

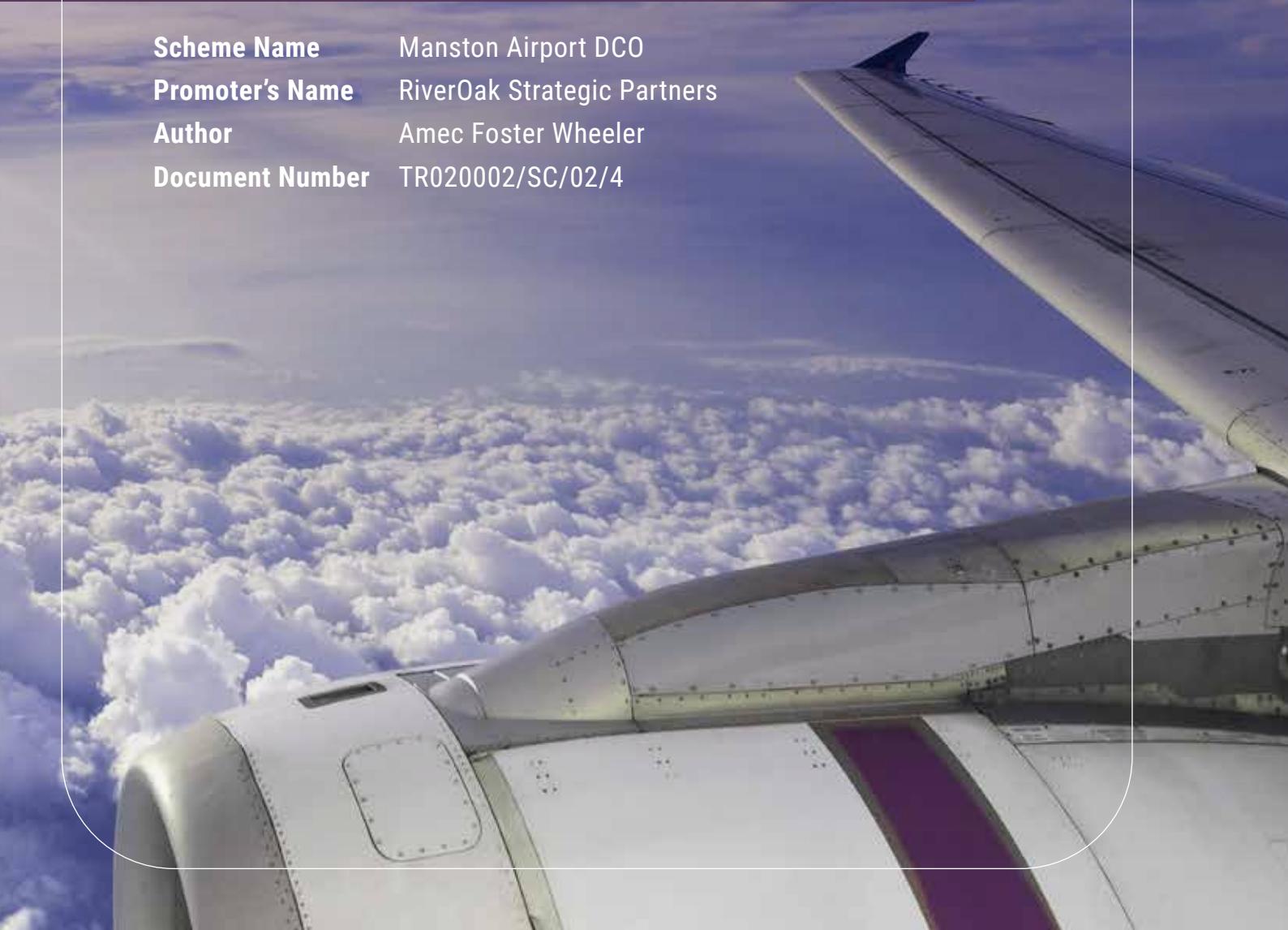


RiverOak Strategic Partners

Manston Airport Development Consent Order

**Preliminary Environmental
Information Report
Volume 4: Figures
June 2017
For consultation**

Scheme Name	Manston Airport DCO
Promoter's Name	RiverOak Strategic Partners
Author	Amec Foster Wheeler
Document Number	TR020002/SC/02/4



2017 Consultation

Suite of Consultation Documents

1.1 As part of the statutory consultation under section 47 of the Planning Act 2008 a suite of consultation documents relating to the proposal to reopen Manston Airport is available to the public. Together these documents give an overview of the development proposals including information on the potential benefits and impacts of the Project, environmental considerations and the business case. The documents also provide further information on the consultation process and enable the public to submit their feedback.

1.2 This consultation also forms part of RiverOak's initial engagement on the design of airspace and procedures associated with the airport. As such it is an opportunity for members of the community to highlight any factors which they believe RiverOak should take into account during that design phase. Having taken all such factors into account, the subsequent proposals for flightpaths and airspace will be subject to a separate round of consultation once the DCO application has been made.

1.3 The suite of consultation documents includes:

1. a Consultation Leaflet giving an overview of the proposals and details of where more information about the Project can be found;
2. a Feedback Form in order to collect responses to the consultation;
3. an Overview Report giving a summary of the proposals including the potential benefits and impacts of the Project, how we propose to mitigate against potential impacts, and a non-technical summary of the Preliminary Environmental Information Report (PEIR);
4. a **Preliminary Environmental Information Report (PEIR); containing preliminary information on the likely environmental effects of our proposals as we have ascertained them so far, including noise, transport and air quality, and how we propose to minimise these effects, as well as how we propose to maximise the benefits of the Project;**
5. a draft Masterplan for Manston Airport;
6. Manston Airport - a Regional and National Asset, Volumes I-IV; an analysis of air freight capacity limitations and constraints in the South East and Manston's ability to address these and provide for future growth;
7. an Outline Business Case;
8. a Statement of Community Consultation;
9. a Location Plan; and
10. an Interim Consultation Report, setting out the details of the first stage of consultation and how feedback received has been used to help develop the proposals.

1.4 This Preliminary Environmental Information Report has been prepared pursuant to the Infrastructure Planning (Environmental Impact Assessment) Regulations 2009, as amended.

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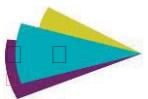
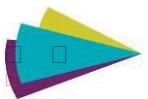


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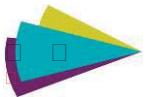
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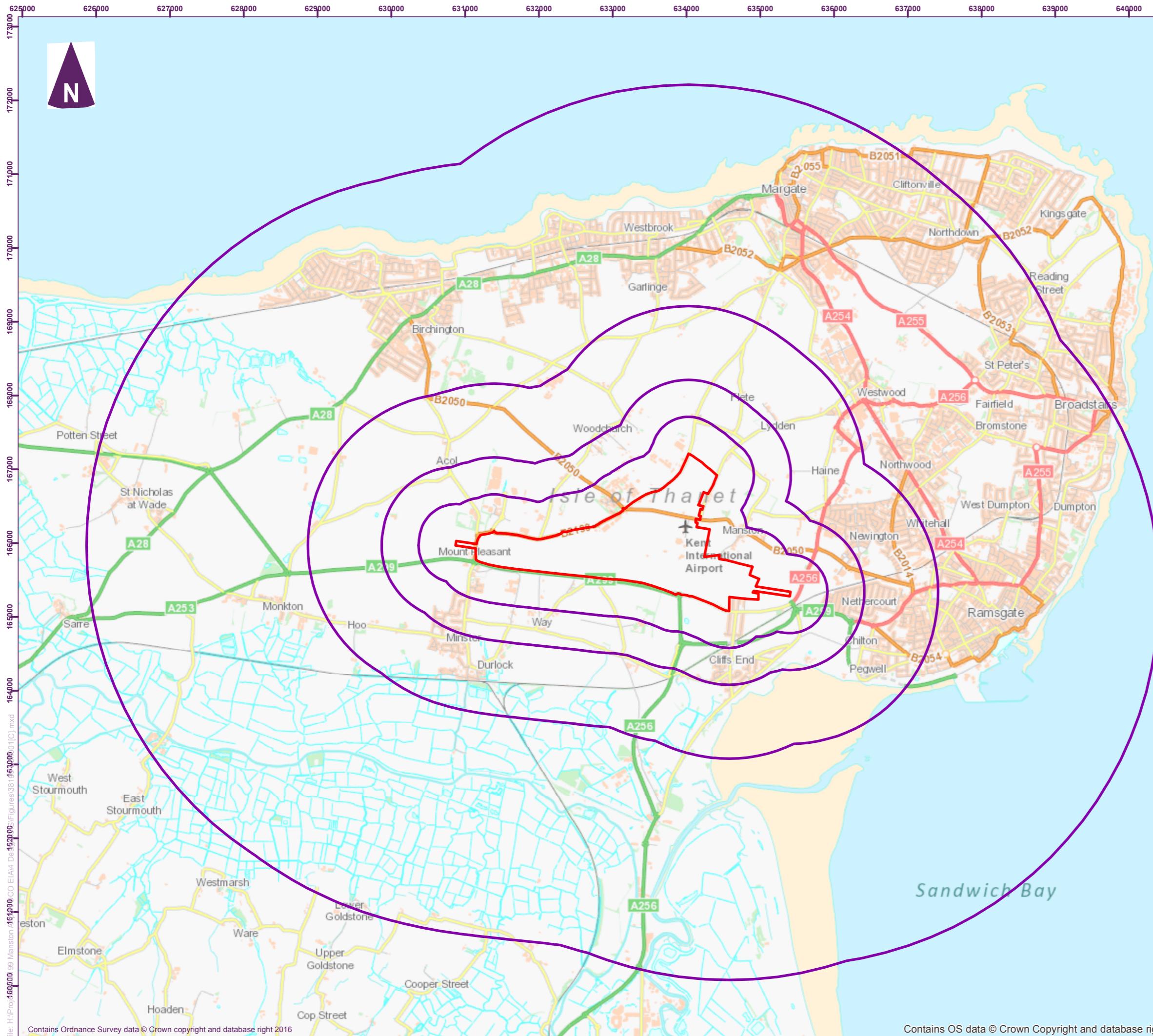
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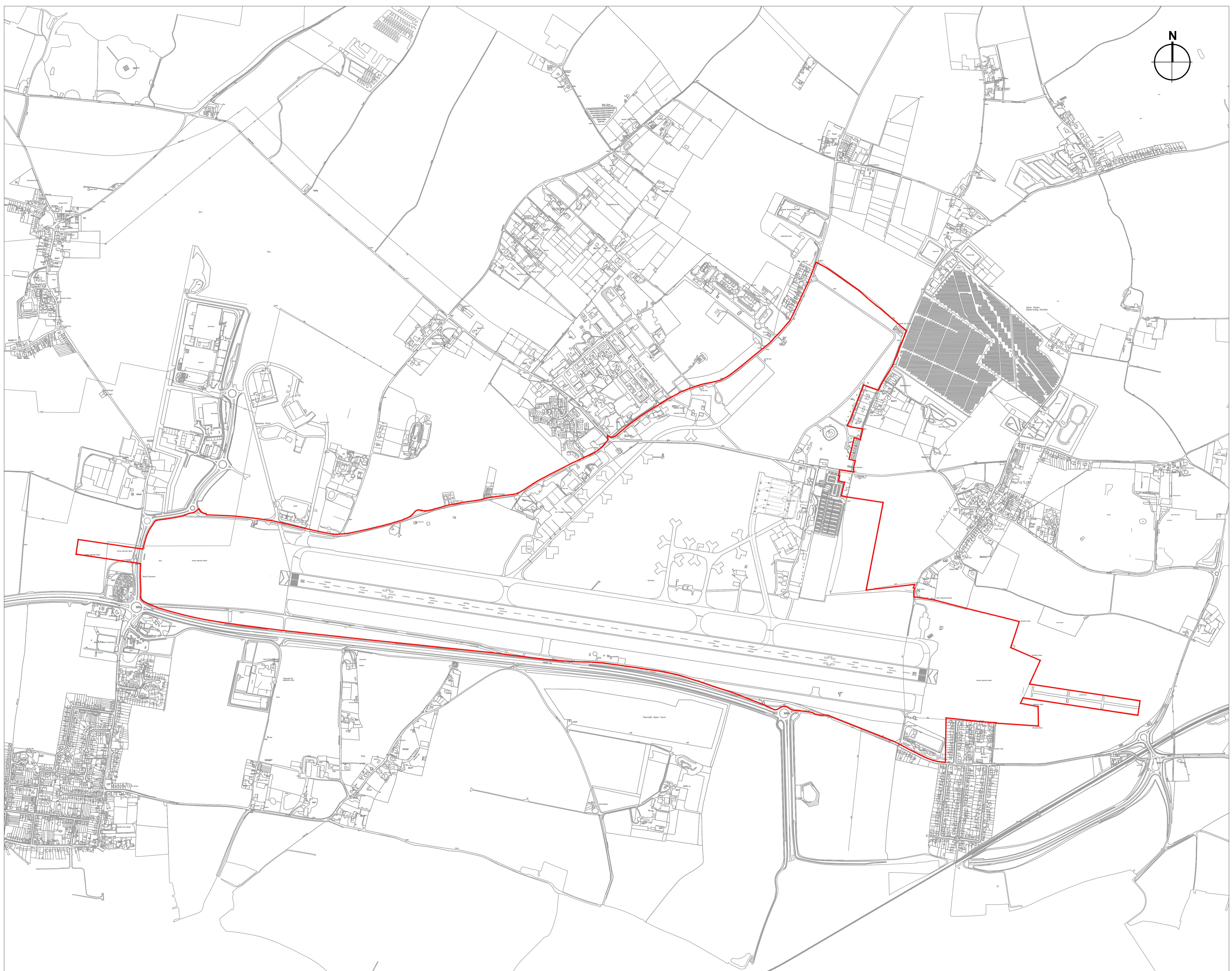
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Key

DCO Application Boundary



P06	Boundary line updated.	TAW	CJ	11.05.17
P05	Figure Number Added	TAW	CJ	28.04.17
P04	RSP logo updated.	TAW	JLE	24.03.17
P03	Boundary changed to include proposed junction improvements, North pointer and title change.	KH	CJ	22.06.16
P02	Boundary extended to include area of land for future junction improvement and Manston Road (B2050), Manston Road (North of museum) and Manston Court Road	RS	CJ	15.06.16
P01	First Issue.	KH	JLE	24.03.16
Rev	Description	By	Ckd	Date

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Project Manston Airport Masterplan

Title Site Location Plan

Status	Scale	Date Created
Preliminary	1:7500 @A1	24.03.2016
Project Leader	Drawn By	Checked by
GD	CJ	JLE

Document Number	Revision	Suitability
NK018417 - RPS-MSE-X-DR-C-0115	P06	SO
Project Number	Organise - Zone - Level - Type - Role - Drawing Number	

Figure Number 3.1

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100m
SCALE 1:7500

P03	North point added, annotation amended and title block updated	TAW	CJ	11.05.17
P02	Figure Number Added	TAW	CJ	28.04.17
P01	First Issue.	JHB	JLE	22.03.16
Rev	Description	By	Ckd	Date

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Project Manston Airport Masterplan

Title Existing Site Facilities

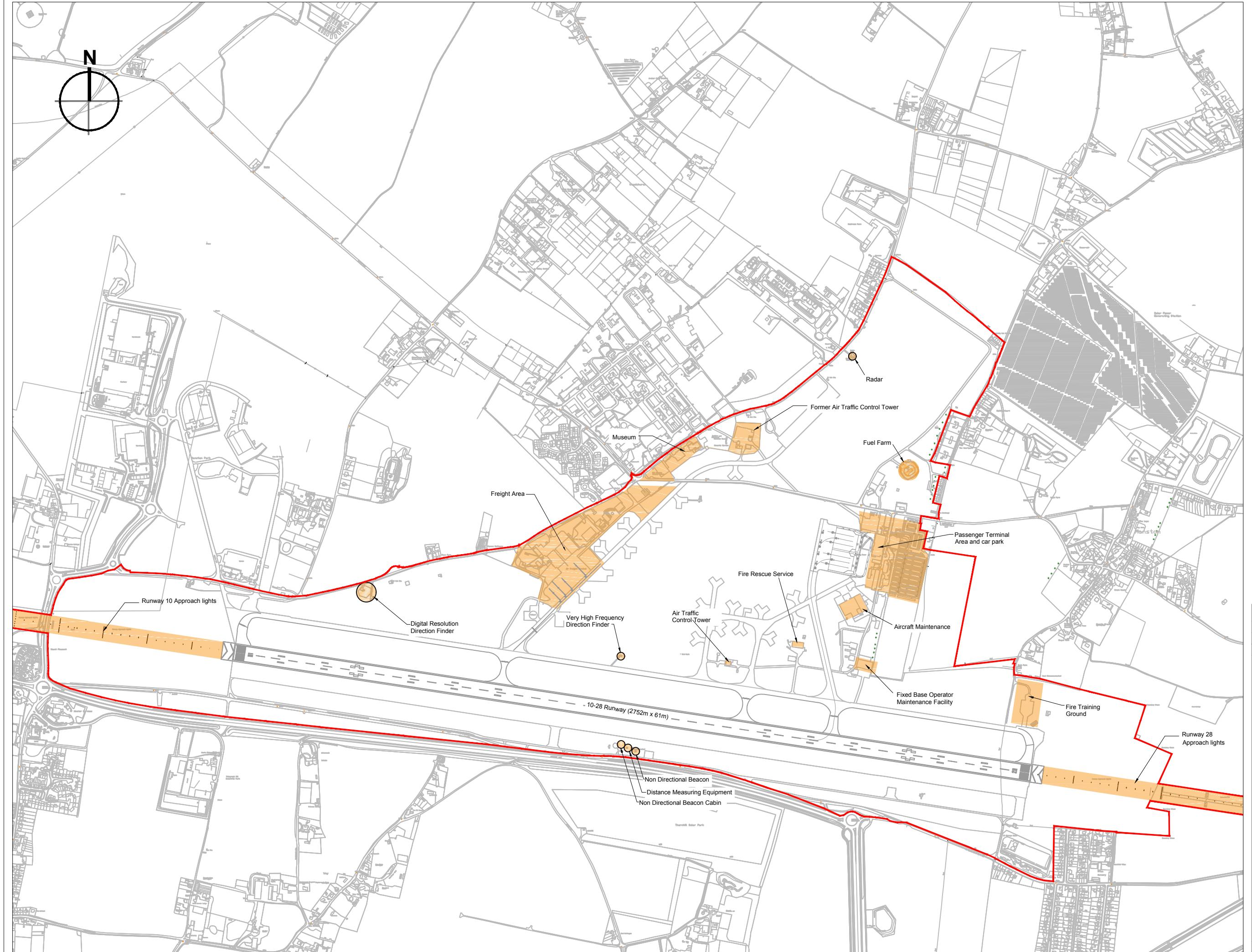
Status Preliminary	Scale 6,000 @A1	Date Created 22/03/2016
Project Leader GD	Drawn By JHB	Checked by GD

Document Number NK018417 - RPS-MSE-X-DR-C-0110 Revision S0

Project Number Project - Zone - Level - Type - Ref ID - Drawing Number

Figure Number 3.2

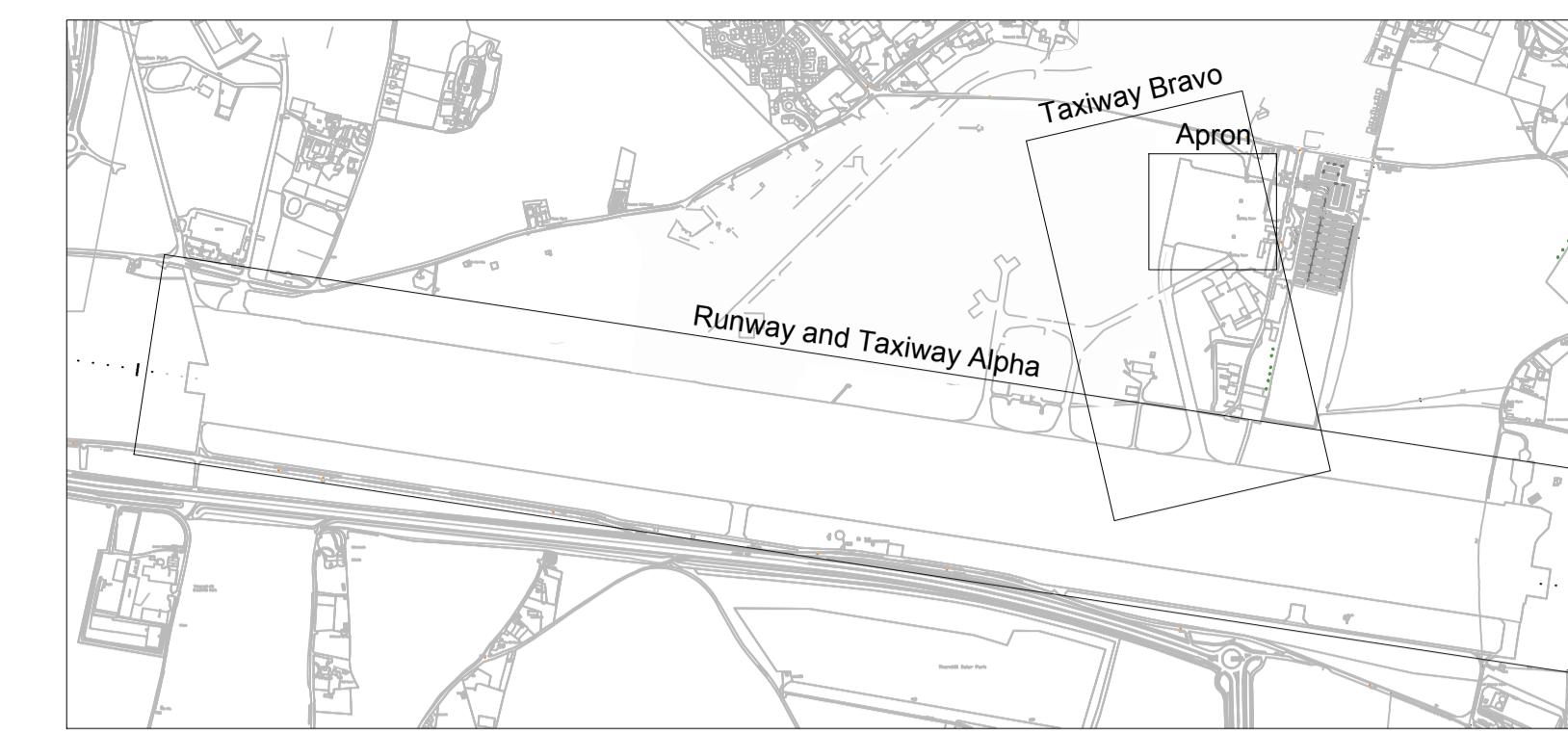
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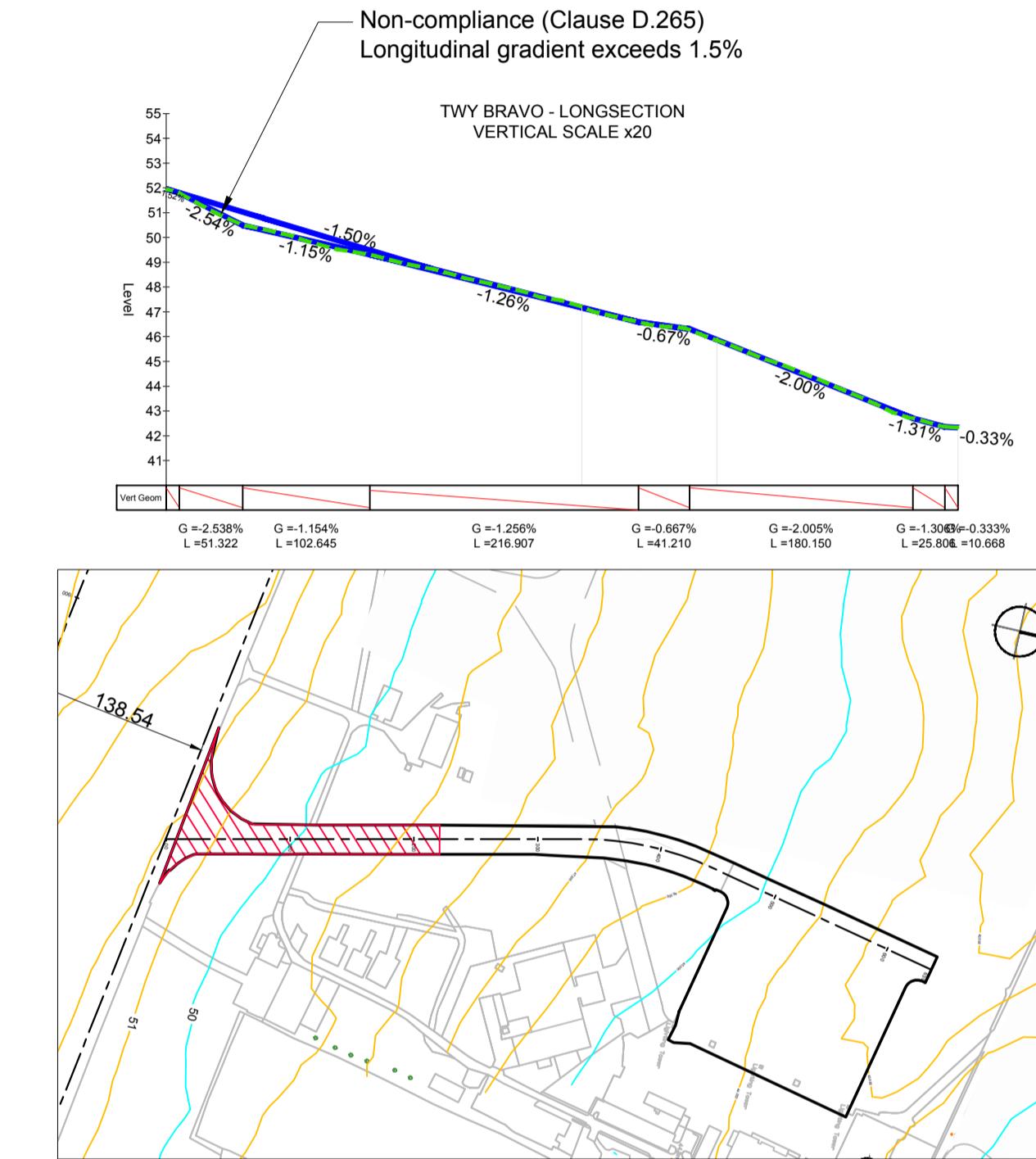


Passenger Terminal Apron - Non-compliance (clause E-360)
 On an aircraft stand, the maximum slope should not exceed 1% in any direction

Scale 1:1000



Key Plan
NTS



Taxiway Bravo

Scale 1:5000

EASA Document CS-ADR-DSN: Issue 3 December 2016

The precision of the survey does not allow an exhaustive check of EASA compliance. However, some aspects can be highlighted.

The clauses of the Document CS-ADR-DSN checked are the following:

Runway 10/28 (Code Letter E)

CS-ADR-DSN.B.060 Longitudinal slopes of runways:
 Not to exceed gradient 1.25% (0.80% in first and last quarter).

CS-ADR-DSN.B.065 Longitudinal slopes changes on runways:
 Minimum radius of curvature 30,000m.

CS-ADR-DSN.B.185 Transverse slopes on runway strip:
 Not to exceed 2.50% on the strip portion to be graded.

Taxiway Alpha (Code Letter E)

CS-ADR-DSN.D.260 Taxiway minimum separation distance:
 Between taxiway and runway centerline: 182.5m

Taxiway Bravo (Code Letter E)

CS-ADR-DSN.D.265 Longitudinal slope on taxiways:
 Not to exceed gradient 1.50%

Passenger Terminal Apron (Code Letter E)

CS-ADR-DSN.E.360 Slopes on aprons:
 On an aircraft stand the maximum slope should not exceed 1% in any direction.

P02	Figure Number Added	TAW	CJ	28.04.17
P01	First Issue.	-	-	-
Rev	Description	By	Ckd	Date

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Project Manston Airport Masterplan

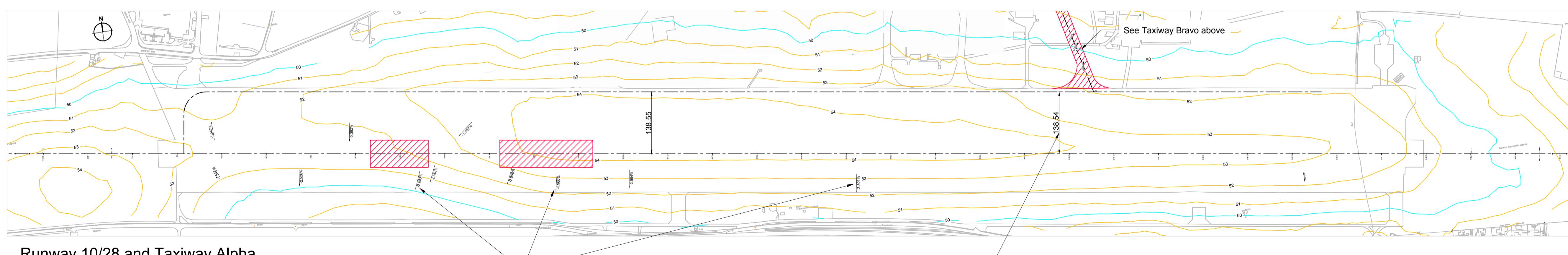
Title Existing Layout in the context of
 EASA Requirements

Status Preliminary Scale AS Shown @ A1 Date Created 11/04/2016
 Project Leader GD Drawn By JLE Checked by GD

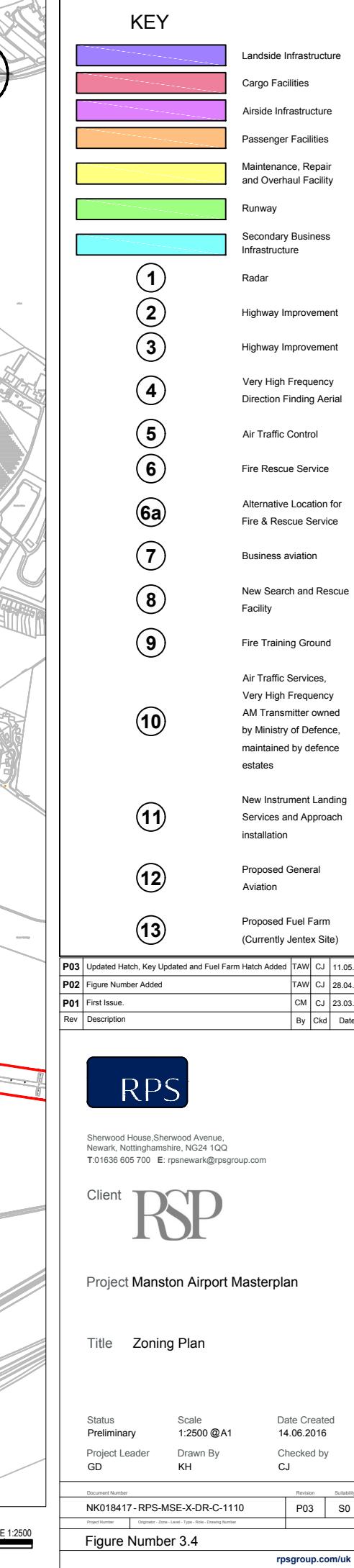
Document Number NKO18417 - RPS-MSE-X-DR-C-1510 Revision P02 Suitability SO
 Project Number Originator Zone Level Type Role Drawing Number

Figure Number 3.3

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- This drawing should be read in conjunction with all other relevant drawings and specifications.



Legend

- Site boundary
- New airfield infrastructure
- Drainage infrastructure
- Museum area
- Existing airfield assets to be retained
- Existing pavement (Potential to breakout & re-use as fill material)
- Proposed ATC tower
- ATC CCTV point

P04	Notes and Legend Updated	TAW	CJ	11.05.17
P03	Figure Number Added	TAW	CJ	28.04.17
P02	Minor amendments to general arrangement.	CM	CJ	08.03.17
P01	First Issue.	BJPF	CJ	20.02.17
Rev	Description	By	Ckd	Date

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Project Manston Airport Masterplan

Title Site Layout Plan

Status Preliminary	Scale 1:7500 @A1	Date Created 03/06/2016
Project Leader GD	Drawn By JLE	Checked by GD

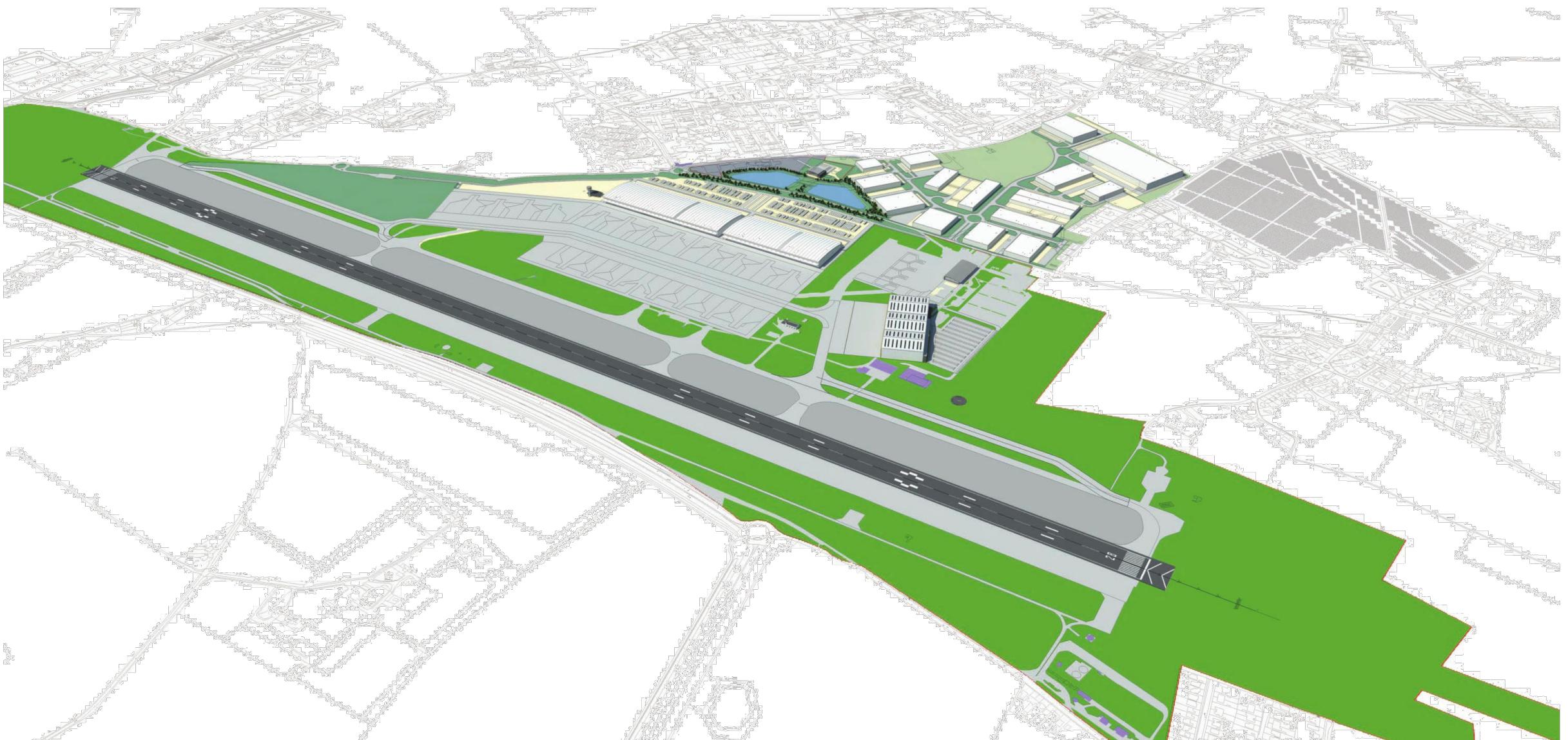
Document Number NK018417 - RPS-MSE-XX-DR-C-1100 Revision S0

Project Number Project - Zone - Level - Type - Ref ID - Drawing Number

Figure Number 3.5

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Indicative General View
Scale NTS

P02	Northern building added.	TAW	JLE	10.05.17
P01	First Issue.	AAG	JLE	03.05.17
Rev	Description	By	Ckd	Date

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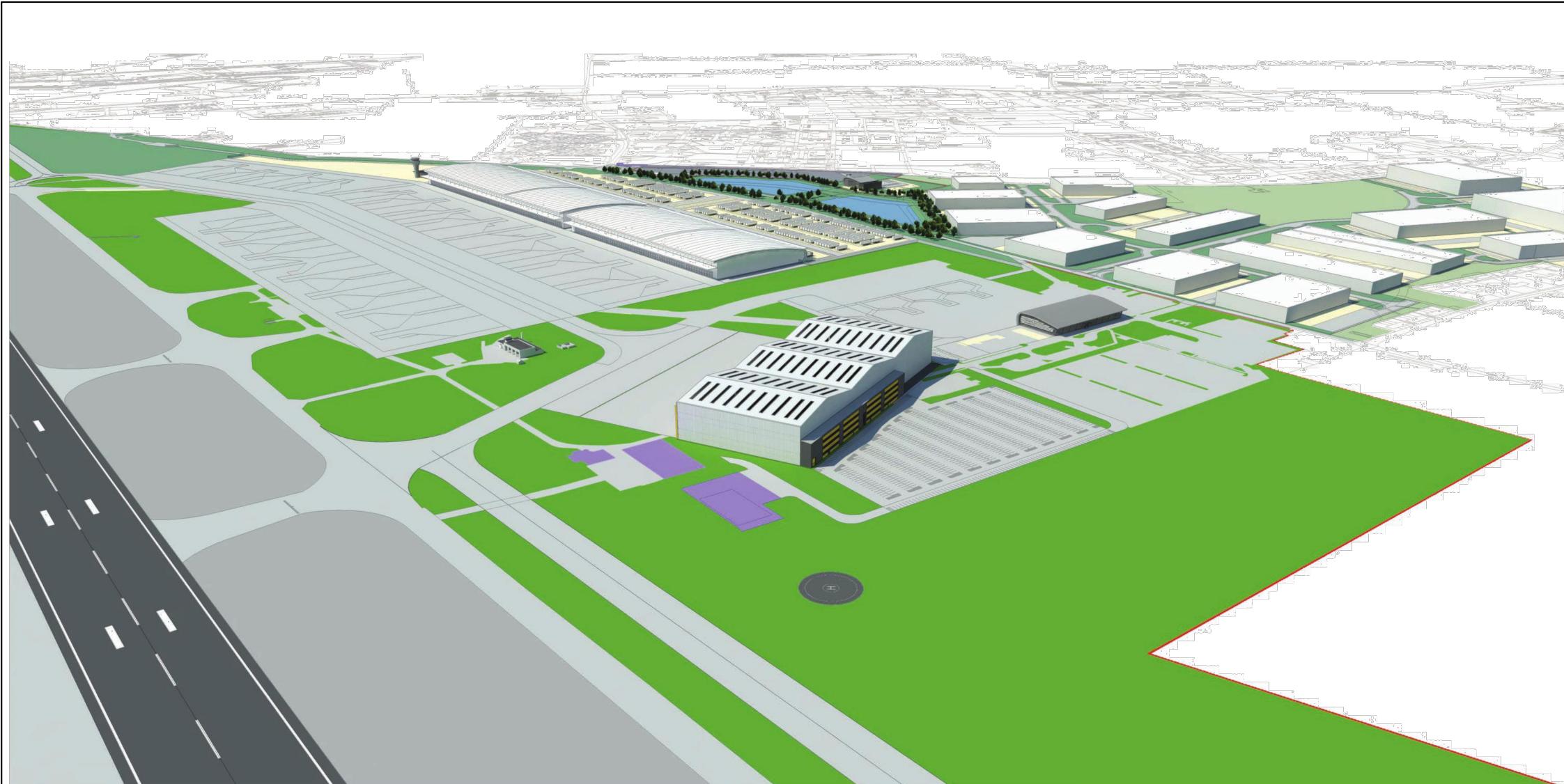
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Project Manston Airport Masterplan

Title Indicative Visuals of the
Proposed Development

Status	Scale	Date Created
Preliminary	NTS @A1	26.04.17
Project Leader	Drawn By	Checked by
GDD	AE	CJ
Document Number	Revision	Stability
NK018417 - RPS-MSE-X-DR-C-1120	P02	S0
Project Number	Designate Zone Level Type Role Drawing Number	
Figure Number 3.6		
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P02	Northern buildings added	TAW	JLE	10.05.17
P01	First Issue.	AAG	JLE	03.5.17
Rev	Description	By	Ckd	Date

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Project Manston Airport Masterplan

Title Indicative Visuals of the
 Proposed Development

Status	Scale	Date Created
Preliminary	NTS @A1	26.04.17
Project Leader	Drawn By	Checked by
GDD	AE	CJ
Document Number	Revision	Stability
NK018417 - RPS-MSE-X-DR-C-1121	P02	S0
Project Number	Designate Zone Level Type Role Drawing Number	
Figure Number 3.7		
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P02	Northern building added	TAW	JLE	10.05.17
P01	First Issue.	AAG	JLE	03.05.17
Rev	Description	By	Ckd	Date

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Project Manston Airport Masterplan

Title Indicative Visuals of the Proposed Development

Status	Scale	Date Created	
Preliminary	NTS @A1	26.04.17	
Project Leader		Drawn By	Checked by
GDD	AE	CJ	
Document Number			Revision
NK018417 - RPS-MSE-X-DR-C-1122			P02 S0
Project Number			Design Zone Level Type Role Drawing Number
Figure Number 3.8			rpsgroup.com/uk



P02	Northern building added	TAW	JLE	10.05.17
P01	First Issue.	AAG	JLE	03.05.17
Rev	Description	By	Ckd	Date

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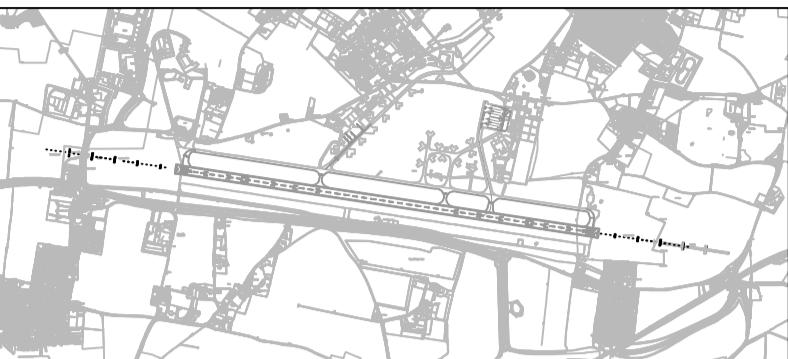
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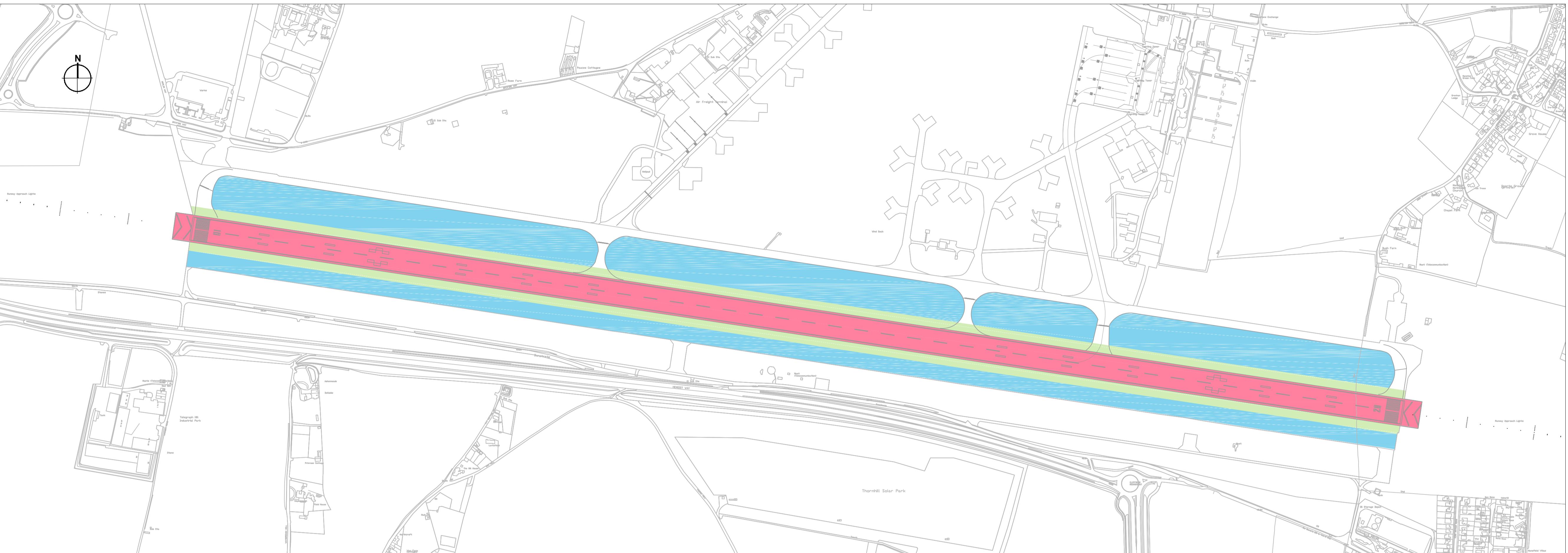
Project **Manston Airport Masterplan**

Title **Indicative Visuals of the Proposed Development**

Status	Scale	Date Created
Preliminary	NTS @A1	26.04.17
Project Leader	Drawn By	Checked by
GDD	AE	CJ
Document Number	Revision	Suitability
NK018417 - RPS-MSE-X-DR-C-1123	P02	S0
Project Number	Designate Zone Level Type Role Drawing Number	
Figure Number 3.9		
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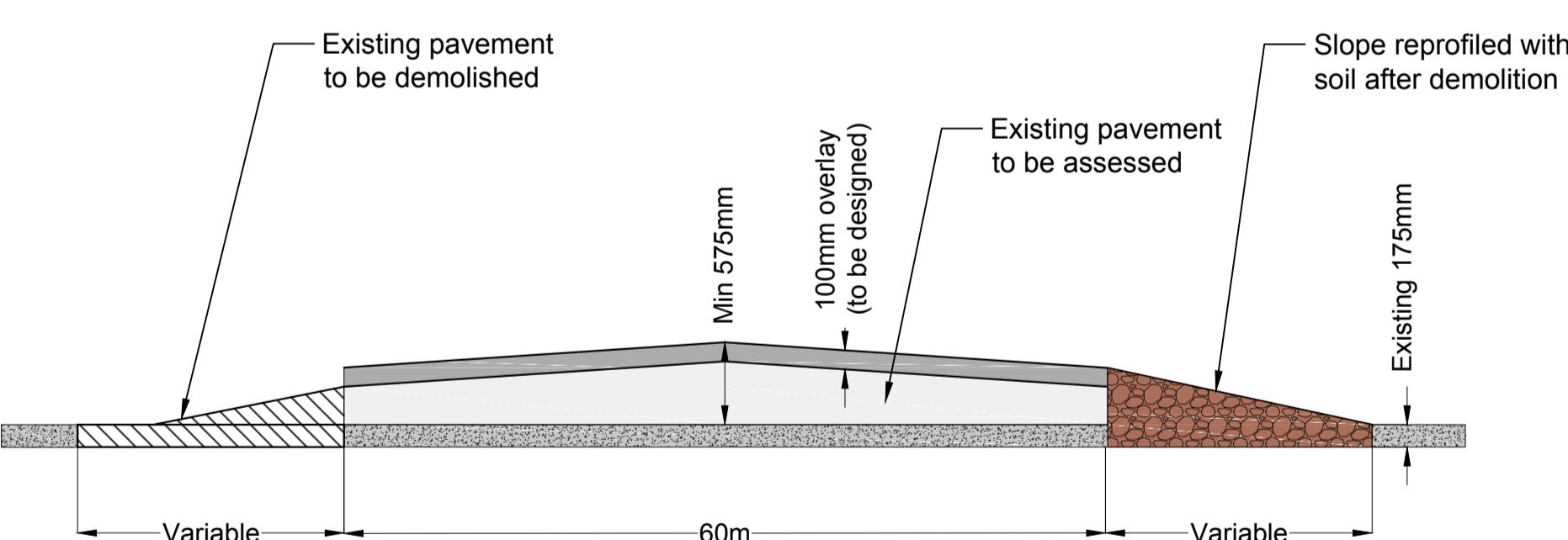
Key Plan
Scale 1:50,000



Pavement Types Plan

Scale 1:5000

Legend		
	Proposed Runway overlay	
	Regarding of pavement edges	
	Existing Concrete Pavement	



Legend	
	Existing Concrete pavement
	Existing Asphalt Pavement
	Proposed Demolition
	Proposed New Pavement / Overlay
	Fill material

Pavement typical section

Scale 1:5000

P02	Figure Number Added	TAW	CJ	28.04.17
P01	First Issue.	-	-	-
Rev	Description	By	Ckd	Date

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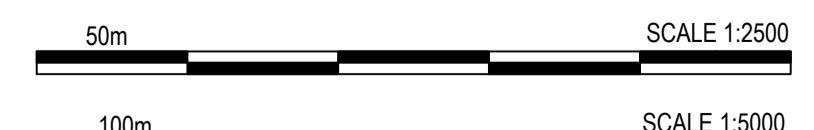
Title Runway Pavement Improvement

Status Preliminary	Scale As Shown	DATE Created @A1 03.06.2016
Project Leader GD	Drawn By KH	Checked by JLE

Document Number NK018417 - RPS-MSE-X-DR-C-1500	Revision S0
Project Number	Organizer Zone Level Type Role Drawing Number

Figure Number 3.10

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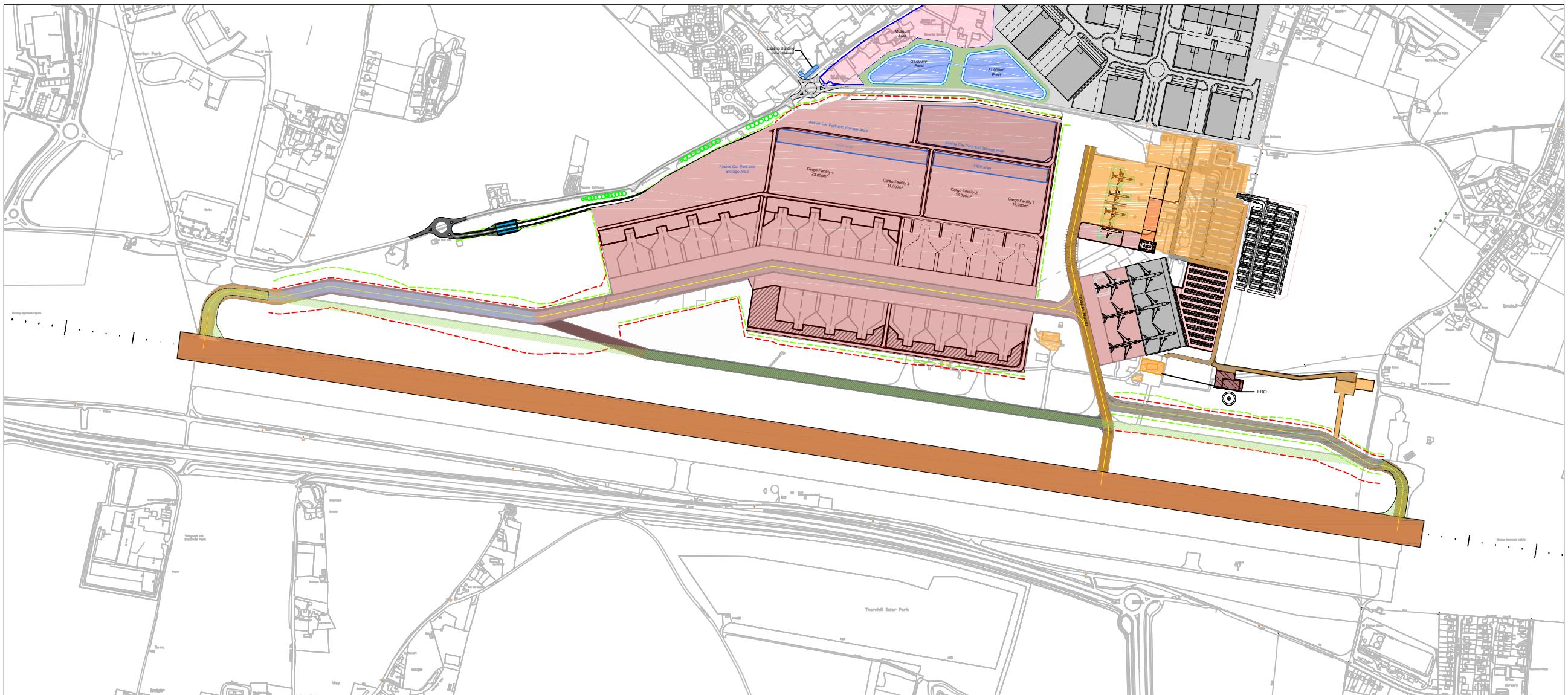




Note:
 Separation between Runway and Taxiway Alpha is currently 138.50m, with Taxiway inside the Runway Strip.
 According to the EASA specification, only Code B aircrafts can operate on both Runway and Taxiway at the same time. This is due to the separation distance between them.
 For improving to Code E aircraft, separation between Runway and Taxiway shall be no less than 182.5m.

