

Vattenfall Wind Power Ltd
Thanet Extension Offshore Wind Farm

Environmental Statement Volume 6

Annex 2-1: Landscape Visual Impact Assessment - Onshore Technical Report

June 2018, Revision A

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Pursuant to: APFP Reg. 5(2)(a)



Vattenfall Wind Power Ltd

Thanet Extension Offshore Wind Farm Volume 6

Annex 2-1: Landscape Visual Impact Assessment - Onshore Technical Report

June 2018

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Date of Approval	June 2018
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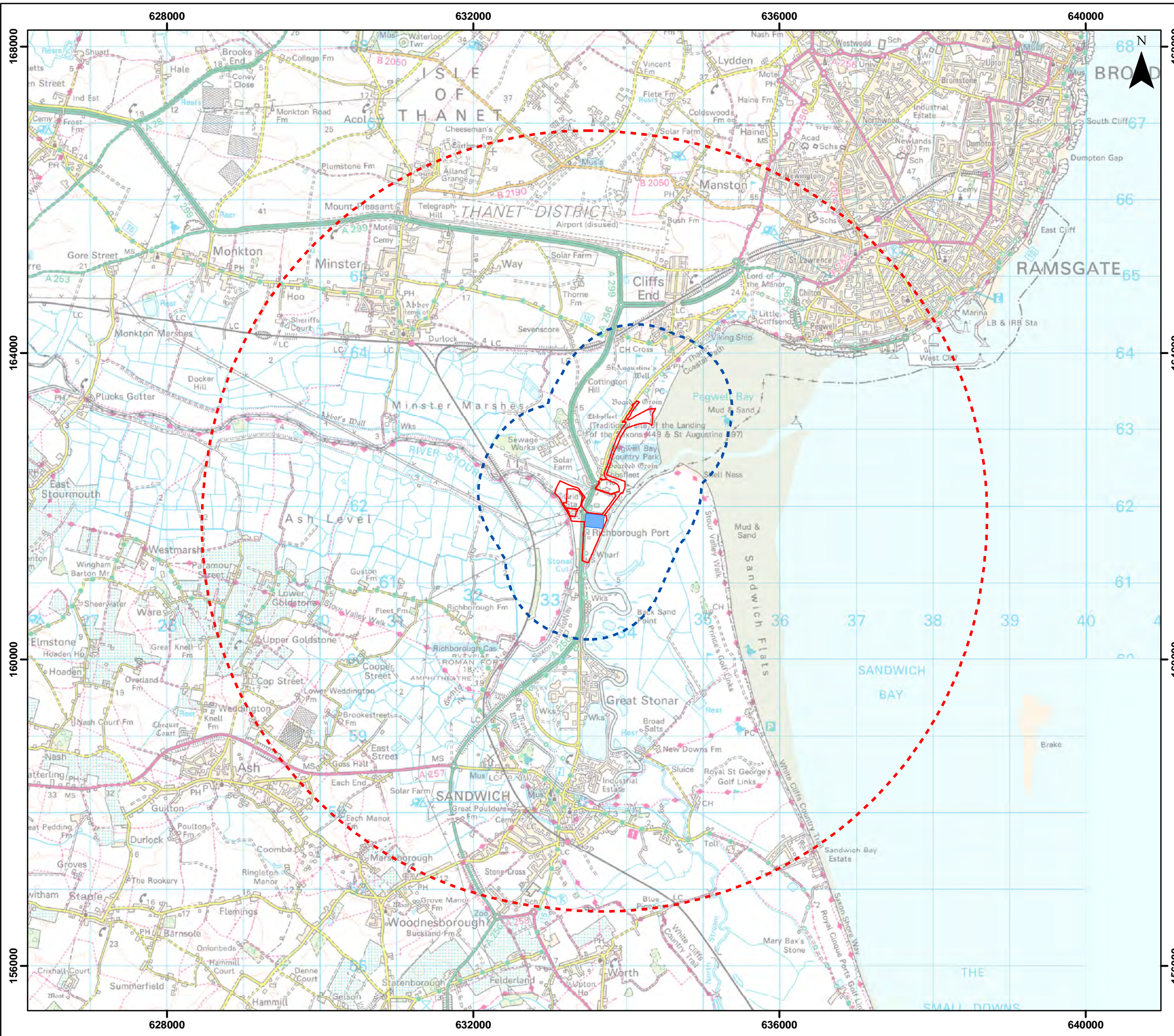


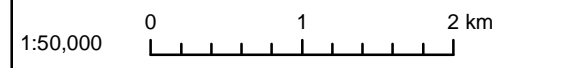
Figure 2.1 LVIA Onshore Location Plan

- Legend**
- Red Line Boundary
 - Indicative Substation Area
 - Cable Route Study Area 1km
 - Substation Study Area 5km

Datum: OSGB 1936
Projection: BNG



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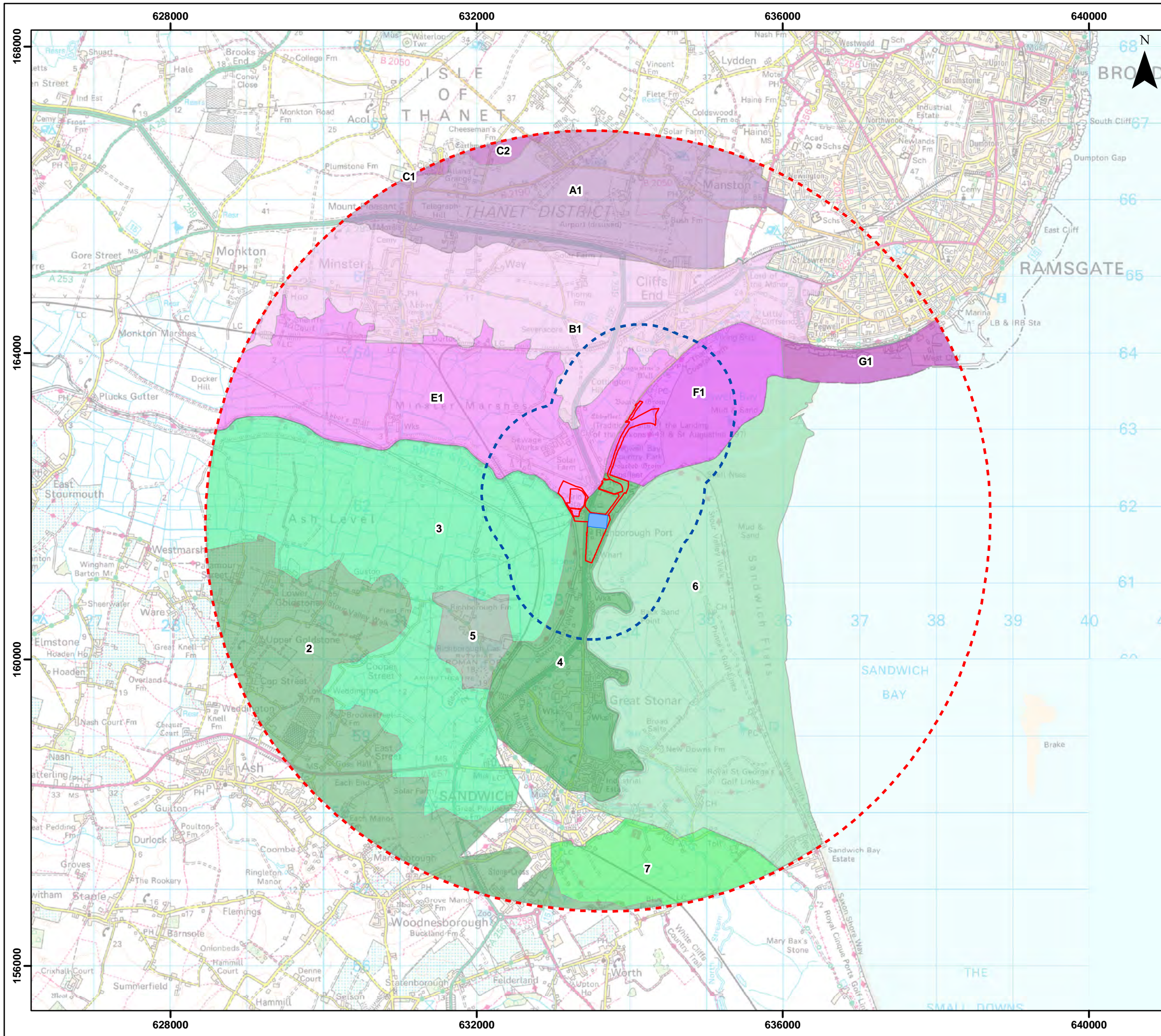




















