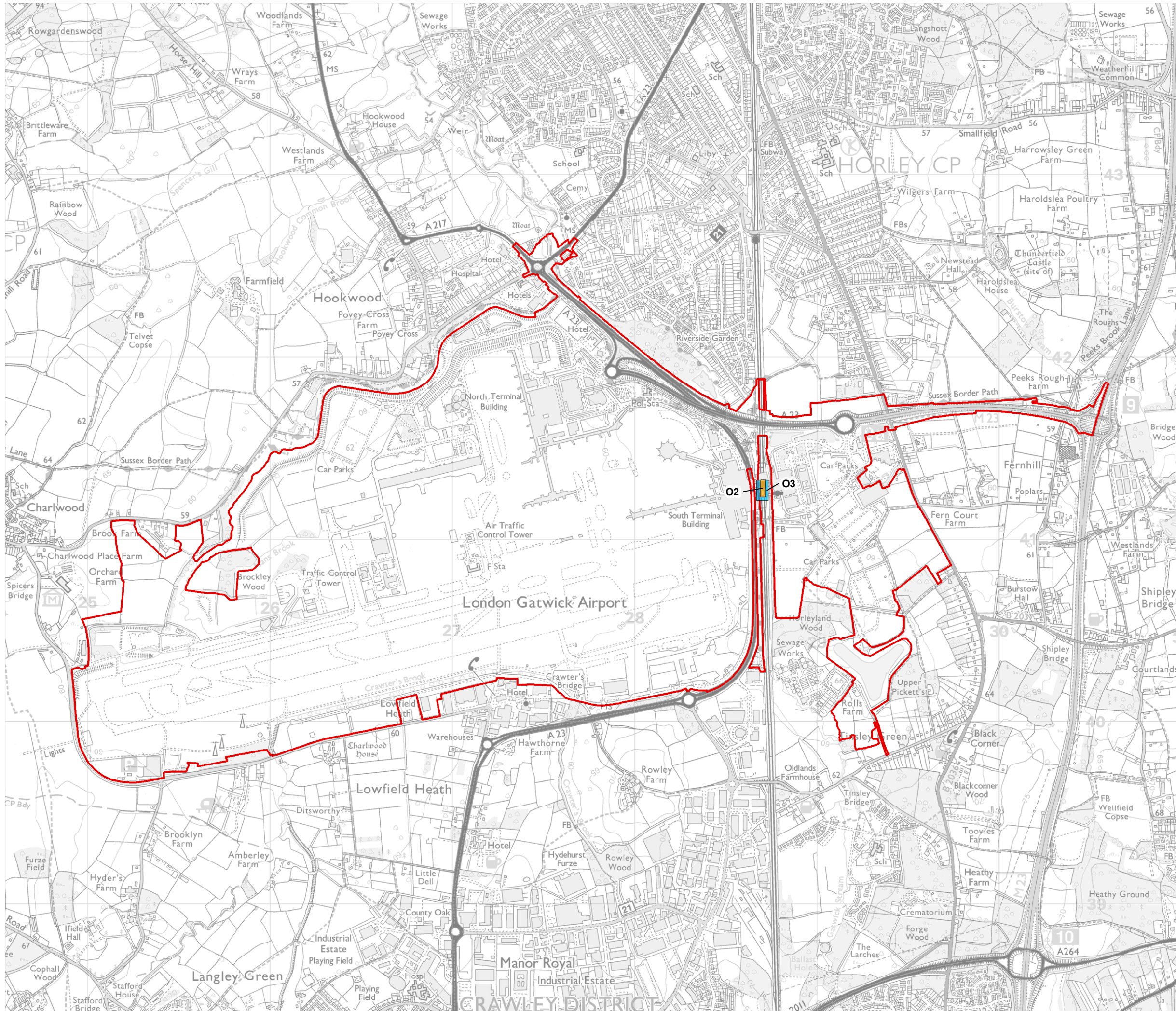
DRAWING TITLE
 Options N1-N3 South Terminal Roundabout