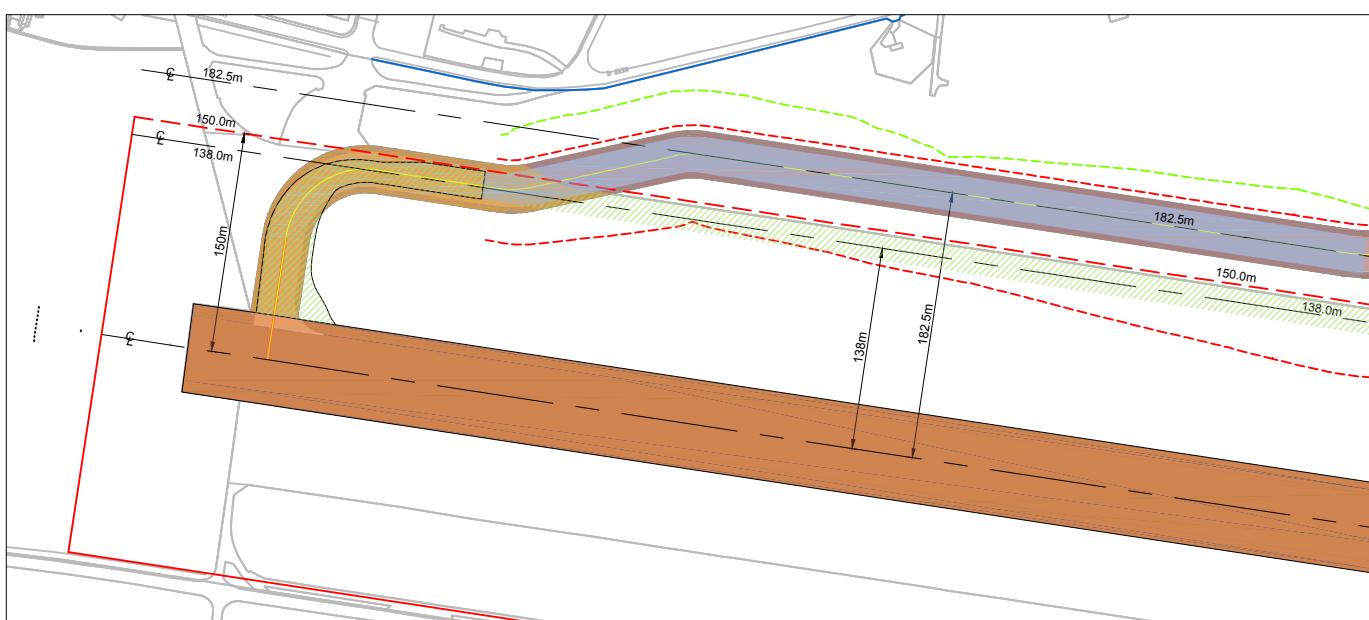
Legend

- Runway 10/28
- Current Taxiway Alpha
- Proposed Displaced Taxiway Alpha
- Runway Strip
- Proposed Airfield infrastructure development



Plan

Scale 1:5000



Detail A

Scale 1:2500

Code letter	Distance between taxiway centre line and runway centre line (metres)								Taxiway centre line to taxiway centre line (metres)	Taxiway, other than aircraft stand taxilane, centre line to object (metres)	Aircraft stand taxilane centre line to aircraft stand taxilane centre line (metres)	Aircraft stand taxilane centre line to object (metres)		
	Instrument runways				Non-instrument runways									
	Code number	1	2	3	4	Code number	1	2	3	4				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)		
A	82.5	82.5	—	—	37.5	47.5	—	—	23	15.5	19.5	12		
B	87	87	—	—	42	52	—	—	32	20	28.5	16.5		
C	—	—	168	—	—	—	93	—	44	26	40.5	22.5		
D	—	—	176	176	—	—	101	101	63	37	59.5	33.5		
E	—	—	—	182.5	—	—	—	107.5	76	43.5	72.5	40		
F	—	—	—	190	—	—	—	115	91	51	87.5	47.5		

Note 1.— The separation distances shown in columns (2) to (9) represent ordinary combinations of runways and taxiways.

Note 2.— The distances in columns (2) to (9) do not guarantee sufficient clearance behind a holding aeroplane to permit the passing of another aeroplane on a parallel taxiway.

EASA Document: Certification Specification For Aerodromes
 Clause CS.ADR-DSN.D.260



P02	Figure Number Added	TAW	CJ	28.04.17
P01	First Issue.	-	-	-
Rev	Description	By	Ckd	Date

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Project Manston Airport Masterplan

Title Runway-Taxiway Alpha Interference

Status Preliminary Scale As Shown @A1 Date Created 31/05/2016
 Project Leader Drawn By RS Checked by JLE

Document Number NK018417 - RPS-MSE-X-DR-C-1511 Revision S0
 Project Number P02

Figure Number 3.11 Drawing Number

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Note:
 Isopachytes illustrate the difference between the proposed level and the Transitional Obstacle Limitation Surface (OLS).
 Therefore the values represent the height available for any facilities (safeguarding with the OLS).

SURFACE LEVEL DATA			
NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
1	0.00	10.00	■
2	10.00	20.00	■
3	20.00	30.00	■
4	30.00	40.00	■
5	40.00	50.00	■
6	50.00	60.00	■
7	60.00	70.00	■

P02	Figure Number Added	-	JLE	04.05.17
P01	First Issue.	-	JLE	CJ 24.02.17
Rev	Description	-	By	Ckd Date

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Project Manston Airport Masterplan

Title Obstacle limitation surface (OLS)
 requirements (Cargo Area)

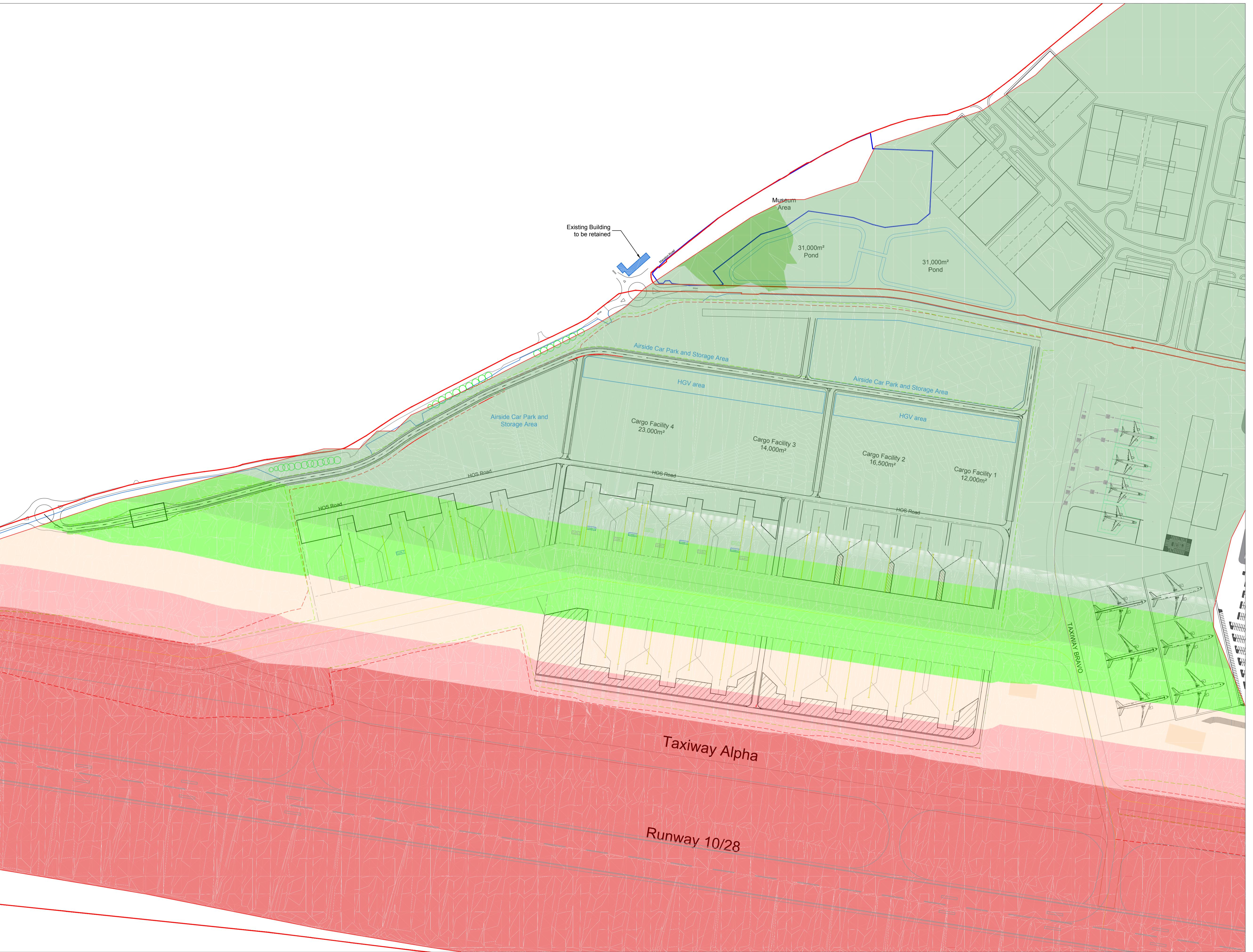
Status	Scale	Date Created
Preliminary	Shown @A1	24/02/2017
Project Leader	Drawn By	Checked by
GDD	RS	JLE

Document Number Revision Suitability
 NK018417 - RPS-MSE-XX-DR-C-1921 P02 SO

Project Number Originator Zone Level Type Role Drawing Number

Figure Number 3.12

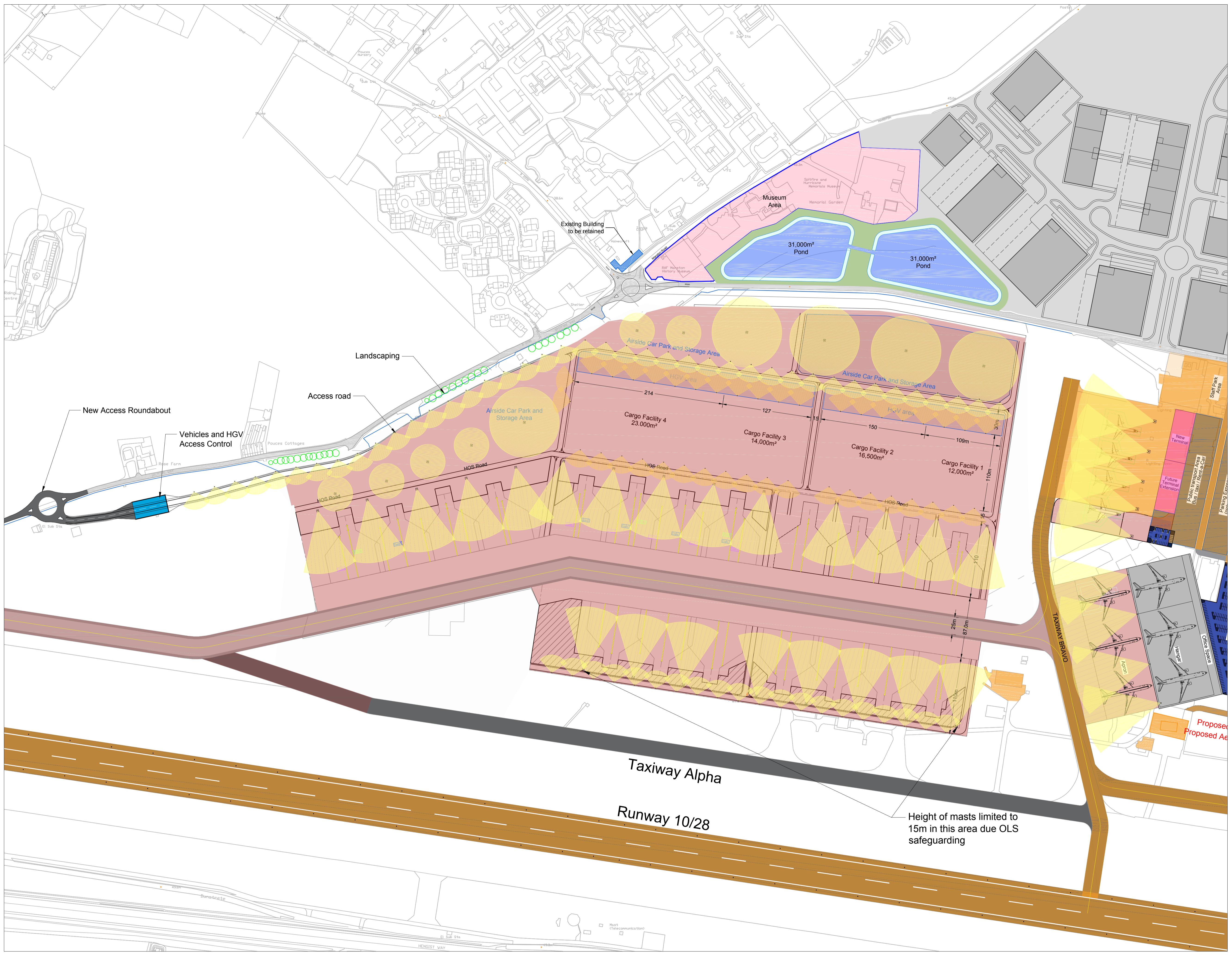
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Cargo Area. OLS Requirements Plan.
 Scale 1:2500

50m SCALE 1:2500

Figure Number 3.12



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Key

Lighting with direction show indicatively



P02	Figure Number Added	TAW	CJ	28.04
P01	First Issue.	BJPF	CJ	02.03
Rev	Description	Bv	Ckd	Date

RP

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Project Manston Airport Masterplan

Title Lighting Scheme

Status	Scale	Date Created
Preliminary	Shown @A1	24.02.17
Project Leader	Drawn By	Checked by

Document Number	Revision	Suitability
NK018417-RPS-MSE-XX-DR-C-1702	P02	S0

Project Number	Originator - Zone - Level - Type - Role - Drawing
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Legend

- New airfield infrastructure
- Drainage infrastructure
- Museum area
- Existing airfield assets to be retained
- Existing pavement (Potential to breakout & re-use as fill material)



P05	Legend Has Been Updated.	TAW	CJ	17.11.17
P04	Text Updated.	TAW	CJ	11.05.17
P03	Figure number added.	TAW	JLE	03.05.17
P02	Hatched updated. Minor amendments made.	CM	CJ	21.03.17
P01	First Issue.	BJPF	CJ	20.02.17
Rev	Description	By	Ckd	Date

RPS

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Client RSP

Project Manston Airport Masterplan

Title Cargo Area Layout Plan

Status	Scale	Date Created
Preliminary	Shown @A1	20.02.17
Project Leader GDD	Drawn By BJPF	Checked by CJ

Document Number Revision Suitability

NK018417 - RPS-MSE-XX-DR-C-1102 P05 SO

Project Number Originator Zone Level Type Role Drawing Number

Figure Number 3.14

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Legend	
	Site boundary
	New airfield infrastructure
	Drainage infrastructure
	Existing airfield assets to be retained
	Existing pavement (Potential to breakout & re-use as fill material)

P04	Legend Has Been Updated.	TAW	CJ	17.05.17
P03	Legend Updated.	TAW	CJ	11.05.17
P02	Figure Number Added	TAW	CJ	28.04.17
P01	First Issue.	BJPF	CJ	20.02.17
Rev	Description	By	Ckd	Date



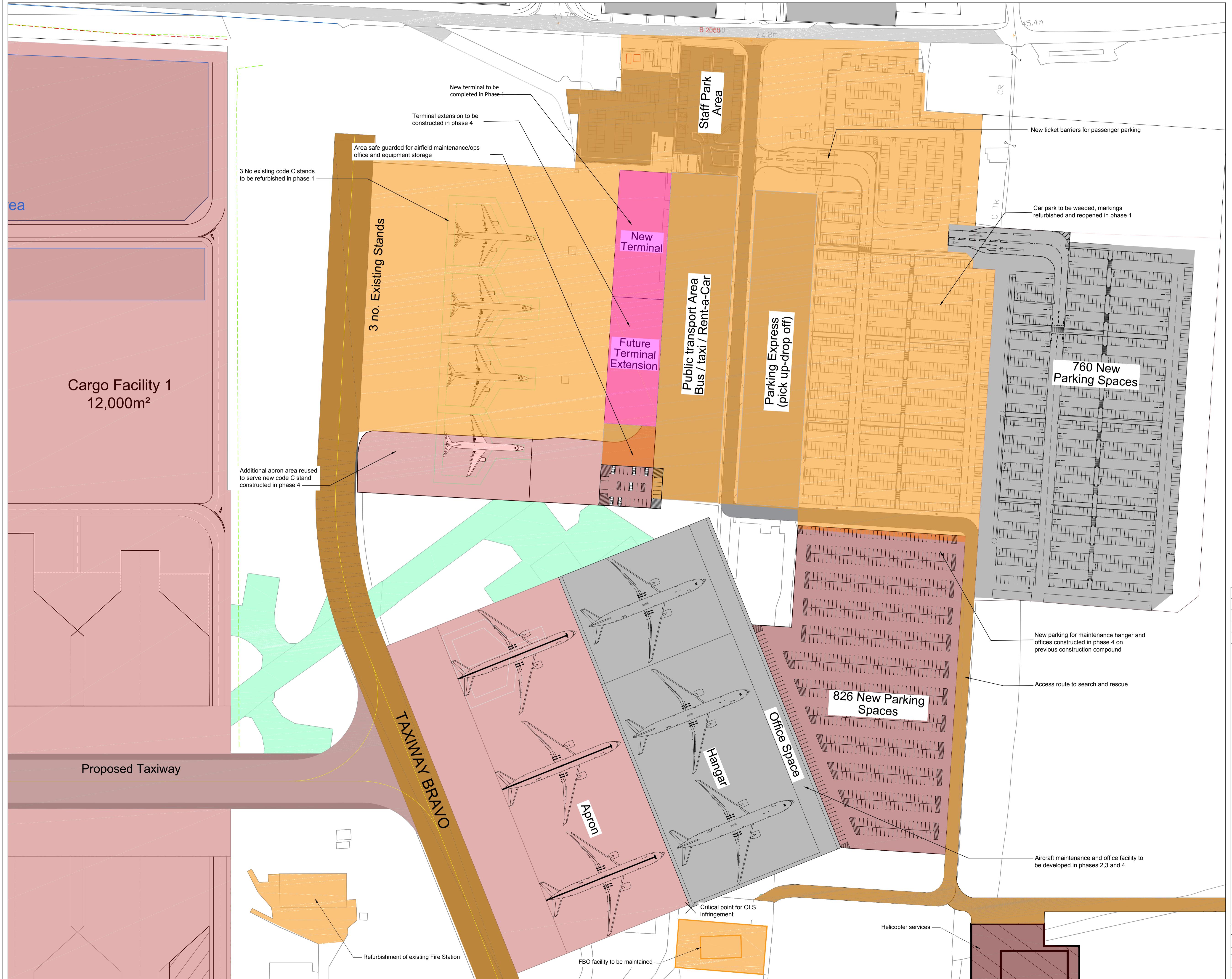
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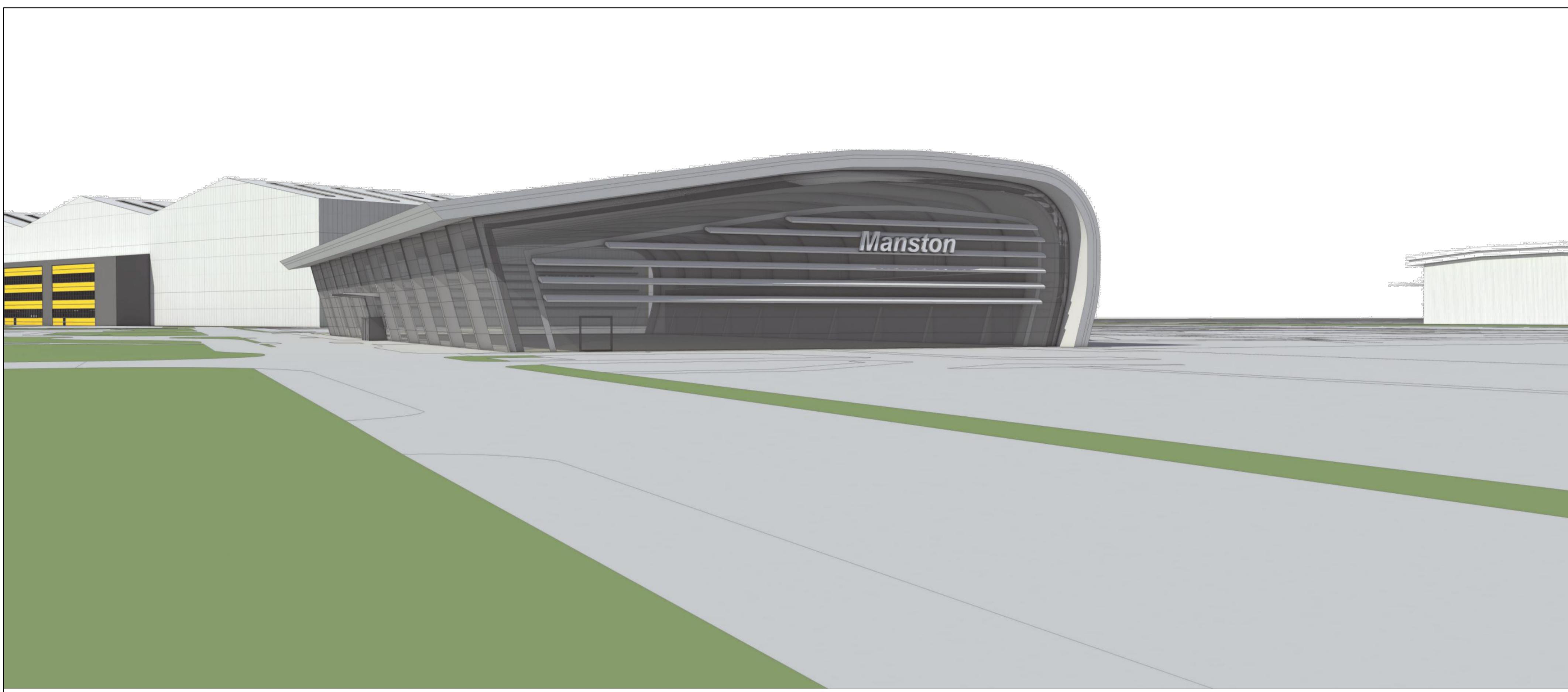
Client **RSP**

Project Manston Airport Masterplan

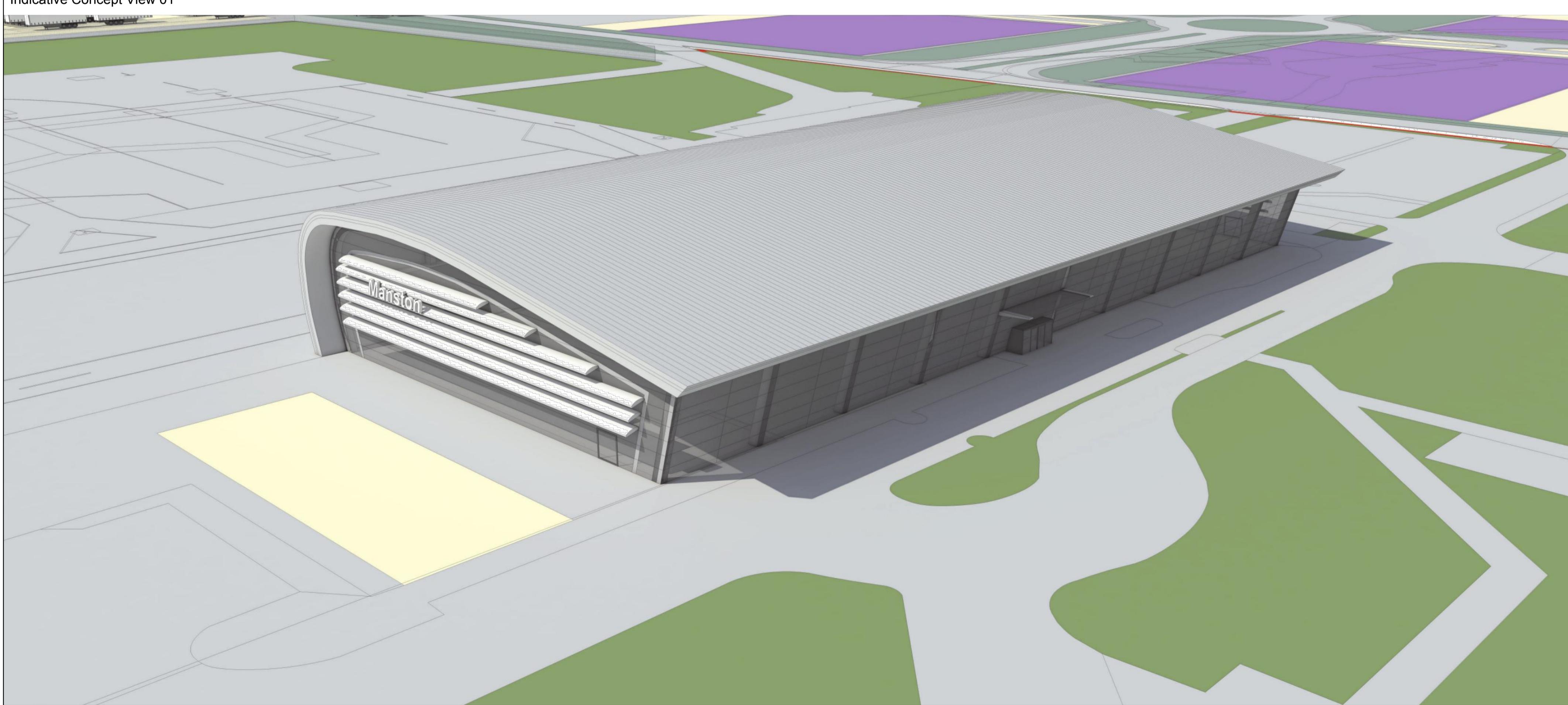
Title Passenger Area Layout Plan

Status	Scale	Date Created
Preliminary	1:1000 @A1	20.02.17
Project Leader	Drawn By	Checked by
GDD	BJPF	CJ
Document Number	Revision	Suitability
NK018417 - RPS-MSE-X-DR-C-1101	P04	SO
Project Number	Organise - Zone - Level - Type - Role - Drawing Number	
Figure Number 3.15		
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Indicative Concept View 01



Indicative Concept View 02

P01	First Issue.	AAG	JLE	03.05.17
Rev	Description	By	Ckd	Date

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Client RSP

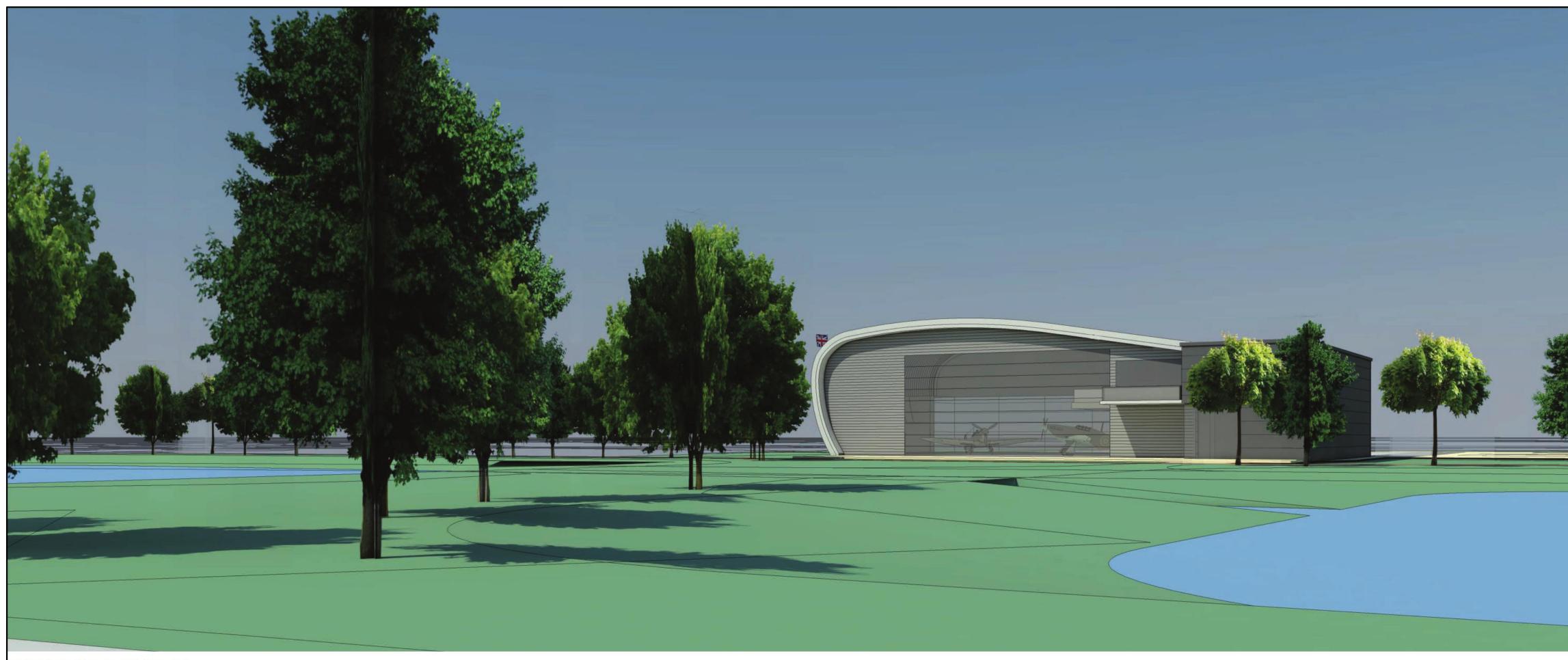
Project Manston Airport Masterplan

Title Indicative Design for the
Passenger Terminal Building

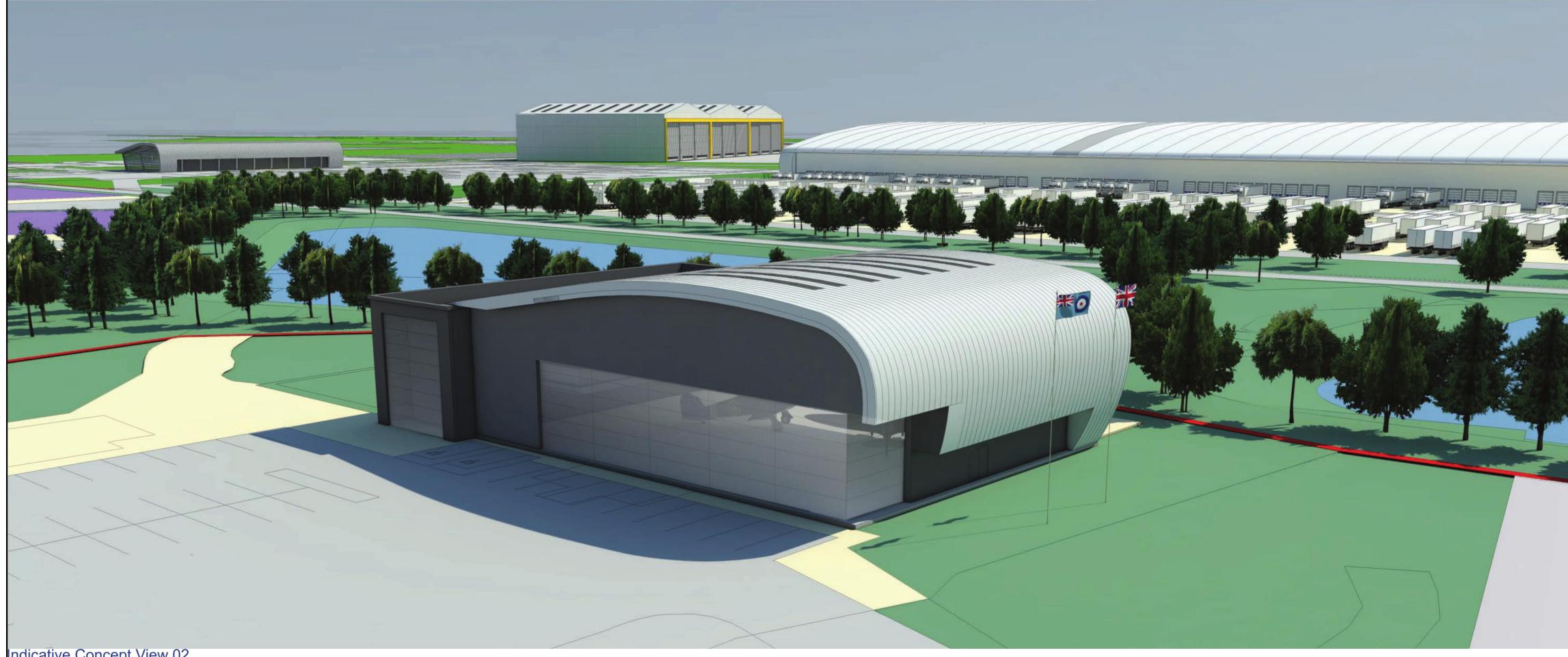
Status	Scale	Date Created
Preliminary	NTS @A1	02.05.17
Project Leader	Drawn By	Checked by
GDD	AE	CJ

Document Number	Revision	Suitability
NK018417 - RPS-MSE-X-DR-C-1126	P01	SO
Project Number	Designate Zone Level Type Role	Drawing Number

Figure Number 3.16a



Indicative Concept View 01



Indicative Concept View 02

P02	Title Updated.	TAW	CJ	11.05.17
P01	First Issue.	AAG	JLE	03.05.17
Rev	Description	By	Ckd	Date

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Client RSP

Project Manston Airport Masterplan

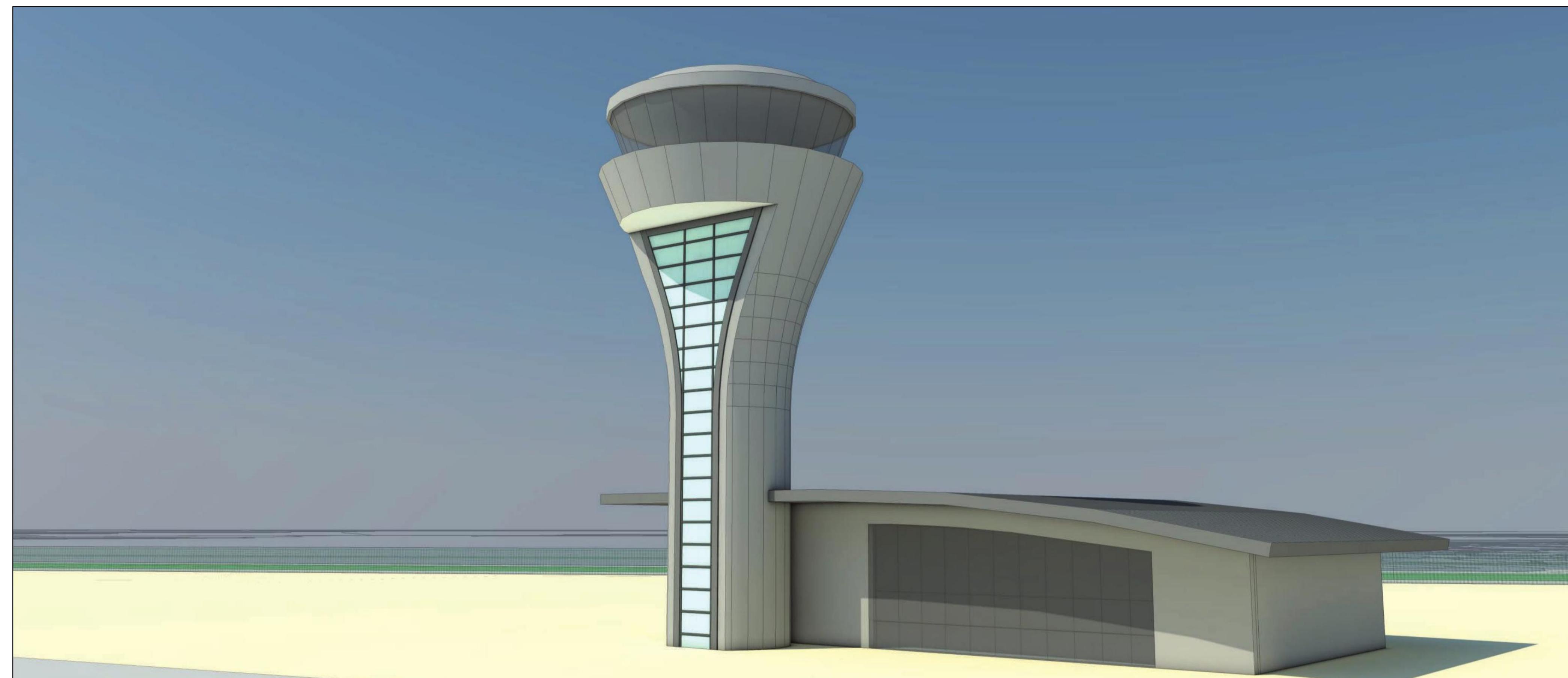
Title Indicative Visuals of the New Spitfire and Hurricane Memorial Museum Building

Status Preliminary	Scale NTS	@A1	Date Created 02.05.17
Project Leader GDD	Drawn By AE	Checked by CJ	

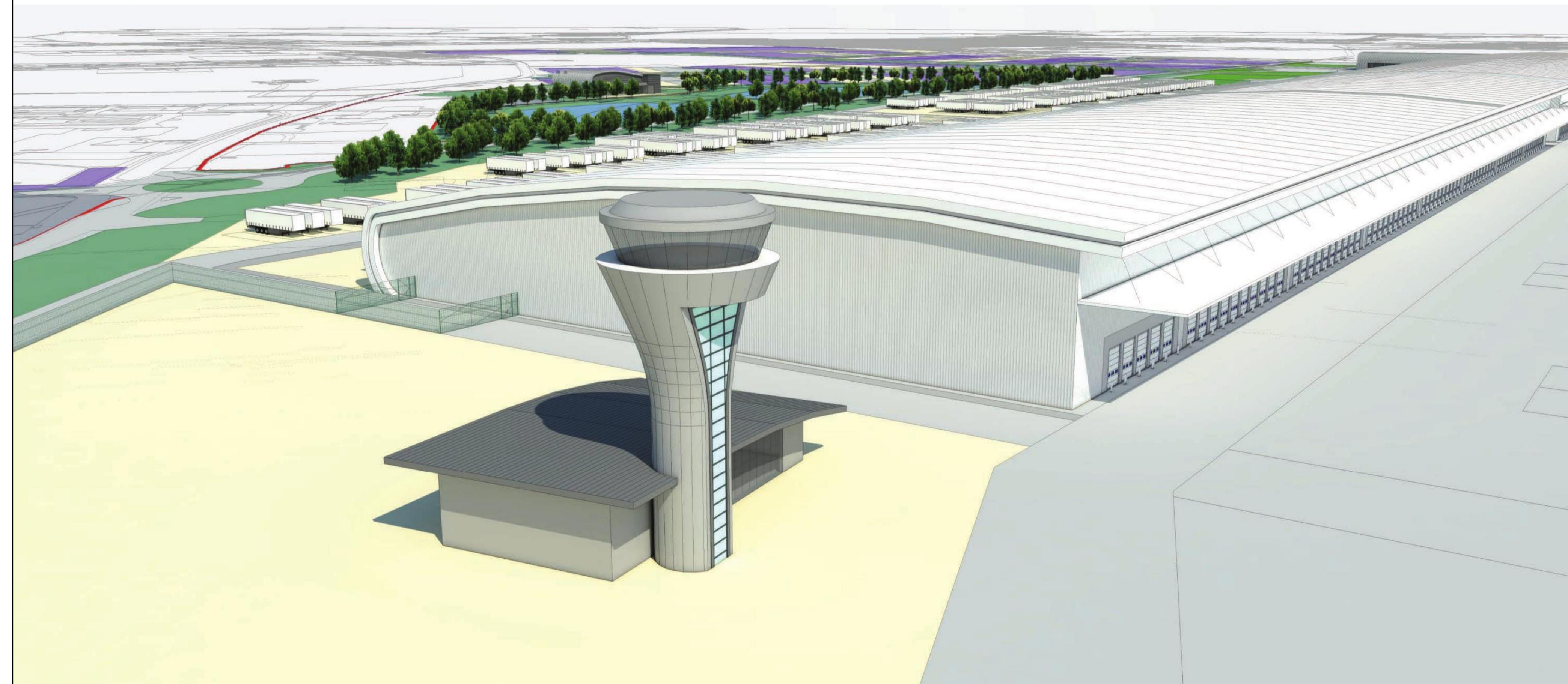
Document Number NK018417 - RPS-MSE-X-DR-C-1124	Revision S0
Project Number	Opener - Date - Time - Ref ID - Drawing Number

Figure Number 3.16b

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Indicative Concept View 01



Indicative Concept View 02

P02	Title Updated.	TAW	CJ	12.05.17
P01	First Issue.	AAG	JLE	03.05.17
Rev	Description	By	Ckd	Date

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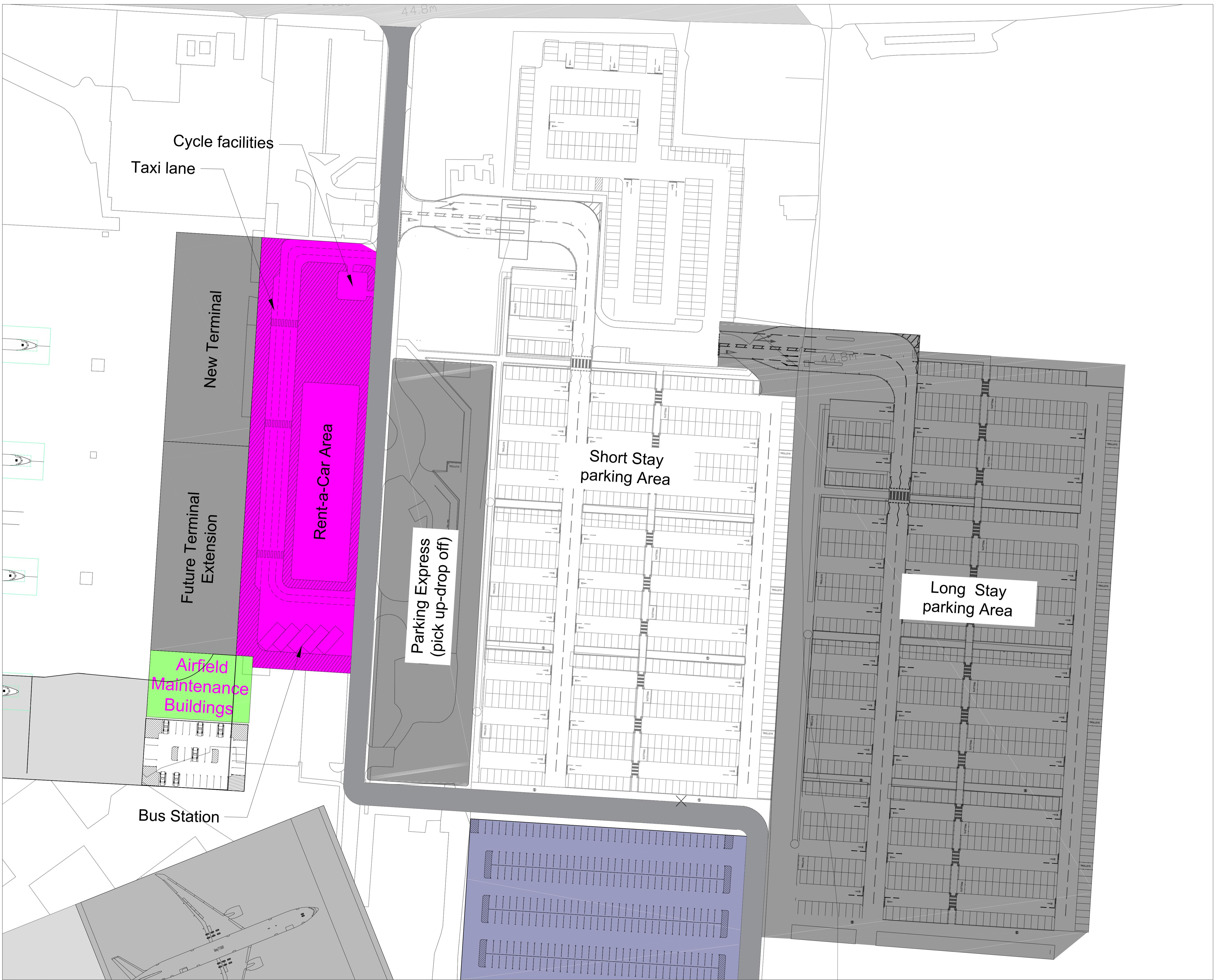
Title Indicative Visual of the
 ATC Tower