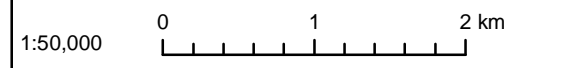
Figure 2.2 Landscape Character Areas

- Legend**
-  Red Line Boundary
 -  Indicative Substation Area
 -  Cable Route Study Area 1km
 -  Substation Study Area 5km
- Dover District Landscape Character Areas, Jan 2006**
-  2. Preston & Ash Horticultural Belt
 -  3. Ash Level
 -  4. The Sandwich Corridor
 -  5. Richborough Castle
 -  6. Sandwich Bay
 -  7. Lydden Valley
- Thanet District Landscape Character Areas, Feb 2017**
-  A1. Manston Chalk Plateau
 -  B1. Wantsum North Slopes
 -  C1. St. Nicholas at Wade Undulating Chalk Farmland
 -  C2. Central Thanet Undulating Chalk Farmland
 -  E1. Stour Marshes
 -  F1. Pegwell Bay
 -  G1. Ramsgate & Broadstairs Cliffs

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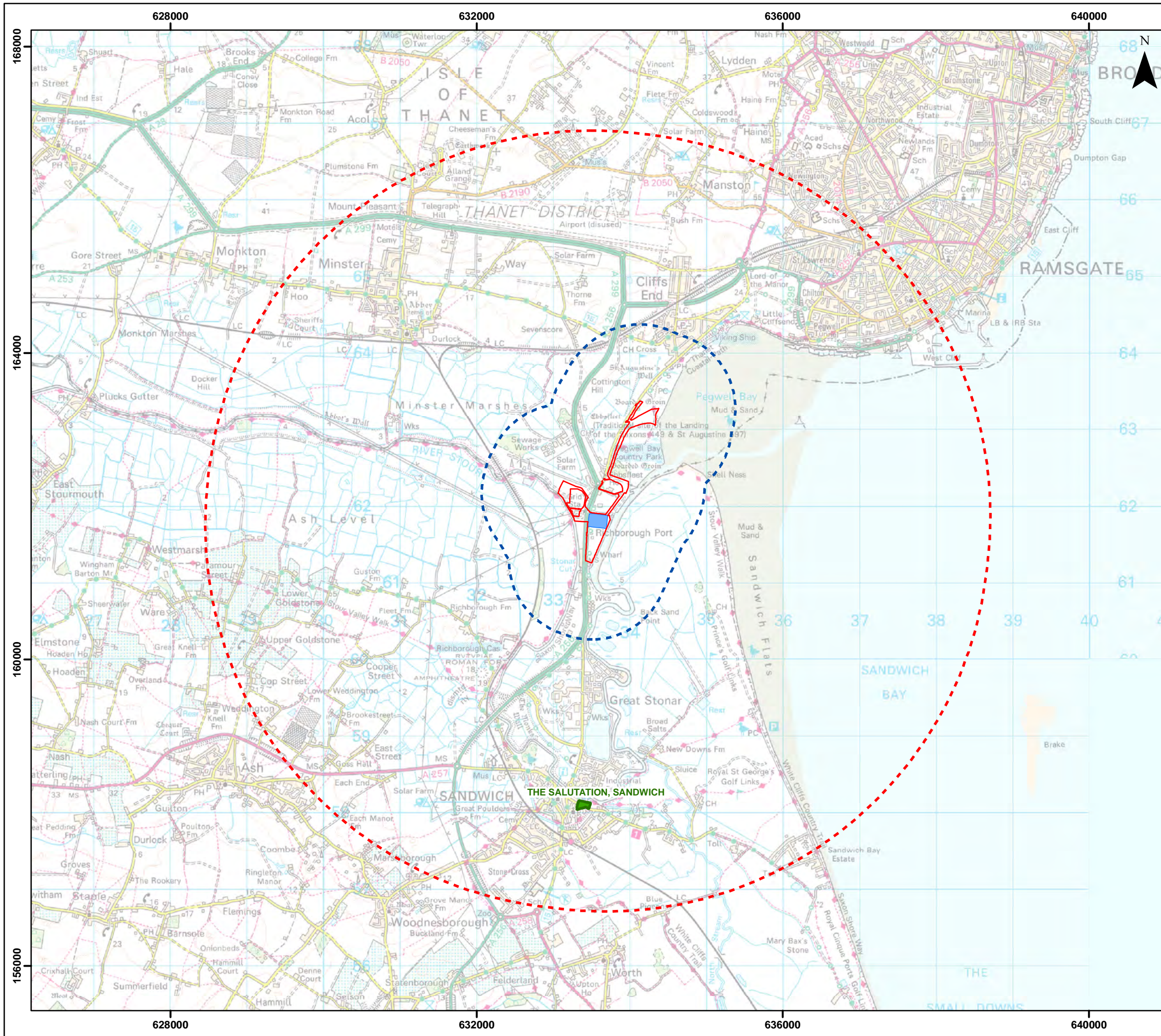


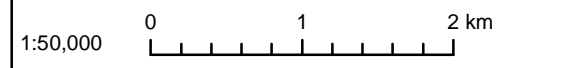
Figure 2.3
Landscape Designations
(Onshore Study Area)

- Legend**
- Red Line Boundary
 - Indicative Substation Area
 - Cable Route Study Area 1km
 - Substation Study Area 5km
 - Registered Parks and Gardens