DATE
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ORIENTATION 	DRAWING NO. FIGURE 3.3.12(c)	REVISION ES
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KEY

Project Site Boundary

Rail Access Options

- Option O2: Extension of a new station concourse over Platform 3 and 4
- Option O3: Extension of a new concourse to full deck, with additional escalators/lifts/stairs to and from platform level

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Environmental Statement

DRAWING TITLE

Rail Access

DATE

July 2023

ORIENTATION



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FIGURE 3.3.13

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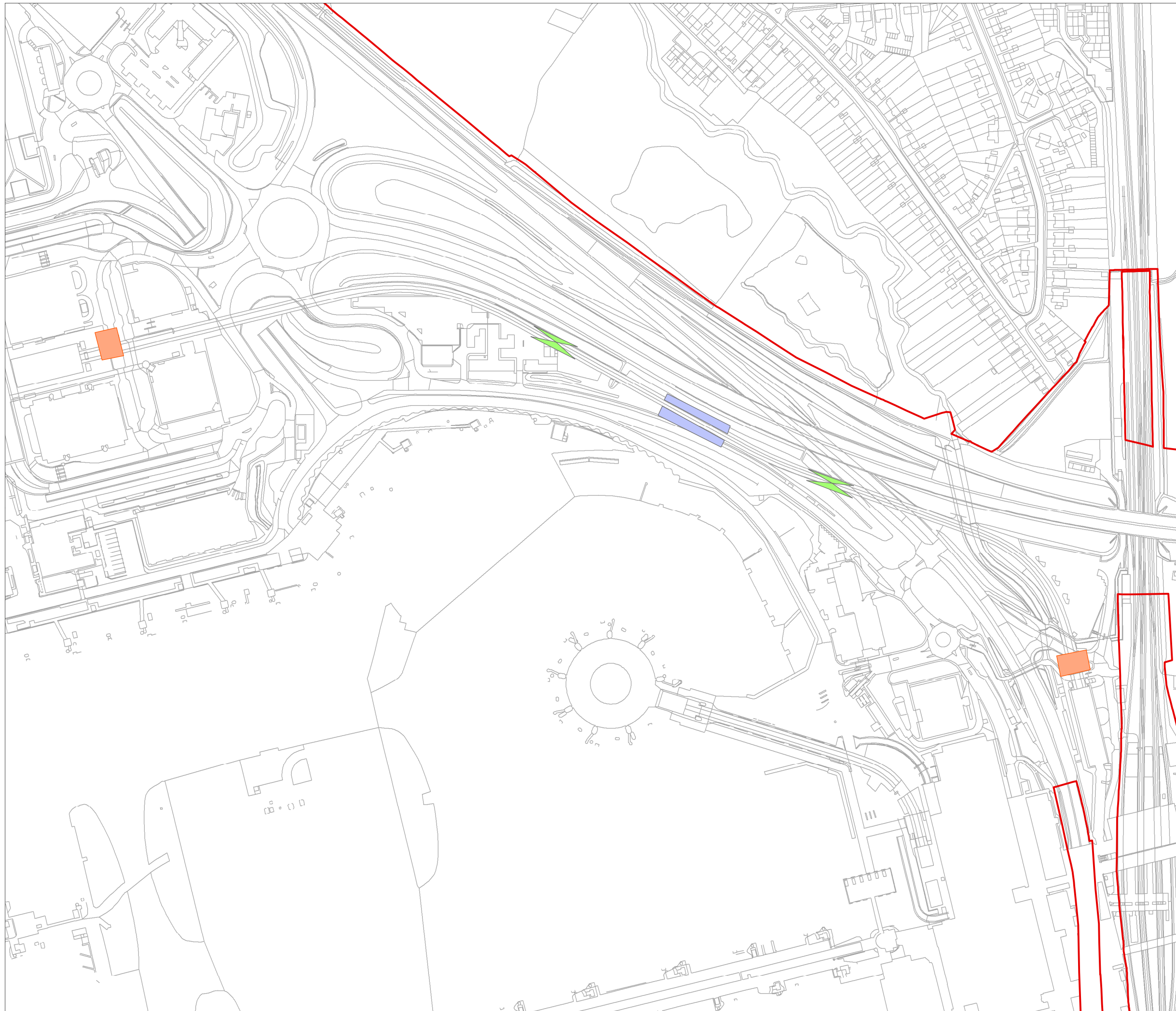
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KEY