Status	Scale	Date Created
Preliminary	NTS @A1	02.05.17
Project Leader	Drawn By	Checked by
GDD	AE	CJ

Document Number	Revision	Suitability
NK018417 - RPS-MSE-X-DR-C-1125	P02	SO
Project Number	Organise Zone Level Type Role Drawing Number	

Figure Number 3.16c

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P01	First Issue.	TAW	JLE	05.05.17
Rev	Description	By	Ckd	Date

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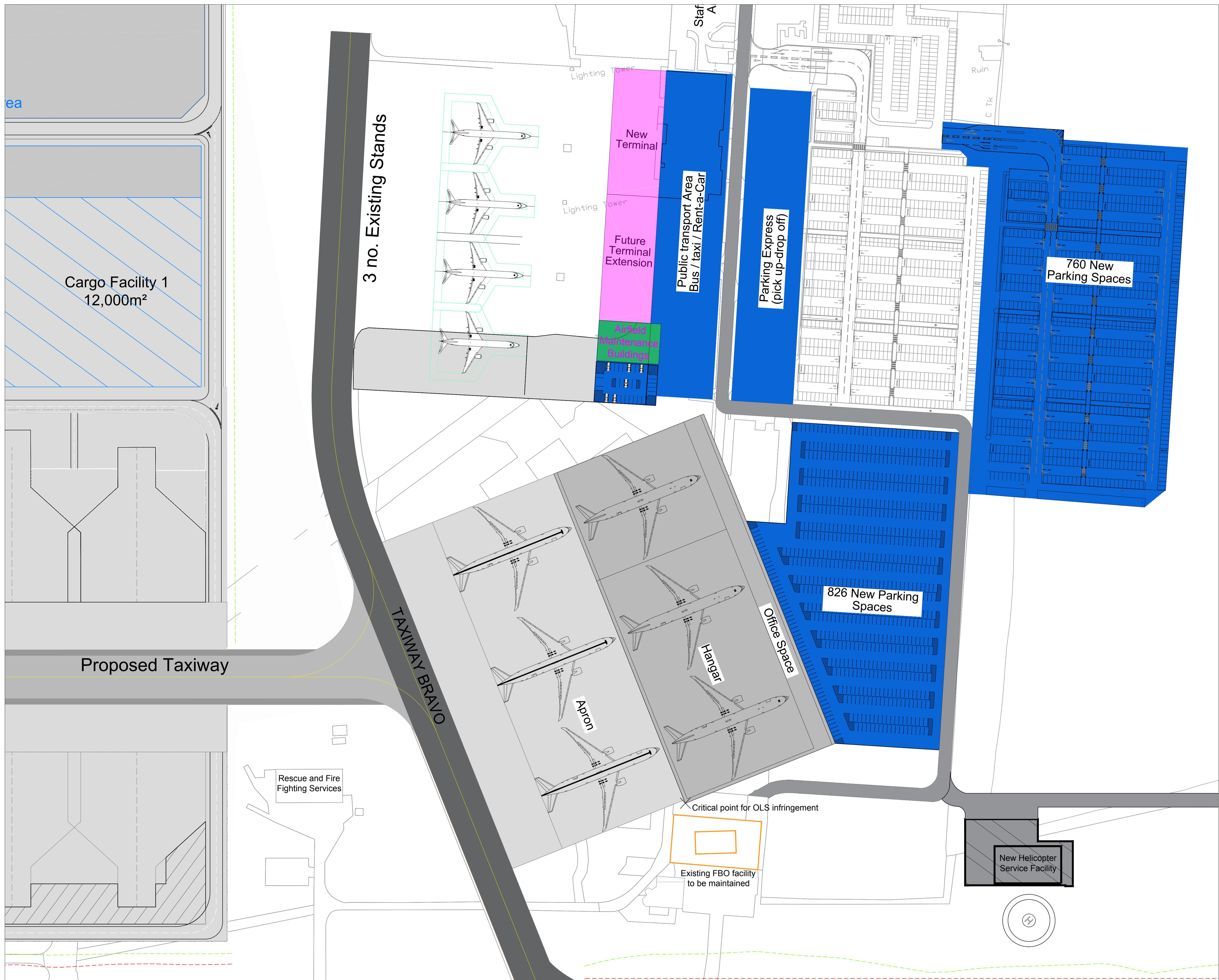
Project Manston Airport Masterplan

Title Car Parking, Public Transport
 and Cycle Facilities

Status Preliminary	Scale 1:600 @A1	Date Created 05.05.17
Project Leader GDD	Drawn By TAW	Checked by JLE

Document Number NK018417 - RPS-MSE-X-DR-C-1603	Revision S0
Project Number	Originator Zone Level Type Role Drawing Number

Figure Number 3.17



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P02	Figure Number Added	TAW	JLE	04.05
P01	First Issue.	BJPF	CJ	20.02
Rev	Description	Bv	Ckdw	Date

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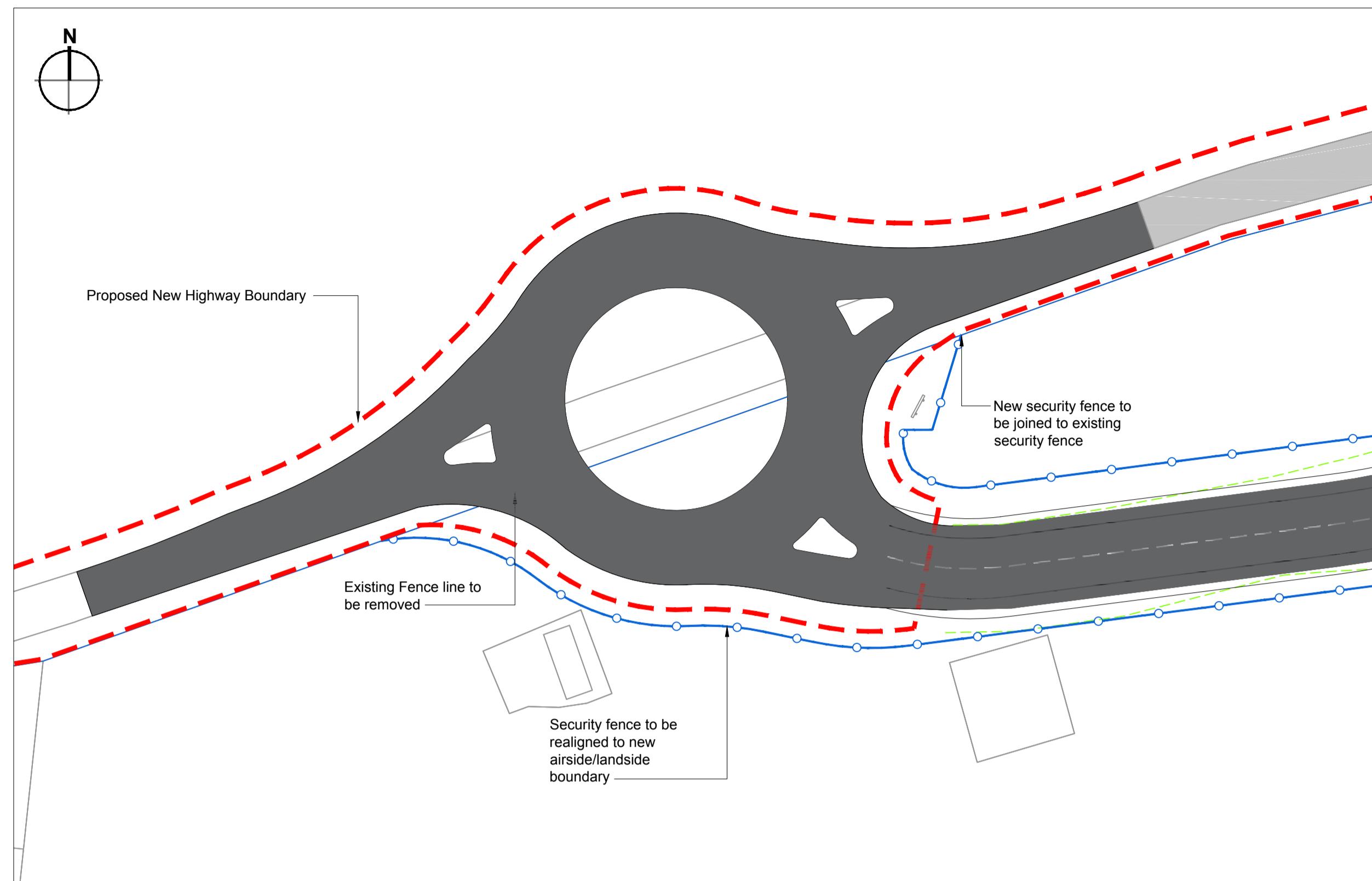
Project Manston Airport Masterplan

Title Passenger Facilities

Status	Scale	Date Created
Preliminary	1:1000 @A1	20.02.17
Project Leader	Drawn By	Checked by

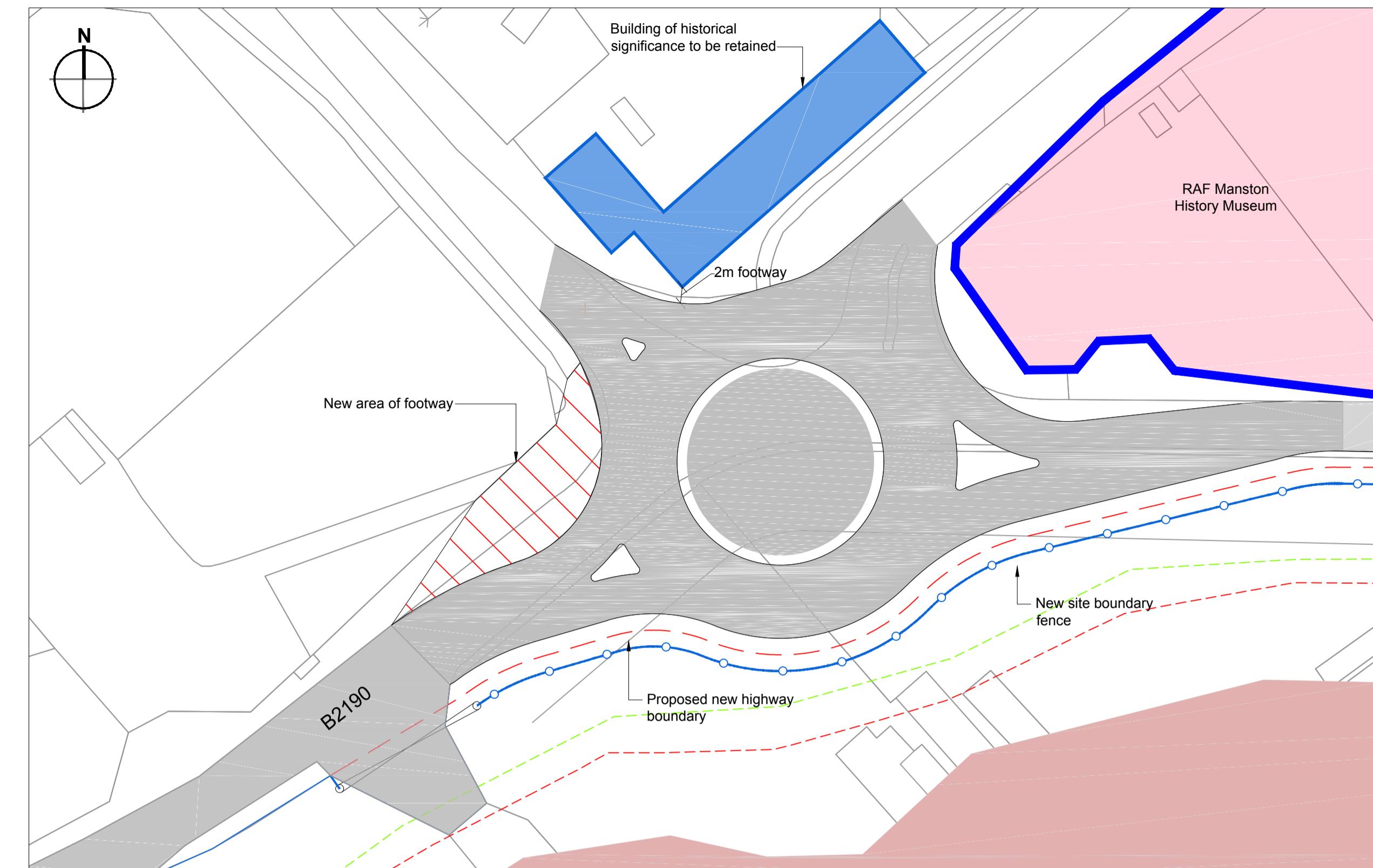
Document Number	Revision	Suitability
NK018417-RPS-MSF-X-DR-C-1601	P02	S0

Project Number	Originator - Zone - Level - Type - Role - Draw
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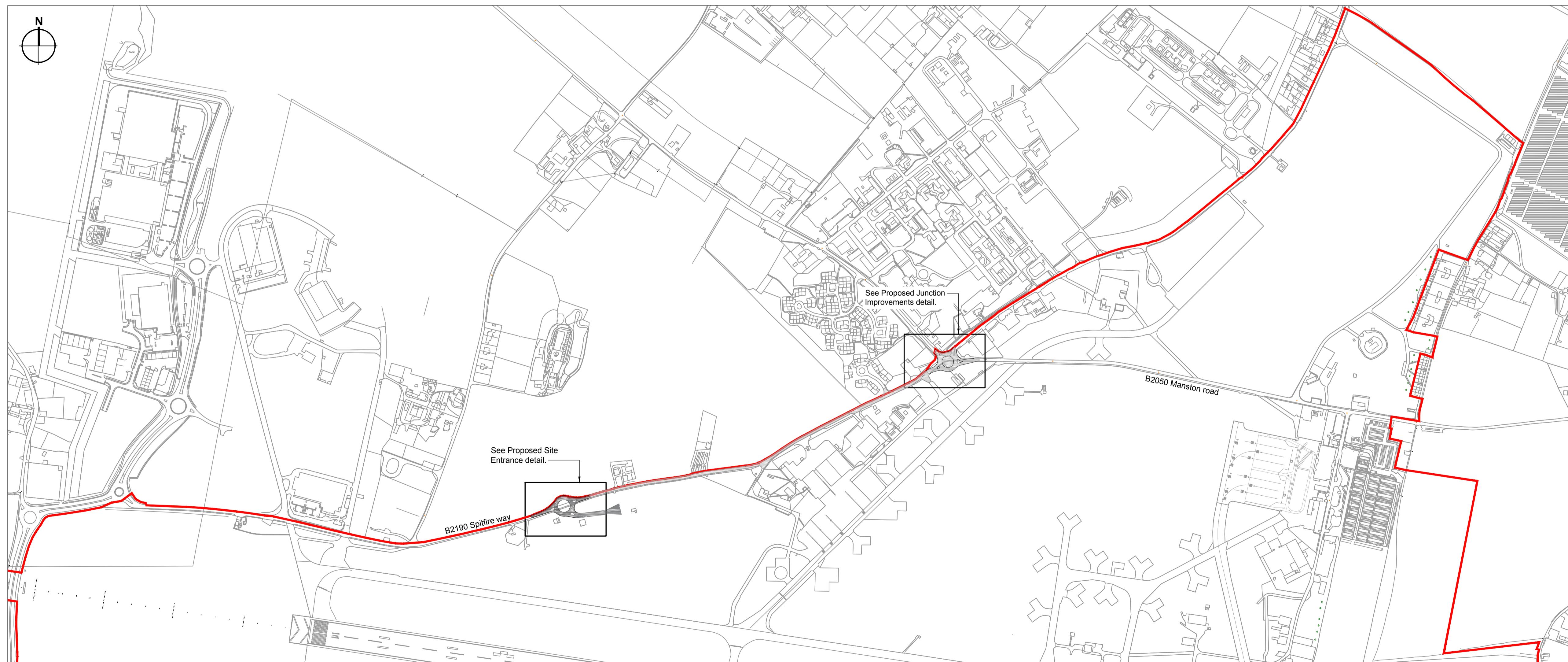
Proposed Site Entrance

Scale 1:500



Proposed Junction Improvements

Scale 1:500



Location Plan
Scale 1:5000

P02	Figure Number Added	TAW	CJ	28.04.17
P01	First Issue.	-	-	-
Rev	Description	By	Ckd	Date

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Project Manston Airport Masterplan

Title Proposed Site Access, and
highways and Junction
Improvements

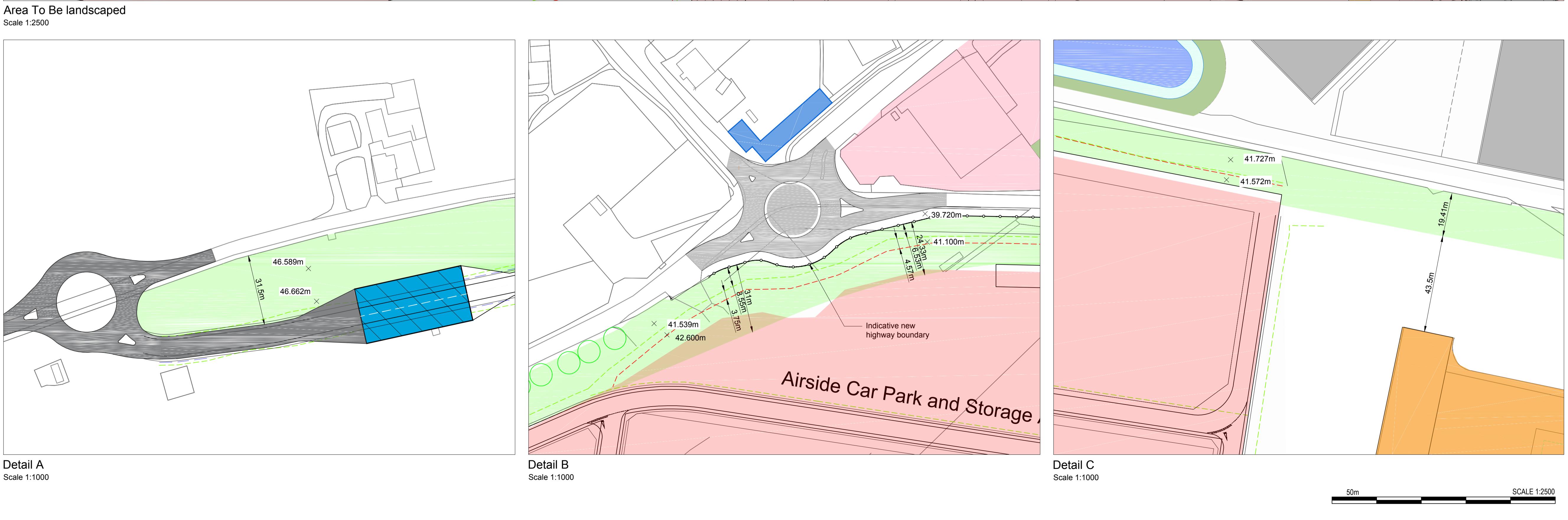
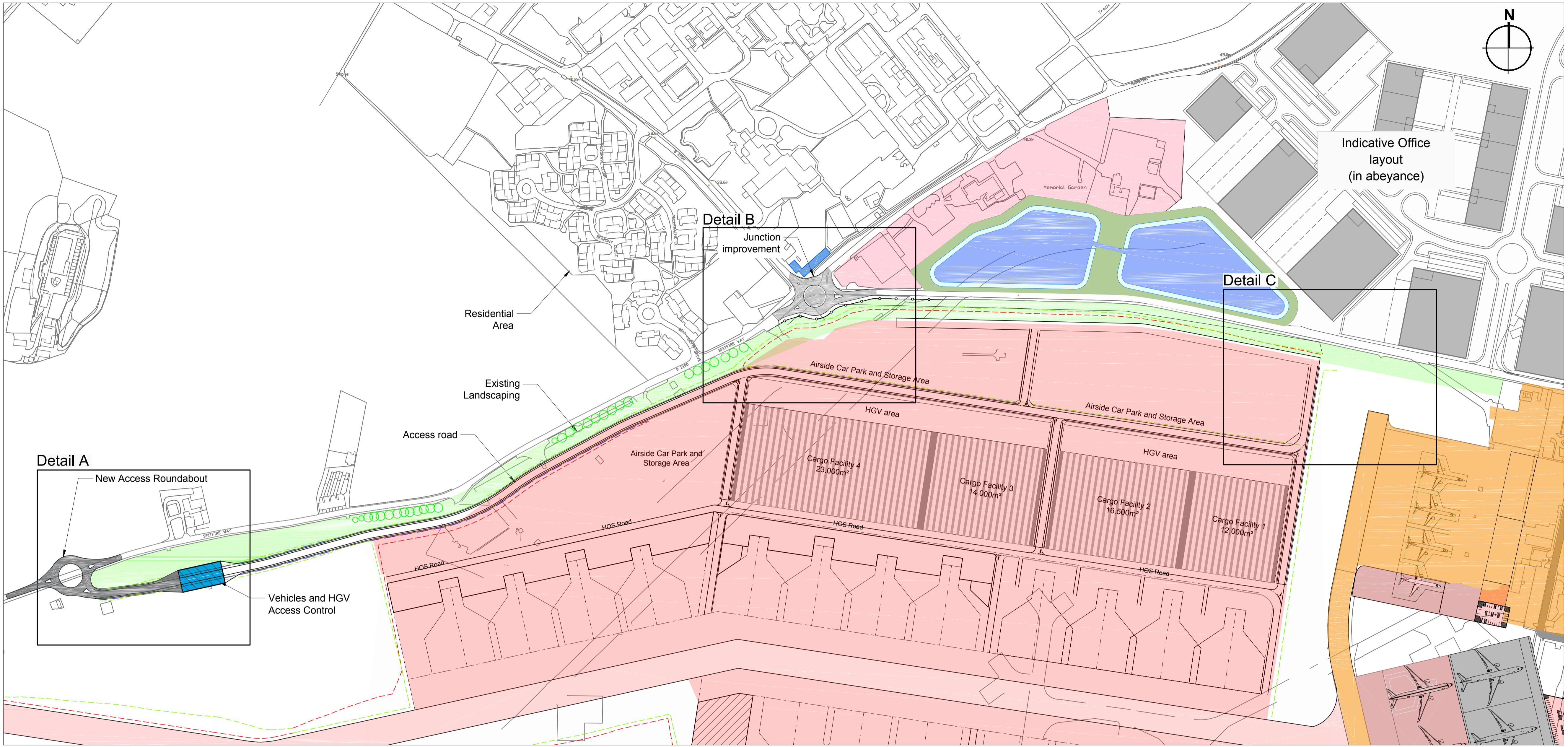
Status Preliminary	Scale As Shown @A1	Date Created 13/06/2016
Project Leader GD	Drawn By CJ	Checked by GD

Document Number NK018417 - RPS-MSE-X-DR-C-1103	Revision P02	Suitability S0				
Project Number	Originator	Zone	Level	Type	Role	Drawing Number

Figure Number 3.19

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10m SCALE 1:500
100m SCALE 1:5000



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- This drawing should be read in conjunction with all other relevant drawings and specifications.
- Airport boundary fence required within landscaped area.
- General depth of landscaped is 20m to 30m. Approx length 1650m.
- Vegetation to landscaped area subject to restrictions to mitigate bird attraction. Refer to relevant airfield guidance.

Legend	
	Area to be Landscaped (Approximate Area = 36,500m ²)
	Existing Vegetation
	Proposed Foot of Embankment
	Proposed Top of Embankment
	xx.xxx m Typical Level

P02	Figure Number Added	TAW	CJ	28.04.17
P01	First Issue.	RS	CJ	01.03.17
Rev	Description	By	Ckd	Date

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Client RSP

Project Manston Airport Masterplan

Title Landscaping Scheme

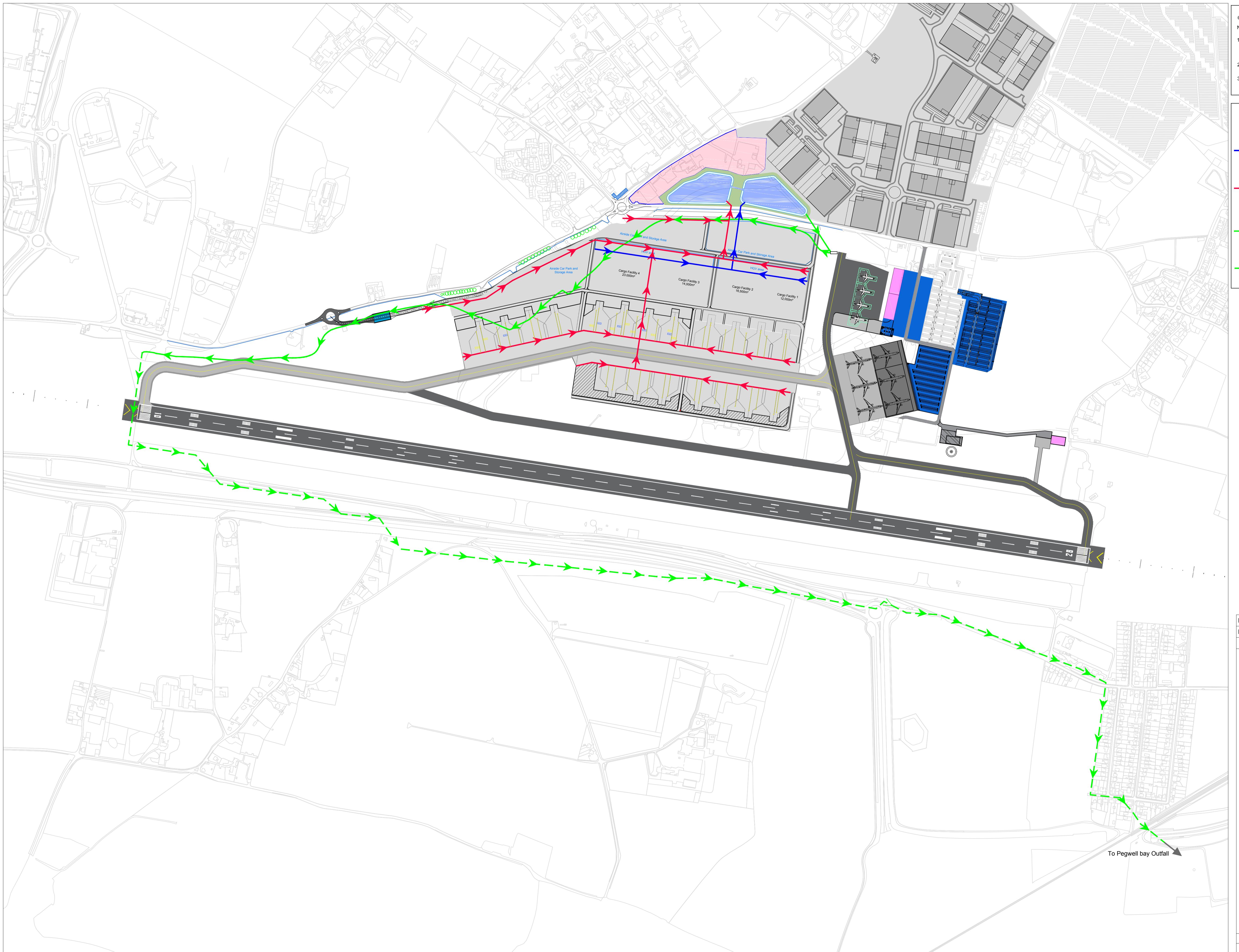
Status Preliminary	Scale Shown @A1	Date Created 28.02.17
Project Leader GDD	Drawn By RS	Checked by CJ

Document Number	Revision	Suitability
NK018417 - RPS-MSE-XX-DR-C-1130	P02	SO

Project Number Originator Zone Level Type Role Drawing Number

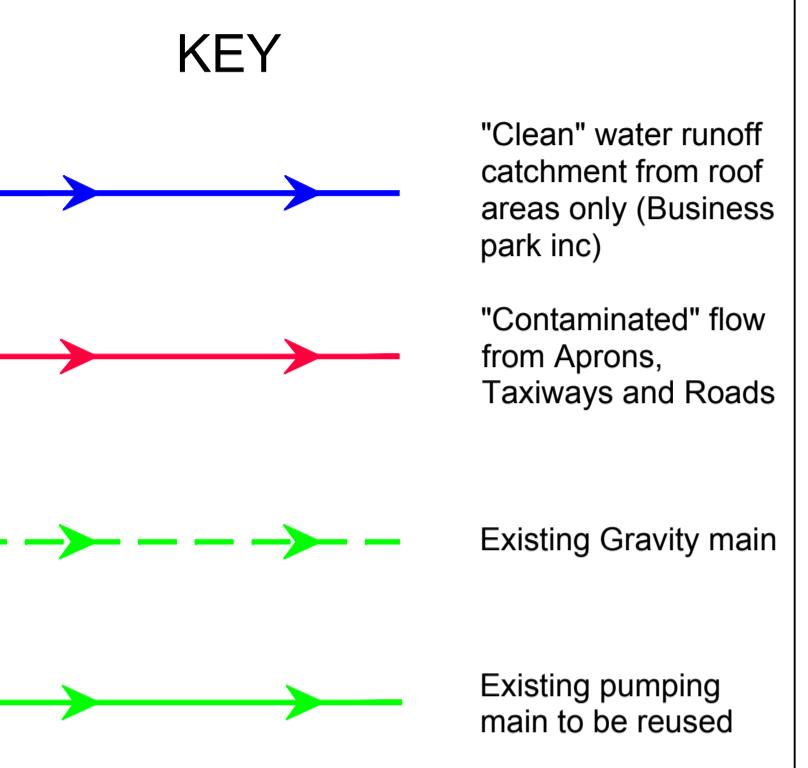
Figure Number 3.20

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P02	Figure Number Added	TAW	CJ	28.04.17
P01	First Issue.	BJPF	CJ	20.02.17
Rev	Description	By	Ckd	Date

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Client RSP

Project Manston Airport Masterplan

Title Outline Drainage Strategy

Status	Scale	Date Created
Preliminary	1:2500 @A1	20.02.17
Project Leader	Drawn By	Checked by
GDD	BJPF	CJ

Document Number	Revision	Suitability
NK018417 - RPS-MSE-XX-DR-C-1201	P02	SO
Project Number	Organise - Zone - Level - Type - Role - Drawing Number	

Figure Number 3.21

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Legend:

Existing Contours Plan

Major Contour

Minor Contour

P02	Figure Number Added	TAW	JLE	03.05.17
P01	First Issue.	JLE	GD	22.03.16
Rev	Description	By	Ckd	Date



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Client **RSP**

Project Manston Airport Masterplan

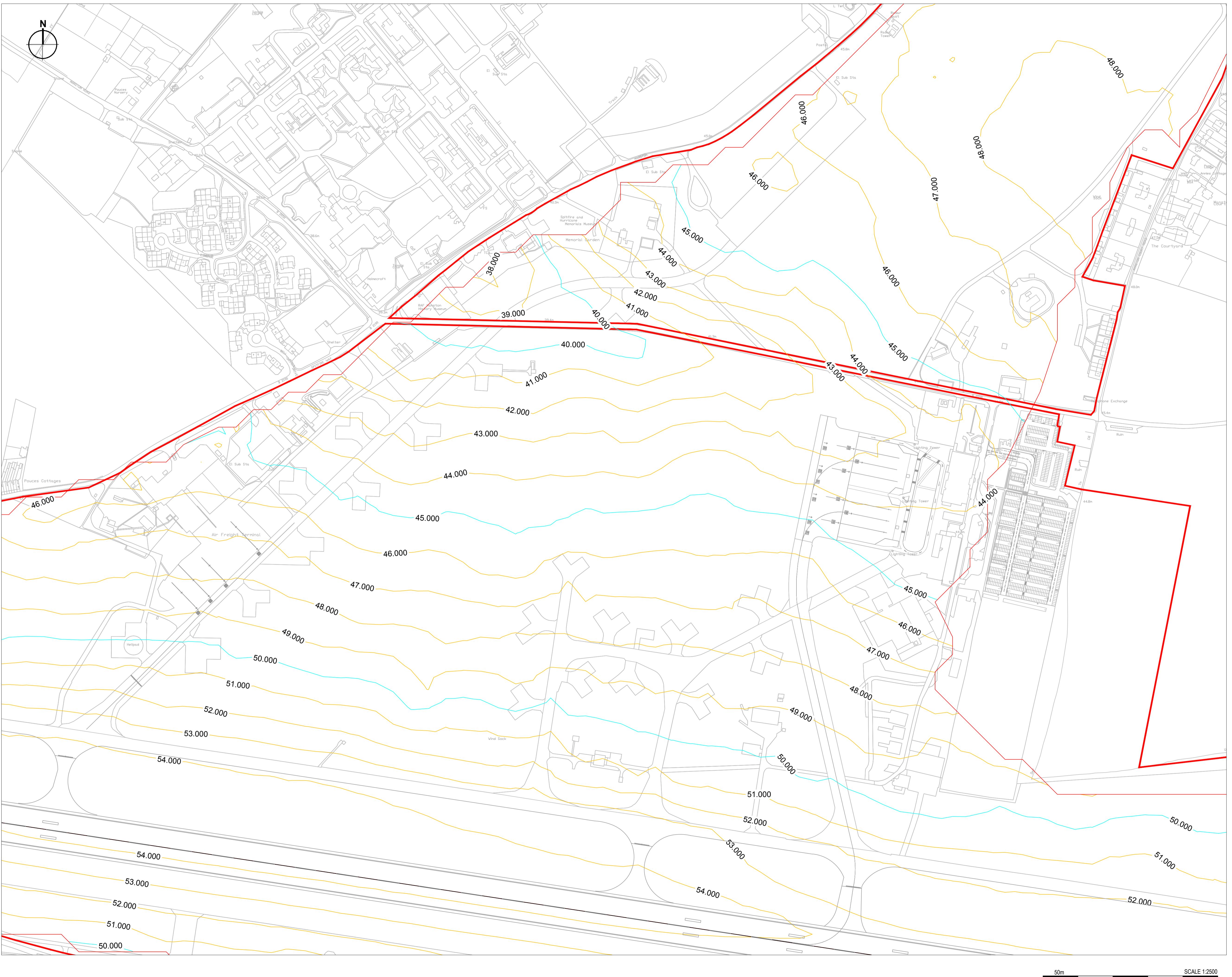
Title Existing Contours

Status Preliminary	Scale 2,500 @A1	Date Created 16/03/2016
Project Leader GD	Drawn By JLE	Checked by GD
Document Number NK018417 - RPS-MSE-X-DR-C-0130	Revision S0	Suitability

Project Number	Originator	Zone	Level	Type	Role	Drawing Number
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Figure Number 3.22a

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Key

- Major Contour
- Minor Contour

P01	First Issue.	-	JLE	04.05.17
Rev	Description	By	Ckd	Date

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Client RSP

Project Manston Airport Masterplan

Title Proposed Contours

Status	Scale	Date Created
Preliminary	1:4000 @A1	04/05/2017
Project Leader	Drawn By	Checked by
GDD	RS	JLE

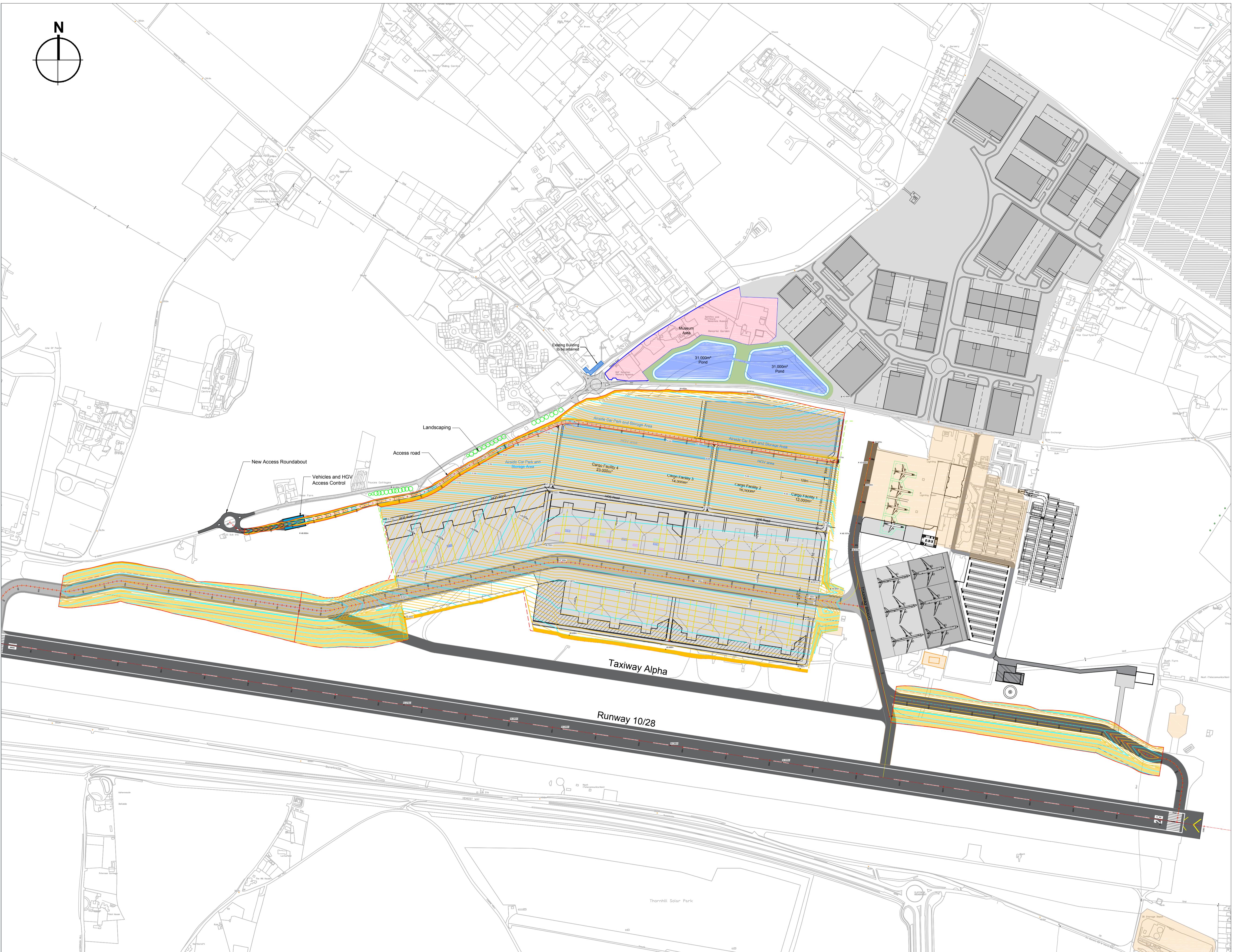
Document Number Revision Suitability

NK018417 - RPS-MSE-XX-DR-C-1311 P01 SO

Project Number Originator Zone Level Type Role Drawing Number

Figure Number 3.22b

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Proposed Contours - General Plan View
 Scale 1:4000

Figure Number 3.22b

Key

- Major Contour
- Minor Contour

P02	Figure Number Added	TAW	JLE	04.05.17
P01	First Issue.	JLE	CJ	24.02.17
Rev	Description	By	Ckd	Date

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Client RSP

Project Manston Airport Masterplan

Title Proposed Contours Plan
Cargo Area

Status	Scale	Date Created
Preliminary	1:1500 @A1	24/02/2017
Project Leader	Drawn By	Checked by
GDD	RS	JLE

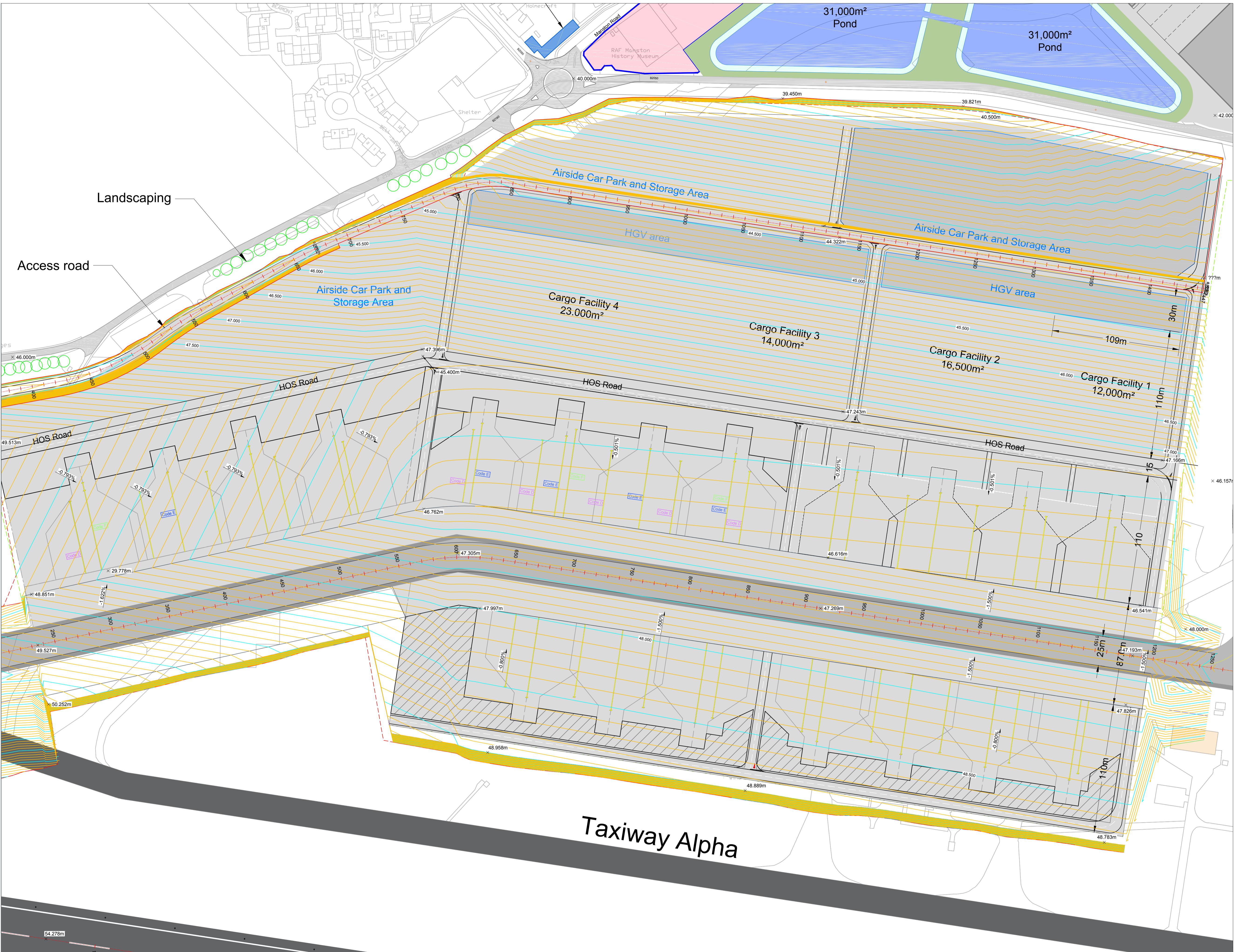
Document Number Revision Suitability

NK018417 - RPS-MSE-XX-DR-C-1312 P02 SO

Project Number Originator Zone Level Type Role Drawing Number

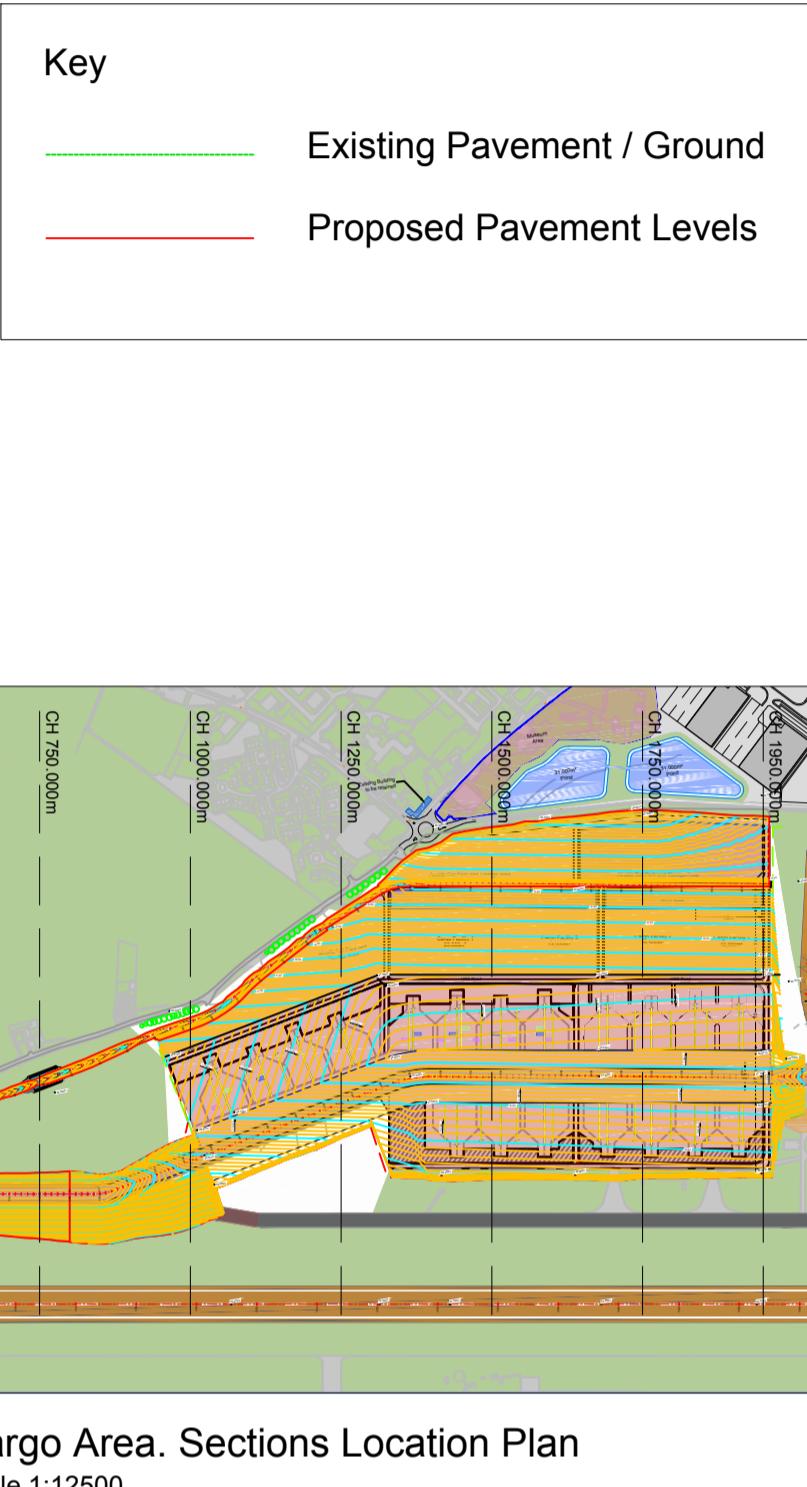
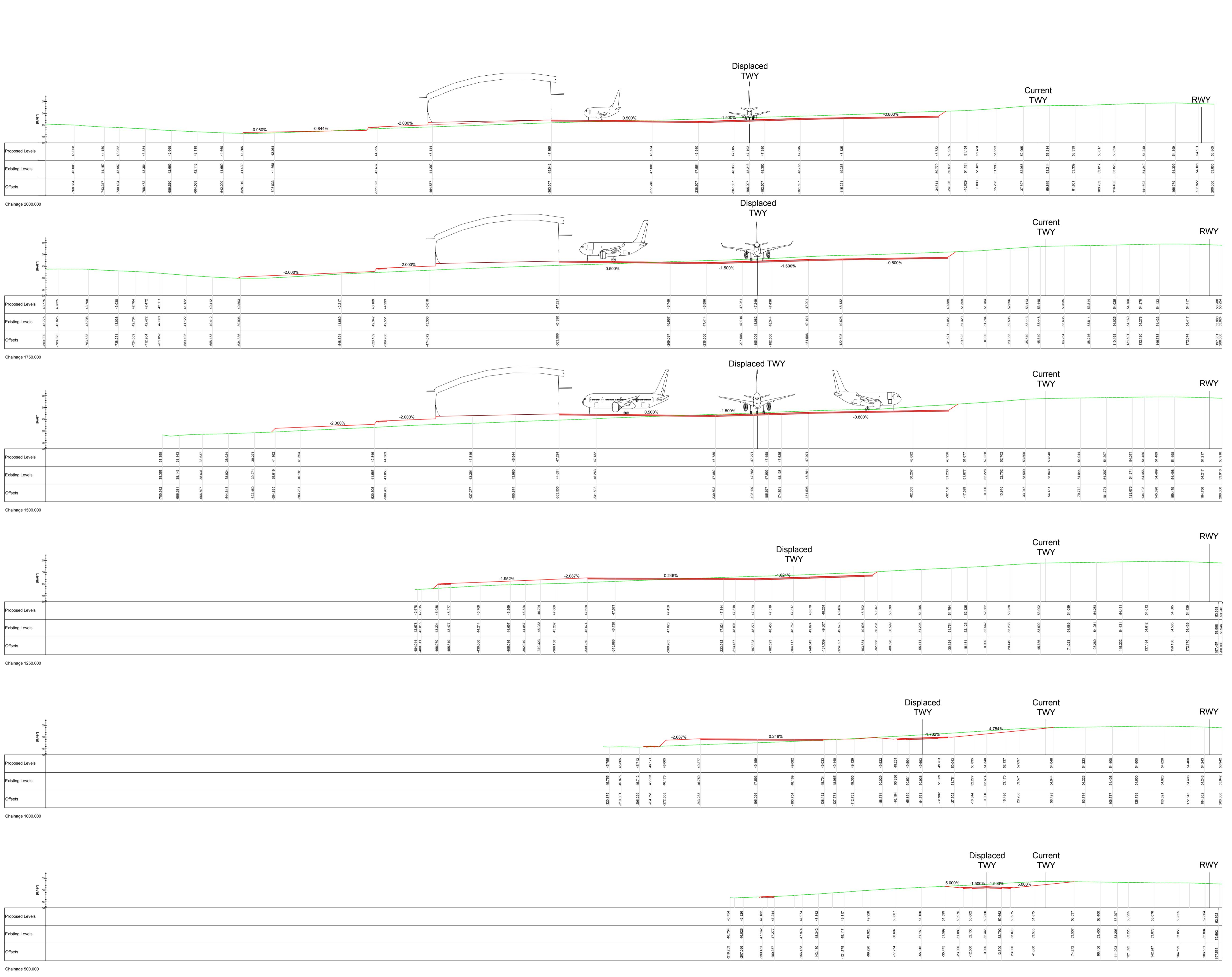
Figure Number 3.22c