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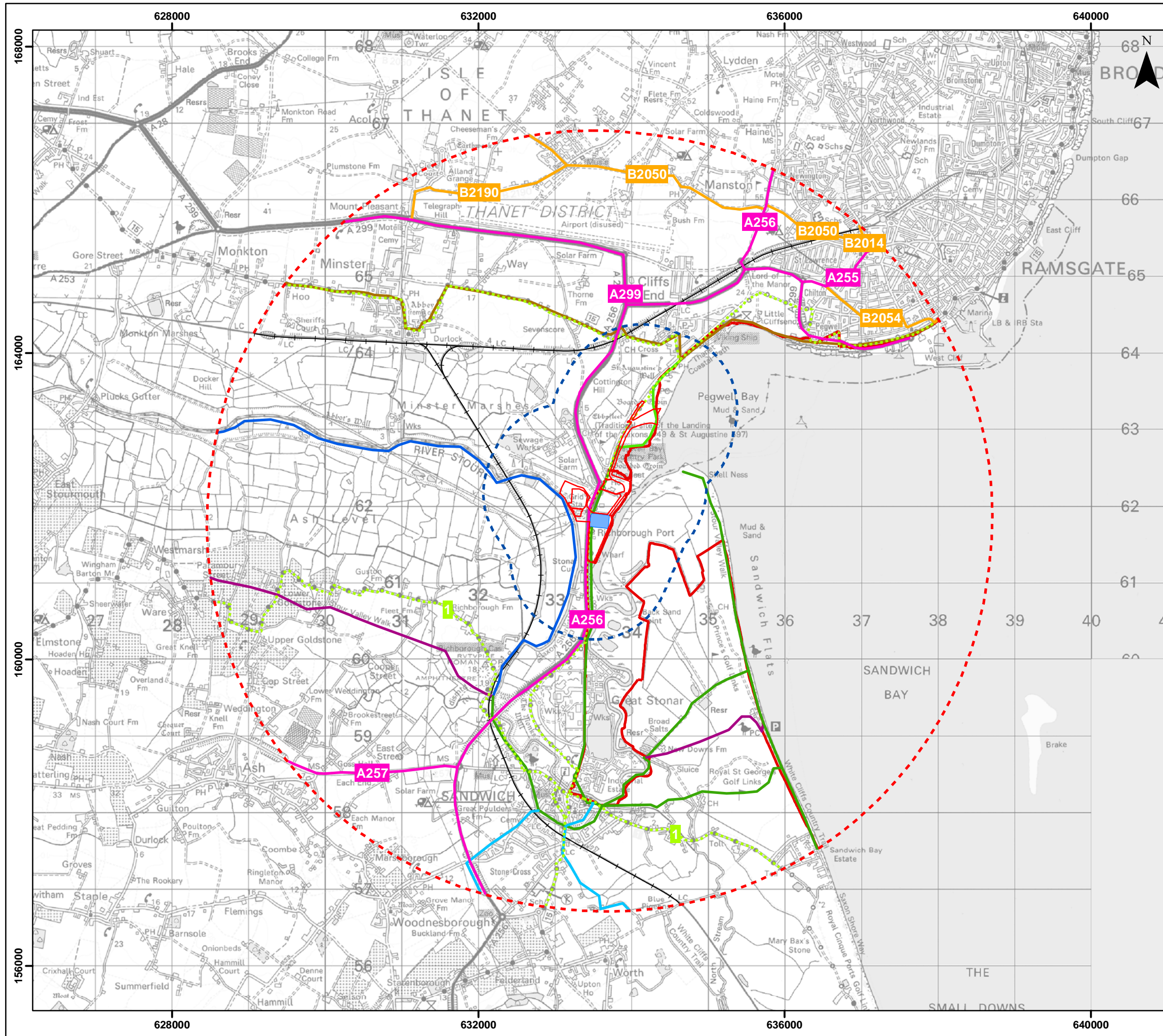


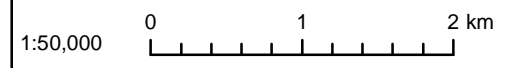
Figure 2.4
Visual Receptors

- Legend**
- Red Line Boundary
 - Indicative Substation Area
 - Cable Route Study Area 1km
 - Substation Study Area 5km
 - A Road
 - B Road
 - Cycle Route
 - Kent Coastline Walk
 - Saxon Shore Way
 - Stour Valley Walk
 - Thanet Coastal Path
 - Viking Coastal Trail
 - White Cliffs Country Trail
 - England Coastal Path
 - Railway

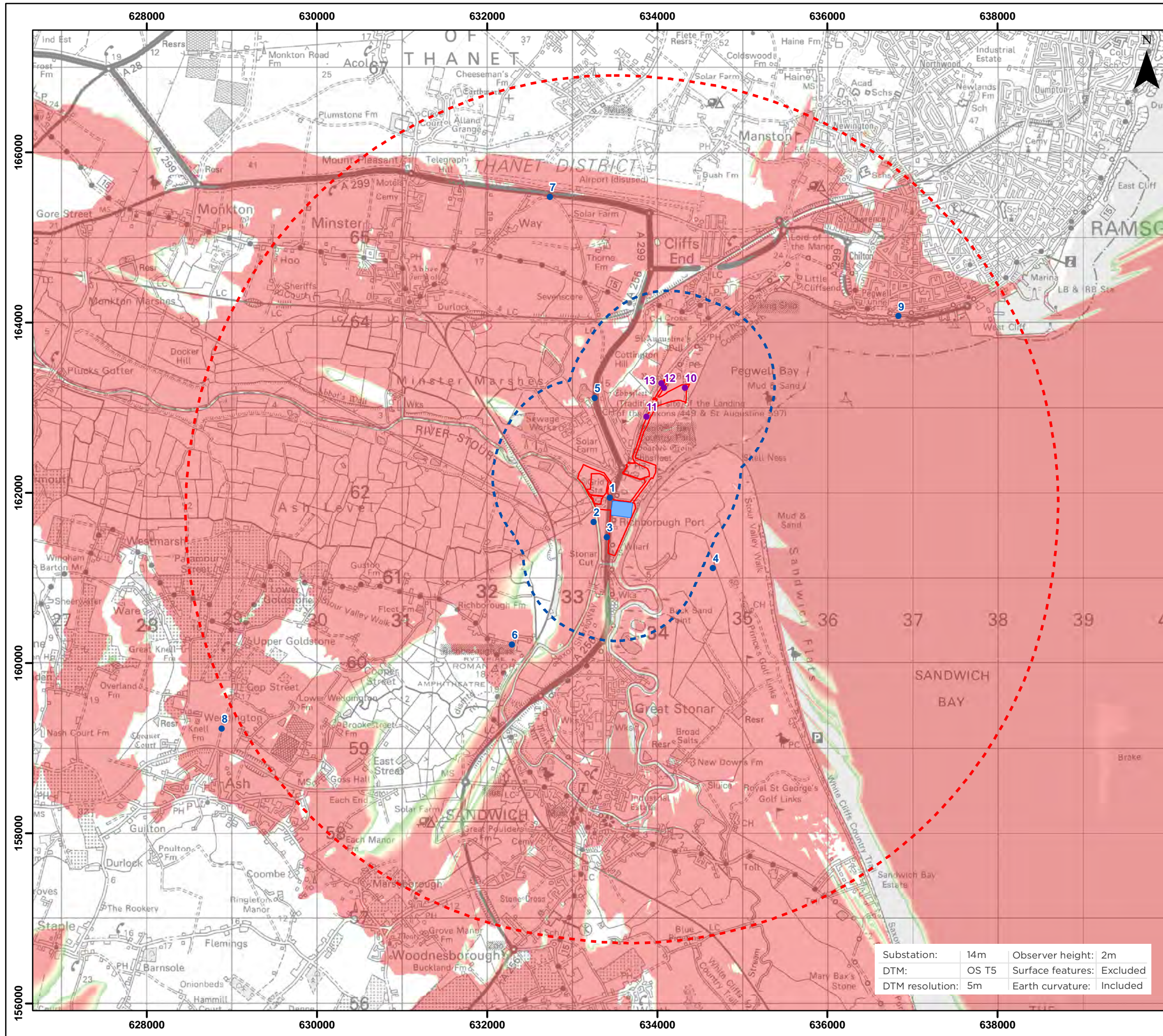
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THANET EXTENSION OFFSHORE WIND FARM