- Project Site Boundary
- Inter Terminal Transit System Options**
- Option P3 – Extend to four-car trains and extend platforms
- Option P4 – Add crossover for maximum platform utilisation
- Option P5 – Add bypass loops and maintenance area

DOCUMENT

Environmental Statement

DRAWING TITLE

Inter Terminal Transit System (Shuttle)

DATE

July 2023

ORIENTATION



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FIGURE 3.3.14

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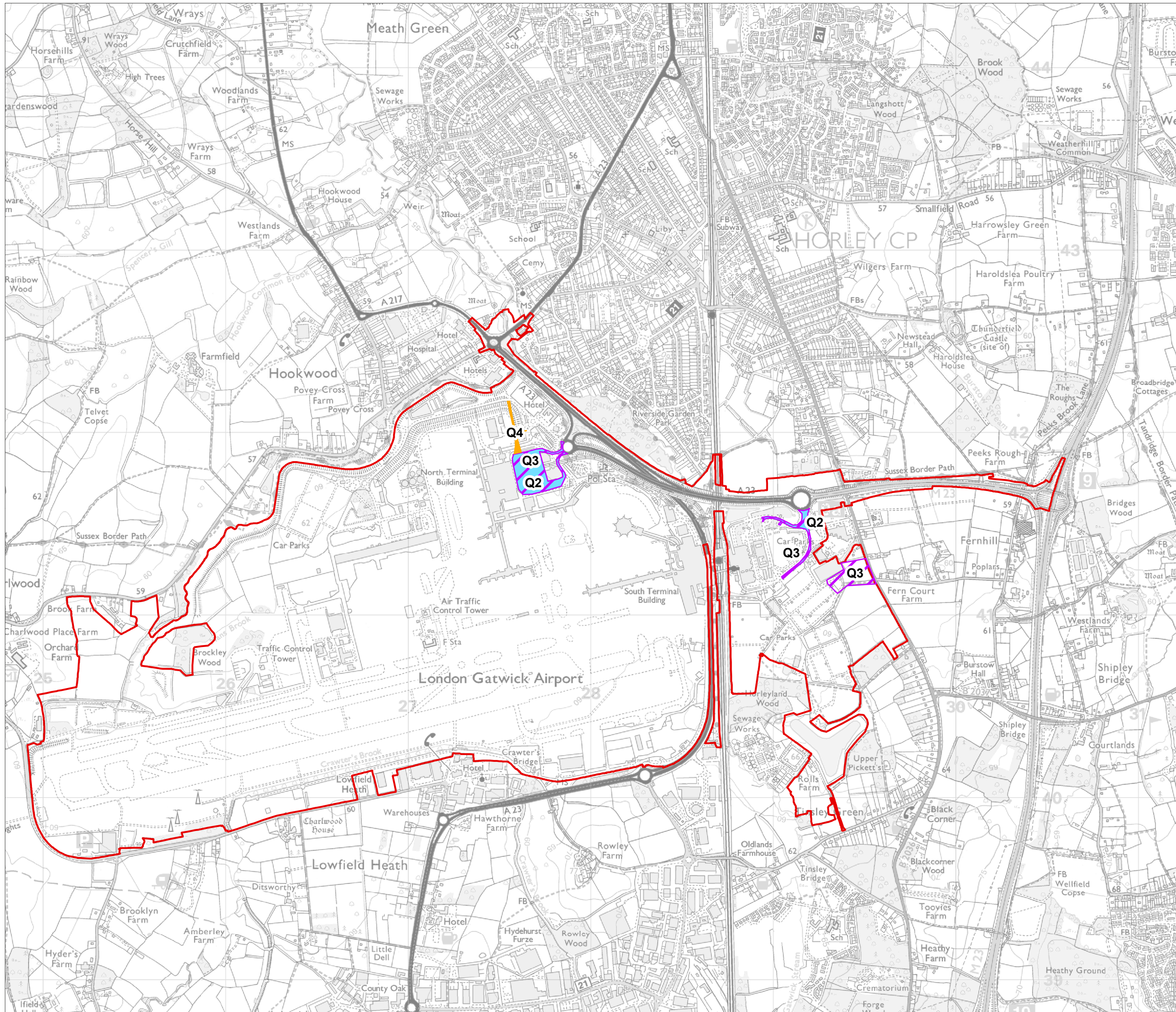
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KEY