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Cargo Area. Proposed Contours Plan View
Scale 1:1500

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P01	First Issue.	RS
Rev	Description	JLE

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Client RSP

Project Manston Airport Masterplan

Title Cross Sections of proposed Development

Status Preliminary	Scale 1:1500 @A1	Date Created 27/02/2017
Project Leader GDD	Drawn By RS	Checked by JLE

Document Number NK018417 - RPS-MSE-XX-DR-C-1320 Revision S0

Project Number Originator Zone Level Type Drawing Number P01 S0

Figure Number 3.23

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Safeguarding Areas

- ILS Localisor Protected Areas
- ILS Glide Path Protected Area
- NDB Protected Area
- Rx and Tx Protected Areas (new ATC tower)
- VOR-DME Protected Area
- RADAR Indicative Protection Area (depends on exact RADAR specifications)
- HRDF Protected Area (subject to relocation to meet MOD requirements)



P03	Boundary Has Been Updated.	TAW	CJ	17.05.17
P02	Figure Number Added. Tx/Rx and VOR areas updated.	RS	JLE	05.05.17
P01	First Issue.	-	-	-
Rev	Description	By	Ckd	Date

RPS

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Client RSP

Project Manston Airport Masterplan

Title Technical Safeguarding Plan
for Proposed Layout

Status Preliminary	Scale 6,000 @A1	Date Created 02/06/2016
Project Leader GD	Drawn By JLE	Checked by GD

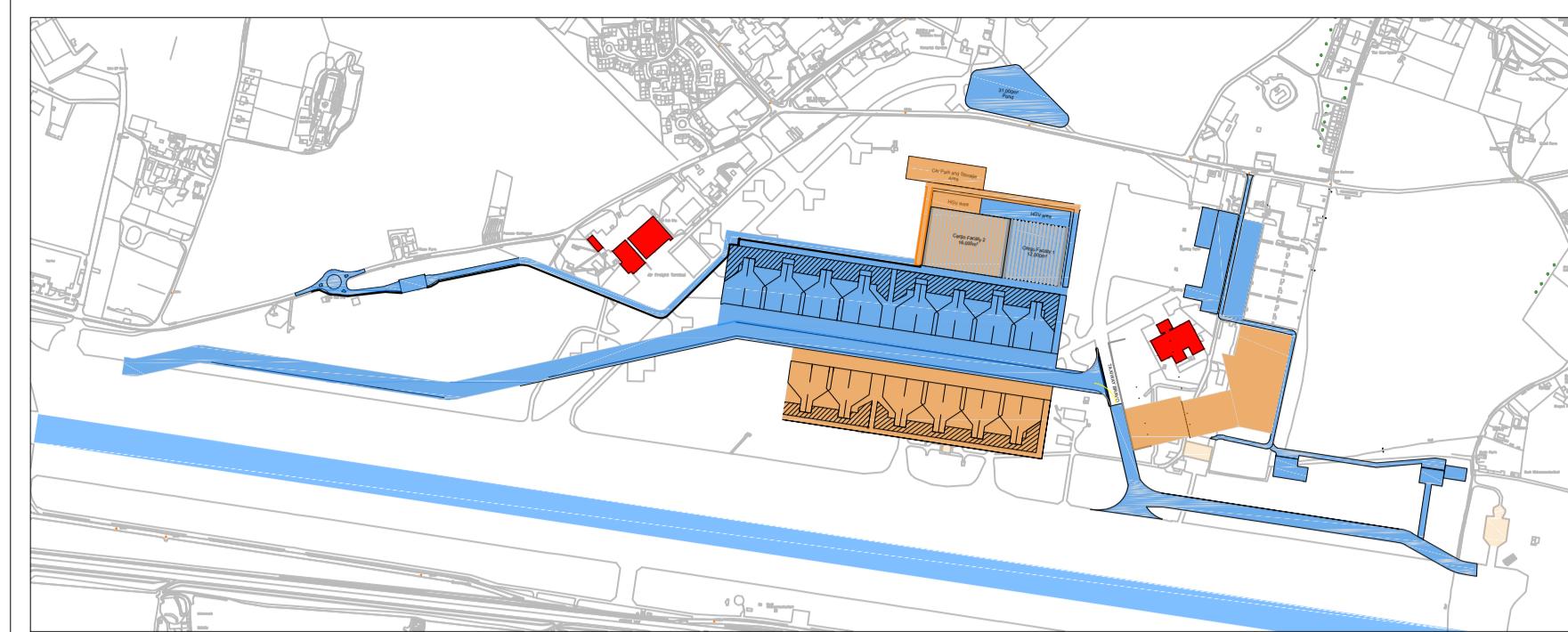
Document Number NK018417 - RPS-MSE-X-DR-C-1911	Revision P03	Safety SO
Project Number	Organise - Zone - Level - Type - Role - Drawing Number	

Figure Number 3.26

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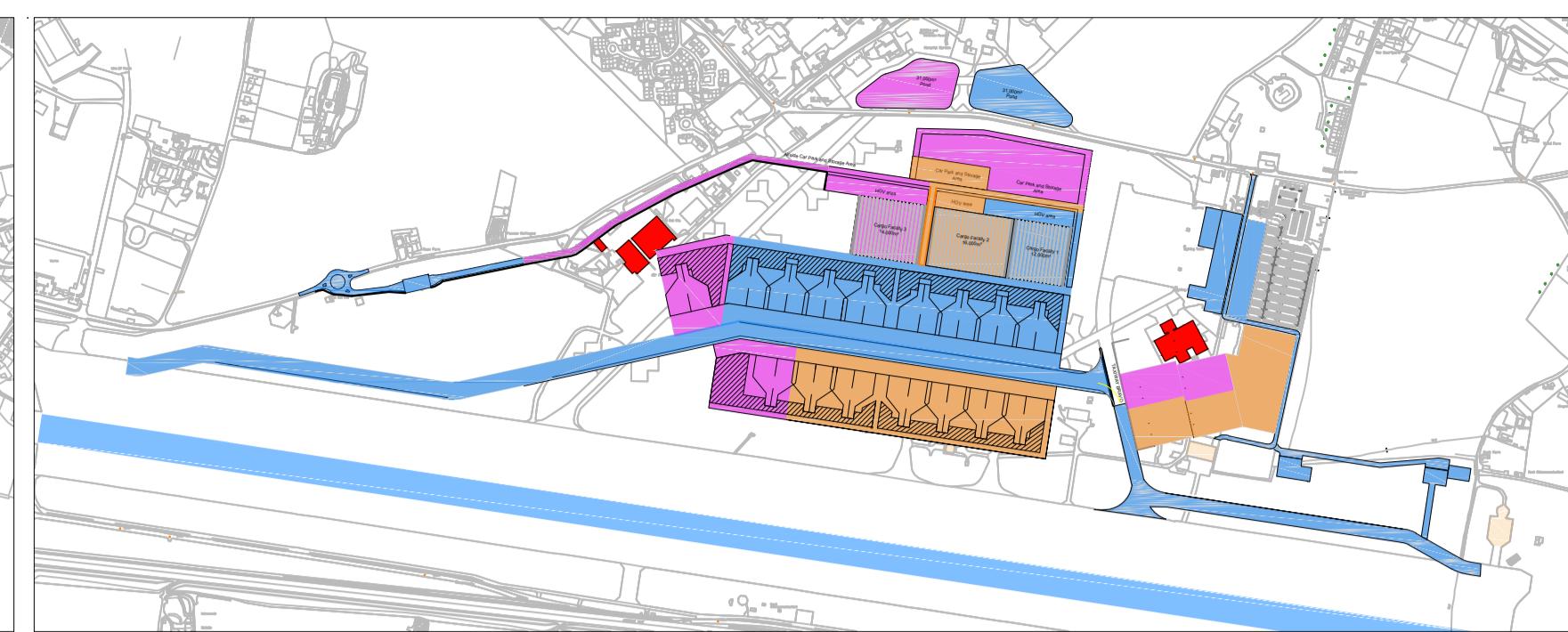
Key

	Phase 1 Construction
	Phase 2 Construction
	Phase 3 Construction
	Phase 4 Construction
	Previous Construction



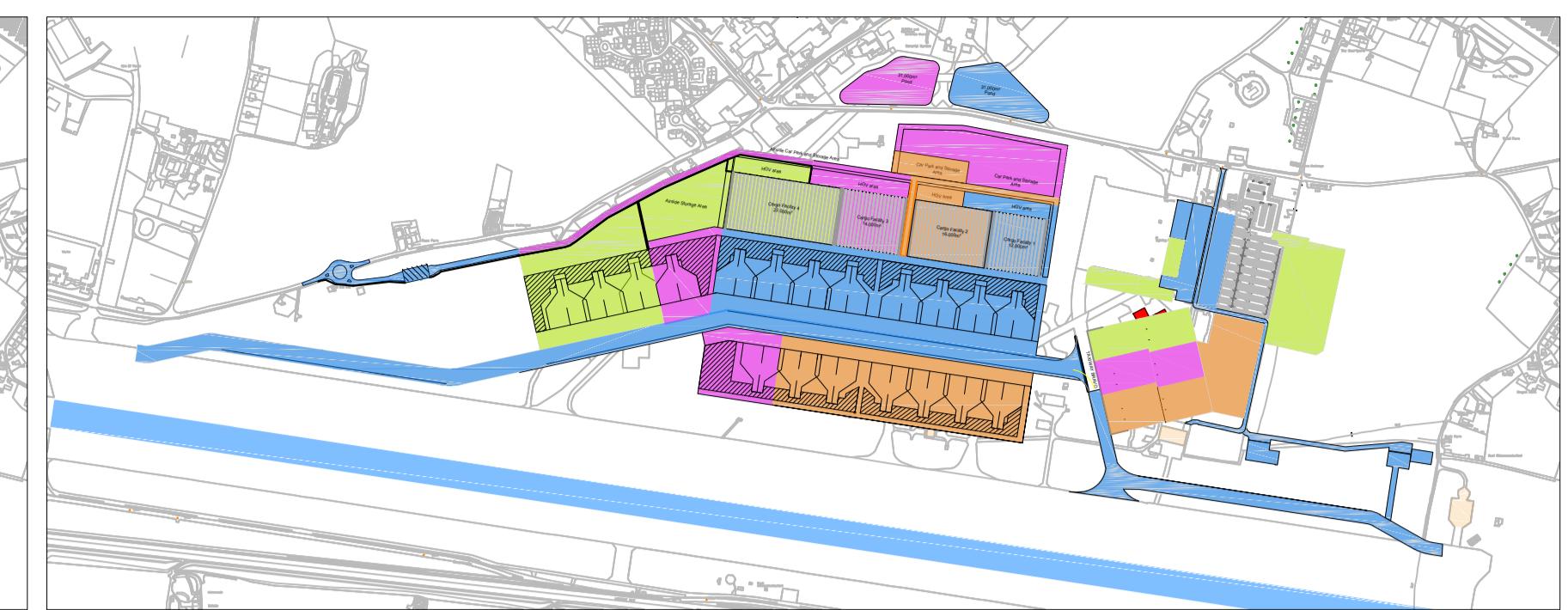
Phase 2

Scale 1:12,500



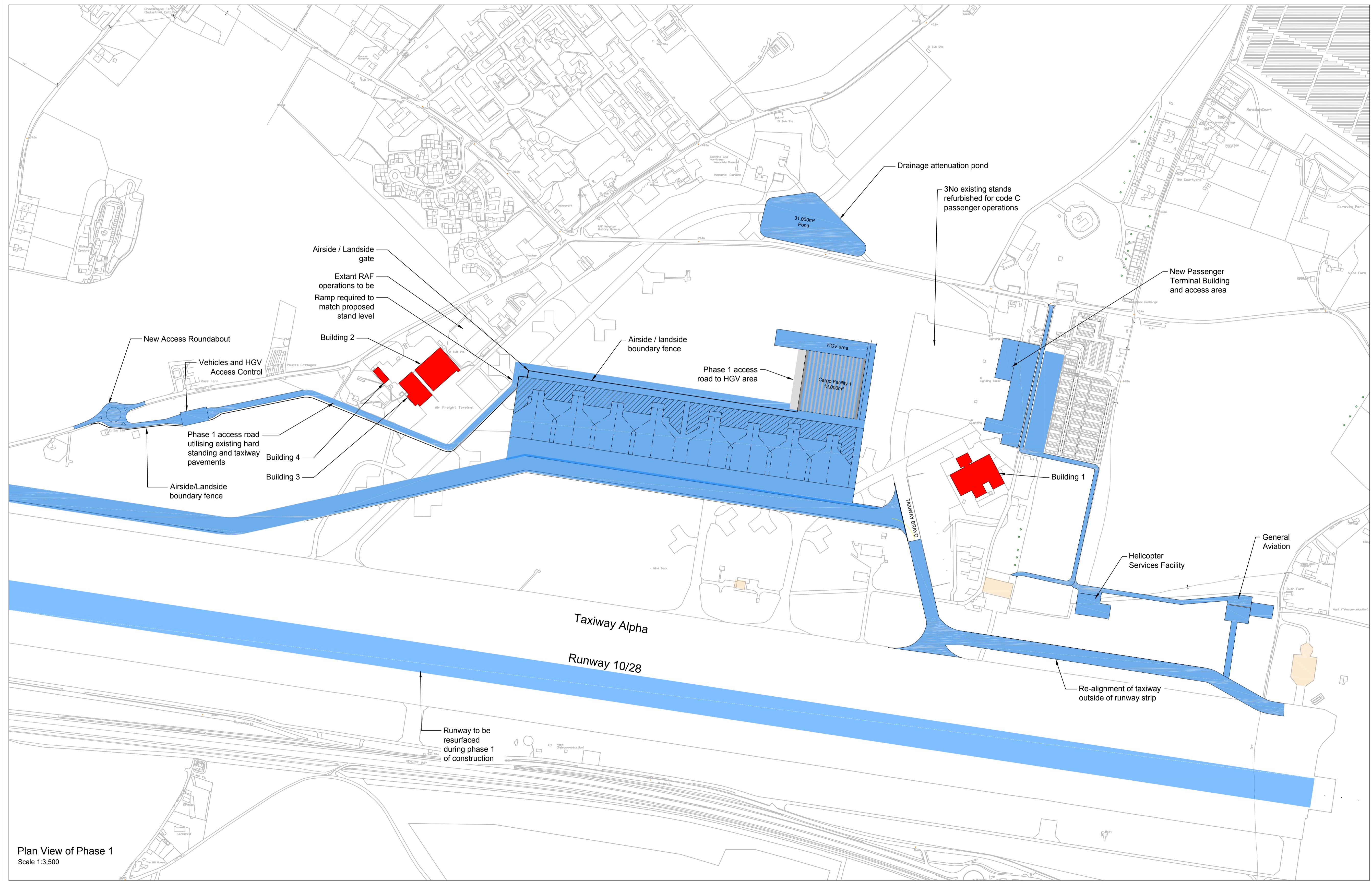
Phase 3

Scale 1:12,500



Phase 4

Scale 1:12,500



PHASE 1		
	Constructed in Phase 1	Site Total
Code E Stands	8	8
Cargo Facilities	12,000 m ²	12,000 m ²
Access, Storage and Parking	14,000 m ²	42,000 m ²
Taxiway and Aprons	23,000 m ²	65,000 m ²
Passenger Stands	3 (Refurbished)	3

P06	Phase 1 Table updated	RS	CJ	18.05.17
P05	Drawing Updated.	TAW	CJ	12.05.17
P04	Figure Number Added	TAW	CJ	28.04.17
P03	Buildings 1 to 4 added	RS	CJ	03.03.17
P02	Amendments to construction phasing and facilities size changed.	RS	CJ	13.02.17
P01	First Issue.	KH	CJ	18.06.16
Rev	Description	By	Ckd	Date

RPSSherwood House, Sherwood Avenue,
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Project Manston Airport Masterplan

Title Phase 1
Phasing Plan

Status	Scale	Date Created
Preliminary	1:3500 @A1	18.06.2016
Project Leader	Drawn By	Checked by
GD	KH	CJ

Document Number Revision Suitability

NK018417 - RPS-MSE-XX-DR-C-1401 P06 SO

Project Number Originator Zone Level Type Role Drawing Number

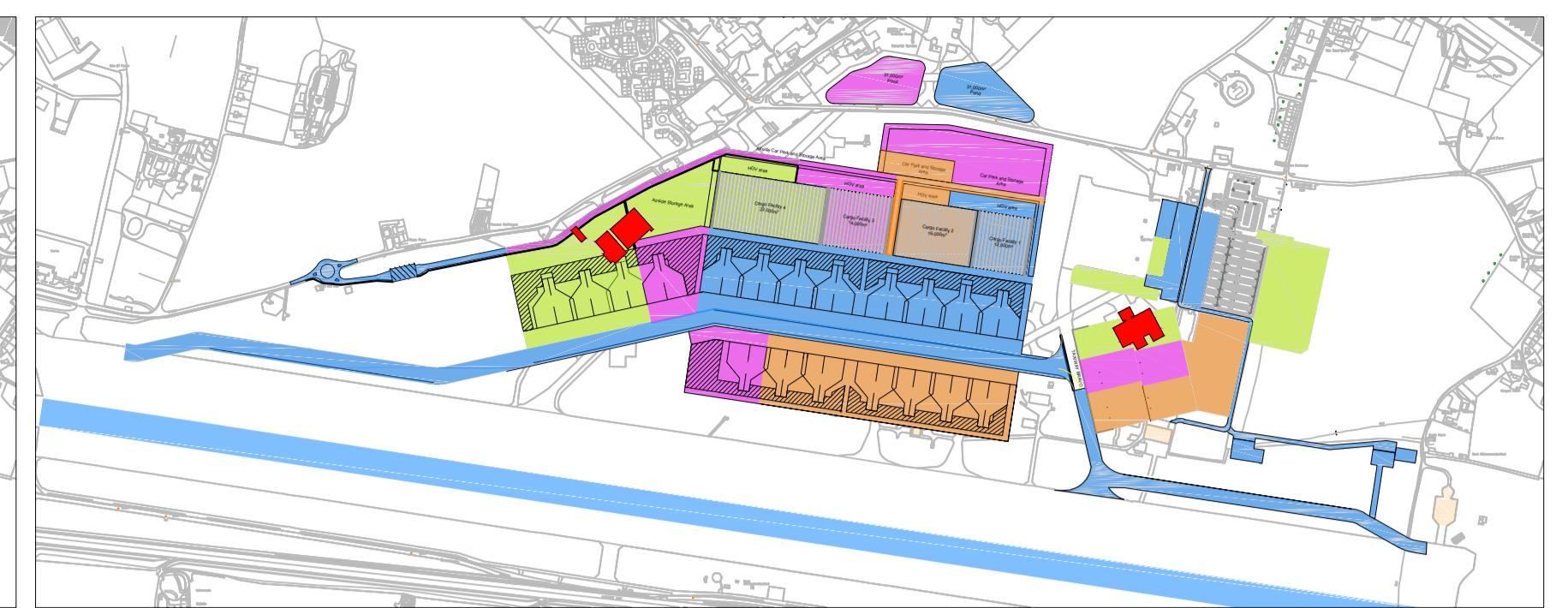
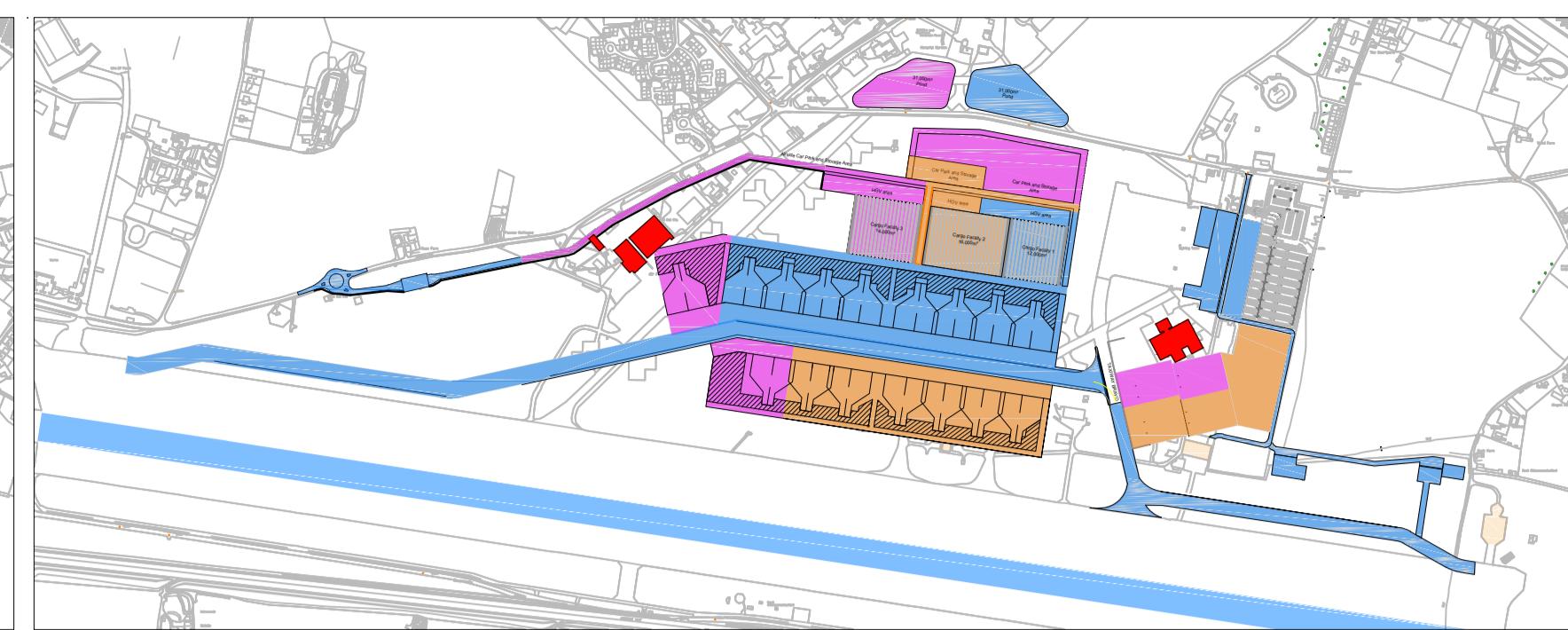
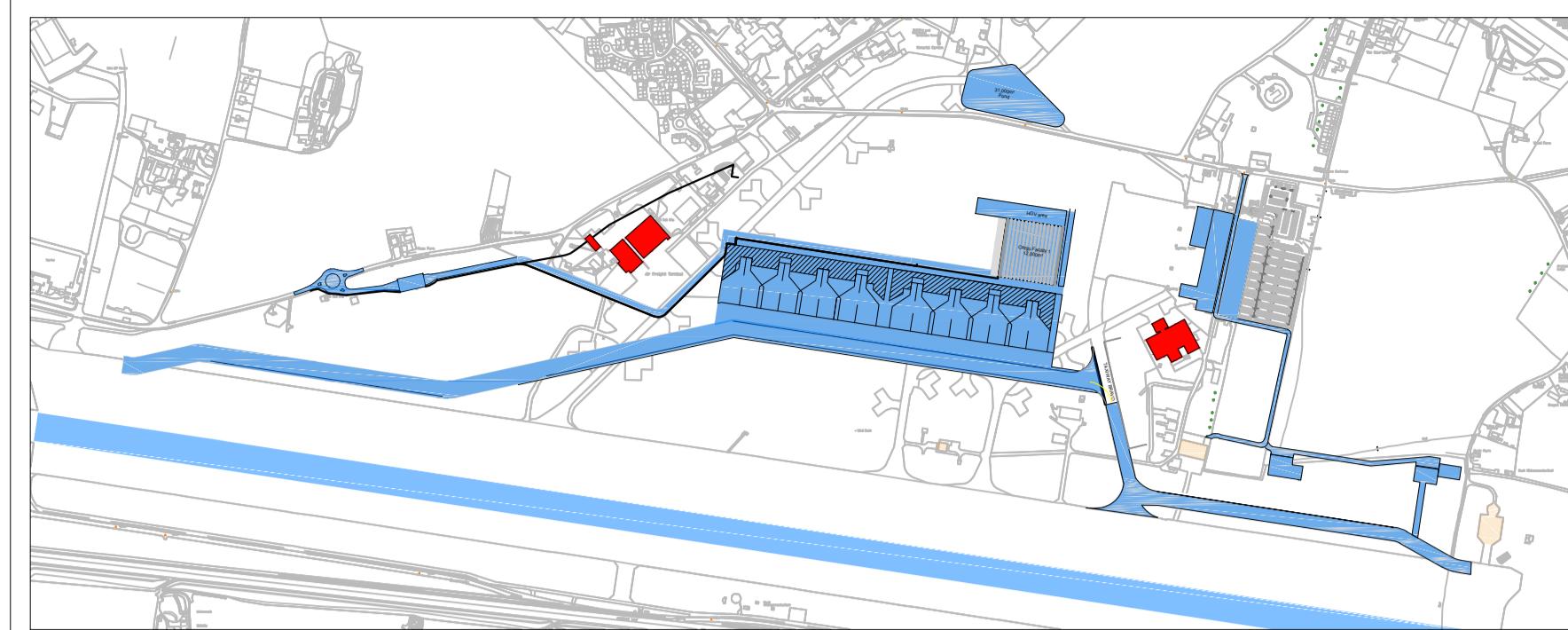
Figure Number 3.27

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Key

	Phase 1 Construction
	Phase 2 Construction
	Phase 3 Construction
	Phase 4 Construction
	Previous Construction



Phase 1

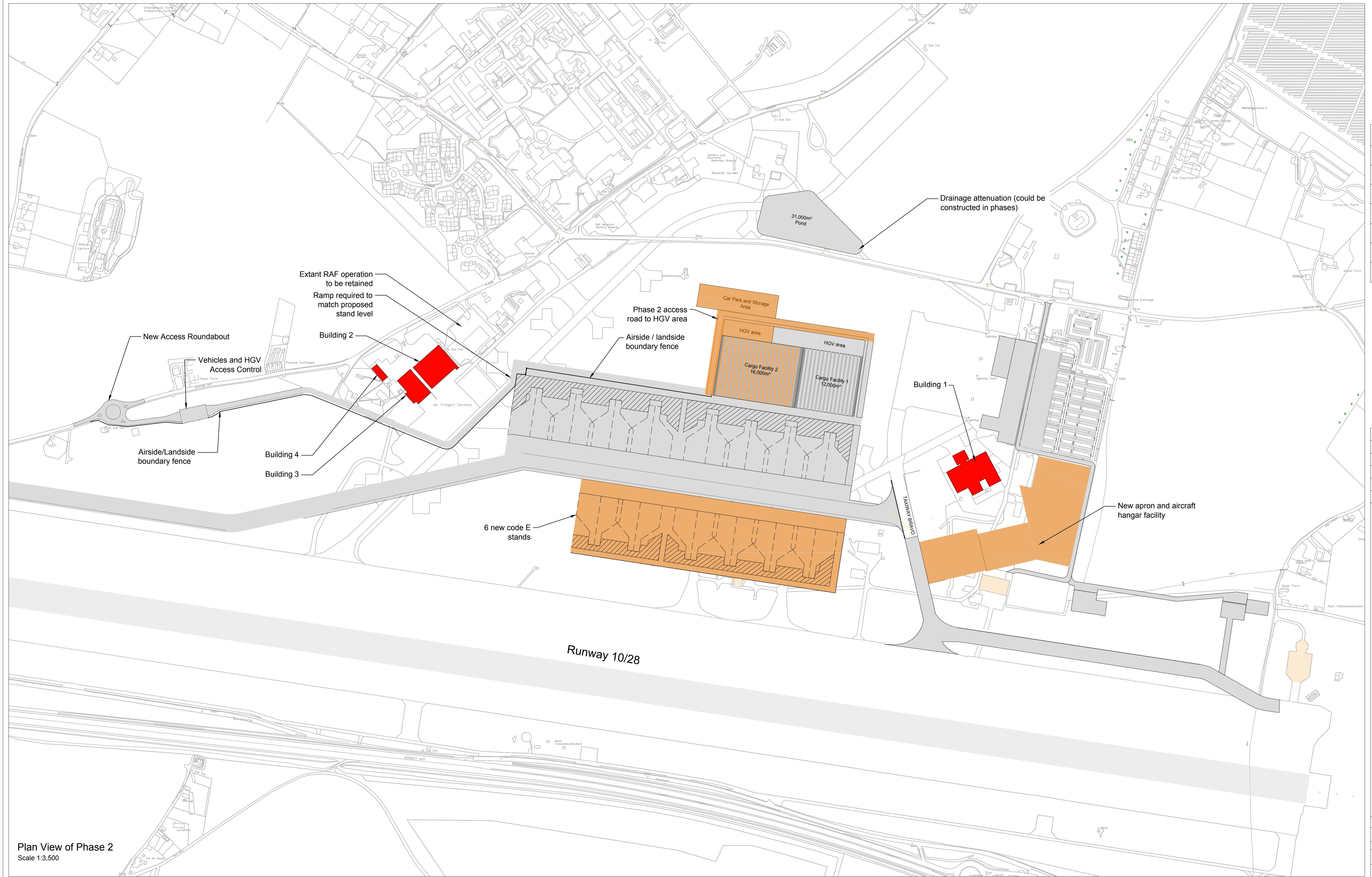
Scale 1:12,500

Phase 3

Scale 1:12,500

Phase 4

Scale 1:12,500



PHASE 2		
	Constructed in Phase 2	Site Total
Code E Stands	6	14
Cargo Facilities	16,000 m ²	28,000 m ²
Access, Storage and Parking	24,371 m ²	66,371 m ²
Taxiway and Aprons	64,240 m ²	129,240 m ²
Passenger Stands	0	3
Maintenance Hangars	1	1

P05	Phase 2 Table Updated	RS	CJ	18.05.17
P04	Drawing Updated.	TAW	CJ	12.01.17
P03	Figure Number Added	TAW	CJ	28.04.17
P02	Phasing amended to suit general arrangement.	CM	CJ	03.03.17
P01	First Issue.	BJPF	CJ	20.02.17
Rev	Description	By	Ckd	Date

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Client RSP

Project Manston Airport Masterplan

Title Phase 2
Phasing Plan

Status	Scale	Date Created
Preliminary	1:3500 @A1	20.02.17
Project Leader	Drawn By	Checked by
GDD	BJPF	CJ

Document Number Revision Suitability

NK018417 - RPS-MSE-XX-DR-C-1402 P05 SO

Project Number Originator Zone Level Type Role Drawing Number

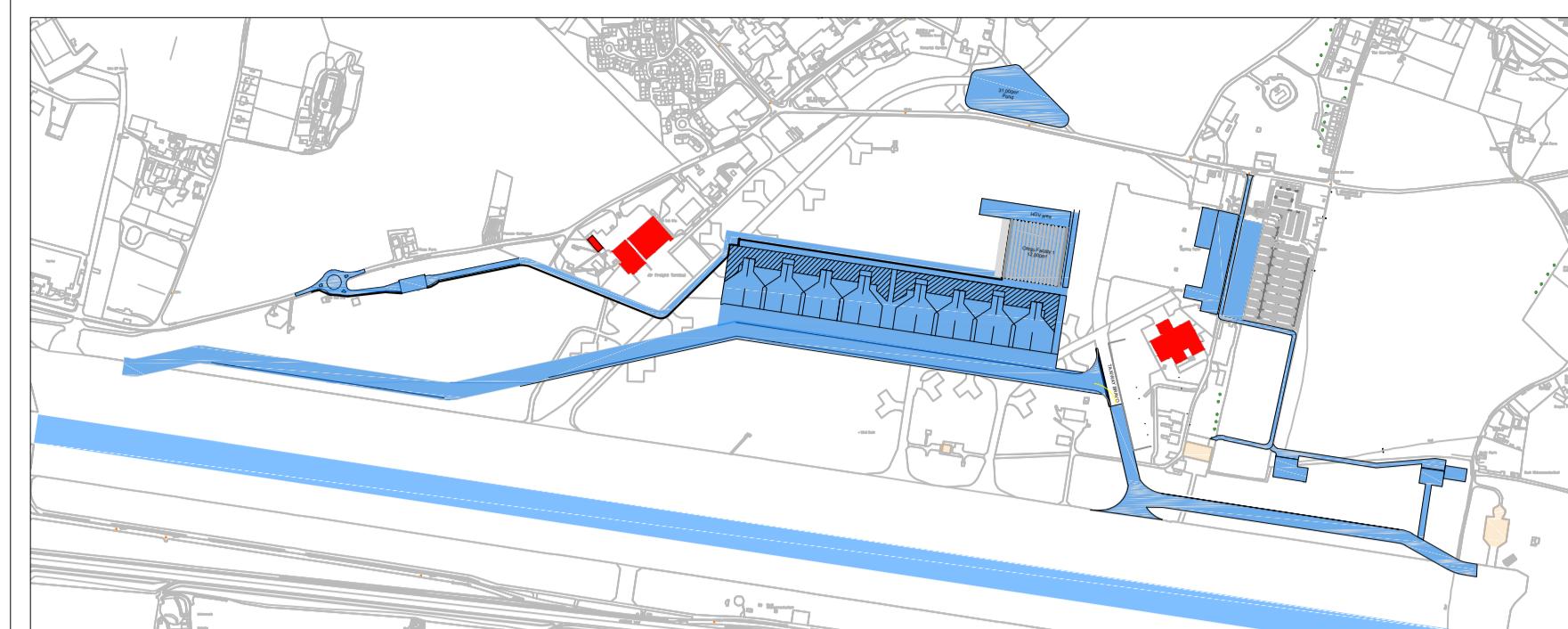
Figure Number 3.28

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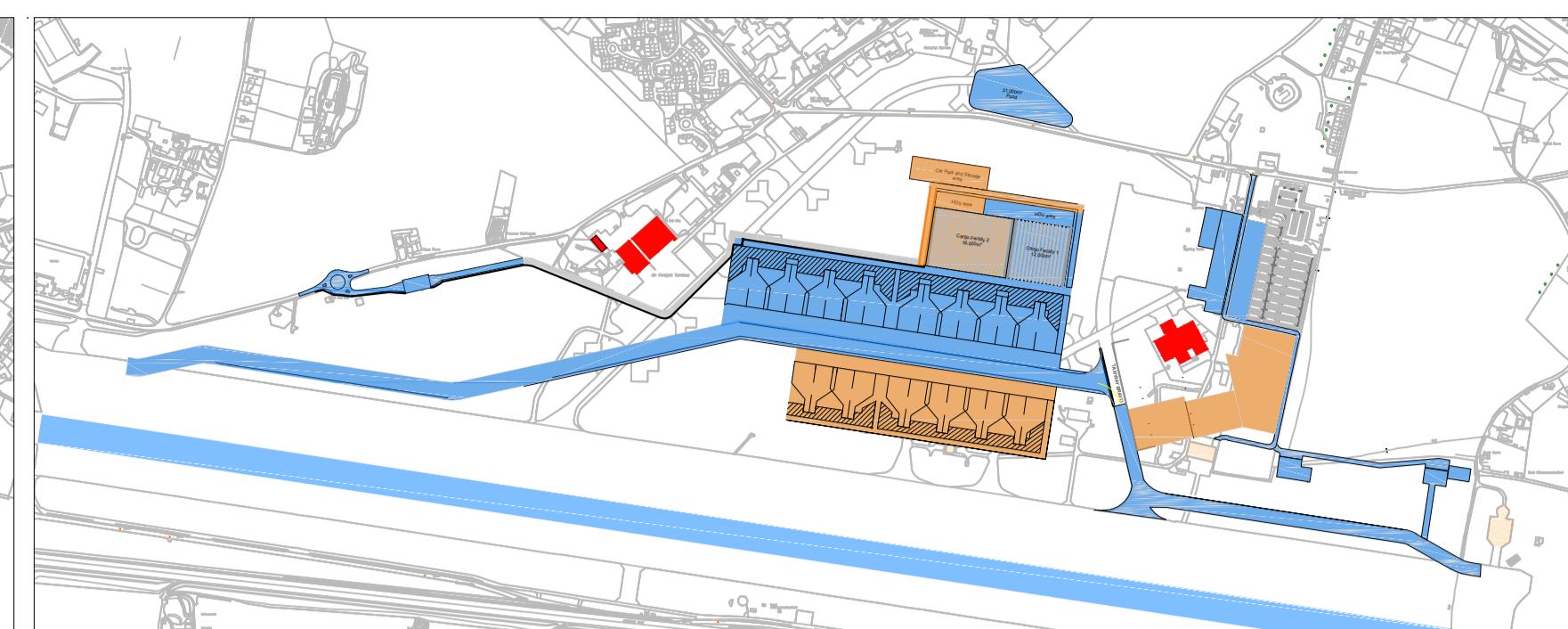
Key

	Phase 1 Construction
	Phase 2 Construction
	Phase 3 Construction
	Phase 4 Construction
	Previous Construction



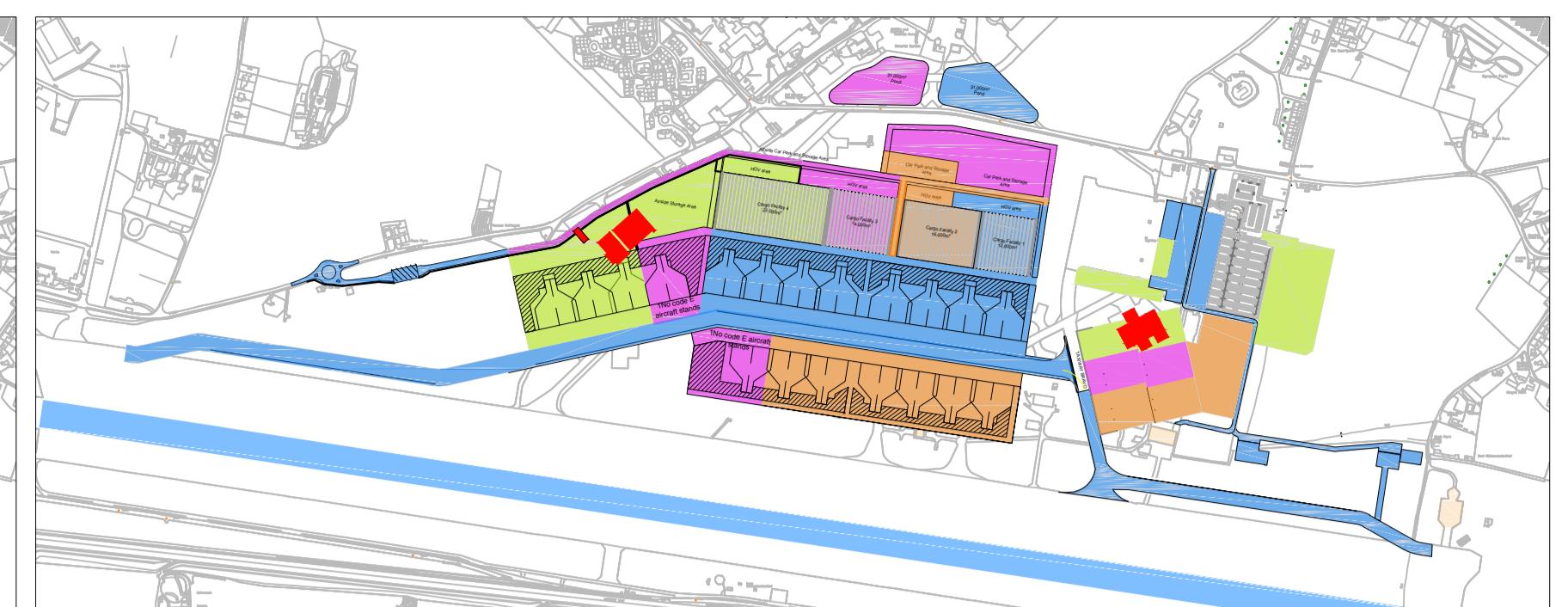
Phase 1

Scale 1:12,500



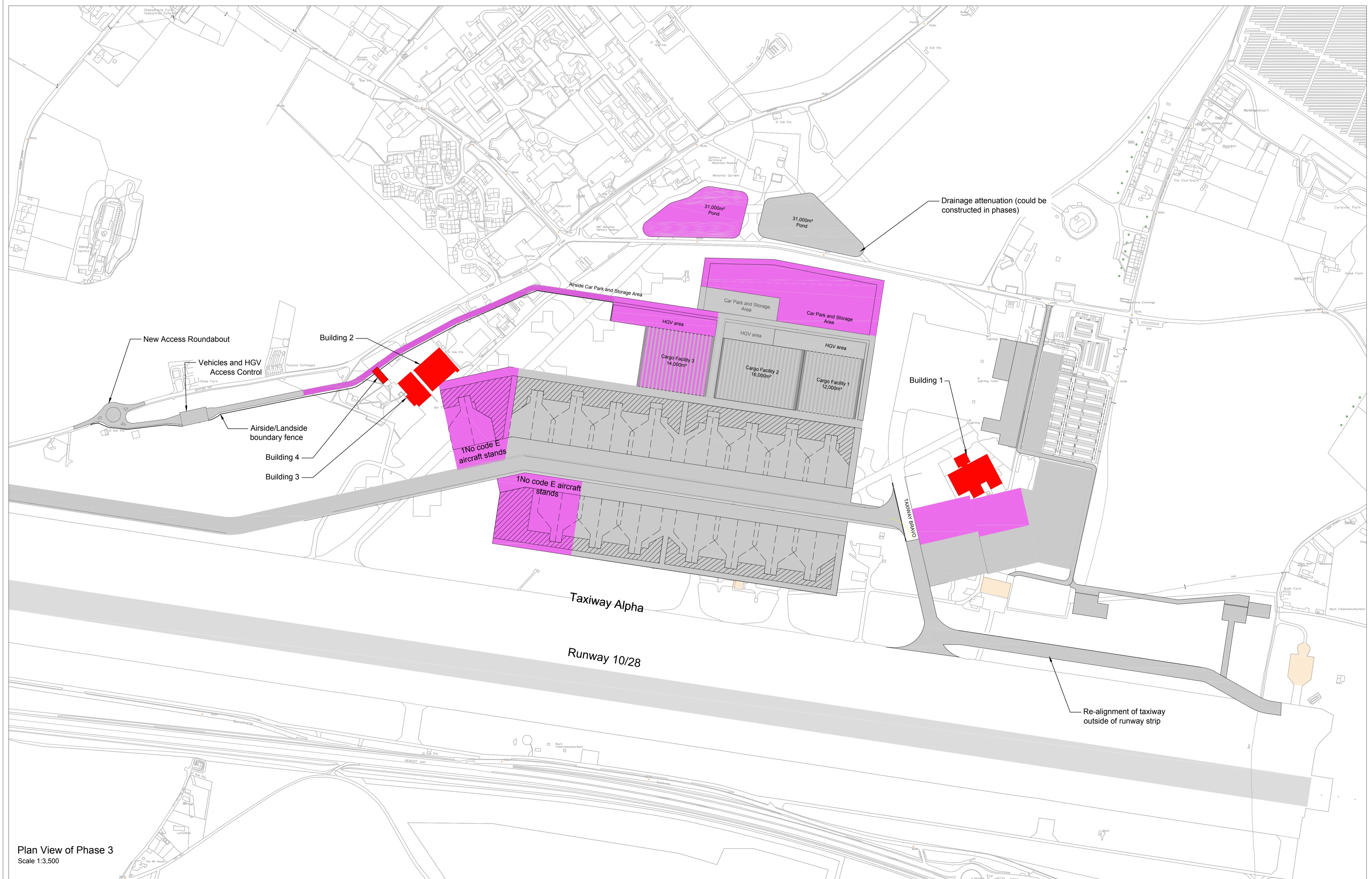
Phase 2

Scale 1:12,500



Phase 4

Scale 1:12,500



PHASE 3		
	Constructed in Phase 3	Site Total
Code E Stands	2	16
Cargo Facilities	14,000 m ²	42,000 m ²
Access, Storage and Parking	26,992 m ²	93,363 m ²
Taxiway and Aprons	89,854 m ²	219,094 m ²
Passenger Stands	0	3
Maintenance Hangers	1	2

P05	Phase 3 Table Updated	RS	CJ	18.05.17
P04	Drawing Updated.	TAW	CJ	12.01.17
P03	Figure Number Added	TAW	CJ	28.04.17
P02	Phasing updated to suit general arrangement.	CM	CJ	03.03.17
P01	First Issue.	BJPF	CJ	20.02.17
Rev	Description	By	Ckd	Date