Figure 2.6 Onshore Substation ZTV with Viewpoints

Legend

- Red Line Boundary
 - Indicative Substation Area
 - Cable Route Study Area 1km
 - Substation Study Area 5km
- Substation ZTV
- High
 - Low
- Substation Viewpoints
 1. A256 (Richborough Port Roundabout)
 2. Saxon Shore Way (South)
 3. A265 (Stevens Carloti)
 4. Sandwich Flats (England Coastal Path)
 5. A256 (Cycle Path)
 6. Richborough Castle
 7. A299, Thorne Hill
 8. A257 near Ash
 9. Pegwell, promenade
 - Cable Route Viewpoints
 10. Pegwell Bay Country Park near the birdhide
 11. Cycle route and path adjacent to Sandwich Road
 12. Cycle Route and path near Sandwich Road Access
 13. Sandwich Road

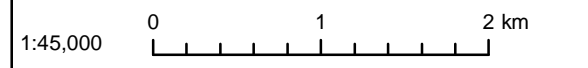
Datum: OSGB 1936
Projection: BNG



Note: ZTV generated from a grid of 40 X 14m high evenly spaced points, covering the 'indicative substation area' as shown.

Substation:	14m	Observer height:	2m
DTM:	OS T5	Surface features:	Excluded
DTM resolution:	5m	Earth curvature:	Included

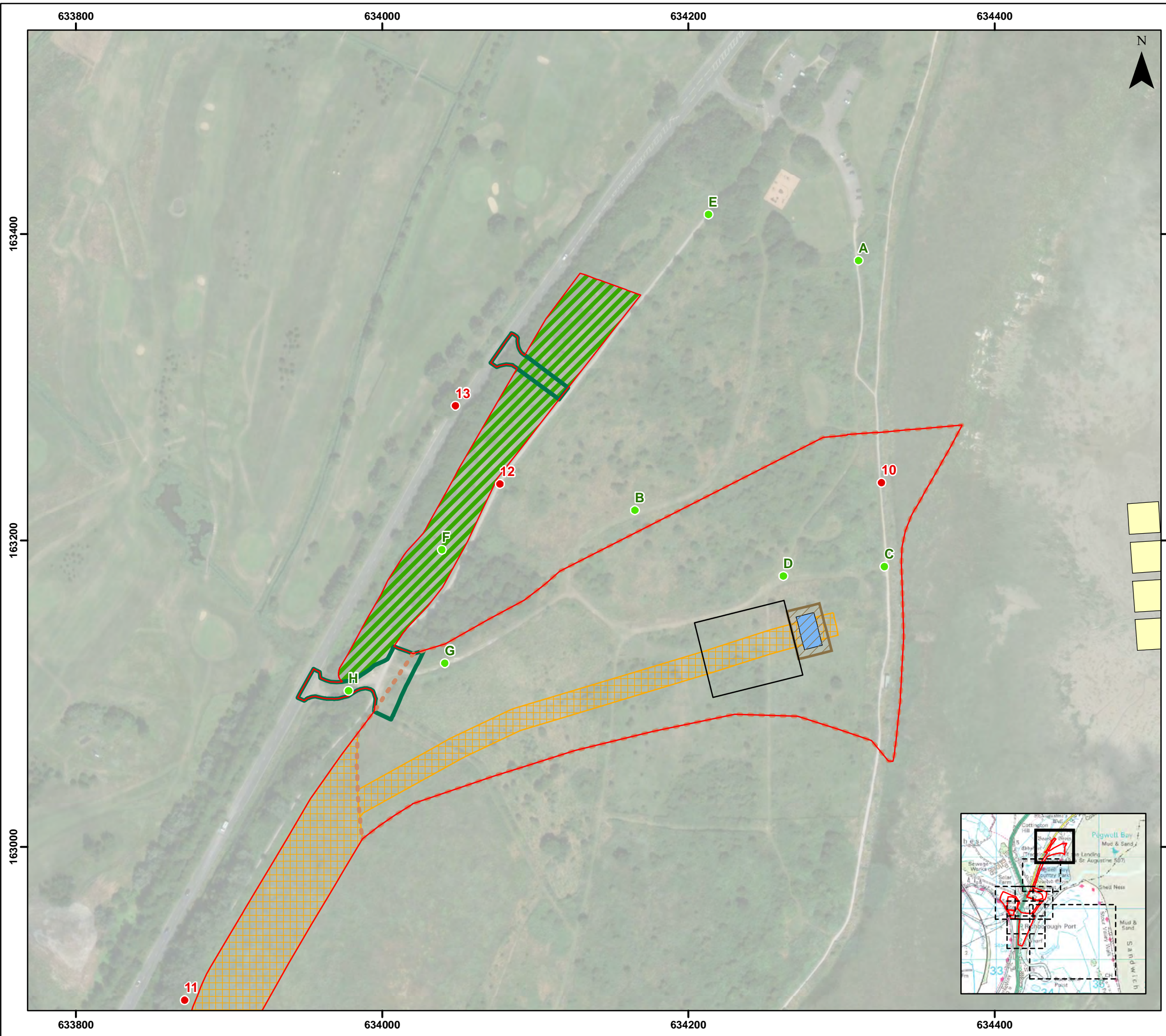
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THANET EXTENSION OFFSHORE WIND FARM

Figure 2.7a (1 of 9) Aerial Maps - Option 1

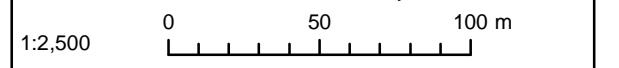


Legend

- Red Line Boundary
- Intertidal HDD Pits - 20m x 20m
- Landfall Area
- Temporary works area
- Transition pit cofferdam extent
- Transition Pit - 12m x 22m
- Cable corridor; Above Ground Stabilisation Area - 15m
- Possible Access
- Construction and Laydown Area
- Cable corridor; Above Ground Stabilisation Area - 15m
- Cable Route Viewpoints
 - 10. Pegwell Bay Country Park near the birdhide
 - 11. Cycle route and path adjacent to Sandwich Road
 - 12. Cycle route and path near Sandwich Road access
 - 13. Sandwich Road
- Context Photo Locations
 - A. View across Nemo Cable Route at Pegwell Bay Country Park car park
 - B. View from mown path east of Nemo cable route
 - C. View towards Cliffsend from proposed landfall (Pegwell Bay Country Park)
 - D. View towards proposed landfall from mown path (Pegwell Bay Country Park)
 - E. View south along RCR 15 near the Pegwell Bay Country Park car park
 - F. View north along RCR 15 and Nemo cable route (Pegwell Bay Country Park)
 - G. View towards access off Sandwich Road (Pegwell Bay Country Park)
 - H. View from access off Sandwich Road (Pegwell Bay Country Park)