- Project Site Boundary
- Option Q2: Optimisation forecourt access and egress
- Option Q3: Optimisation forecourt access and egress with some displacement/use of remote facilities
- Option Q4: North Terminal forecourt extension

DOCUMENT
Environmental Statement

DRAWING TITLE
Surface Access: Forecourts

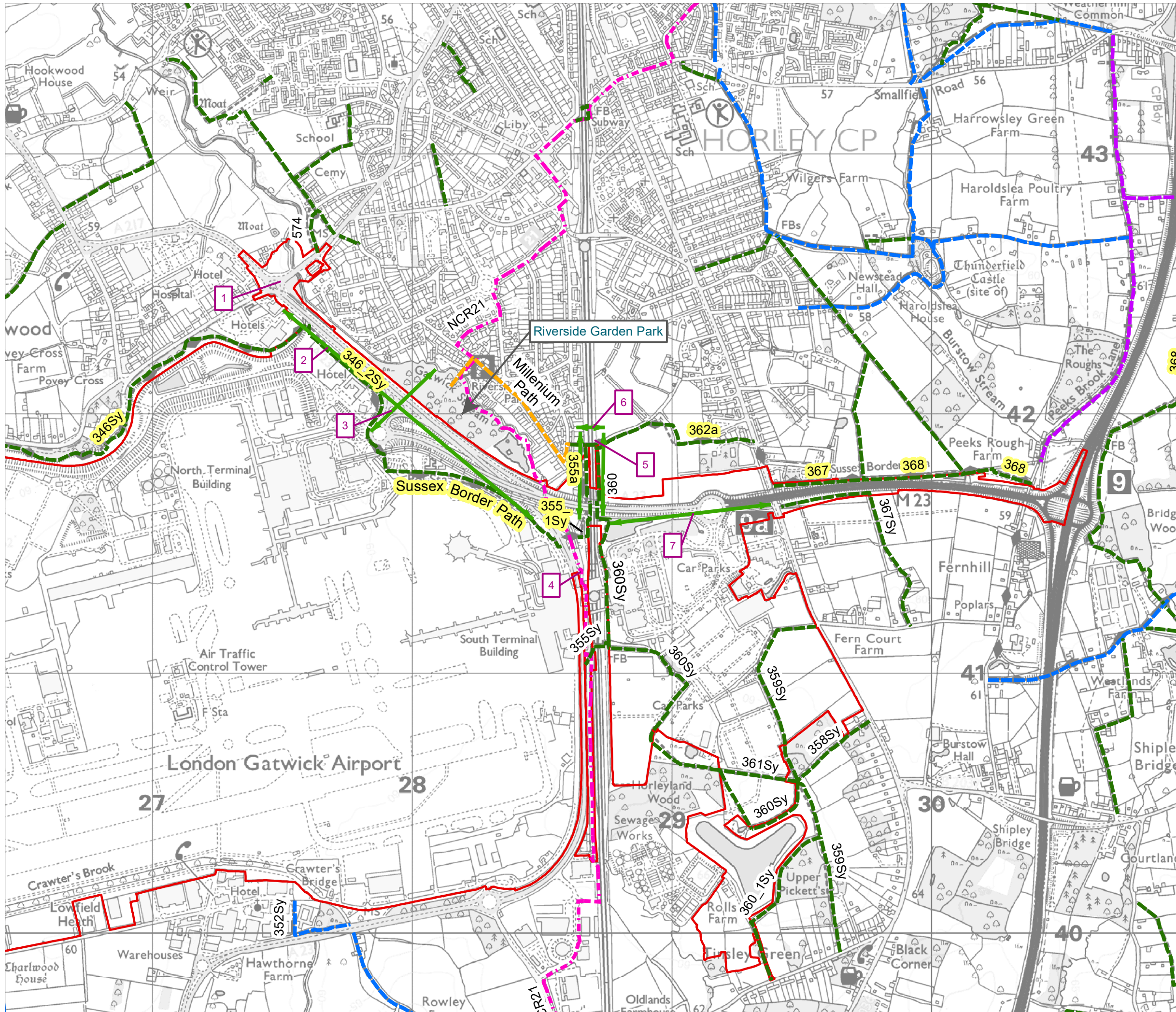
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	DRAWING NO. FIGURE 3.3.15	REVISION ES
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- Legend**
- ▭ Project Site Boundary
 - Bridleway
 - Byway
 - Footpath
 - Restricted Byway
 - Other route
 - National Cycle Route 21 (NCR21)