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Client **RSP**

Project Manston Airport Masterplan

Title Phase 3
Phasing Plan

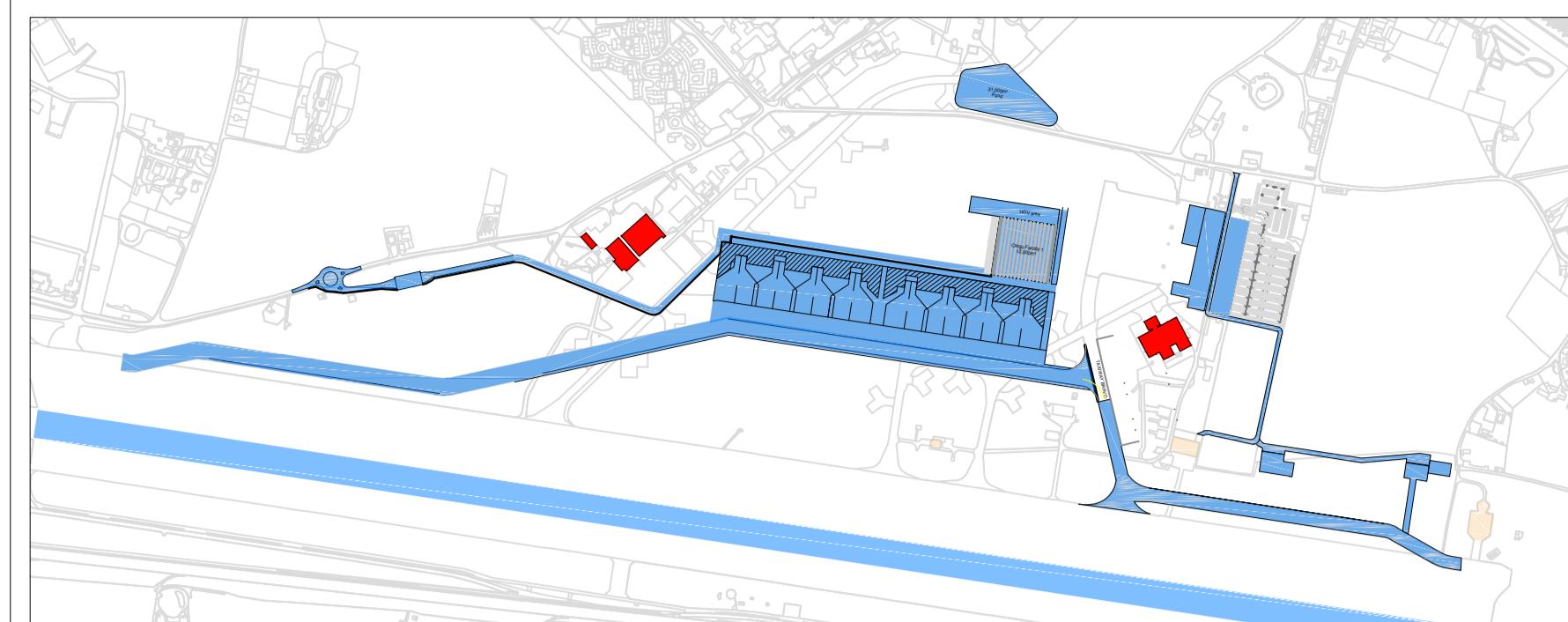
Status	Scale	Date Created
Preliminary	1:3500 @A1	20.02.17
Project Leader	Drawn By	Checked by
GDD	BJPF	CJ

Document Number	Revision	Suitability
NK018417 - RPS-MSE-XX-DR-C-1403	P05	SO
Project Number	Organise Zone	Level Type Role Drawing Number

Figure Number 3.29

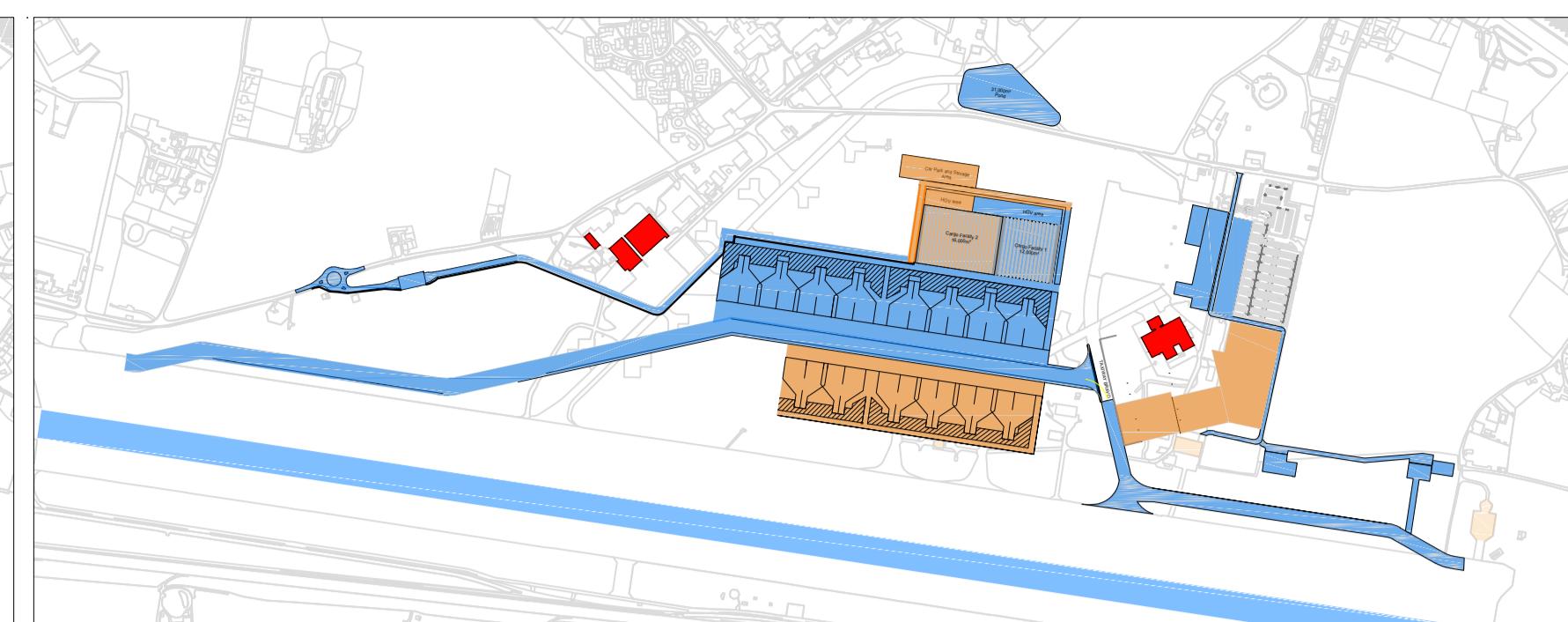
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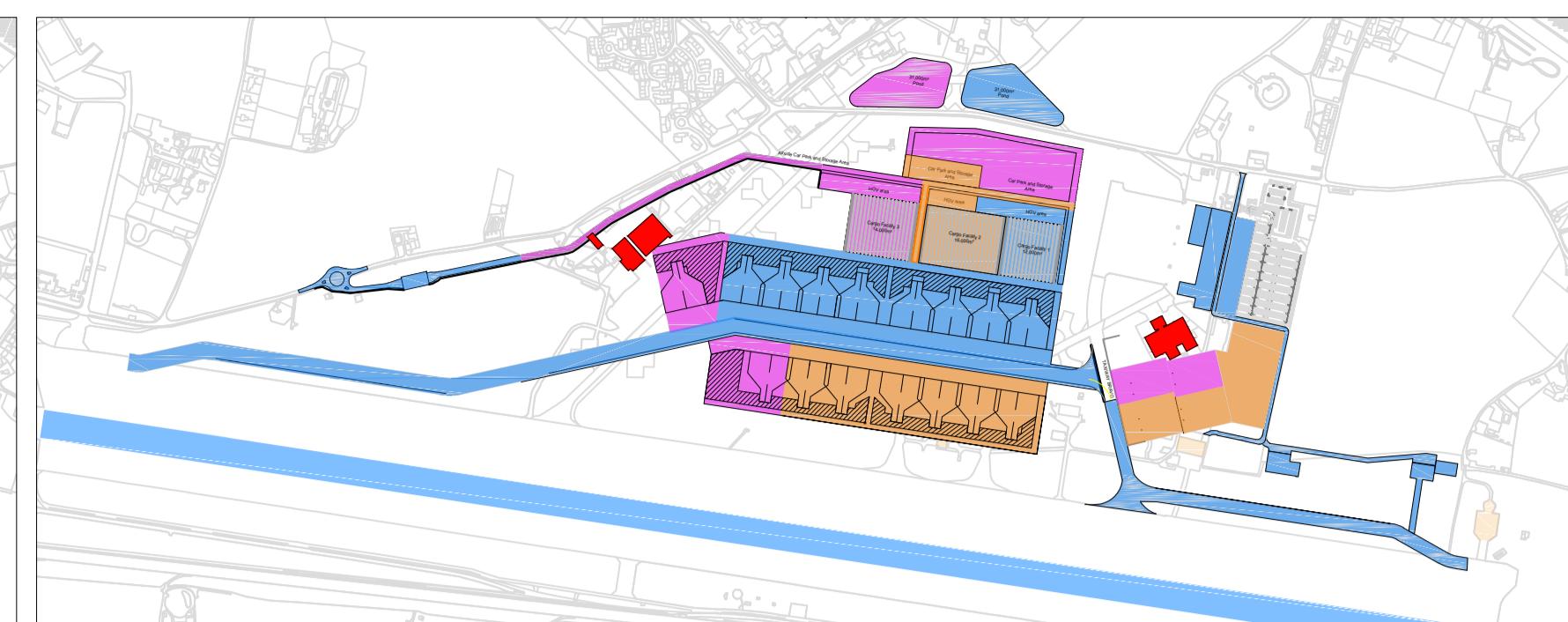
Phase 1

Scale 1:12,500



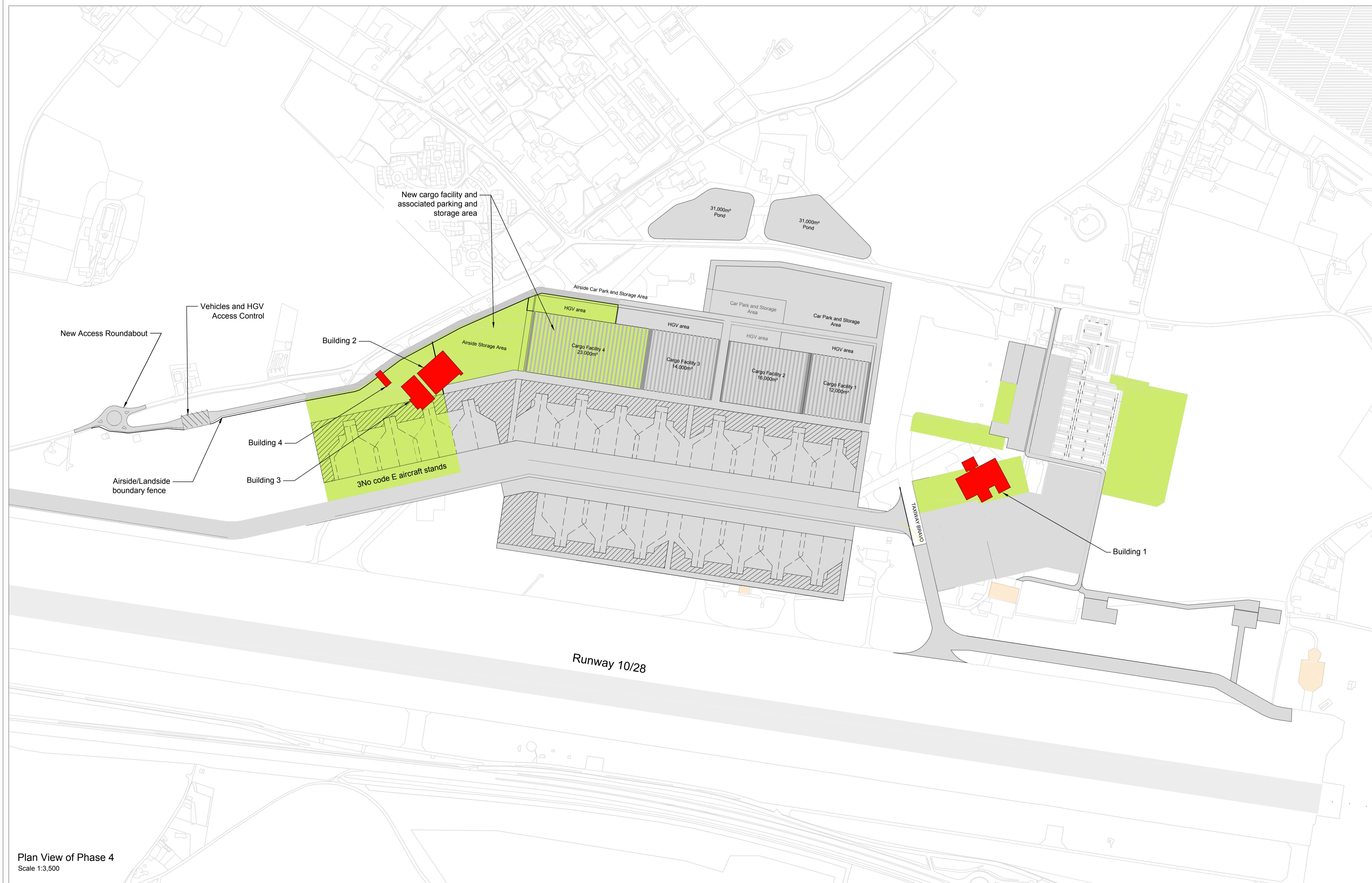
Phase 2

Scale 1:12,500



Phase 3

Scale 1:12,500

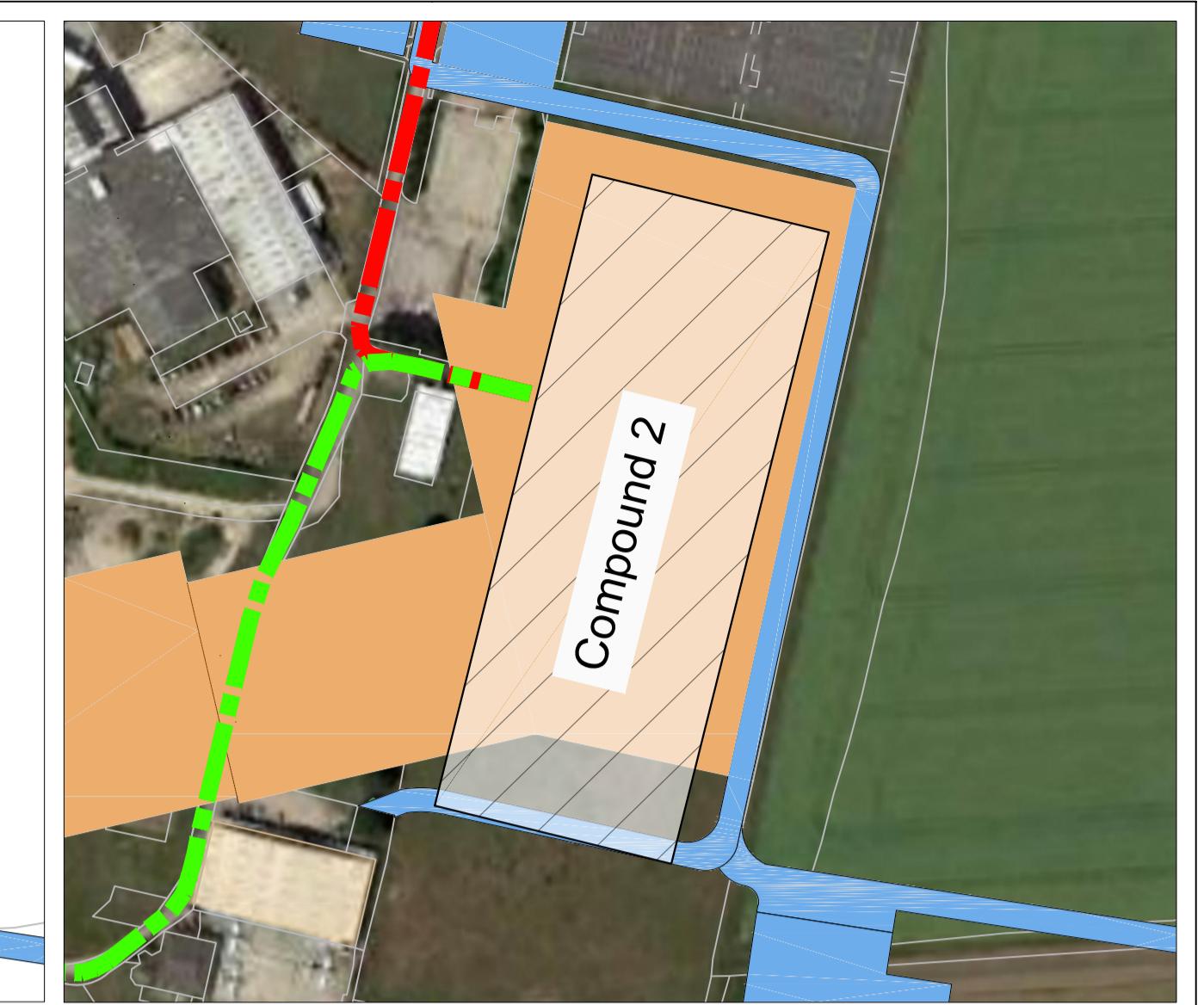
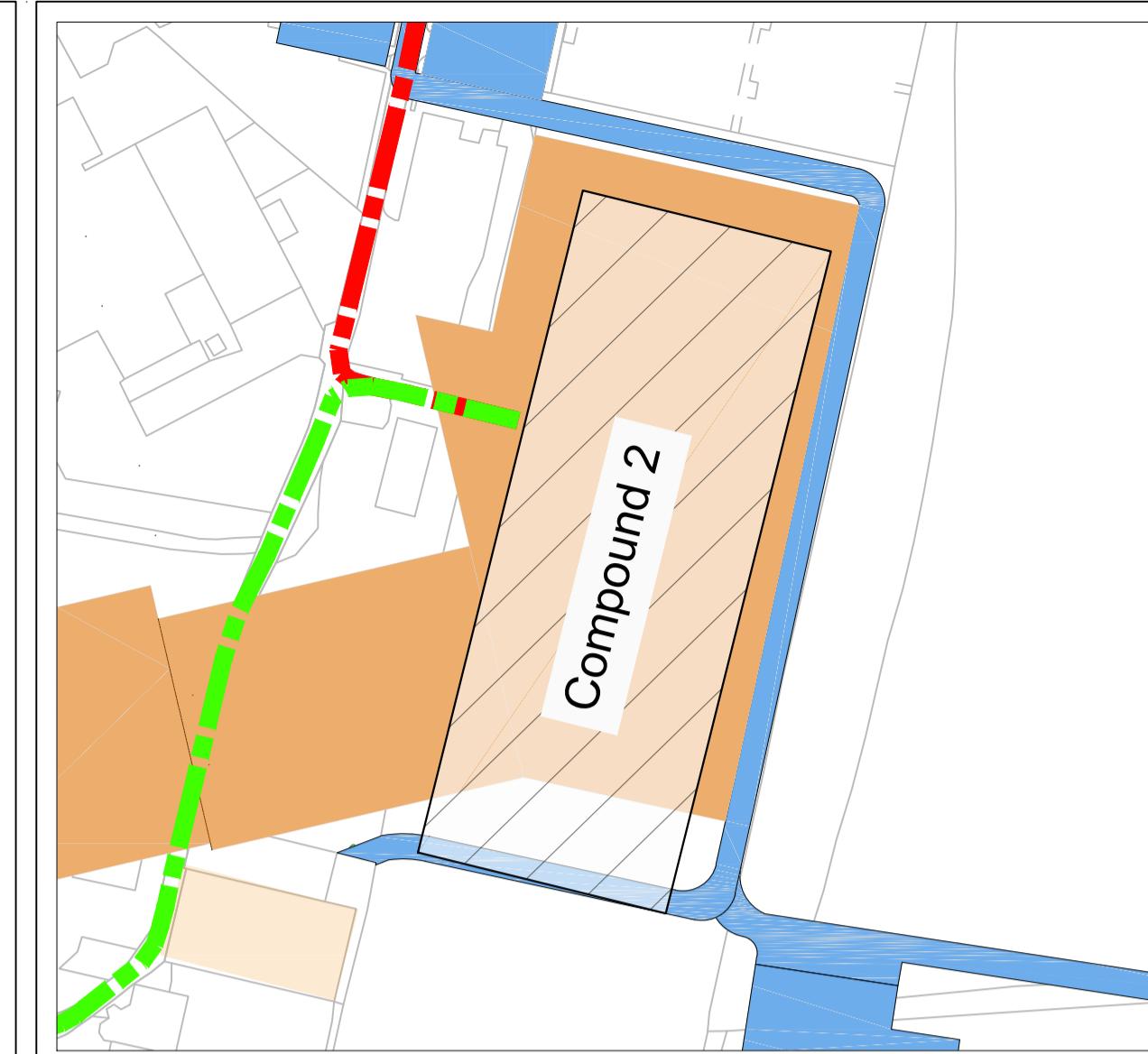
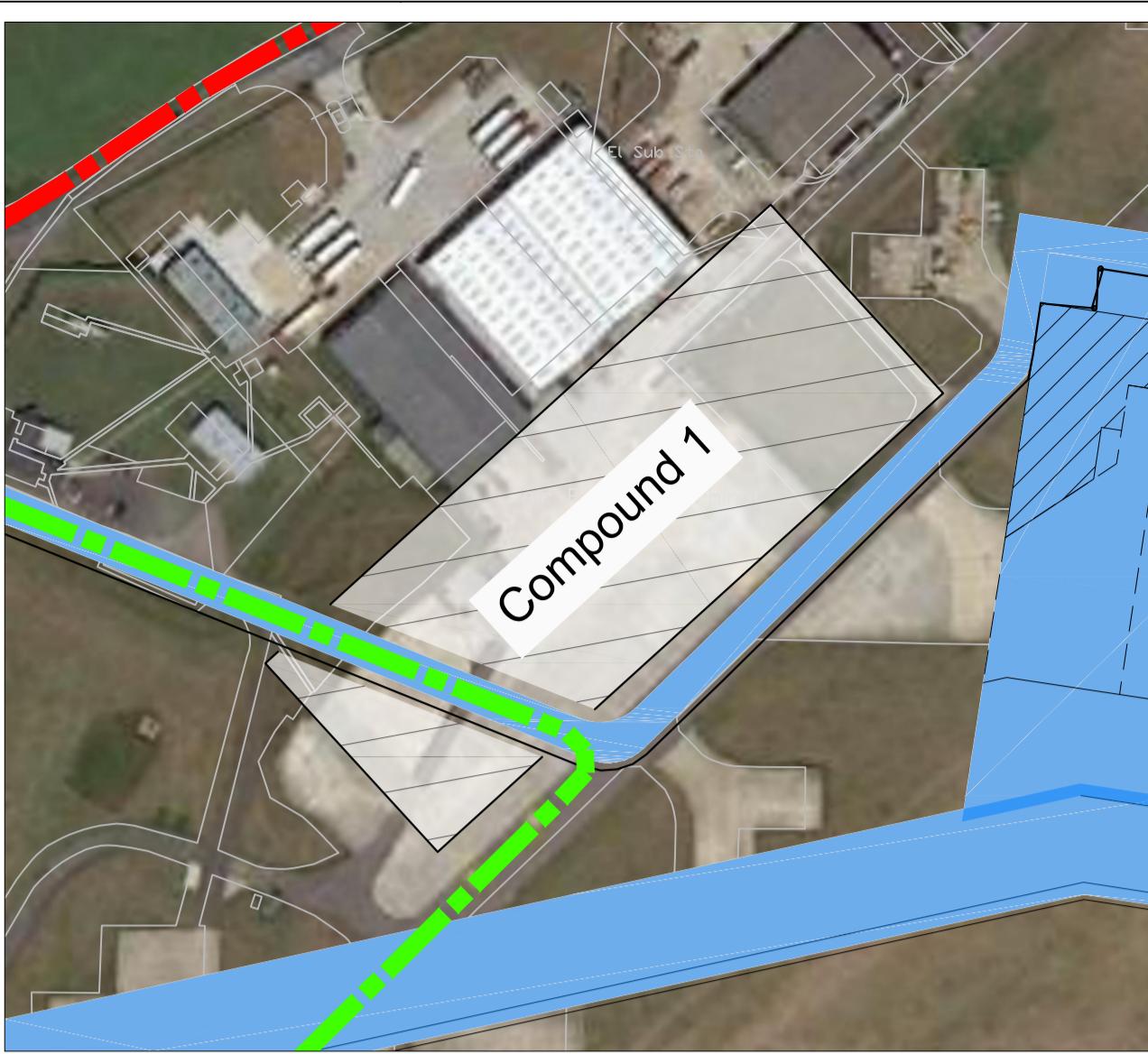
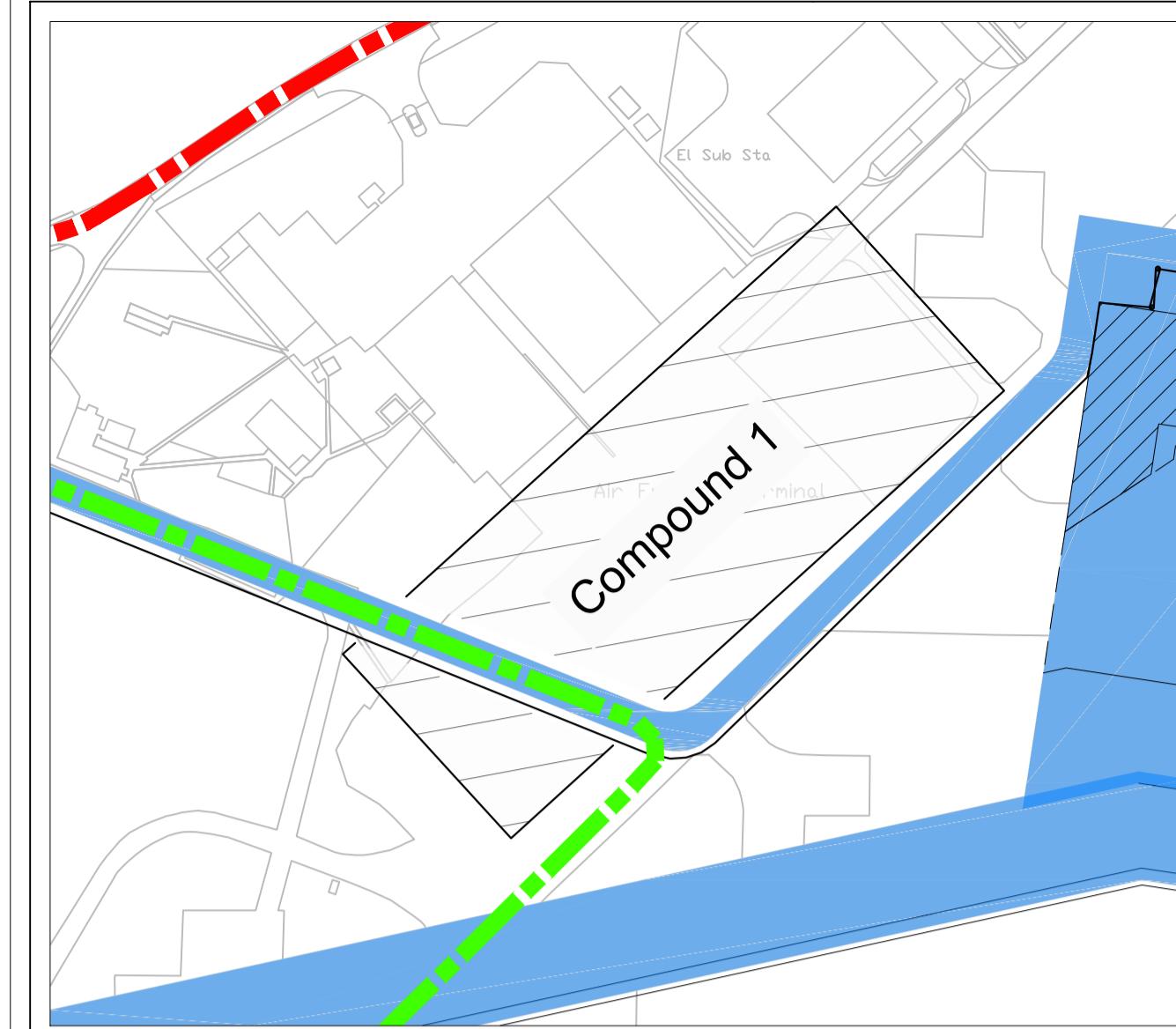
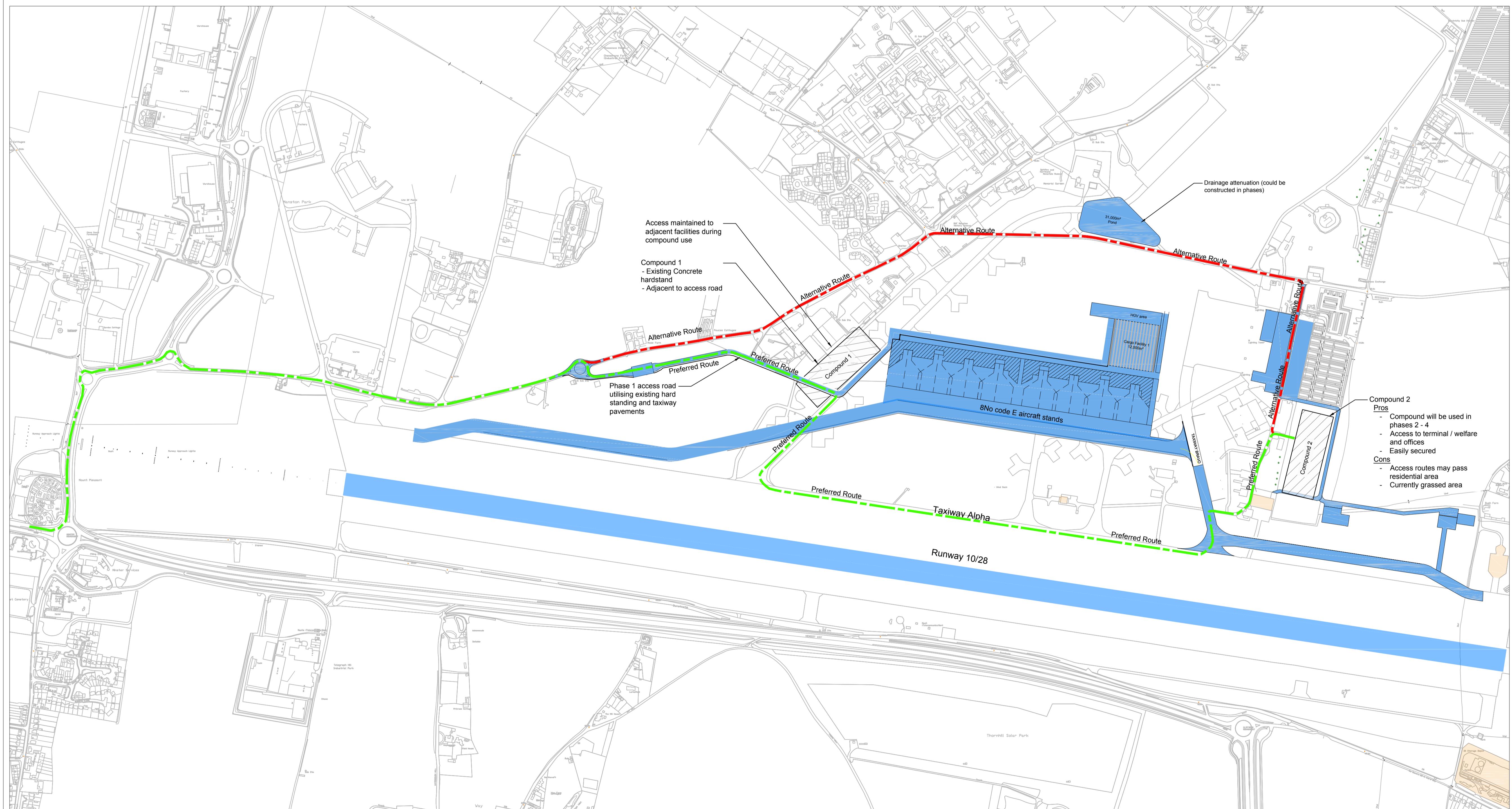


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- This drawing should be read in conjunction with all other relevant drawings and specifications.
- Aerial mapping copyright googlemaps 2017

Key

- Preferred access route
- Alternative access route
- Proposed development during Phase 1
- Potential areas for site compound

Compound 1
Scale 1:2000Compound 2
Scale 1:2000

P04	Annotation amended, compound highlighted for use in Phases 2-4	CJ	JLE	12.05.17
P03	Figure Number Added	TAW	CJ	28.04.17
P02	Note amended	RS	CJ	27.03.17
P01	First Issue.	RS	CJ	02.03.17
Rev	Description	By	Ckd	Date

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Client RSP

Project Manston Airport Masterplan

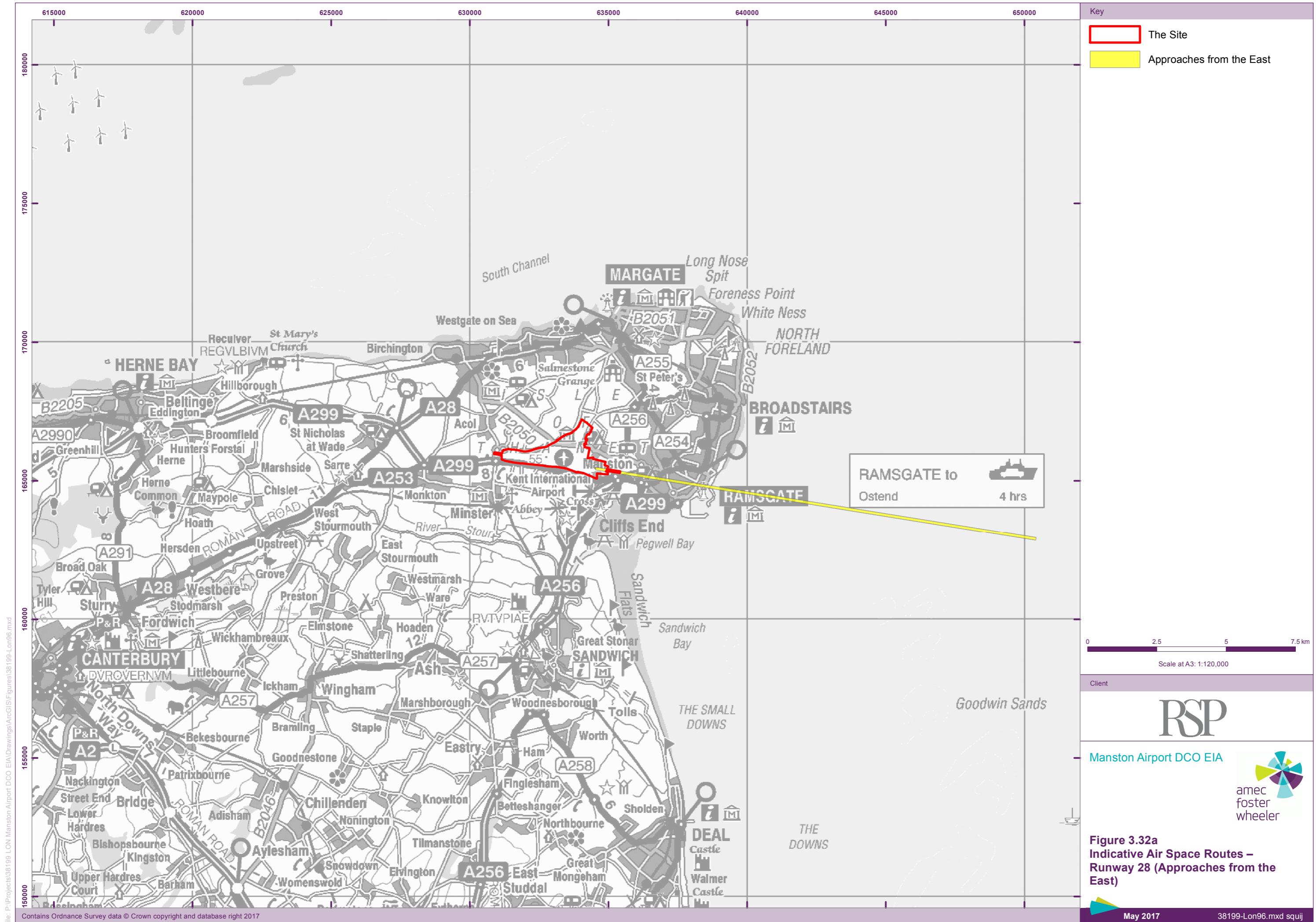
Title Phase 1
Construction Operations

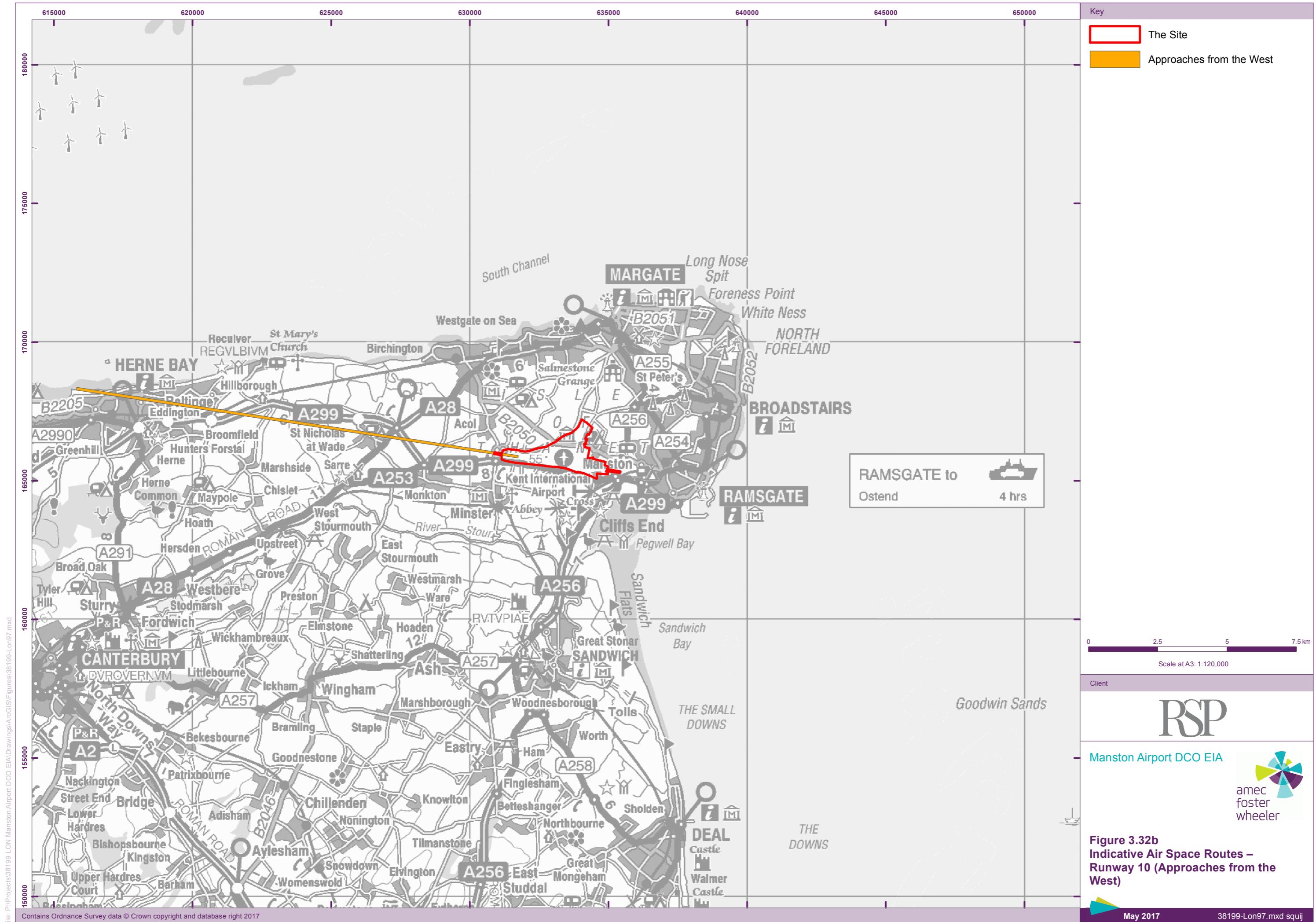
Status Preliminary	Scale As Shown @ A1	Date Created 02.03.2017
Project Leader GD	Drawn By RS	Checked by CJ

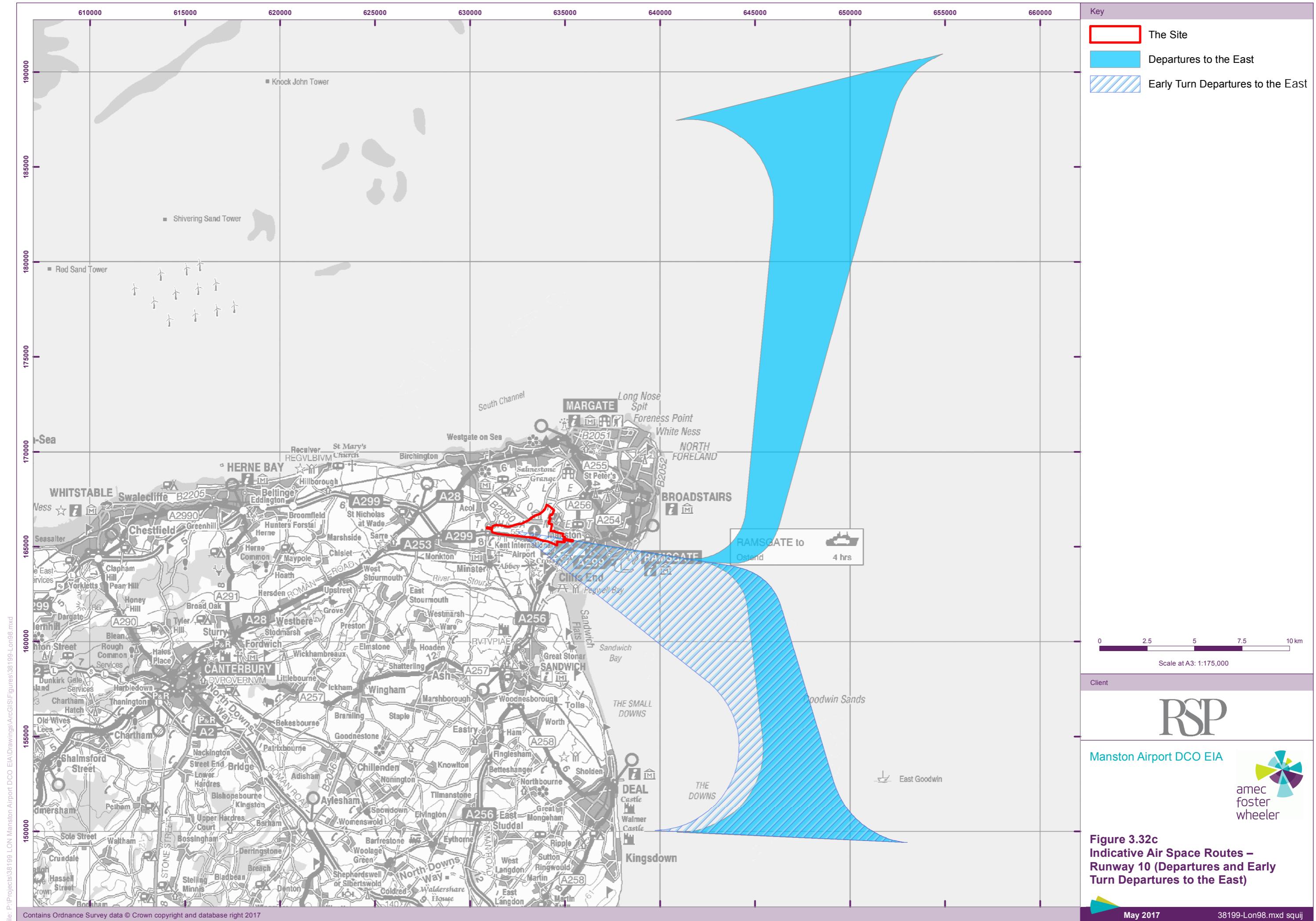
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Project Number	Organize - Zone - Level - Type - Role - Drawing Number	

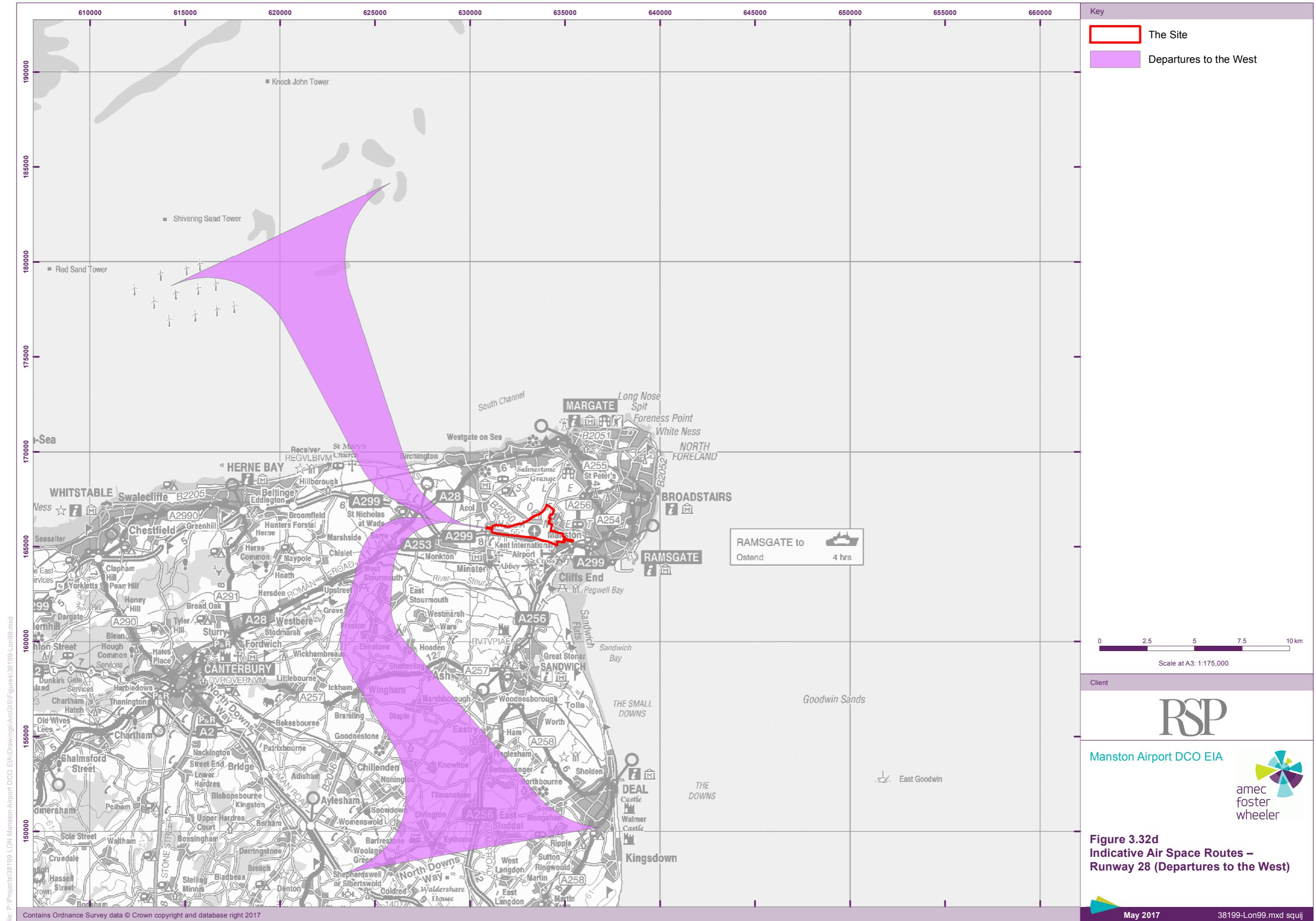
Figure Number 3.31

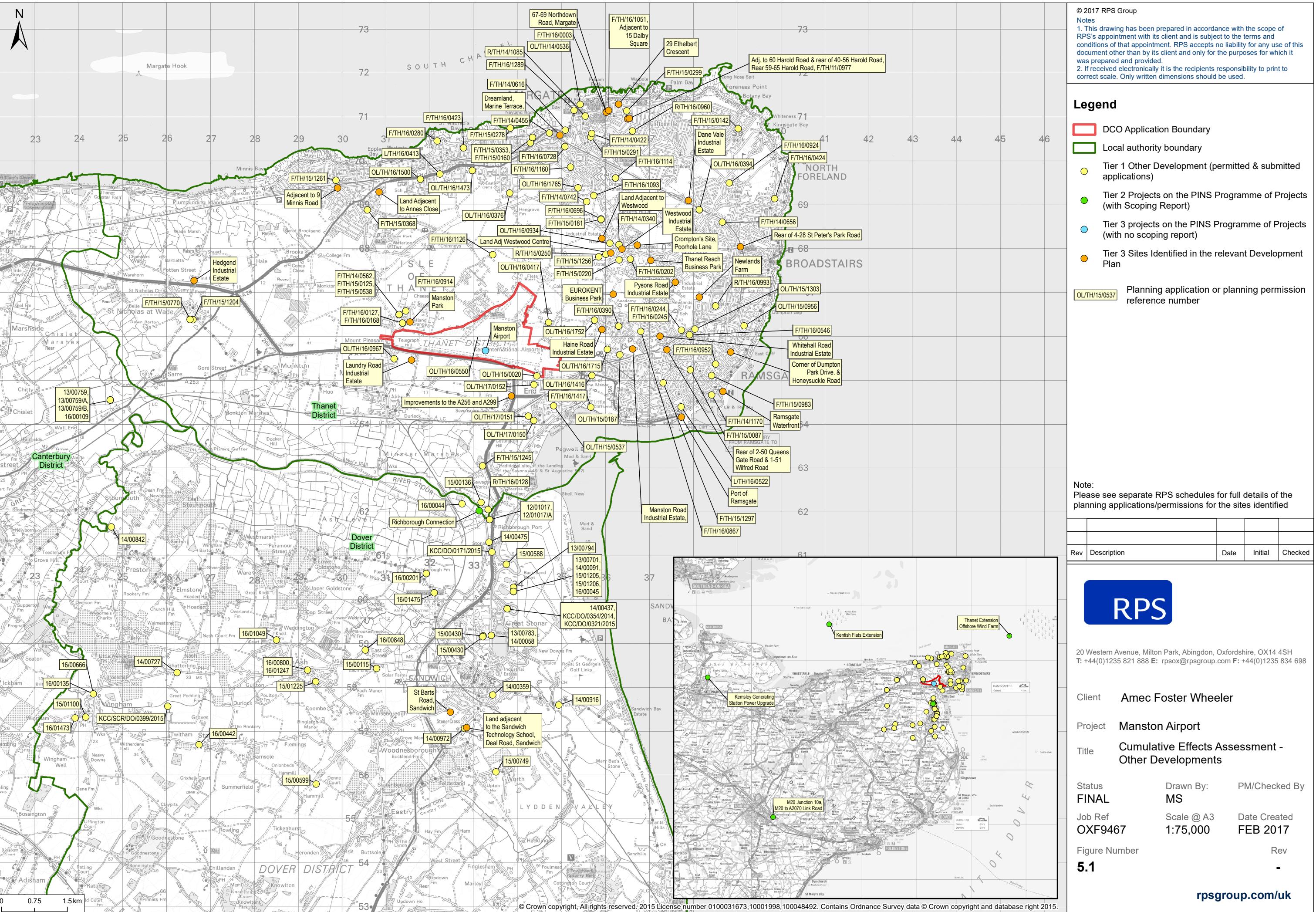
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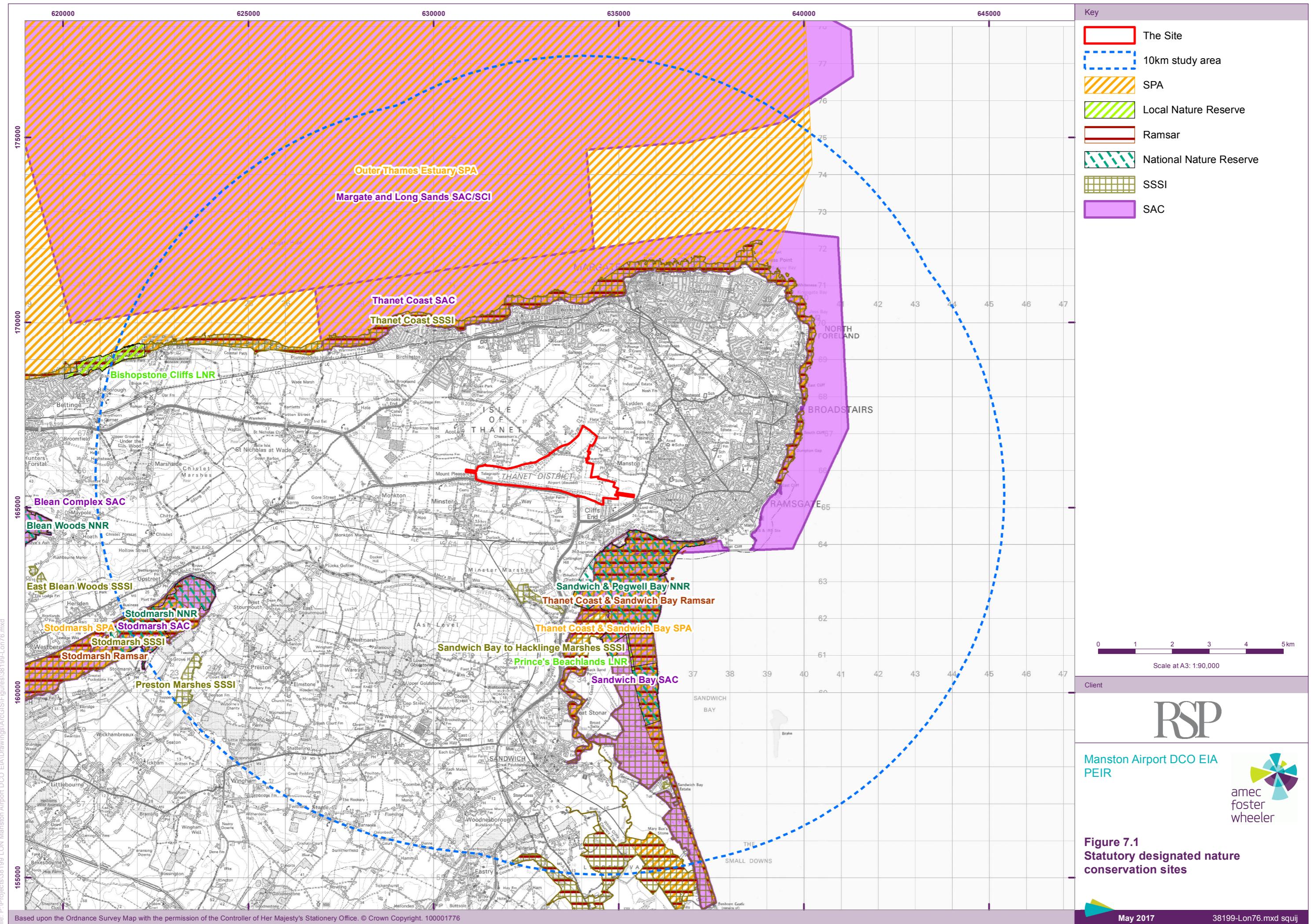