Datum: OSGB 1936 Projection: BNG

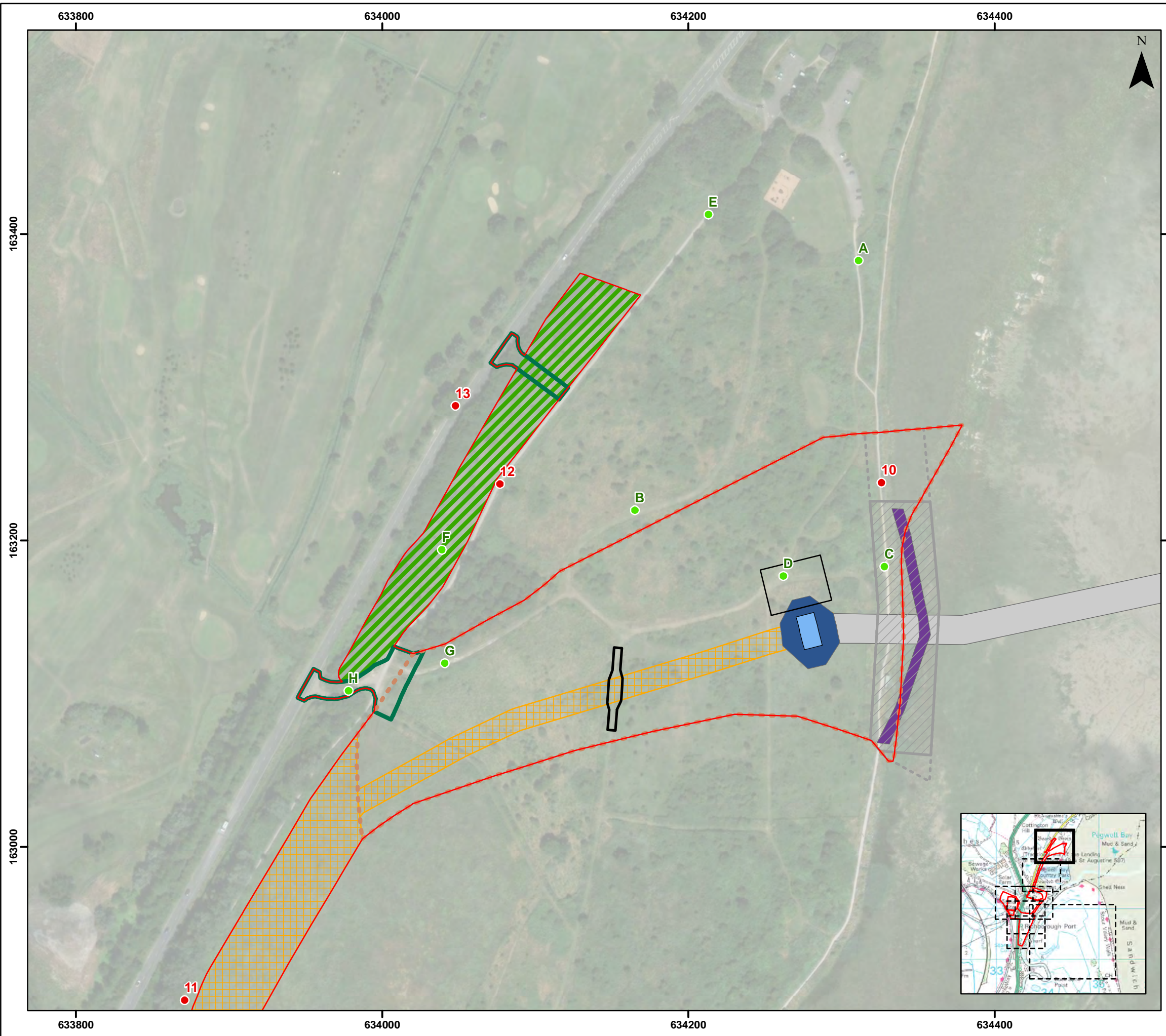
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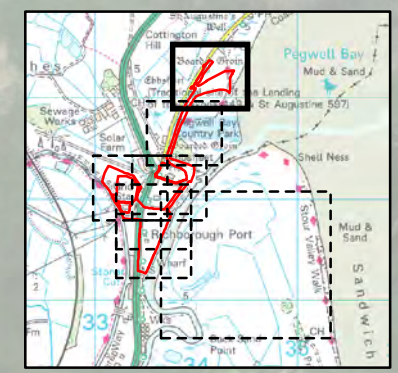
THANET EXTENSION OFFSHORE WIND FARM

Figure 2.7b (2 of 9) Aerial Maps - Option 2



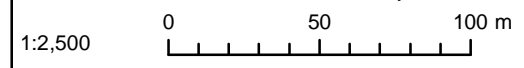
Legend

- Red Line Boundary
- Landfall Area
- Sea defence extension cofferdam extent
- Sea defence extension possible area
- Sea Wall Extension
- Temporary works area
- Transition Pit - 12m x 22m
- TP Area - 12m x 46m
- Subsea Cable Installation Area - 19m
- KWT Crossing 5m x 54m
- Cable corridor; Above Ground Stabilisation Area - 15m
- Possible Access
- Construction and Laydown Area
- Cable corridor; Above Ground Stabilisation Area - 15m
- Cable Route Viewpoints
 - 10. Pegwell Bay Country Park near the birdhide
 - 11. Cycle route and path adjacent to Sandwich Road
 - 12. Cycle route and path near Sandwich Road access
 - 13. Sandwich Road
- Context Photo Locations
 - A. View across Nemo Cable Route at Pegwell Bay Country Park car park
 - B. View from mown path east of Nemo cable route
 - C. View towards Cliffsend from proposed landfall (Pegwell Bay Country Park)
 - D. View towards proposed landfall from mown path (Pegwell Bay Country Park)
 - E. View south along RCR 15 near the Pegwell Bay Country Park car park
 - F. View north along RCR 15 and Nemo cable route (Pegwell Bay Country Park)
 - G. View towards access off Sandwich Road (Pegwell Bay Country Park)
 - H. View from access off Sandwich Road (Pegwell Bay Country Park)



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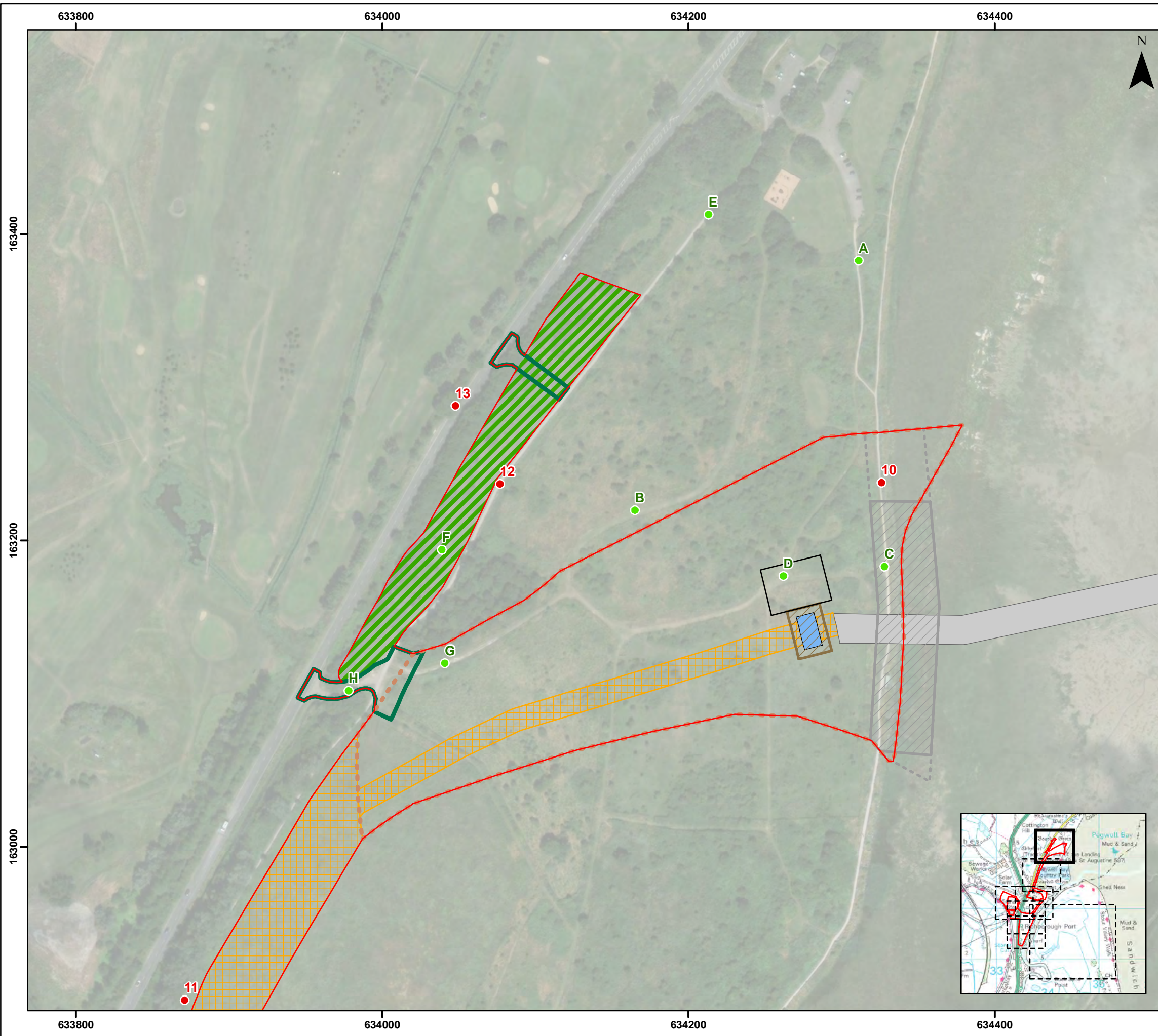