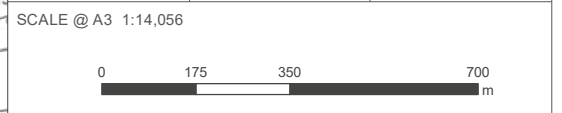
- 1 Enhanced active travel infrastructure in vicinity of Longbridge roundabout – Options R1 and R2
- 2 Enhanced north/south connectivity between Longbridge roundabout and Terminal via North Terminal – Options R10 and R11
- 3 Enhanced east / west connectivity between southern Horley and Airport – Options R3 and R4
- 4 NCR21 infrastructure enhancement – Option R8 and R9
- 5 Enhancements to footpaths running north/south adjacent to rail line – Partially related to Options R5, R6 and R7 and scheme proposals for car park B (Option T11)
- 6 Enhanced east / west crossing provision over London to Brighton rail line – Option R5
- 7 Enhanced east / west connectivity between Balcombe Road and South Terminal / Footpaths east of rail line – Forms part of Option R7 to examine onward connectivity to any enhanced rail crossing.

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Environmental Statement

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Active Travel Routes

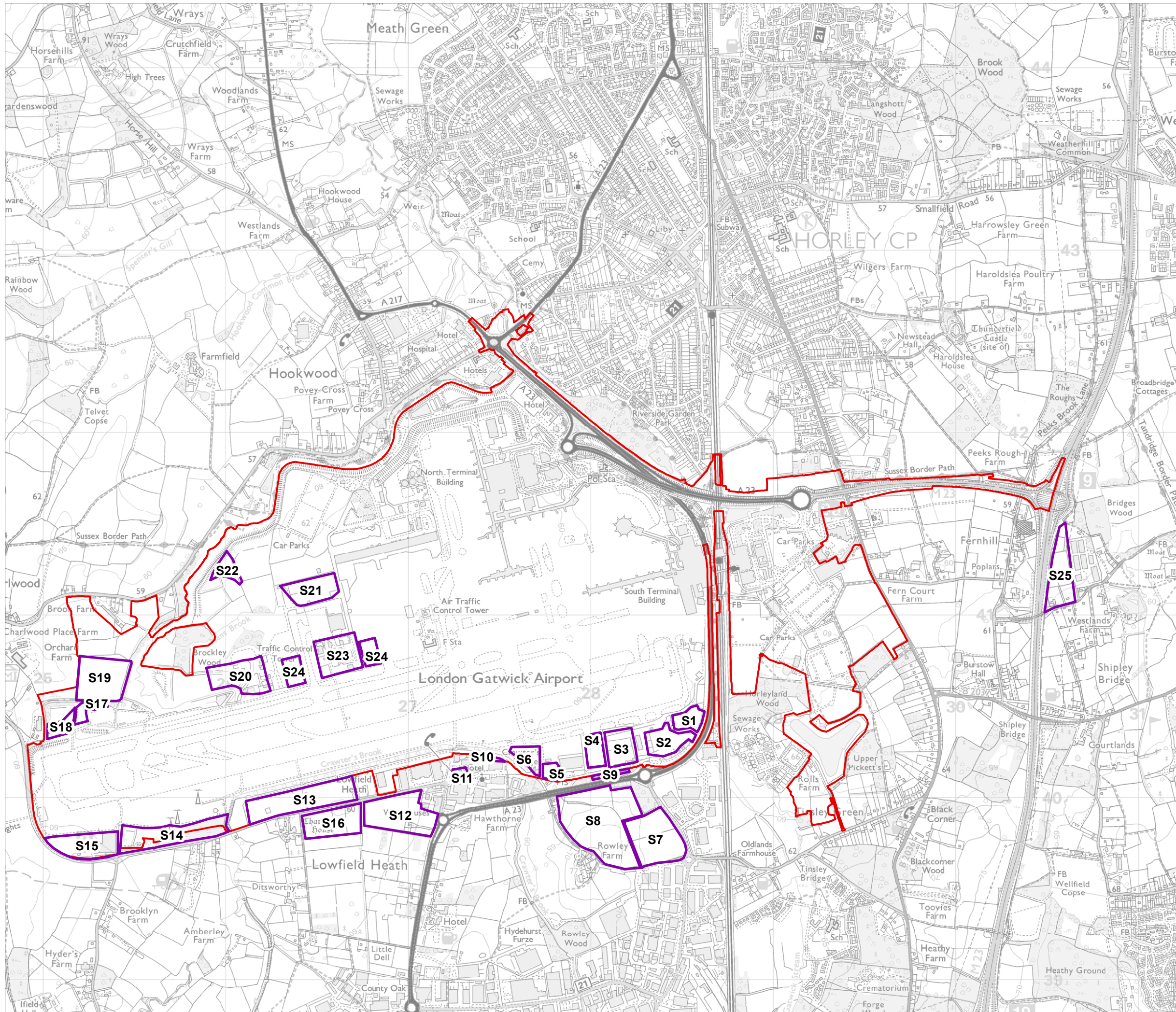
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	DRAWING NO. FIGURE 3.3.16	REVISION For ES Issue
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KEY

Project Site Boundary

Airfield Compound Options

- Option S1: MA1 Site 9
- Option S2: MA1 Site 7 & 8
- Option S3: MA1 Site 3, 4 & 5
- Option S4: MA1 Site 2
- Option S5: BA Hangar Parking Area
- Option S6: Car Park Z Area
- Option S7: Rowley Farm Area 1
- Option S8: Rowley Farm Area 2
- Option S9: Tennis Courts Area
- Option S10: TUI Car Park Area
- Option S11: Old Hotel (Lowfield Heath)
- Option S12: Lowfield Heath Farm Area
- Option S13: Car Park X & V Area
- Option S14: Crawlers Brook
- Option S15: Purple Parking Area
- Option S16: Farm
- Option S17: FTG
- Option S18: FTG West Area
- Option S19: Air Museum Land Area
- Option S20: Old Batching Plant Area
- Option S21: Summer Special South Area
- Option S22: Pond M North Area
- Option S23: Cuckoo
- Option S24: Take operational stands Area
- Option S25: Land South east of M23 Junction 9