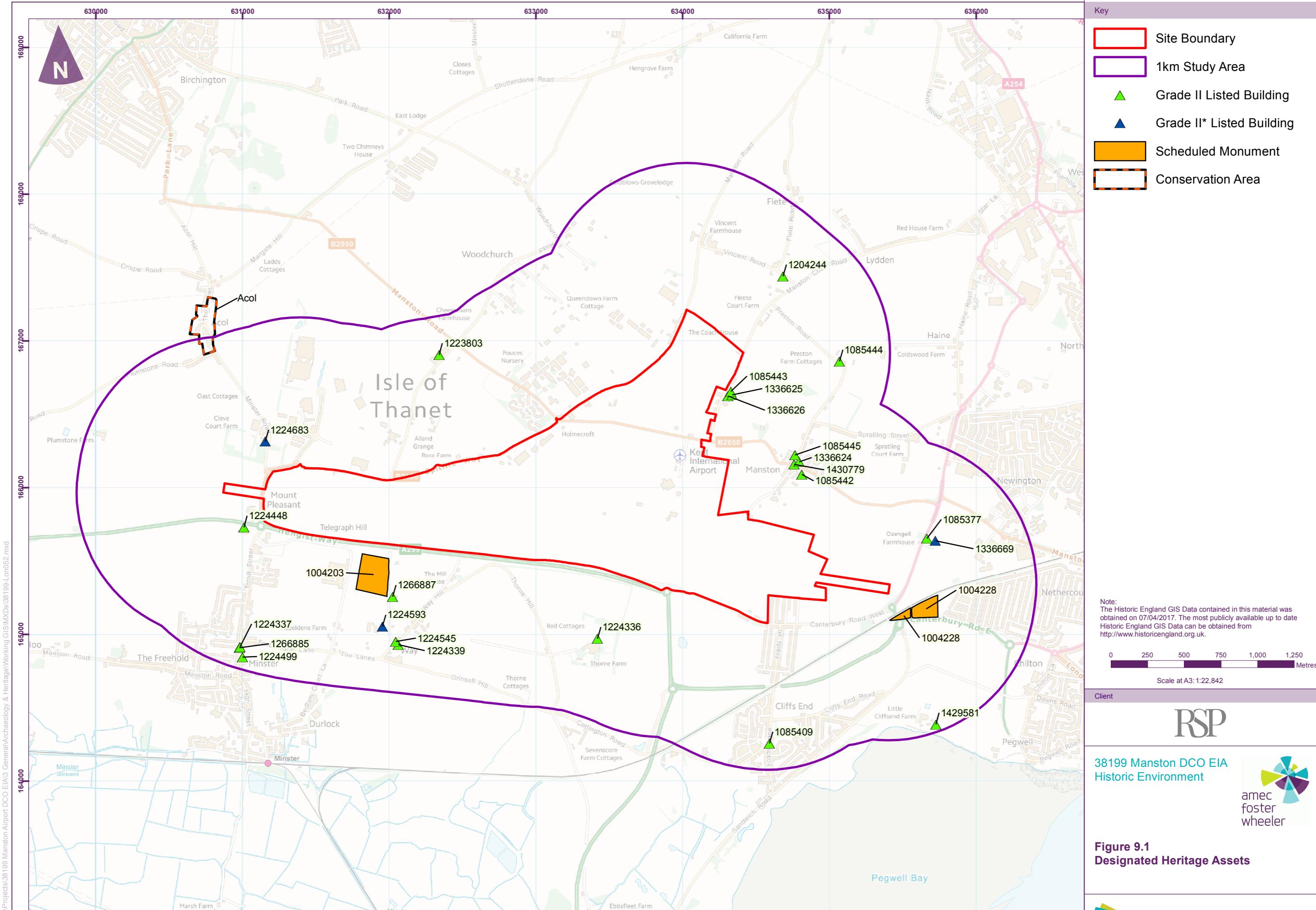


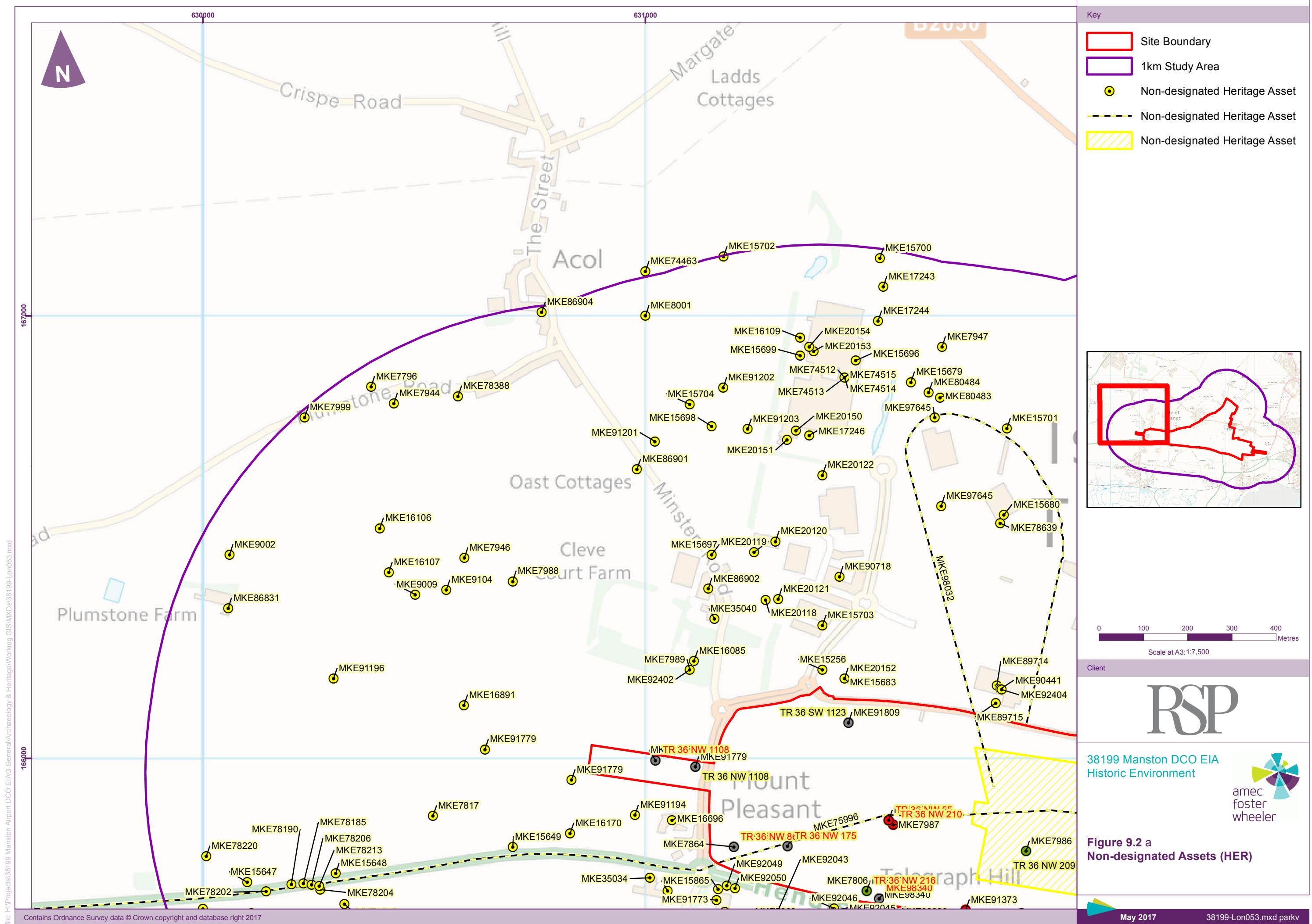


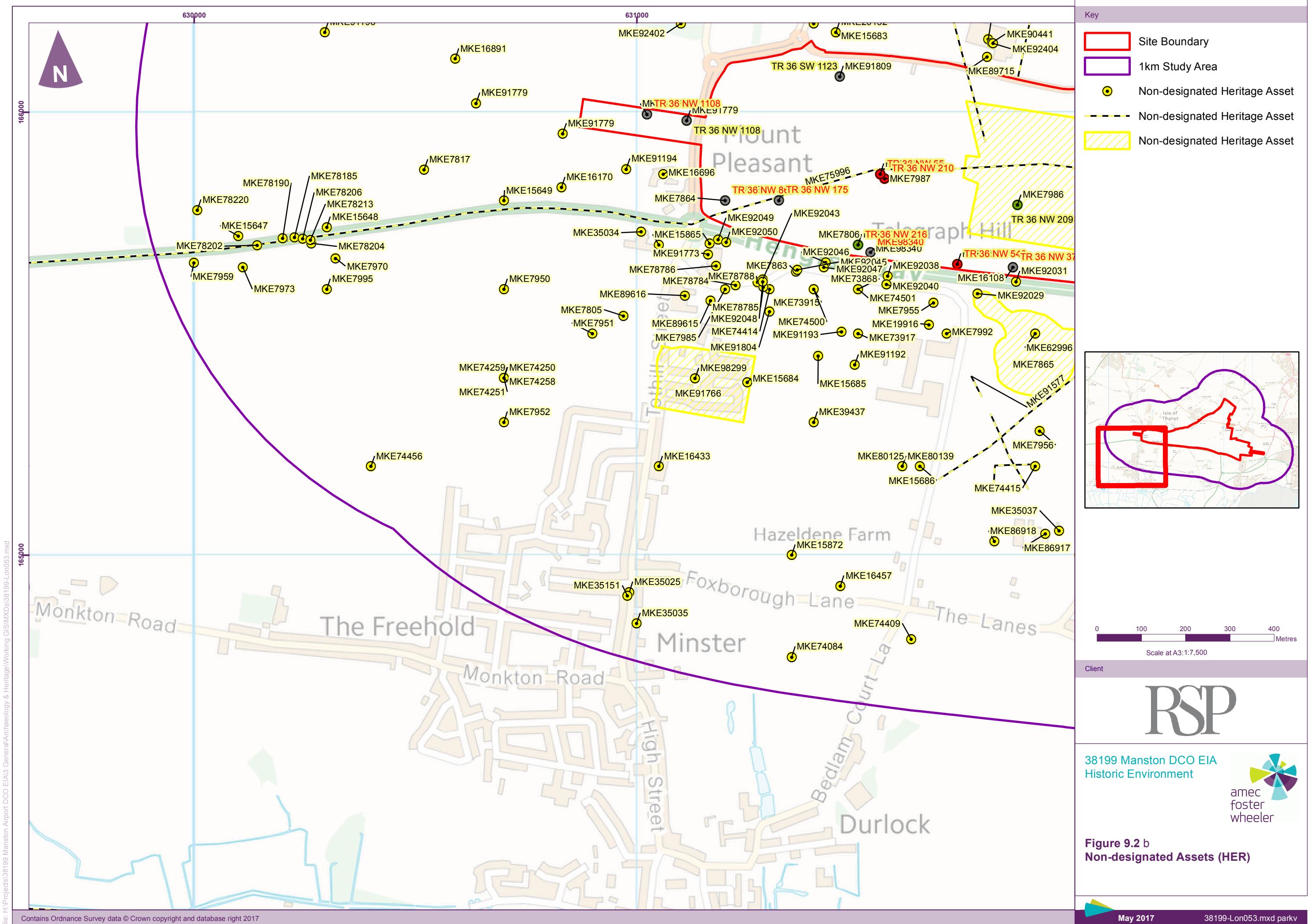


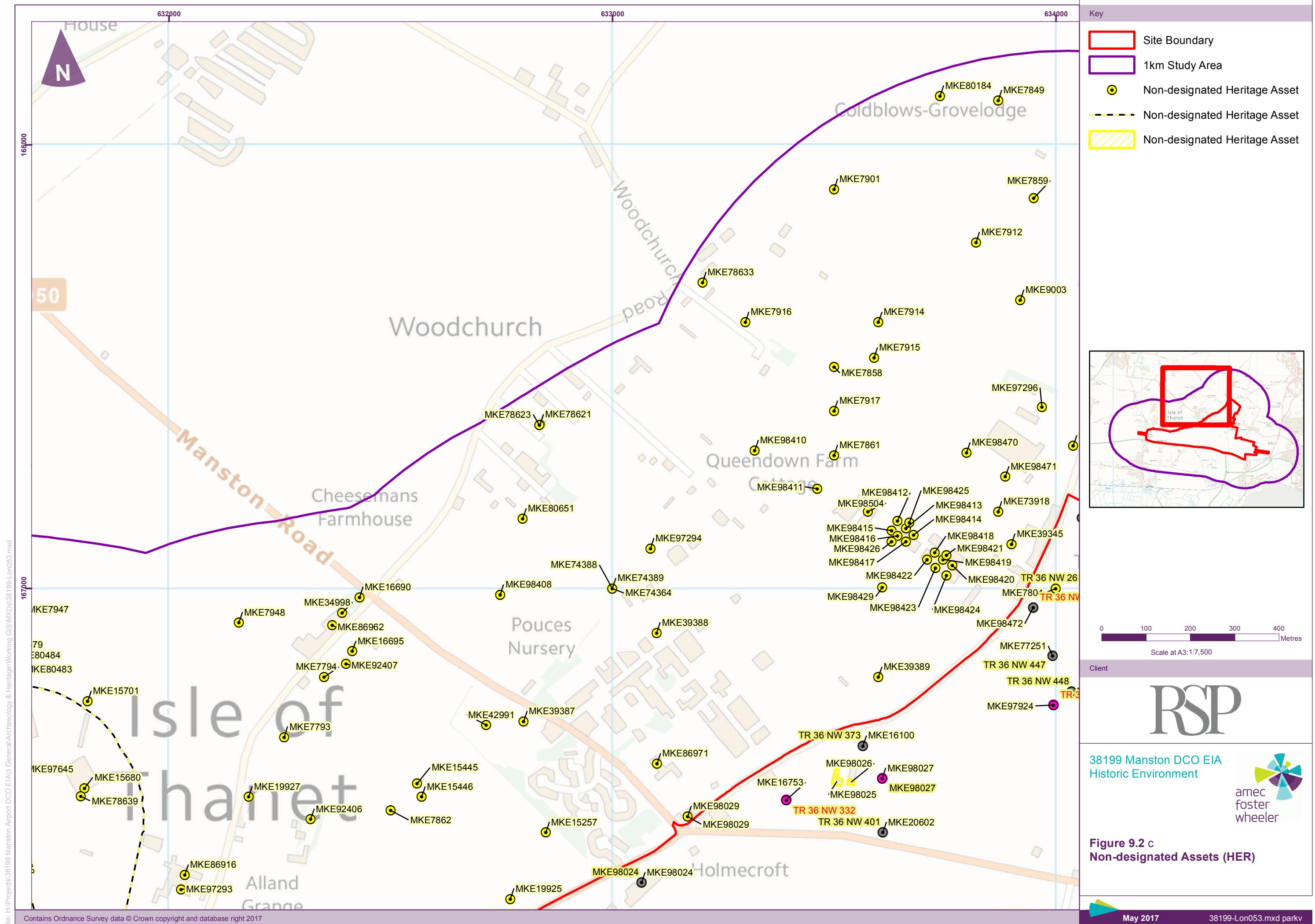


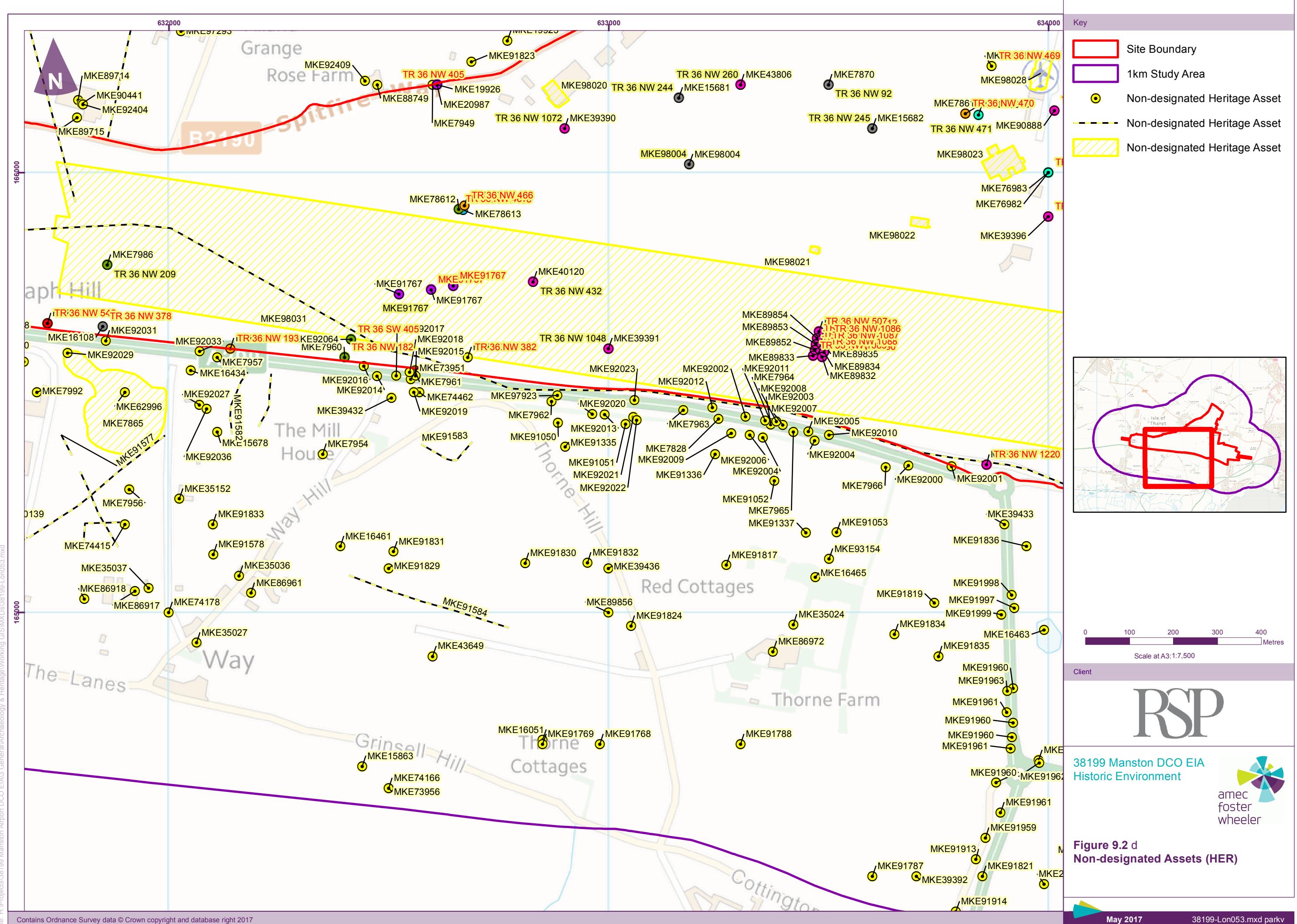


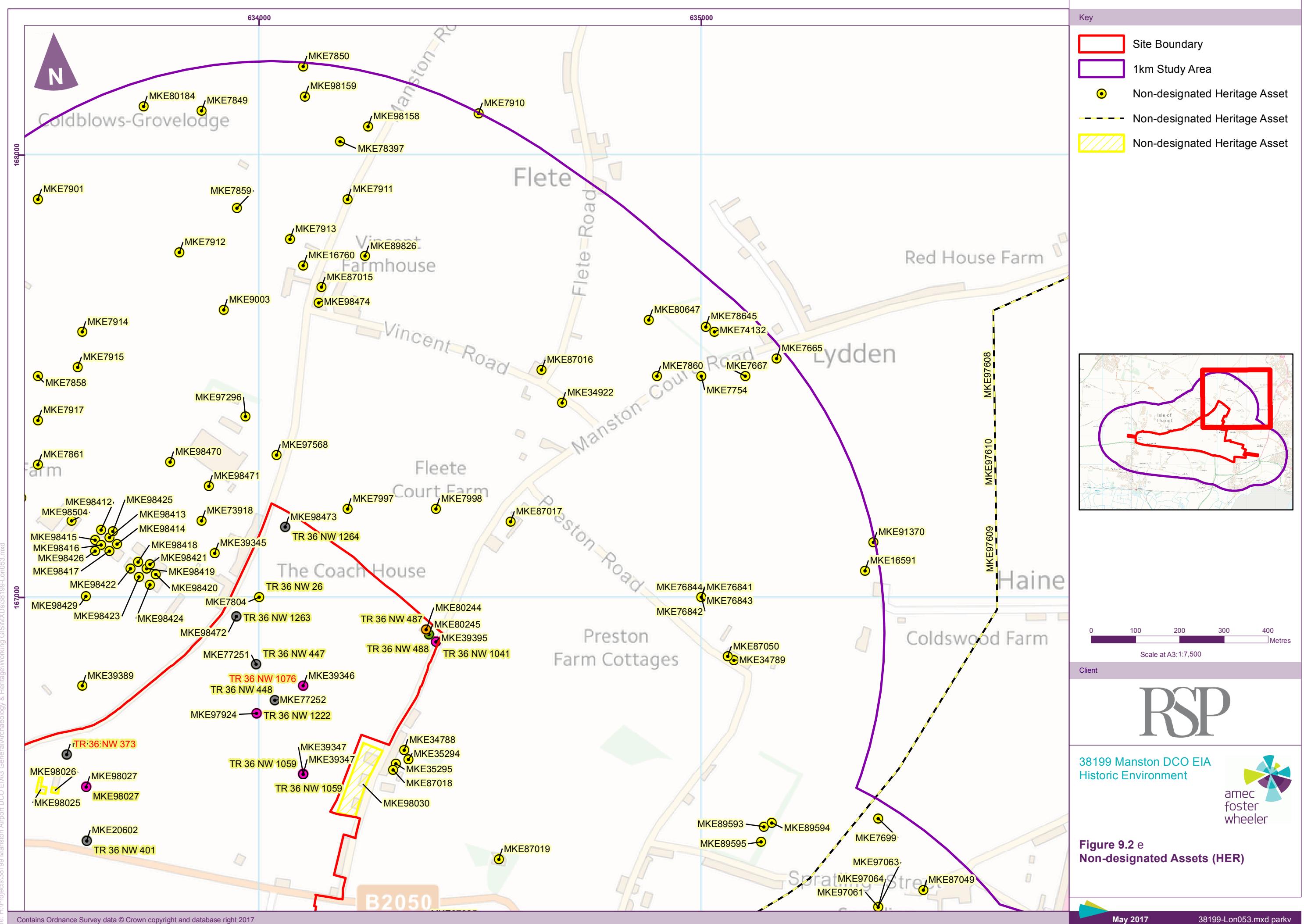


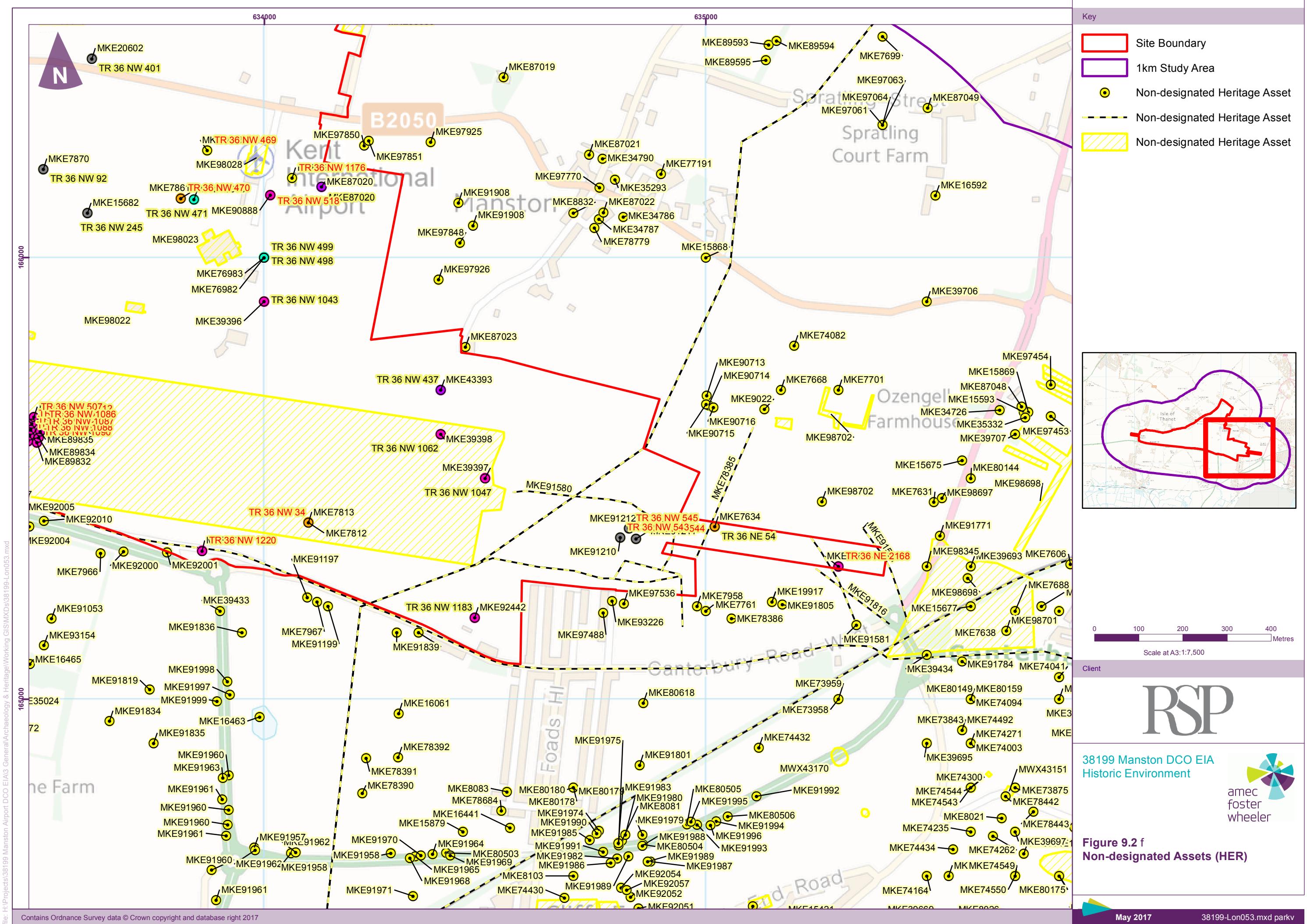


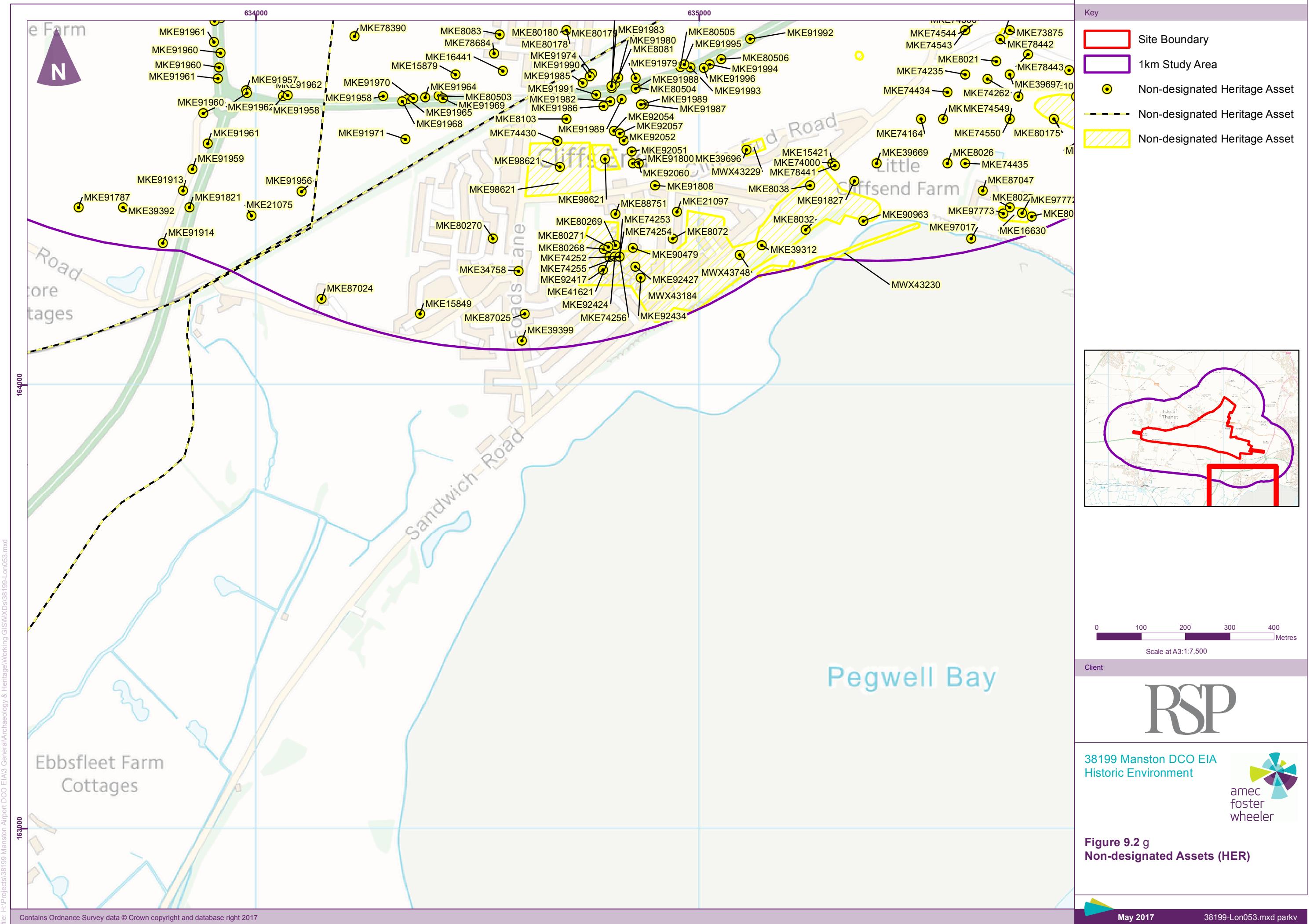


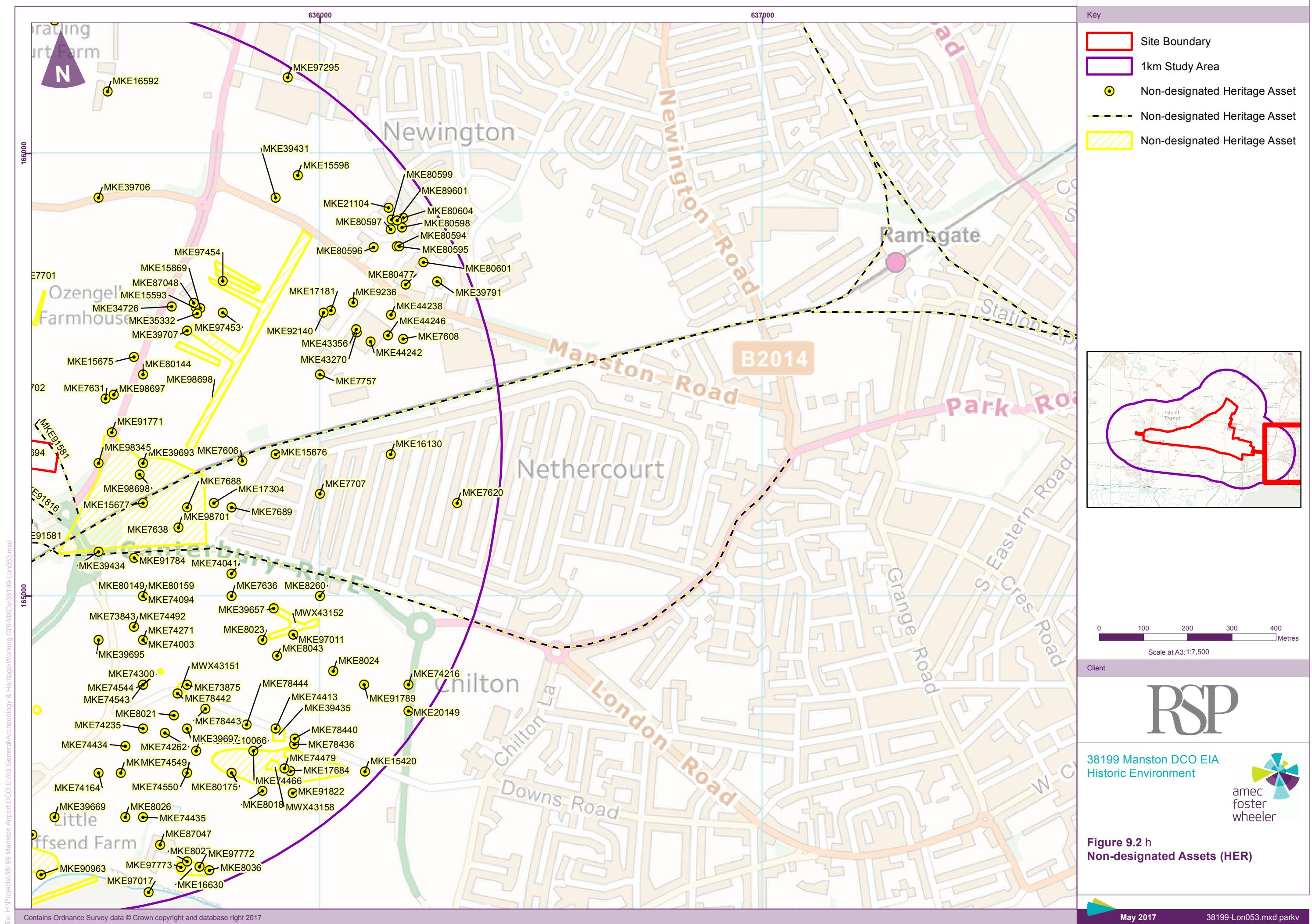


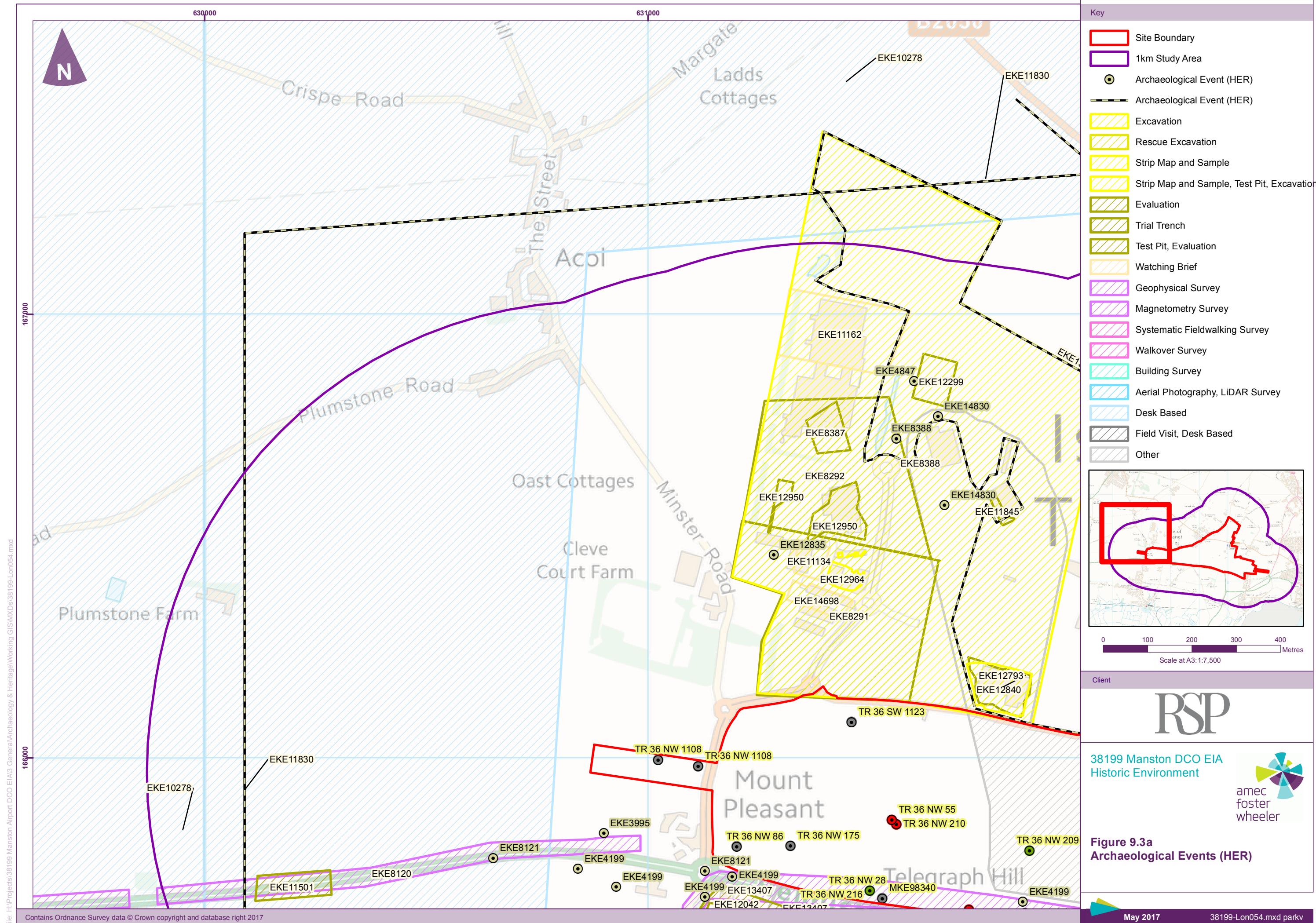


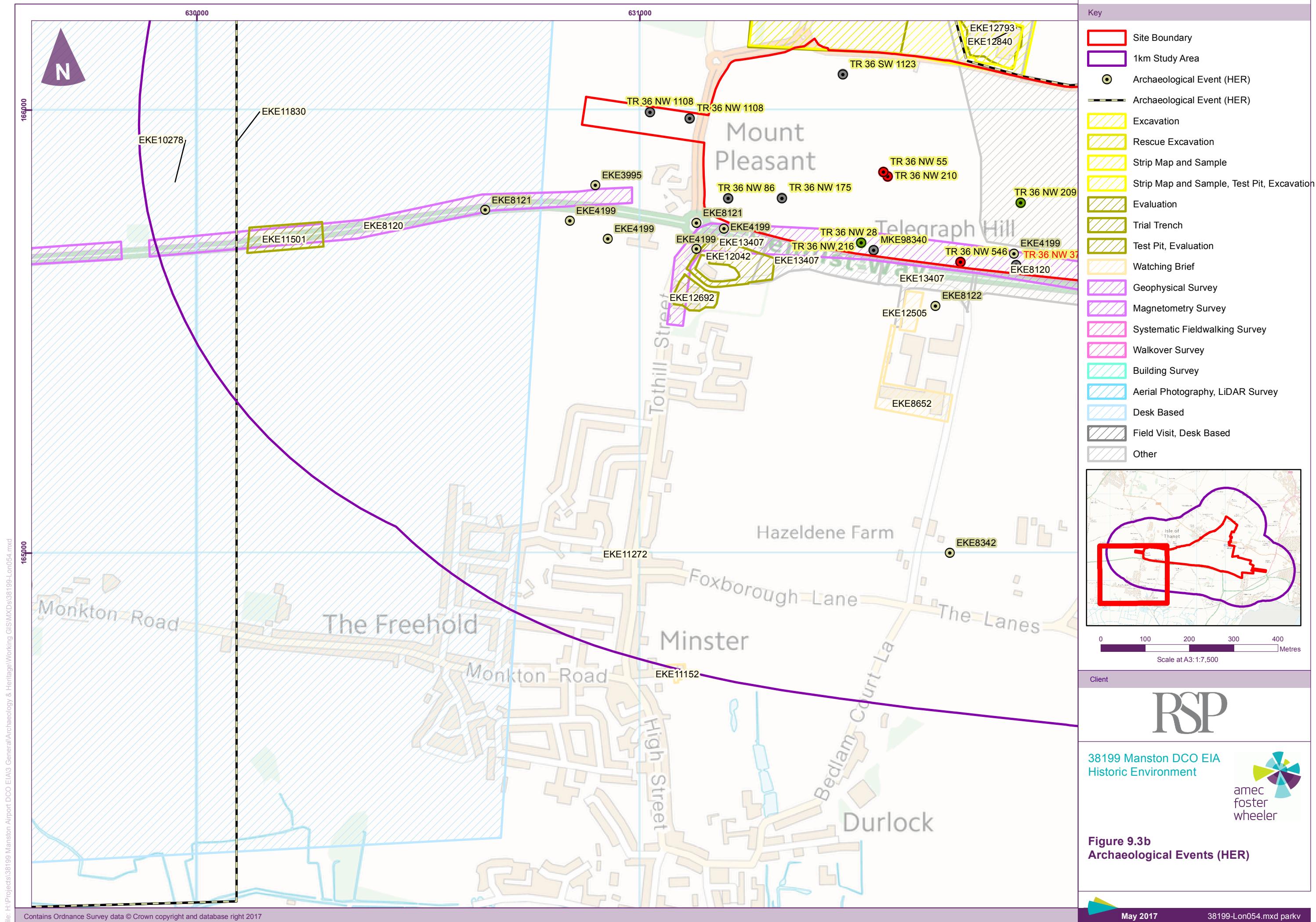


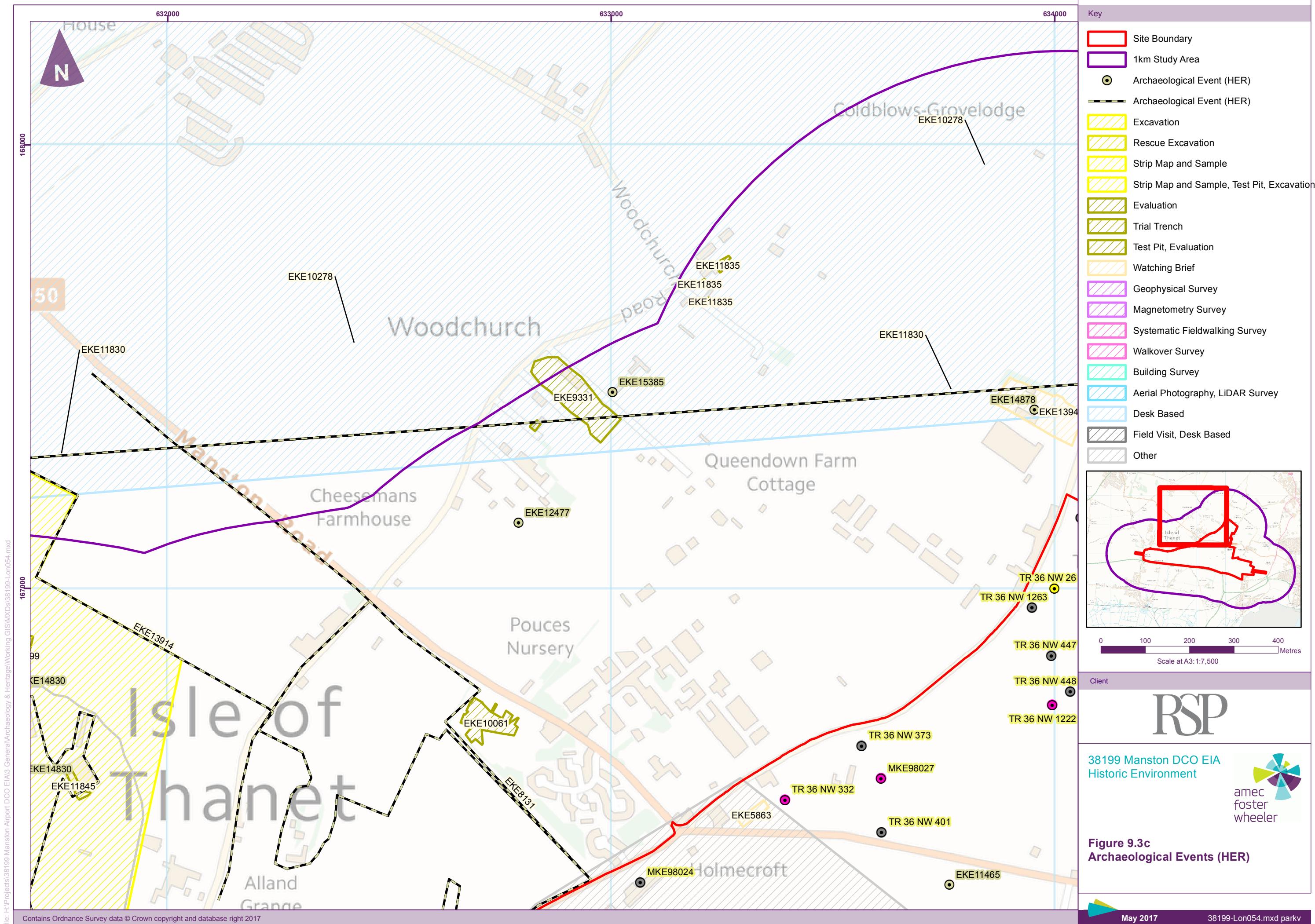


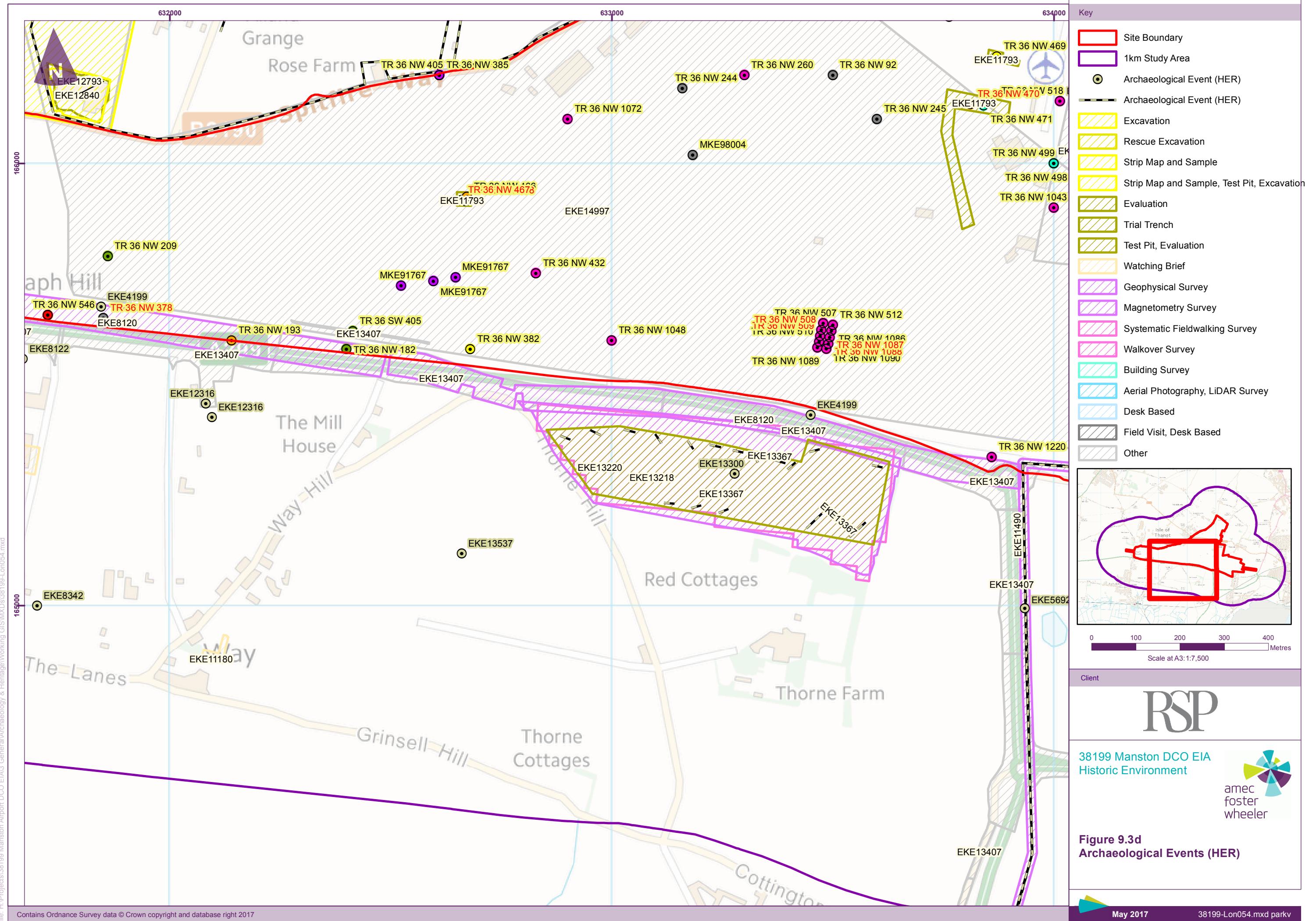


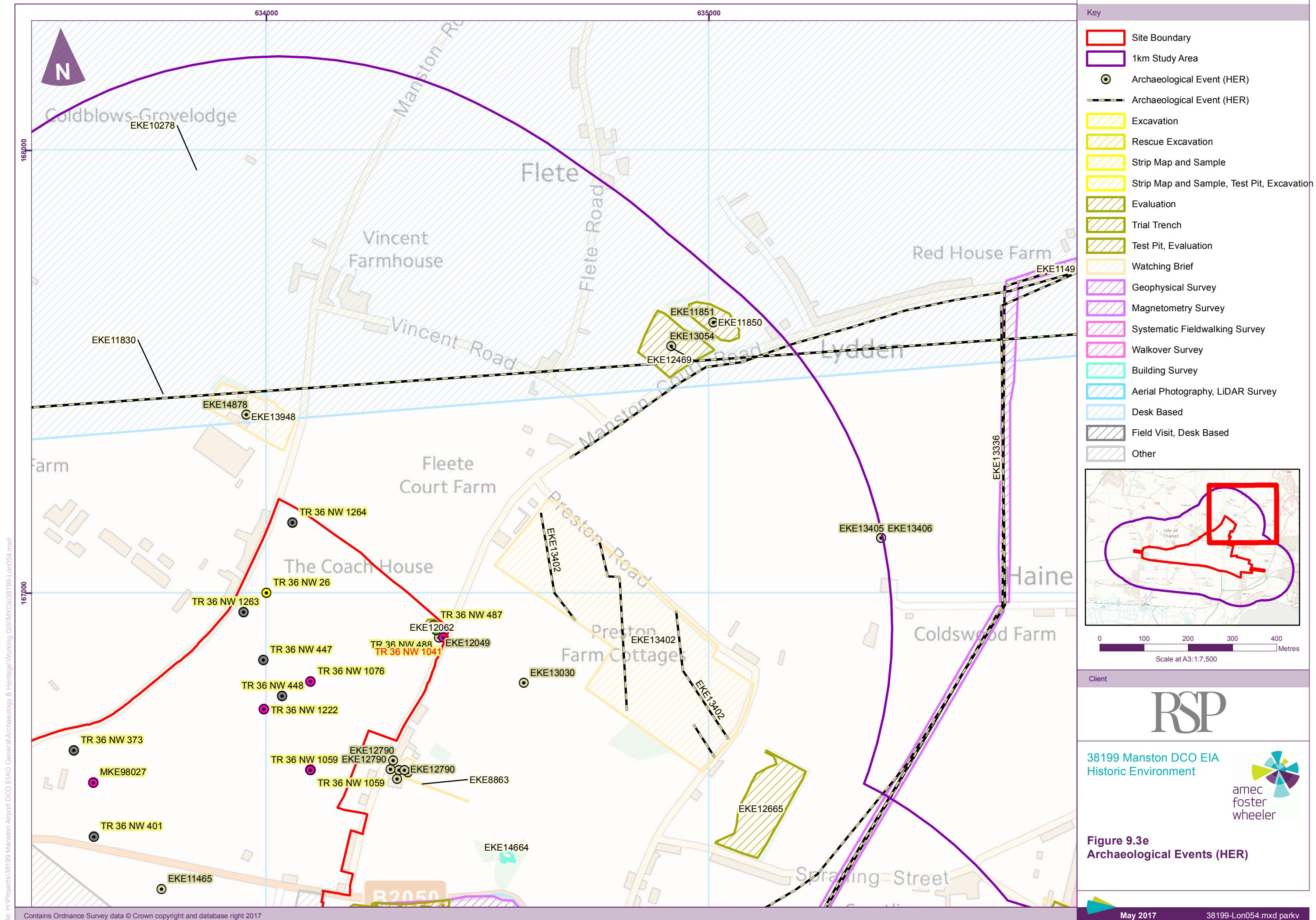


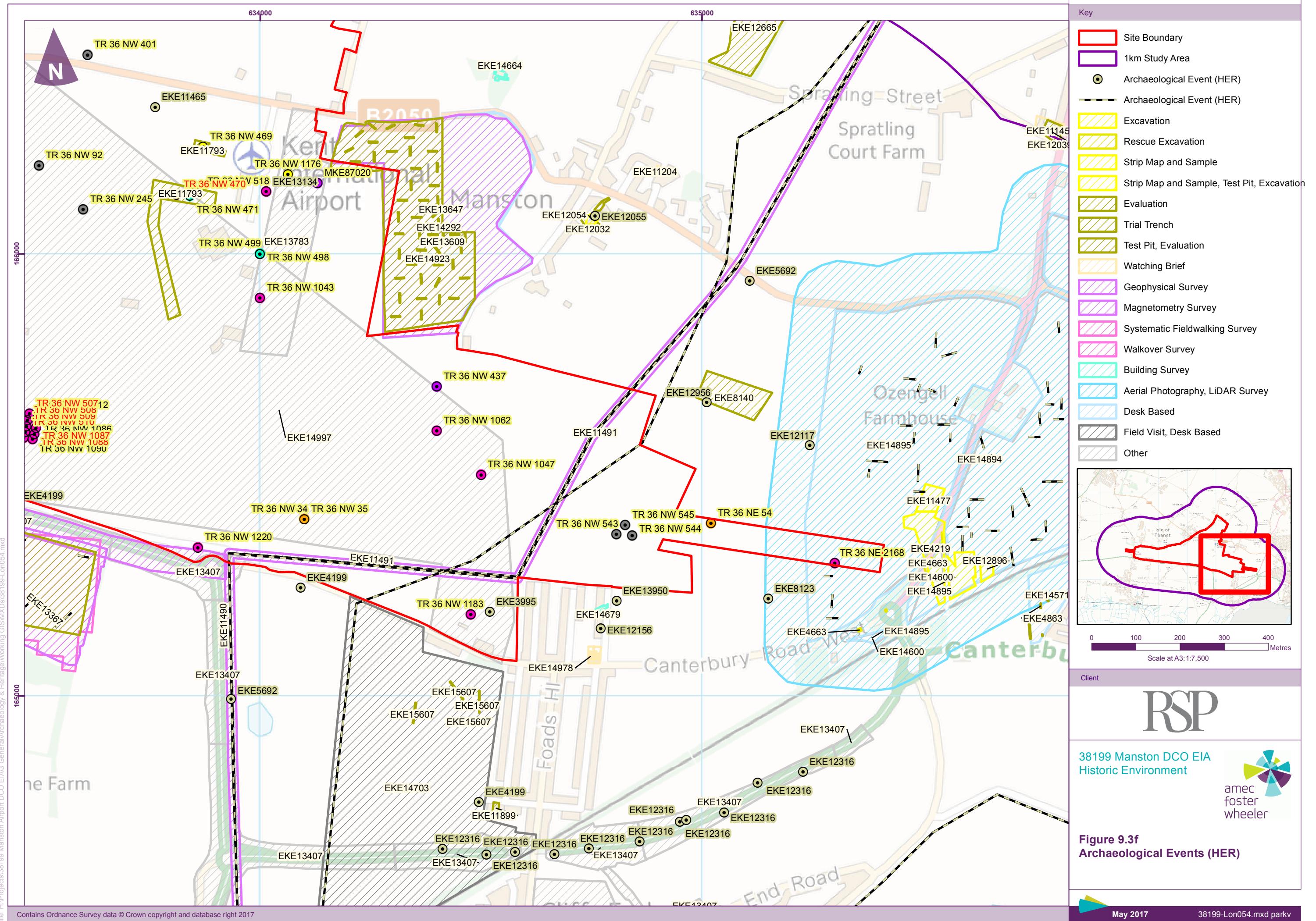


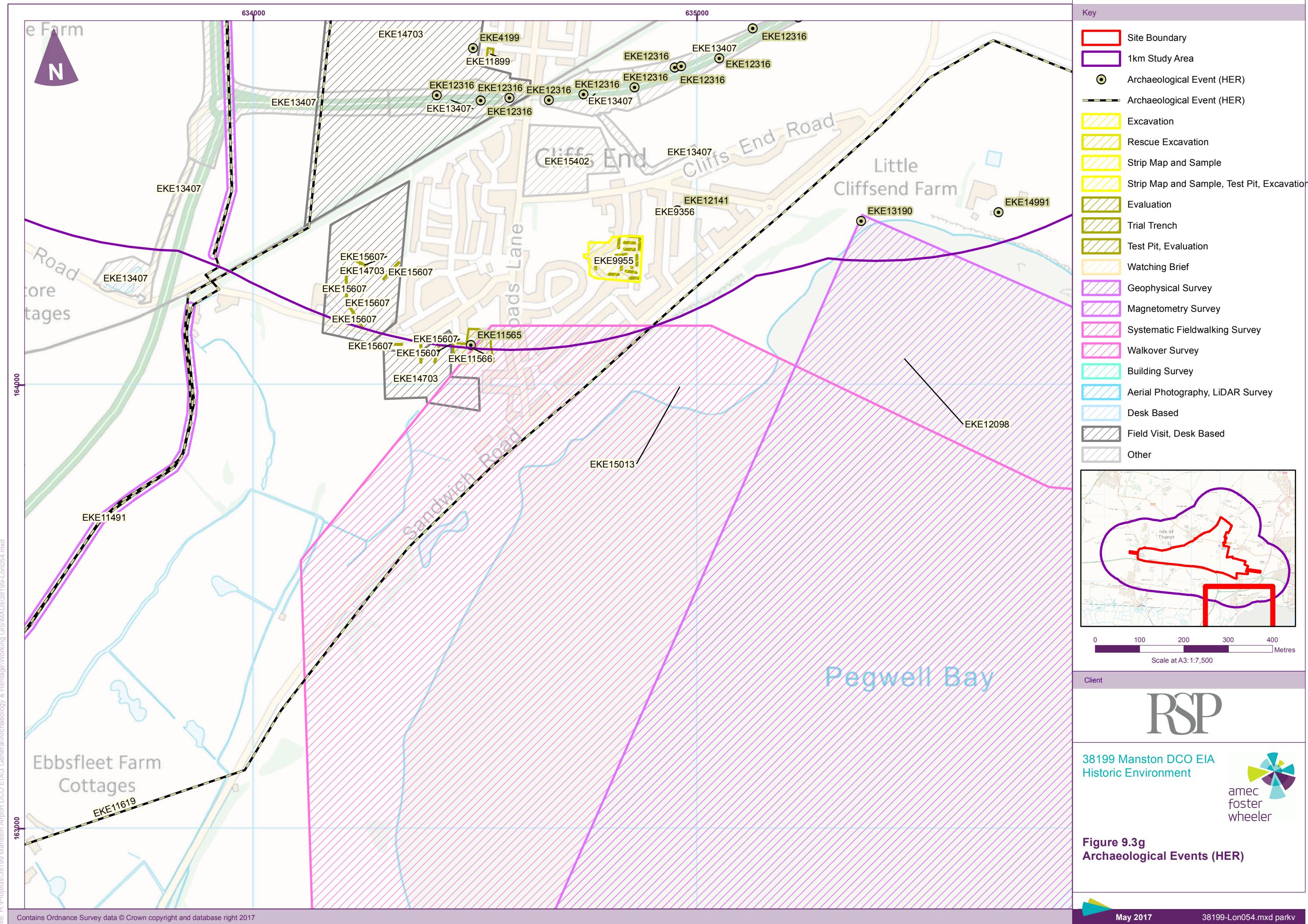


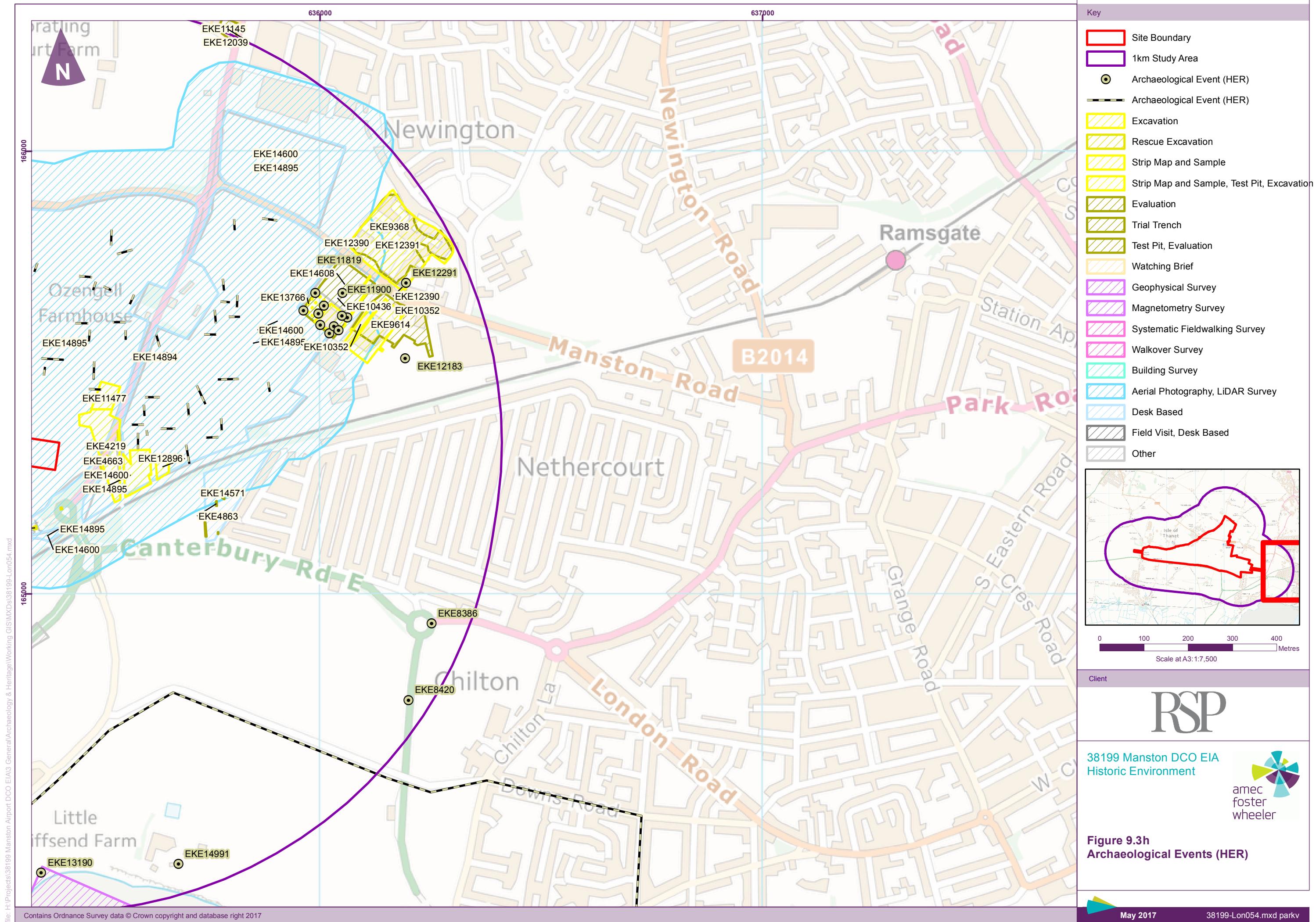


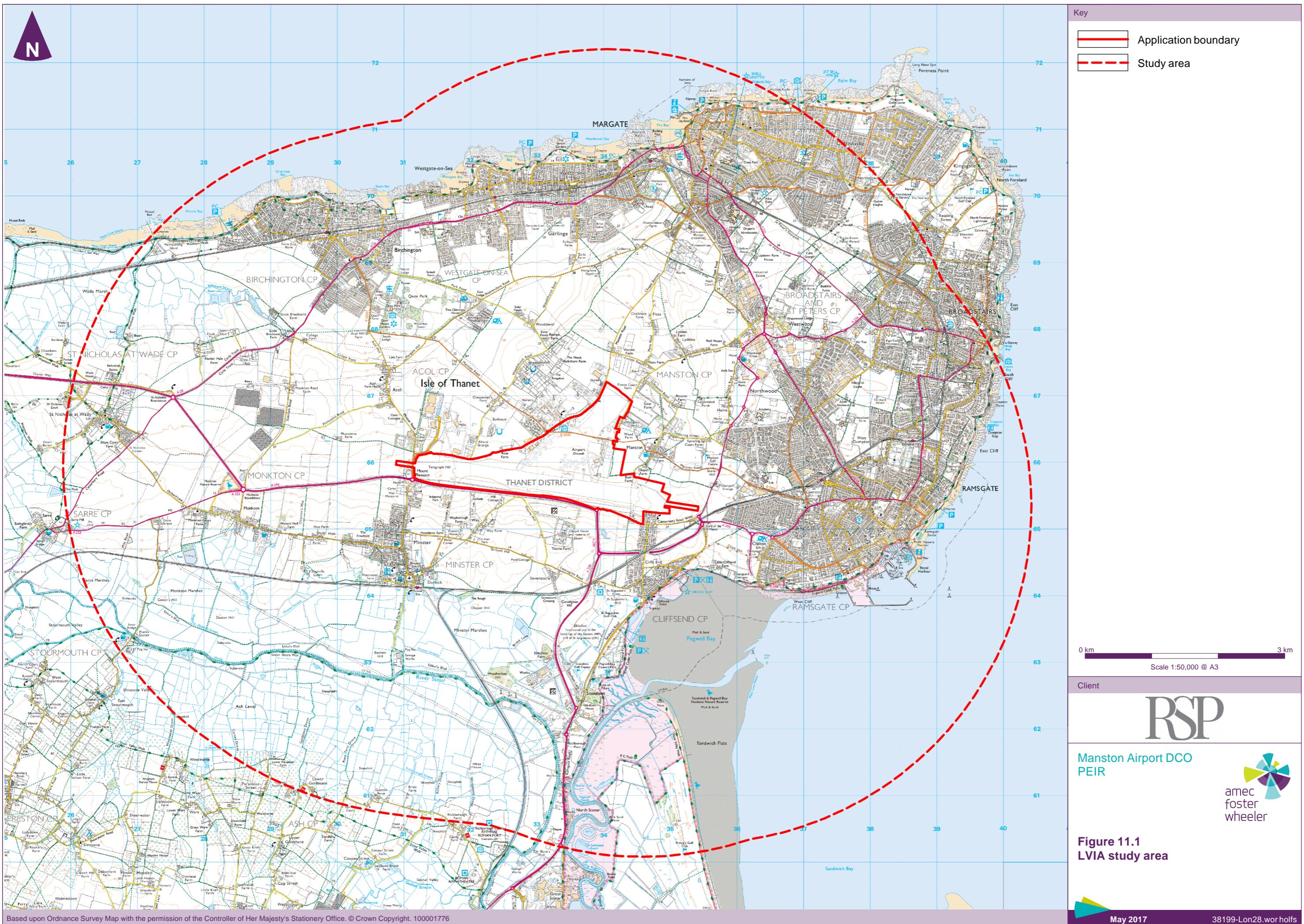






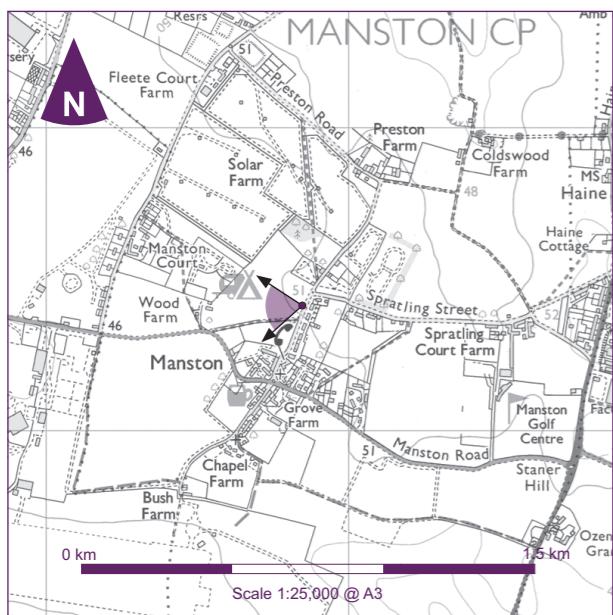








EXTENT OF IMAGE USED FOR VISUALISATION SHOWN ON FIGURE 11.1a



OS reference:
Ground level:
Camera height:
Eye level:
Direction of view:

E634 859, N166 415
51m AOD
1.5m Above Ground Level
52.5m AOD
~266°

Camera:
Lens:
Horizontal field of view:
Viewing distance:
Date and time:

Canon EOS 5D Mk2
50mm (Canon EF 50mm f/1.8)
75° (cylindrical projection)
300mm
14/11/2016 12:46

RSP
Manston Airport DCO
PEIR

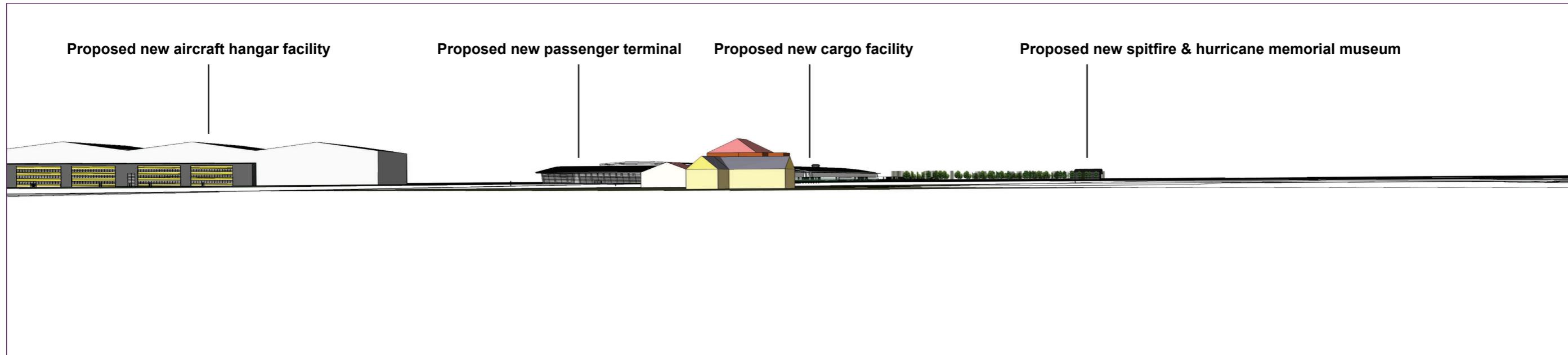
Figure 11.1a
Visualisation 1: View west from northern Manston baseline photography



Note:
The dotted white lines represent the outline of the proposed new development.
These new elements would be located behind the trees and structures visible in the mid-ground of this view. Details of the new elements are provided on Figure 1c

OS reference:	E634 859, N166 415	Camera:	Canon EOS 5D Mk2
Ground level:	51m AOD	Lens:	50mm (Canon EF 50mm f/1.8)
Camera height:	1.5m Above Ground Level	Horizontal field of view:	39.6° (planar projection)
Eye level:	52.5m AOD	Viewing distance:	500mm
Direction of view:	~266°	Date and time:	14/11/2016 12:46

Figure 11.1b
Visualisation 1: View west from northern Manston



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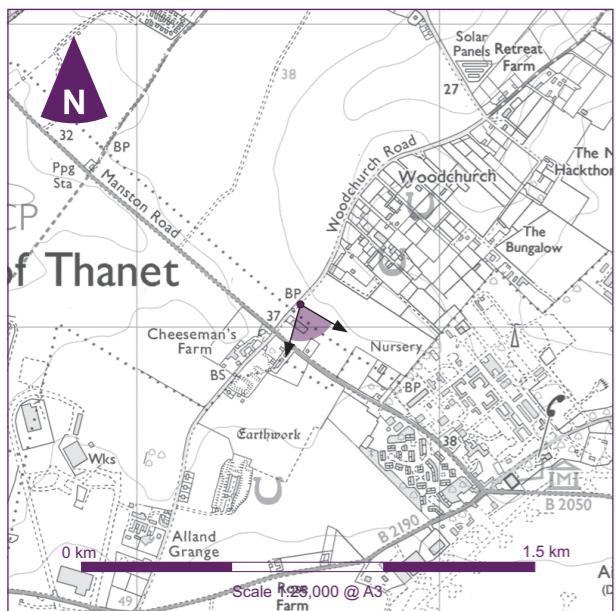


Figure 11.1.c
Visualisation 1: View west from northern Manston

OS reference:	E634 859, N166 415	Camera:	Canon EOS 5D Mk2
Ground level:	51m AOD	Lens:	50mm (Canon EF 50mm f/1.8)
Camera height:	1.5m Above Ground Level	Horizontal field of view:	39.6° (planar projection)
Eye level:	52.5m AOD	Viewing distance:	500mm
Direction of view:	~266°	Date and time:	14/11/2016 12:46



EXTENT OF IMAGE USED FOR VISUALISATION SHOWN ON FIGURE 11.15b



OS reference:	E632 555, N167 104	Camera:	Canon EOS 5D Mk2
Ground level:	36m AOD	Lens:	50mm (Canon EF 50mm f/1.8)
Camera height:	1.5m Above Ground Level	Horizontal field of view:	75° (cylindrical projection)
Eye level:	37.5m AOD	Viewing distance:	300mm
Direction of view:	~175°	Date and time:	14/11/2016 13:40



Figure 11.15a
Visualisation 2 - View south-east
from southern Woodchurch baseline
photography



Note:
The dotted white lines represent the outline of the proposed new development.
These new elements would be located behind the trees and structures visible in the mid-ground of this view. Details of the new elements are provided on Figure 2c

OS reference:

E632 555, N167 104

Camera:

Canon EOS 5D Mk2

Ground level:

36m AOD

Lens:

50mm (Canon EF 50mm f/1.8)

Camera height:

1.5m Above Ground Level

Horizontal field of view:

39.6° (cylindrical projection)

Eye level:

37.5m AOD

Viewing distance:

500mm

Direction of view:

~175°

Date and time:

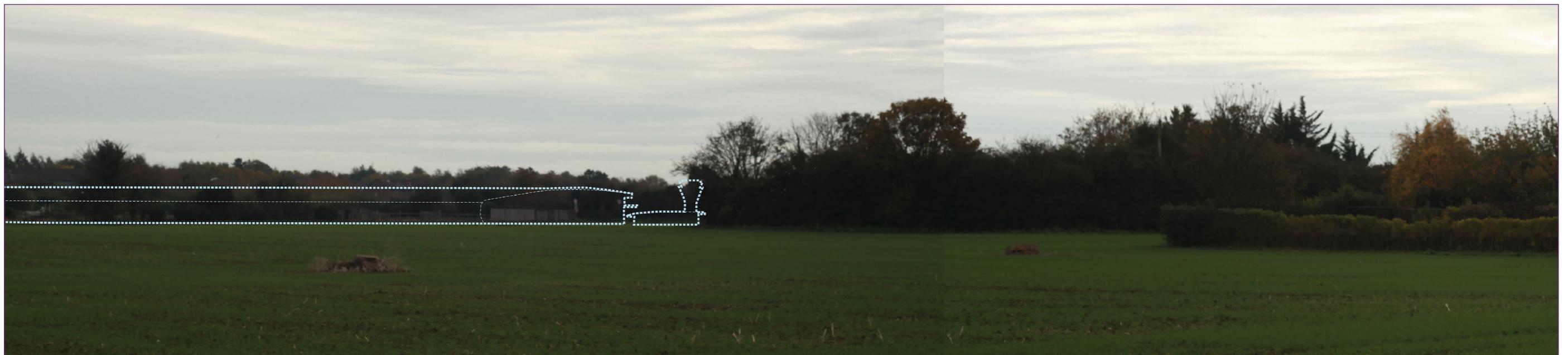
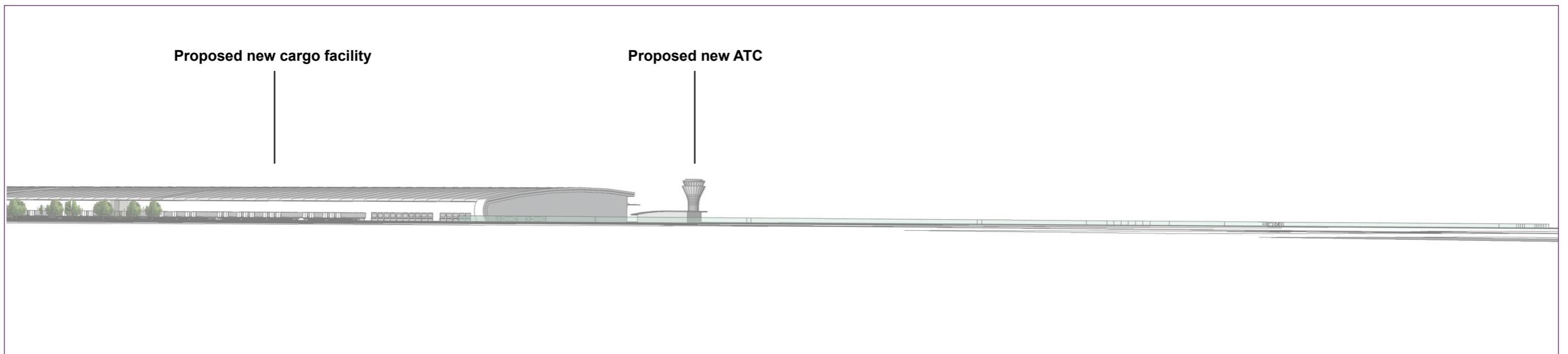
14/11/2016 13:40

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Figure 11.15b
Visualisation 2 - View south-east from southern Woodchurch



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PEIR



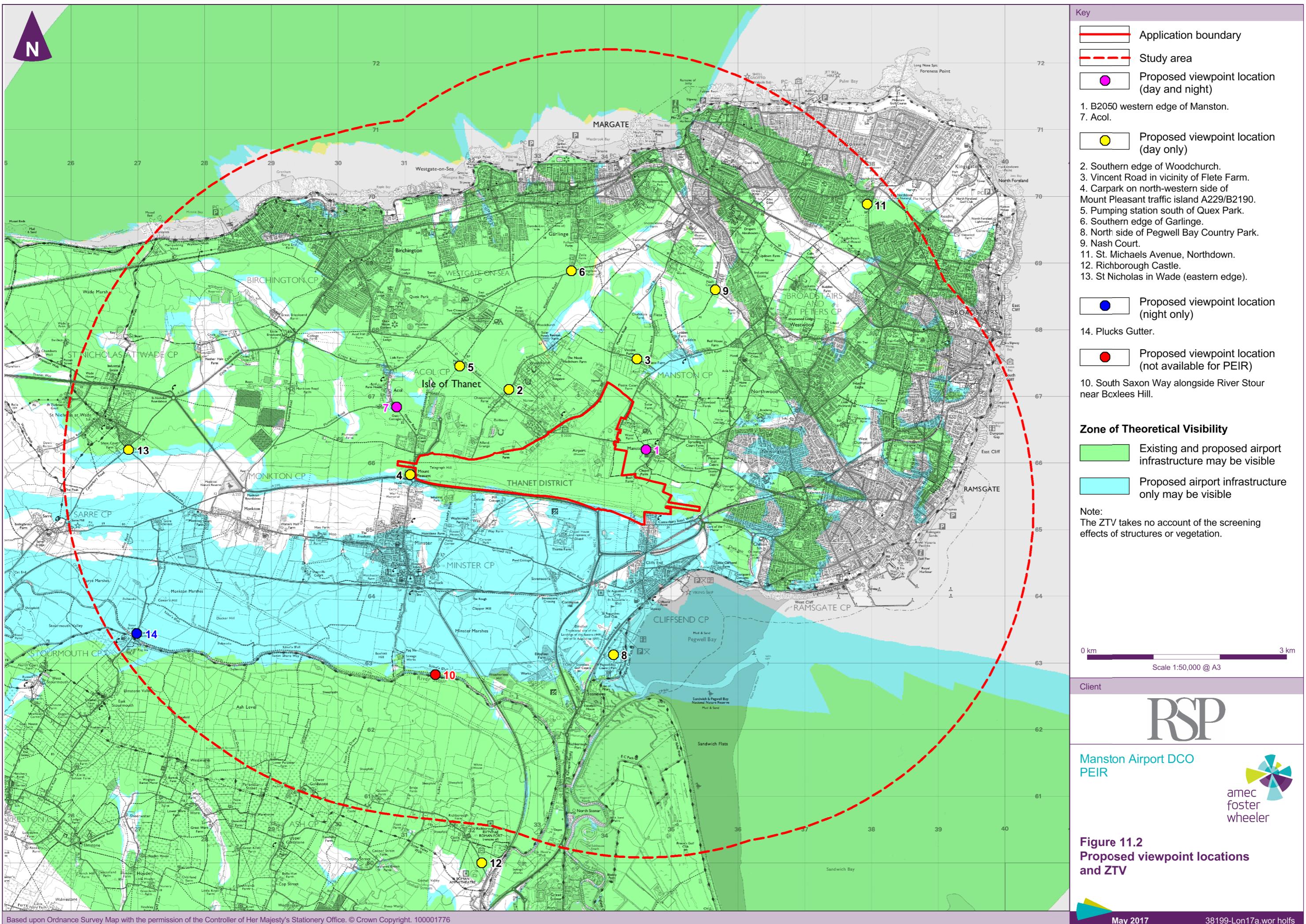
Figure 11.15c
Visualisation 2 - View south-east from southern Woodchurch

OS reference:
Ground level:
Camera height:
Eye level:
Direction of view:

E632 555, N167 104
36m AOD
1.5m Above Ground Level
37.5m AOD
~175°

Camera:
Lens:
Horizontal field of view:
Viewing distance:
Date and time:

Canon EOS 5D Mk2
50mm (Canon EF 50mm f/1.8)
39.6° (cylindrical projection)
500mm
14/11/2016 13:40



Viewpoint 1: Western edge of Manston.



Viewpoint 2: Southern edge of Woodchurch.



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Figure 11.3a
Annotated Daytime Viewpoint
Photography: Viewpoints 1 and 2

Viewpoint 3: Vincent Road in vicinity of Flete Farm.



Viewpoint 4: Carpark on north-western side of Mount Pleasant traffic island A229/B2190.



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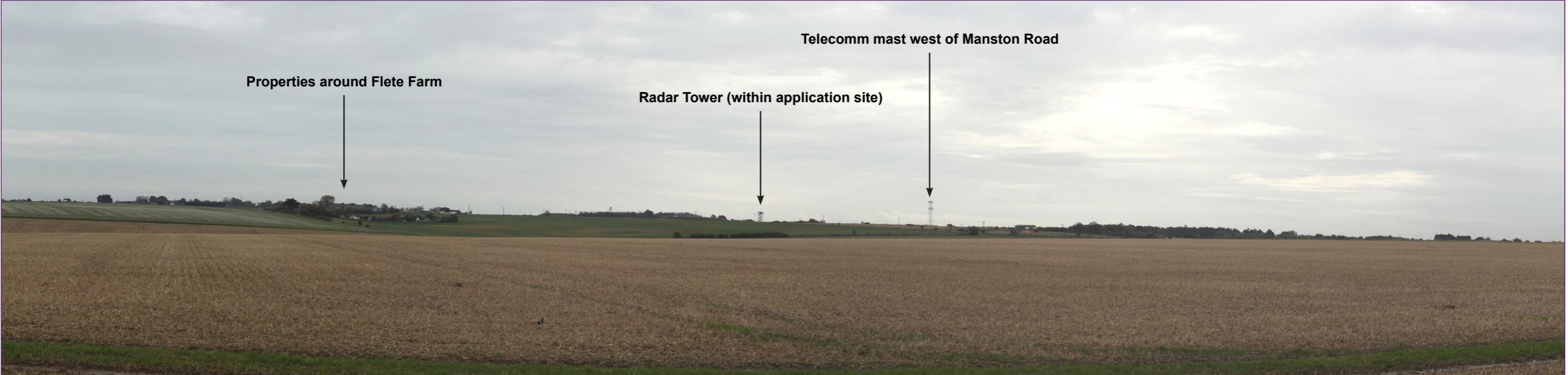


Figure 11.3b
Annotated Daytime Viewpoint
Photography: Viewpoints 3 and 4

Viewpoint 5: Pumping station south of Quex Park.



Viewpoint 6: Southern edge of Garlinge.



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Figure 11.3c
Annotated Daytime Viewpoint
Photography: Viewpoints 5 and 6

Viewpoint 7: Acol.



Viewpoint 8: North side of Pegwell Bay Country Park.



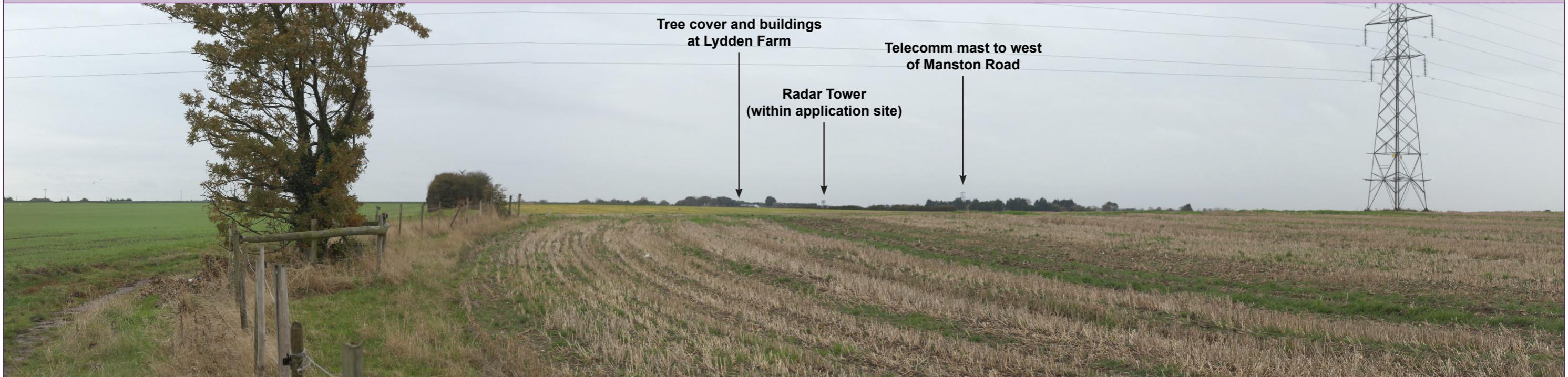
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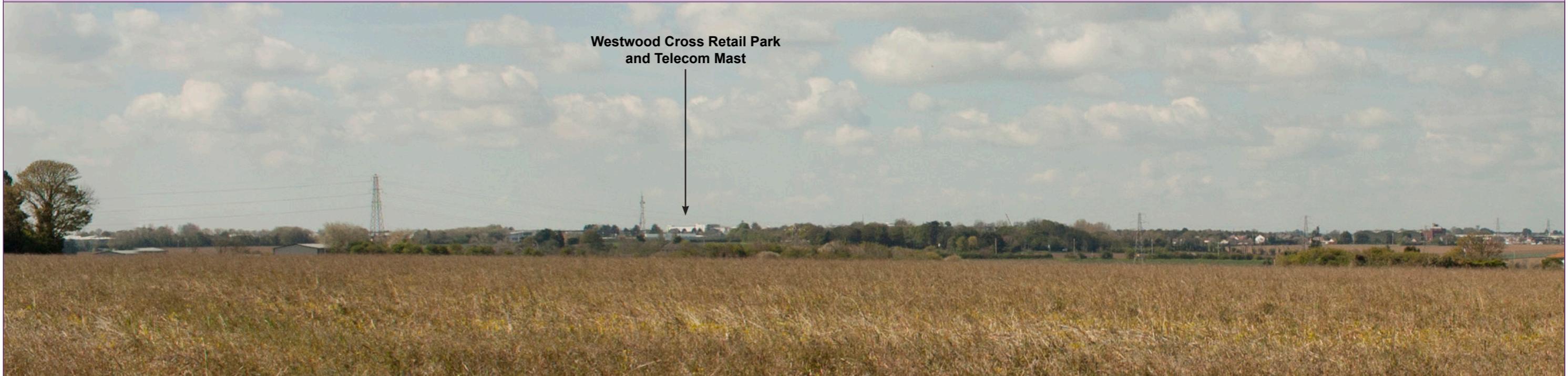


Figure 11.3d
Annotated Daytime Viewpoint
Photography: Viewpoints 7 and 8

Viewpoint 9: Nash Court.



Viewpoint 11: St. Michaels Avenue, Northdown.



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Figure 11.3e
Annotated Daytime Viewpoint
Photography: Viewpoints 9 and 11

Viewpoint 12: Richborough Castle.

Properties and Lombardy
Poplars on Castle Road

Richborough Castle



Viewpoint 13: St Nicholas in Wade

"Thanet Earth"

Monkton Nature Reserve



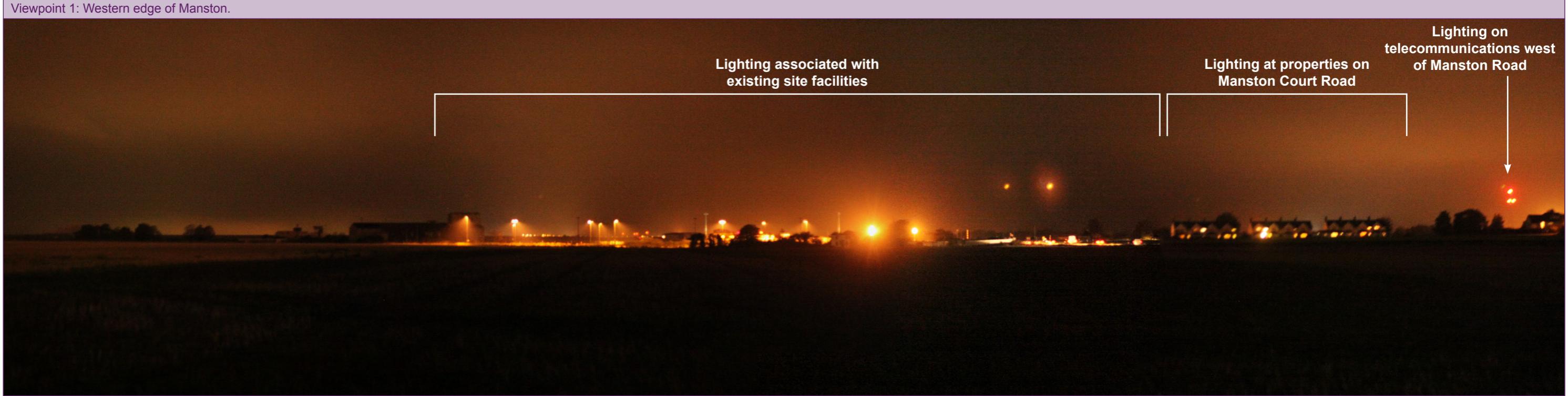
RSP

Manston Airport DCO
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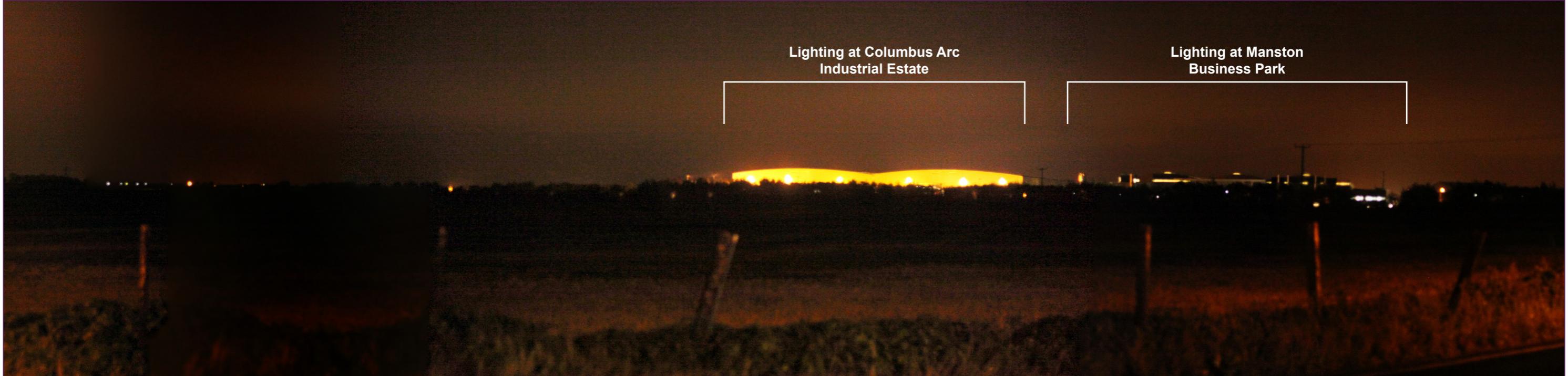


Figure 11.3f
Viewpoints 12 and 13

Viewpoint 1: Western edge of Manston.