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Figure 2.7b

THANET EXTENSION OFFSHORE WIND FARM

Figure 2.7c (3 of 9) Aerial Maps - Option 3

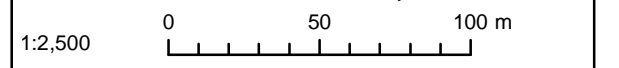


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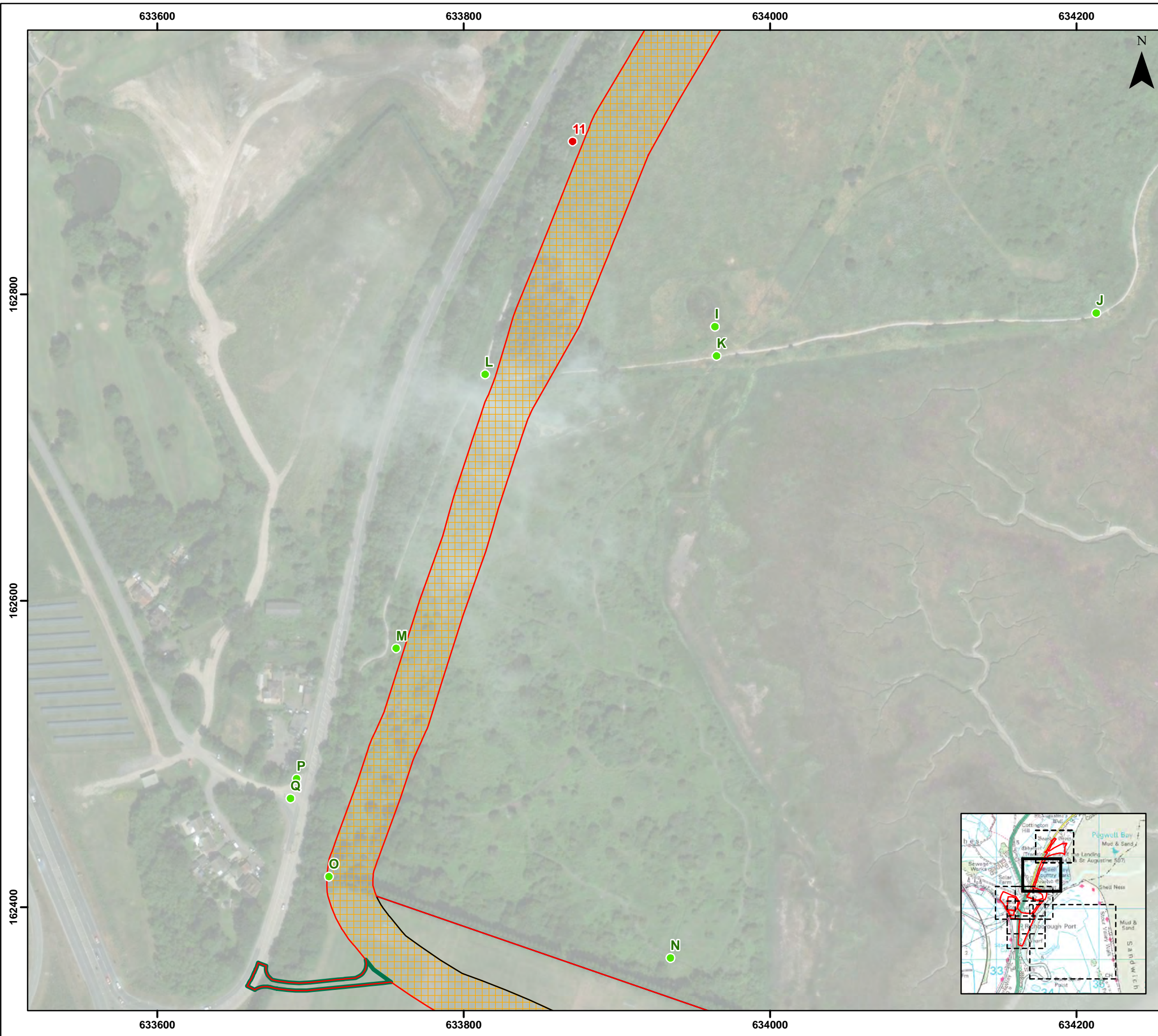
- Red Line Boundary
- Landfall Area
- Sea defence extension cofferdam extent
- Sea defence extension possible area
- Temporary works area
- Transition pit cofferdam extent
- Transition Pit - 12m x 22m
- Subsea Cable Installation Area -19m
- Cable corridor; Above Ground Stabilisation Area - 15m
- Possible Access
- Construction and Laydown Area
- Cable corridor; Above Ground Stabilisation Area - 15m
- Cable Route Viewpoints
 - 10. Pegwell Bay Country Park near the birdhide
 - 11. Cycle route and path adjacent to Sandwich Road
 - 12. Cycle route and path near Sandwich Road access
 - 13. Sandwich Road
- Context Photo Locations
 - A. View across Nemo Cable Route at Pegwell Bay Country Park car park
 - B. View from mown path east of Nemo cable route
 - C. View towards Cliffsend from proposed landfall (Pegwell Bay Country Park)
 - D. View towards proposed landfall from mown path (Pegwell Bay Country Park)
 - E. View south along RCR 15 near the Pegwell Bay Country Park car park
 - F. View north along RCR 15 and Nemo cable route (Pegwell Bay Country Park)
 - G. View towards access off Sandwich Road (Pegwell Bay Country Park)
 - H. View from access off Sandwich Road (Pegwell Bay Country Park)

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THANET EXTENSION OFFSHORE WIND FARM

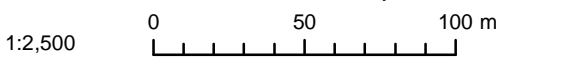
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Aerial Maps