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Construction Compounds

DATE

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FIGURE 3.3.17

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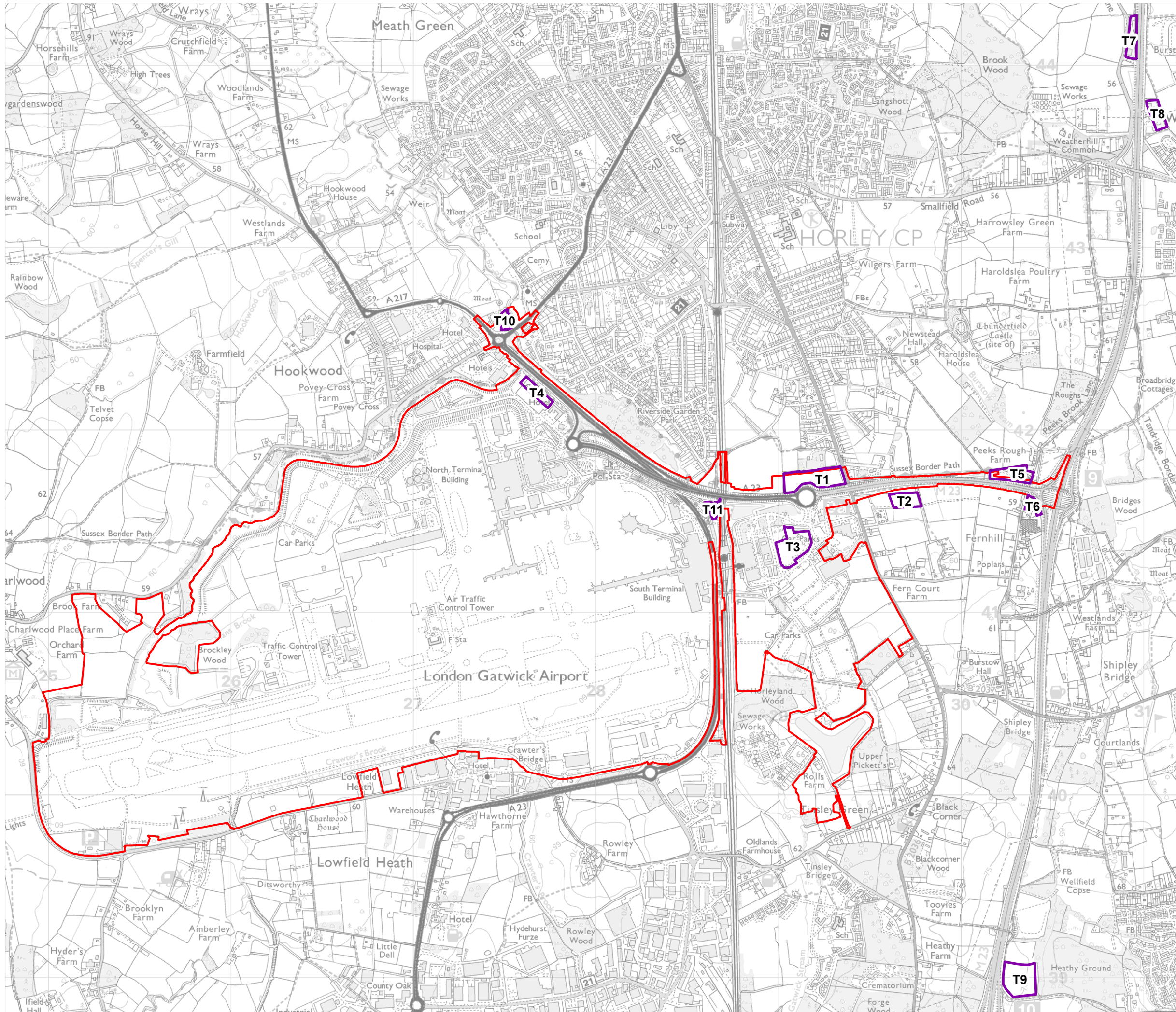
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- Legend**
- Project Site Boundary
 - Option T1: Reigate Field
 - Option T2: Balcombe Road Field
 - Option T3: Car Park H
 - Option T4: Car Park Y
 - Option T5: Peeks Brook Lane North
 - Option T6: Peeks Brook Lane South
 - Option T7: M23 Compound North
 - Option T8: M23 Compound South
 - Option T9: J10 Copthorne
 - Option T10: adjacent to north of Longbridge Roundabout
 - Option T11: Compound at Car Park B

DOCUMENT
Environmental Statement

DRAWING TITLE
Highway Construction Compound Options

DATE
July 2023

	DRAWING NO. FIGURE 3.3.18	REVISION For ES Issue
	DRAWN BY JM	PM / CHECKED BY PK



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