Viewpoint 7: Acol.



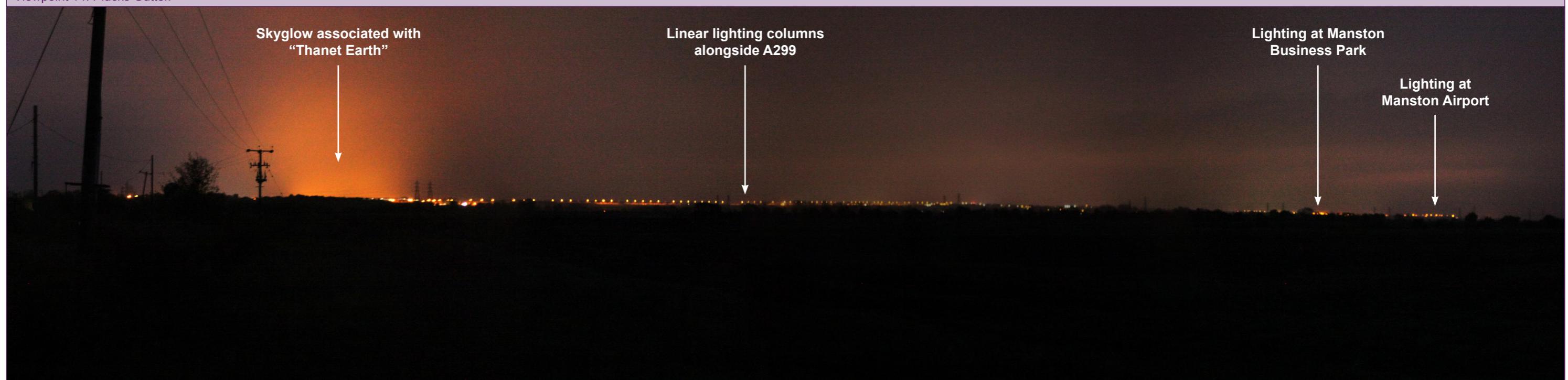
RSP

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Figure 11.4a
Night-time viewpoint photography:
Viewpoints 1 and 7

Viewpoint 14: Plucks Gutter.

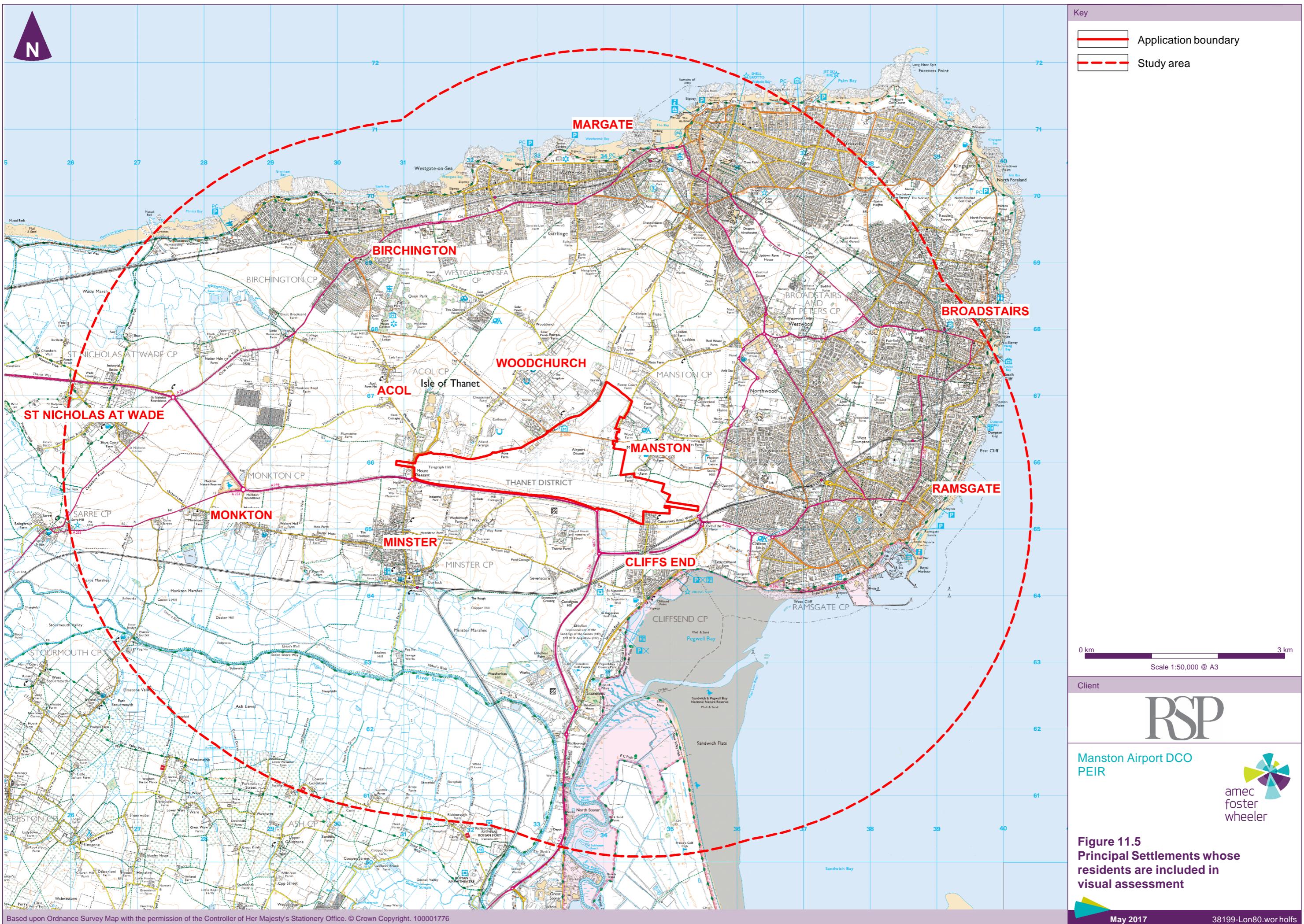


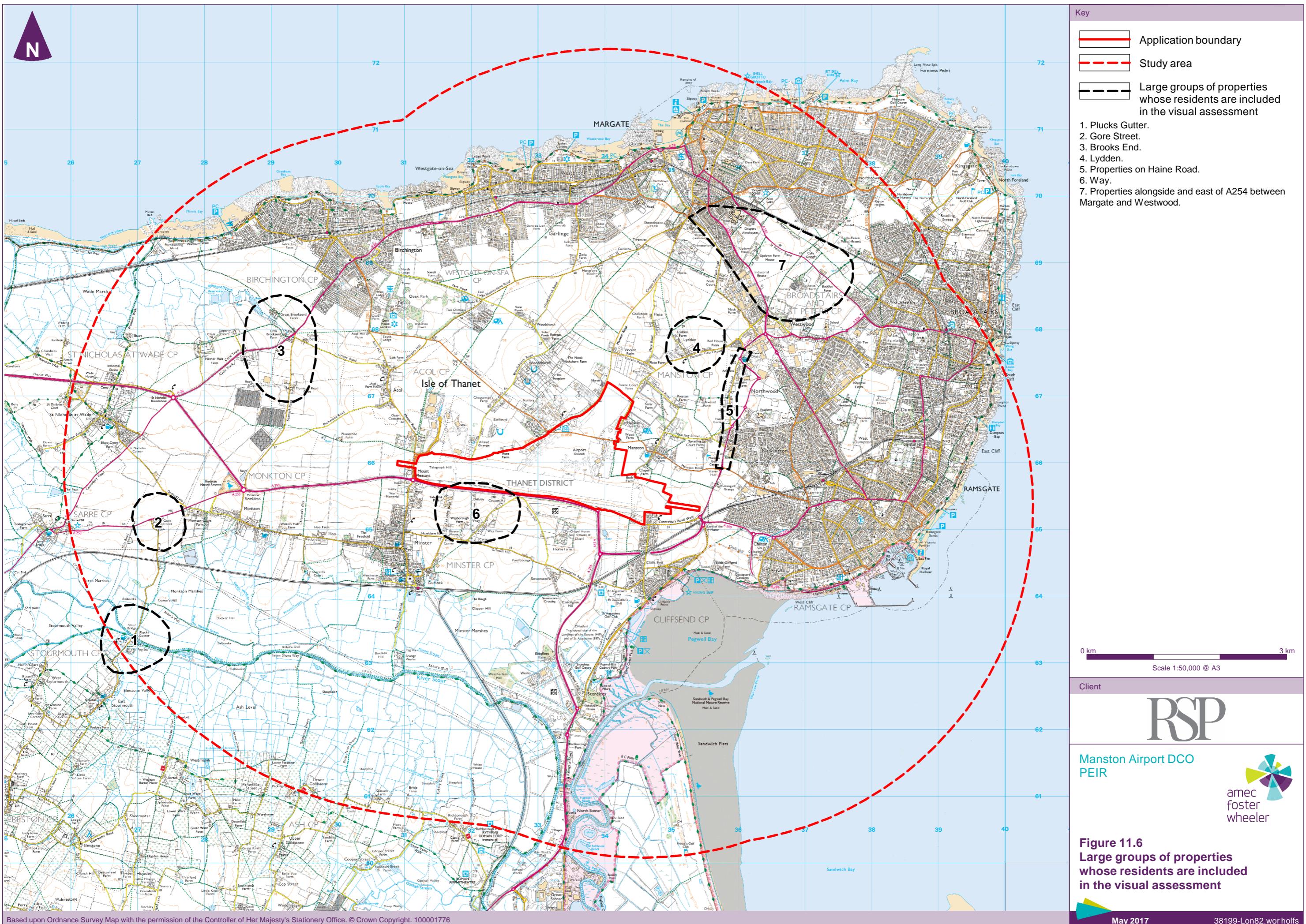
RSP

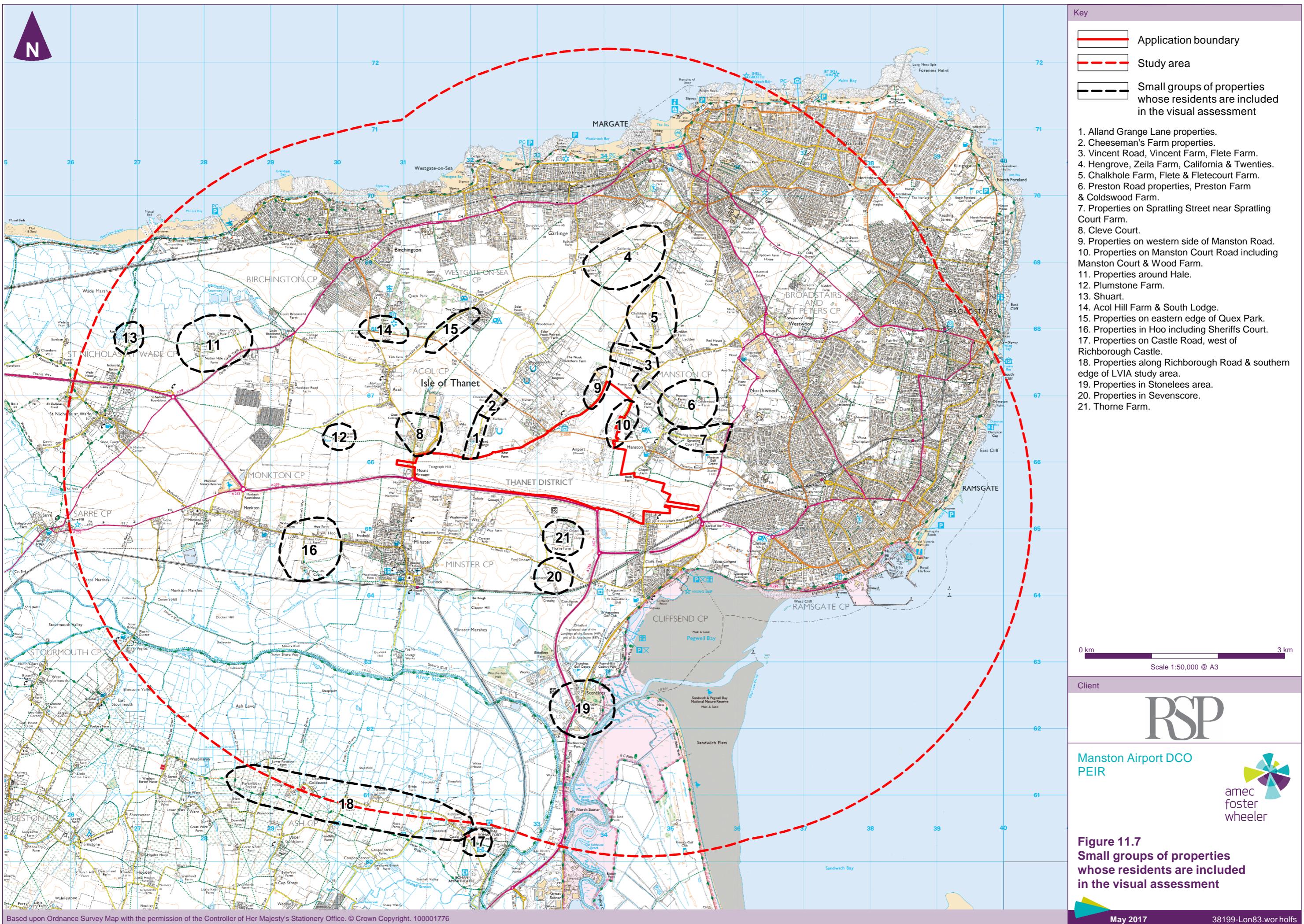
Manston Airport DCO
PEIR

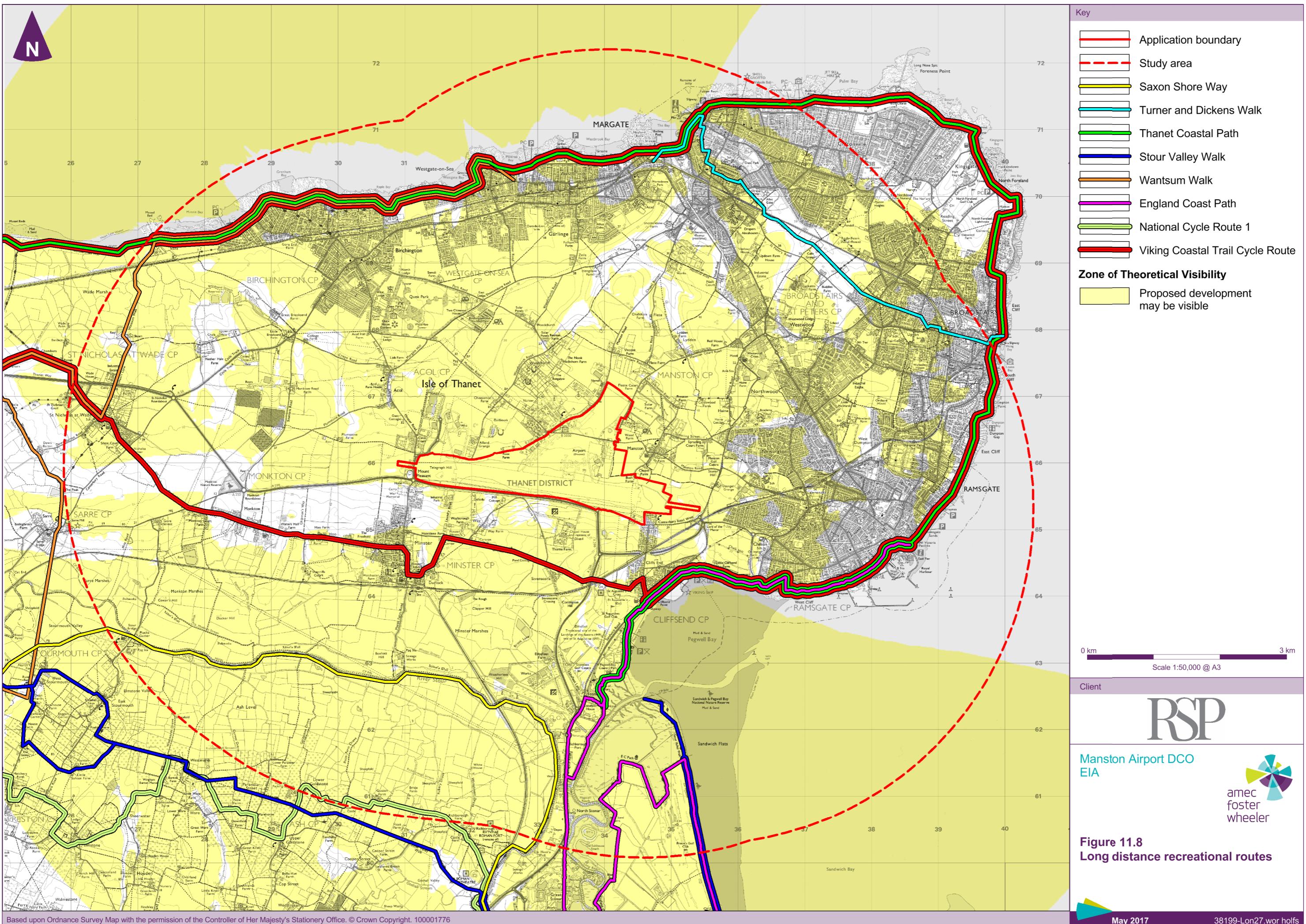


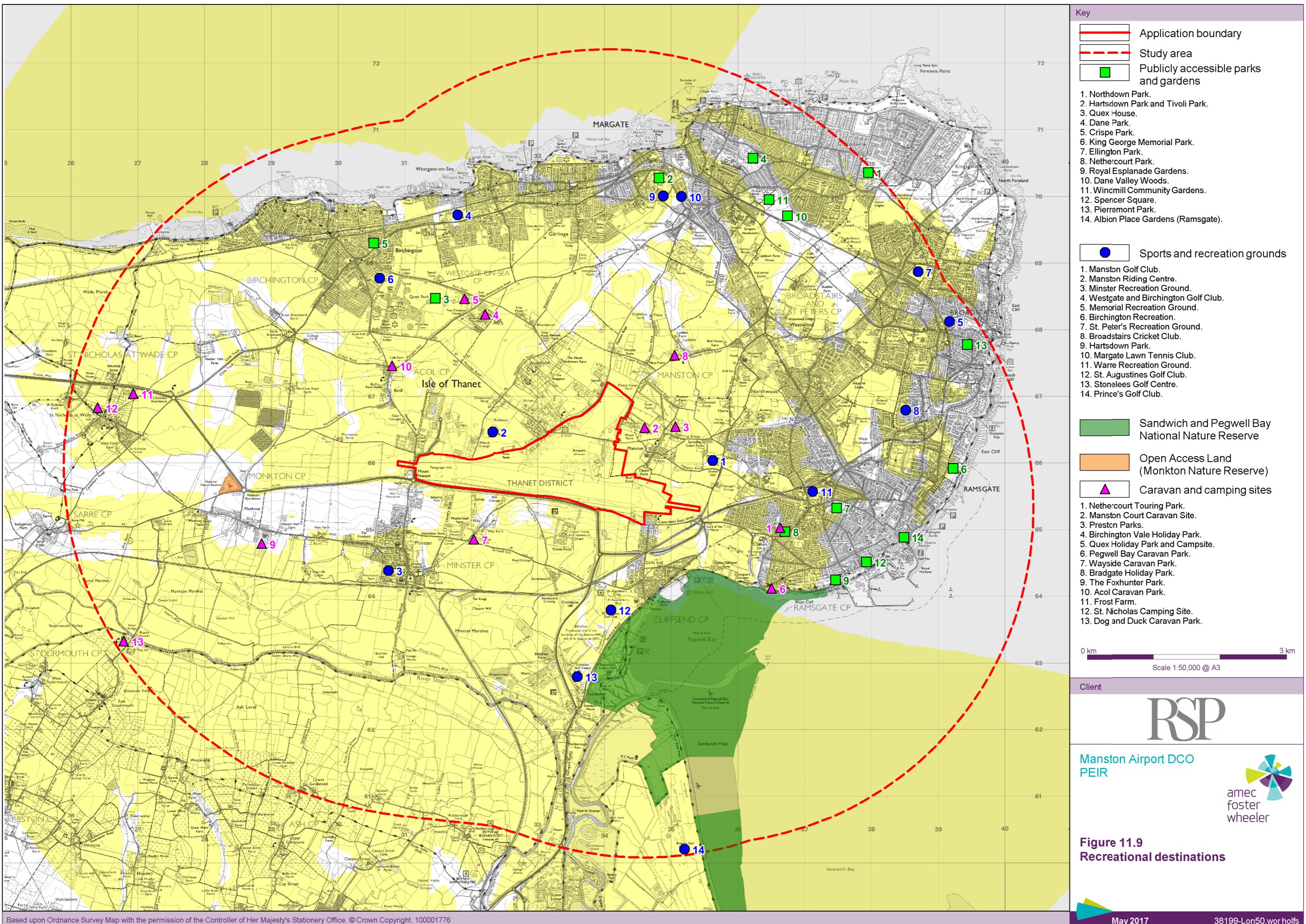
Figure 11.4b
Night-time viewpoint photography:
Viewpoint 14











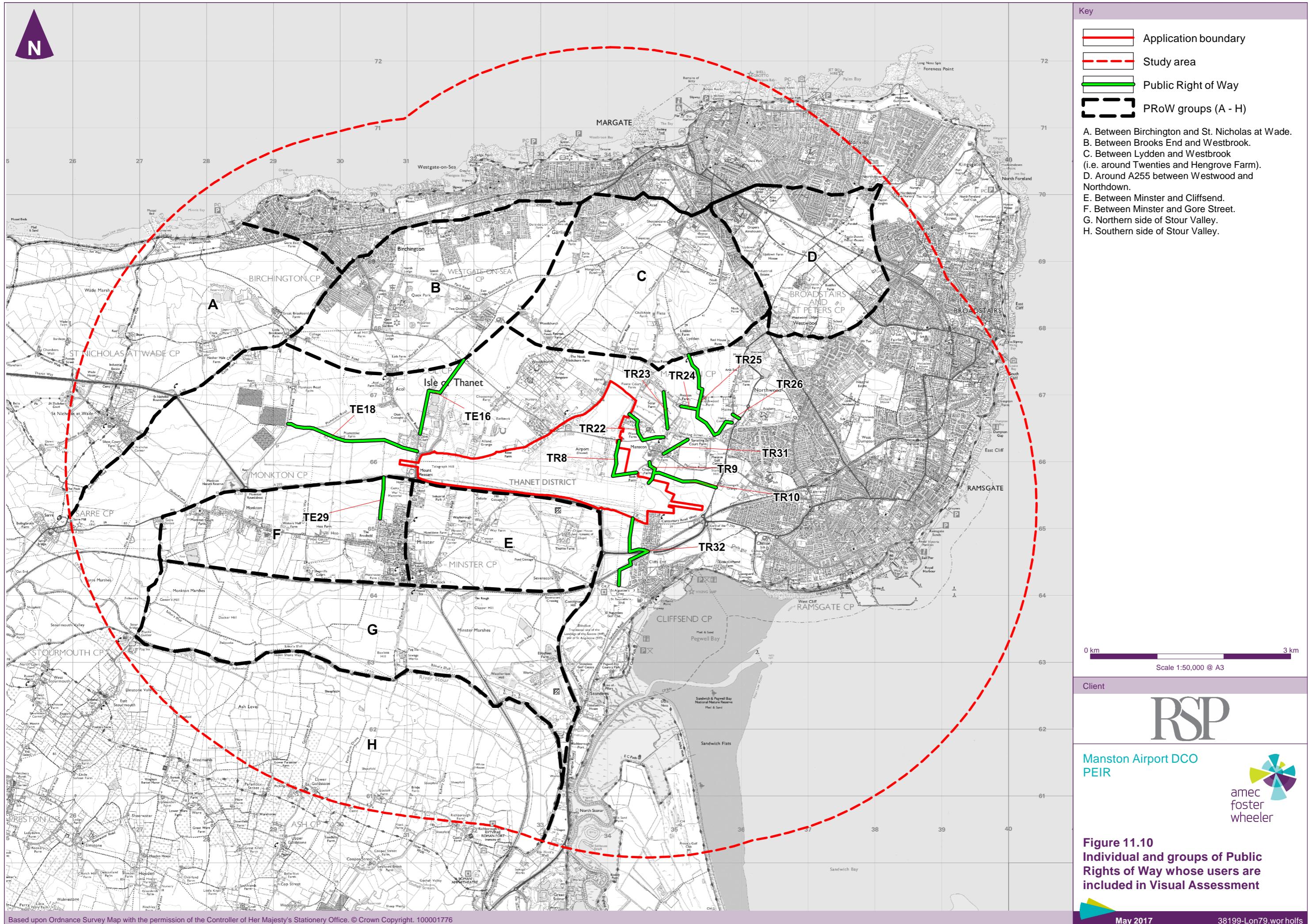
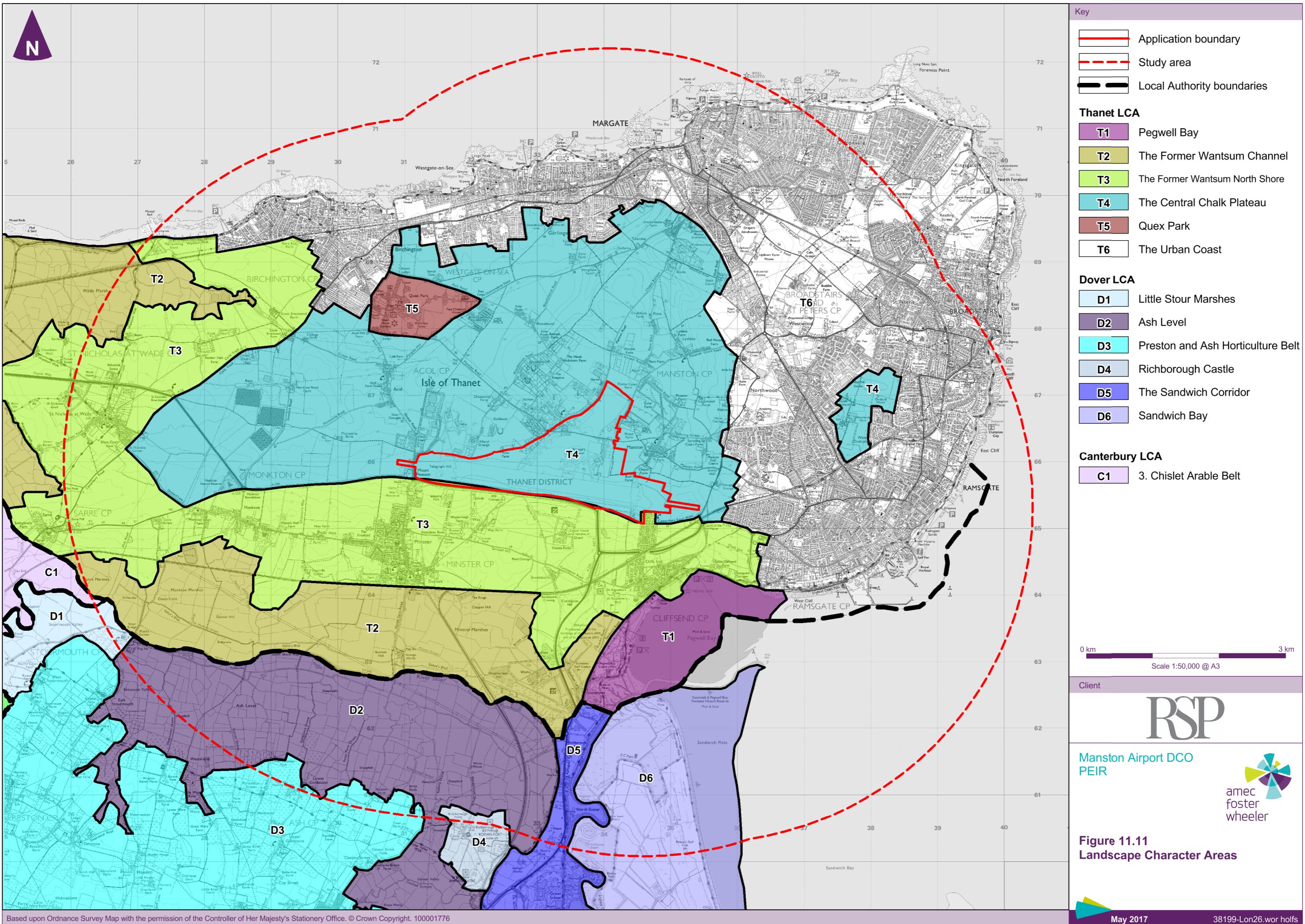
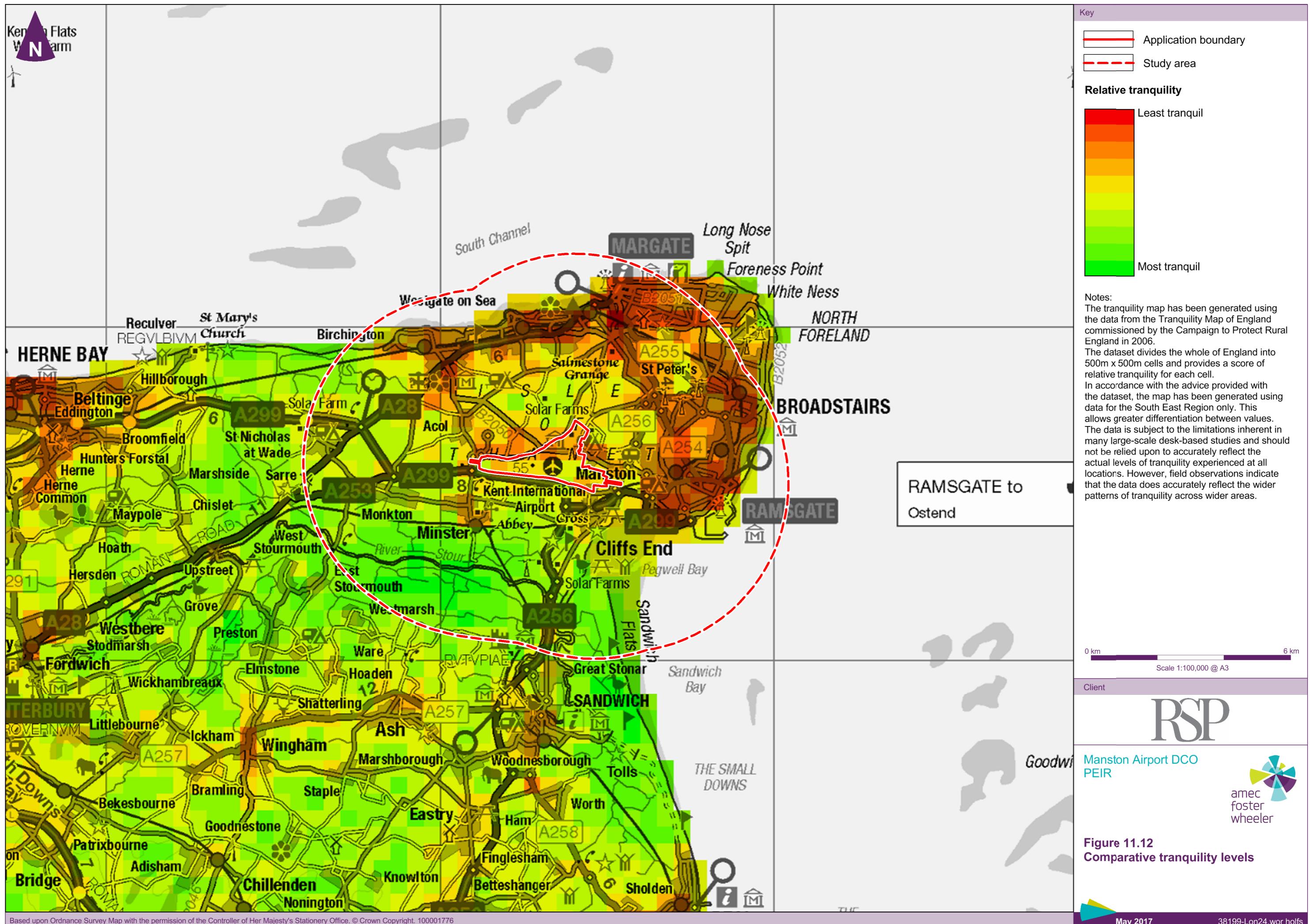
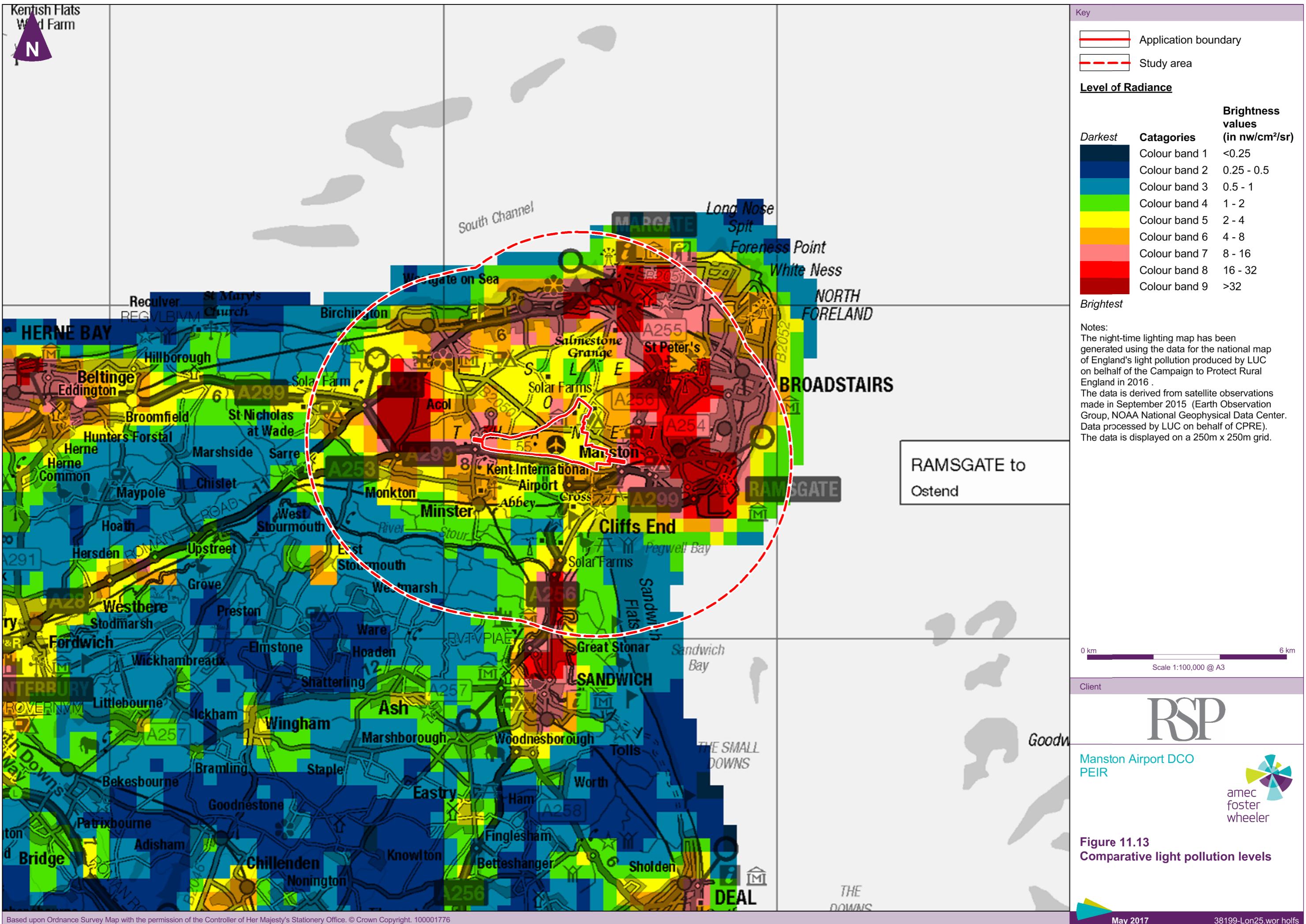
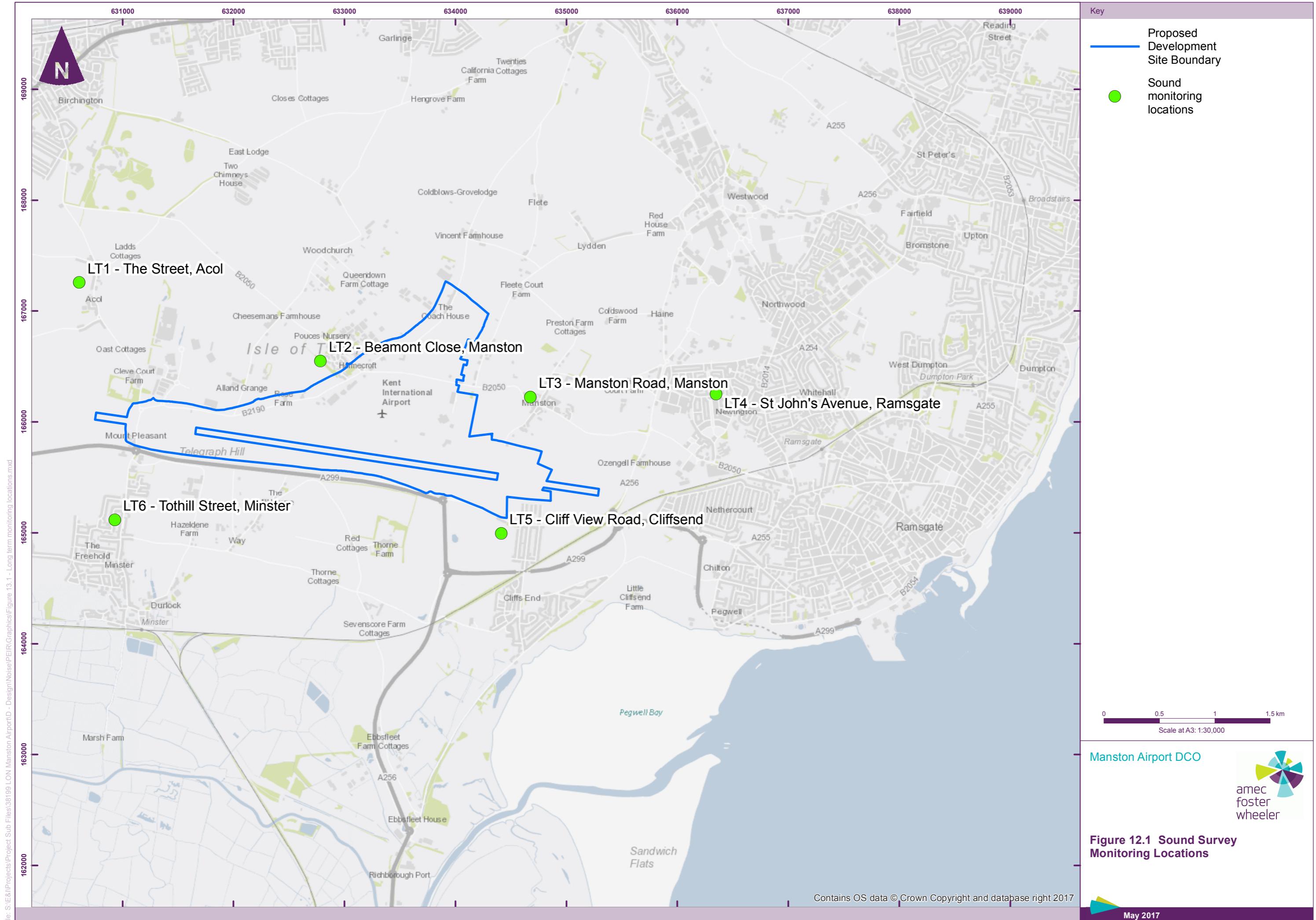


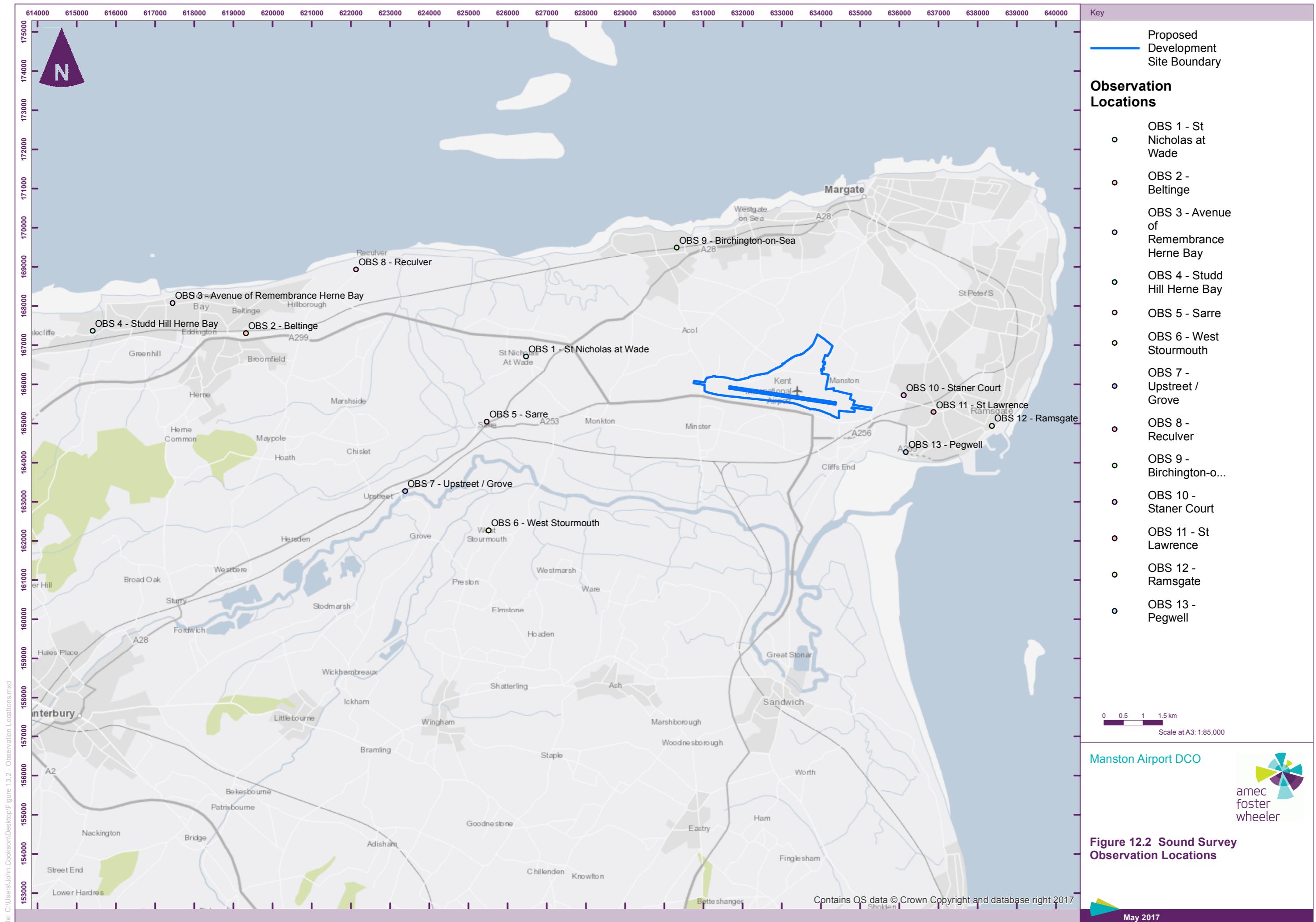
Figure 11.10
Individual and groups of Public Rights of Way whose users are included in Visual Assessment











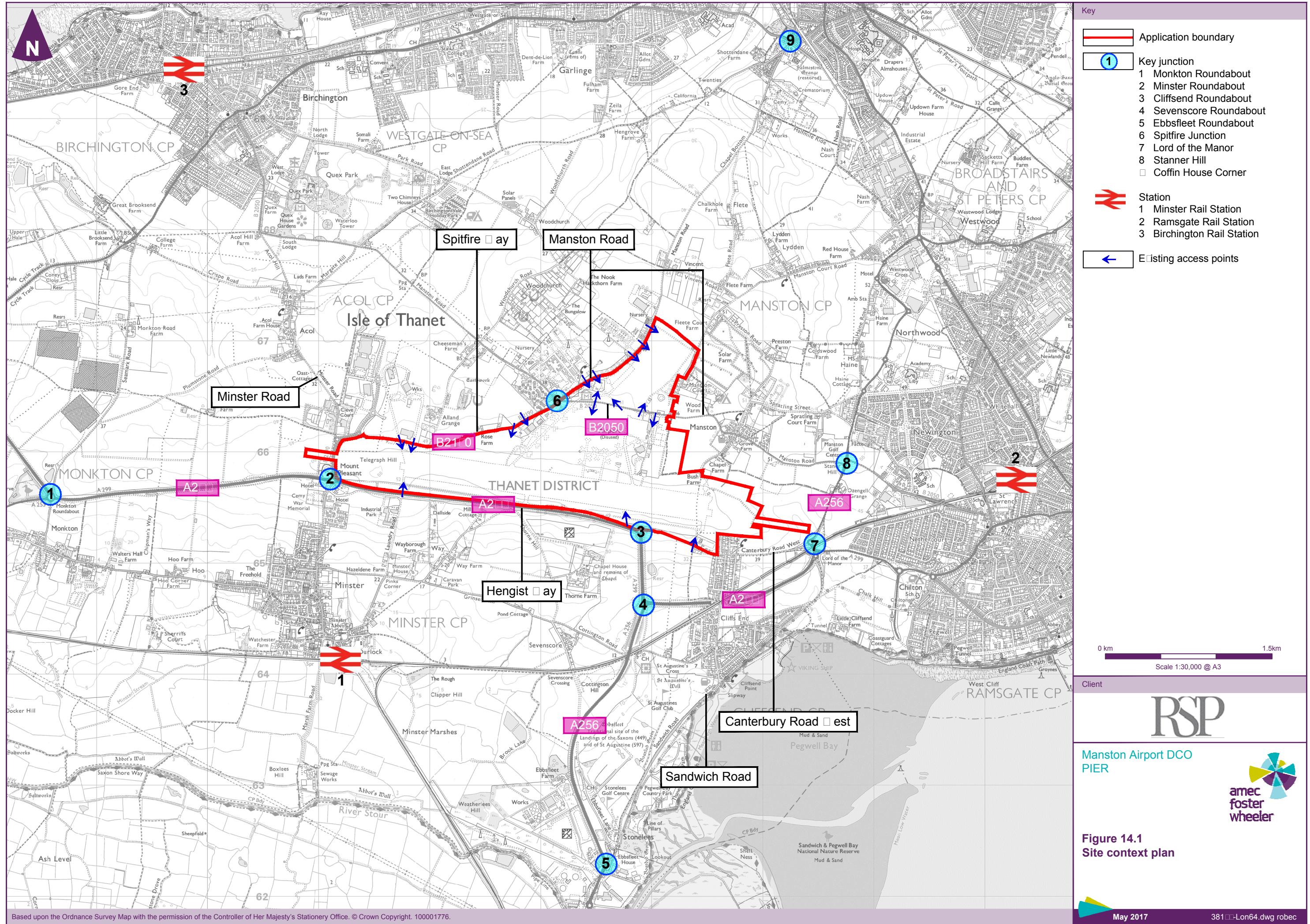


Figure 14.1
Site context plan