Legend

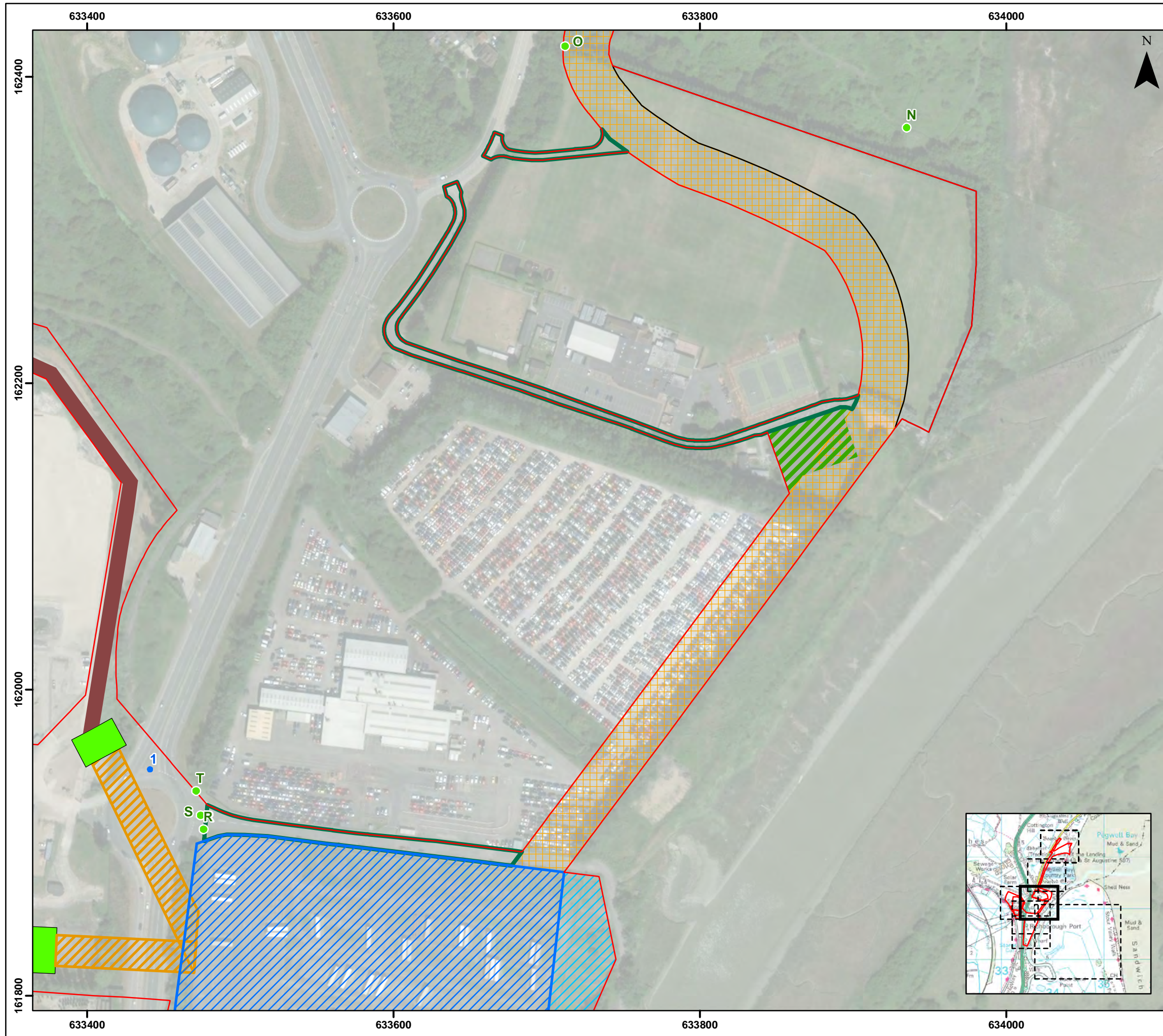
- Red Line Boundary
- Possible Access
- Temporary works area
- Cable corridor; Above Ground Stabilisation Area - 15m
- Cable Route Viewpoints
 - 11. Cycle route and path adjacent to Sandwich Road
- Context Photo Locations
 - I. View across wetland and grassland of Pegwell Bay Country Park
 - J. View across River Stour estuary towards proposed Substation
 - K. View across Stonelees Nature Reserve towards proposed Substation
 - L. View north along RCR 15 and Nemo cable route (Pegwell Bay Country Park)
 - M. View north along proposed cable route from Stonelees Nature Reserve
 - N. England Coastal Path in Stonelees Nature Reserve
 - O. View across recreation grounds towards Baypoint Club
 - P. View north along Sandwich Road
 - Q. View south along Sandwich Road

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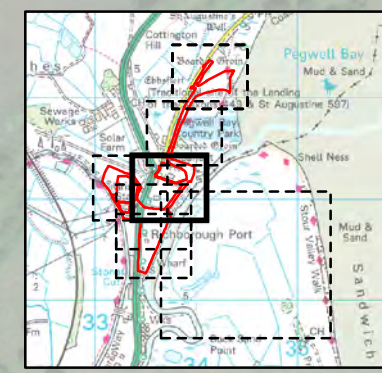


THANET EXTENSION OFFSHORE WIND FARM

Figure 2.7e (5 of 9)
Aerial Maps

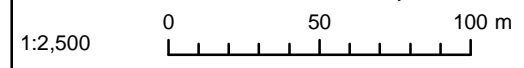
Legend

- Red Line Boundary
- Indicative Substation Area
- Possible Access
- Construction and Laydown Area
- Substation landscape area
- Temporary works area
- Trench - 2m x 2m & 5m separation
- Reception pit for HDD / HDD2 30m x 20m
- HDD / HDD2 crossing of A256 - 20m wide
- Cable corridor; Above Ground Stabilisation Area - 15m
- Context Photo Locations
 - N. England Coastal Path in Stonelees Nature Reserve
 - O. View across recreation grounds towards Baypoint Club
 - R. Under Construction Nemo Substation from Richborough Roundabout
 - S. British Car Auction access road from Richborough Roundabout
 - T. Existing Thanet Wind Farm Substation
- Substation Viewpoints
 - 1. A256 (Richborough Port Roundabout)



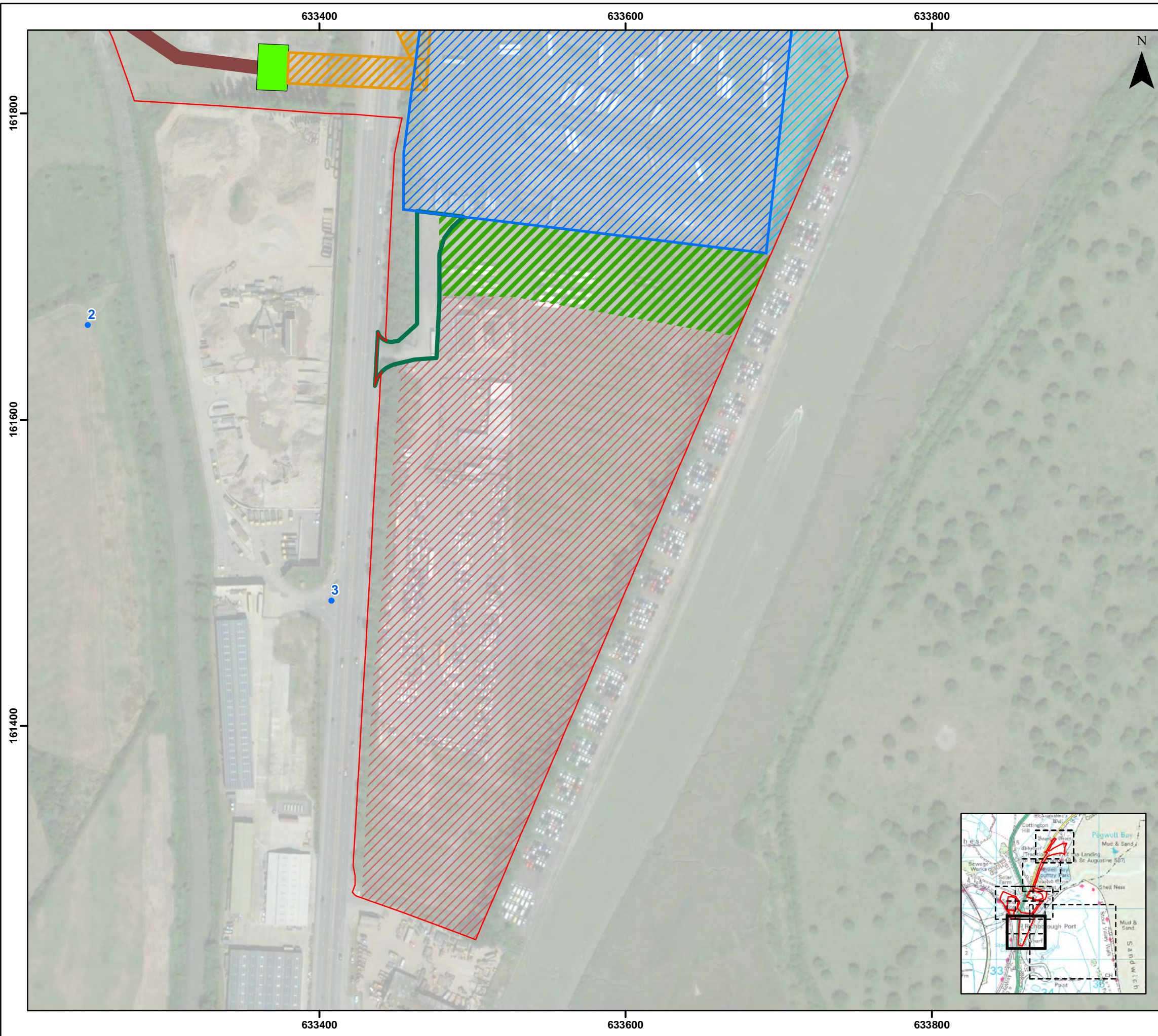
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Figure 2.7e



THANET EXTENSION OFFSHORE WIND FARM

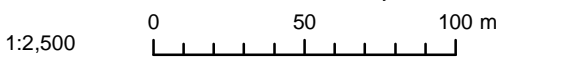
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Aerial Maps

Legend

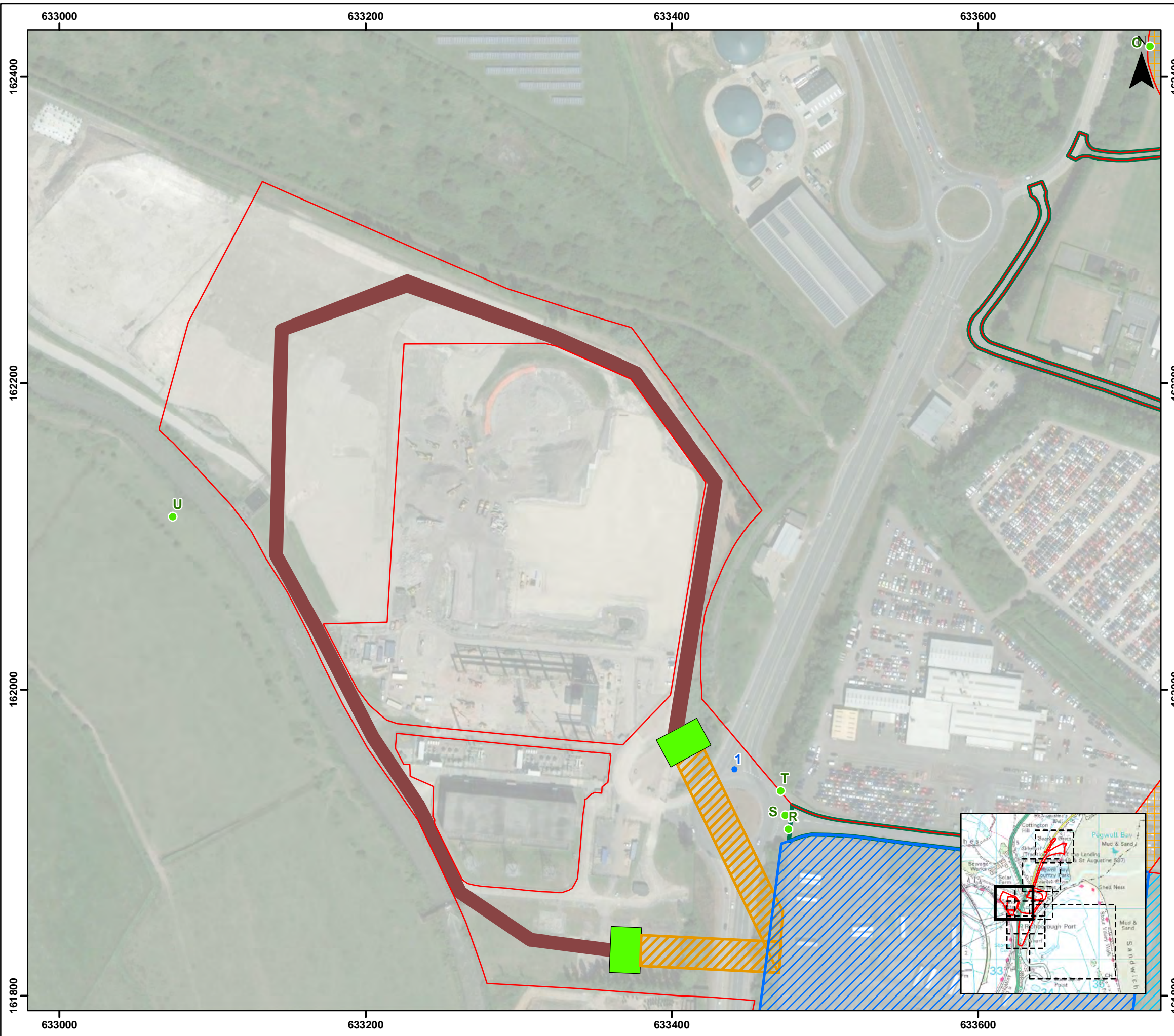
- Red Line Boundary
- Indicative Substation Area
- Possible Access
- Construction and Laydown Area
- Substation landscape area
- Tenant Relocation Area
- Trench - 2m x 2m & 5m separation
- Reception pit for HDD / HDD2 30m x 20m
- HDD / HDD2 crossing of A256 - 20m wide
- Substation Viewpoints
 2. Saxon Shore Way (South)
 3. A265 (Stevens Carlotti)

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THANET EXTENSION OFFSHORE WIND FARM

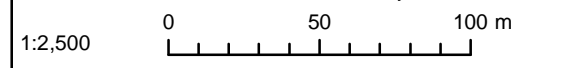
Figure 2.7g (7 of 9)
Aerial Maps

Legend

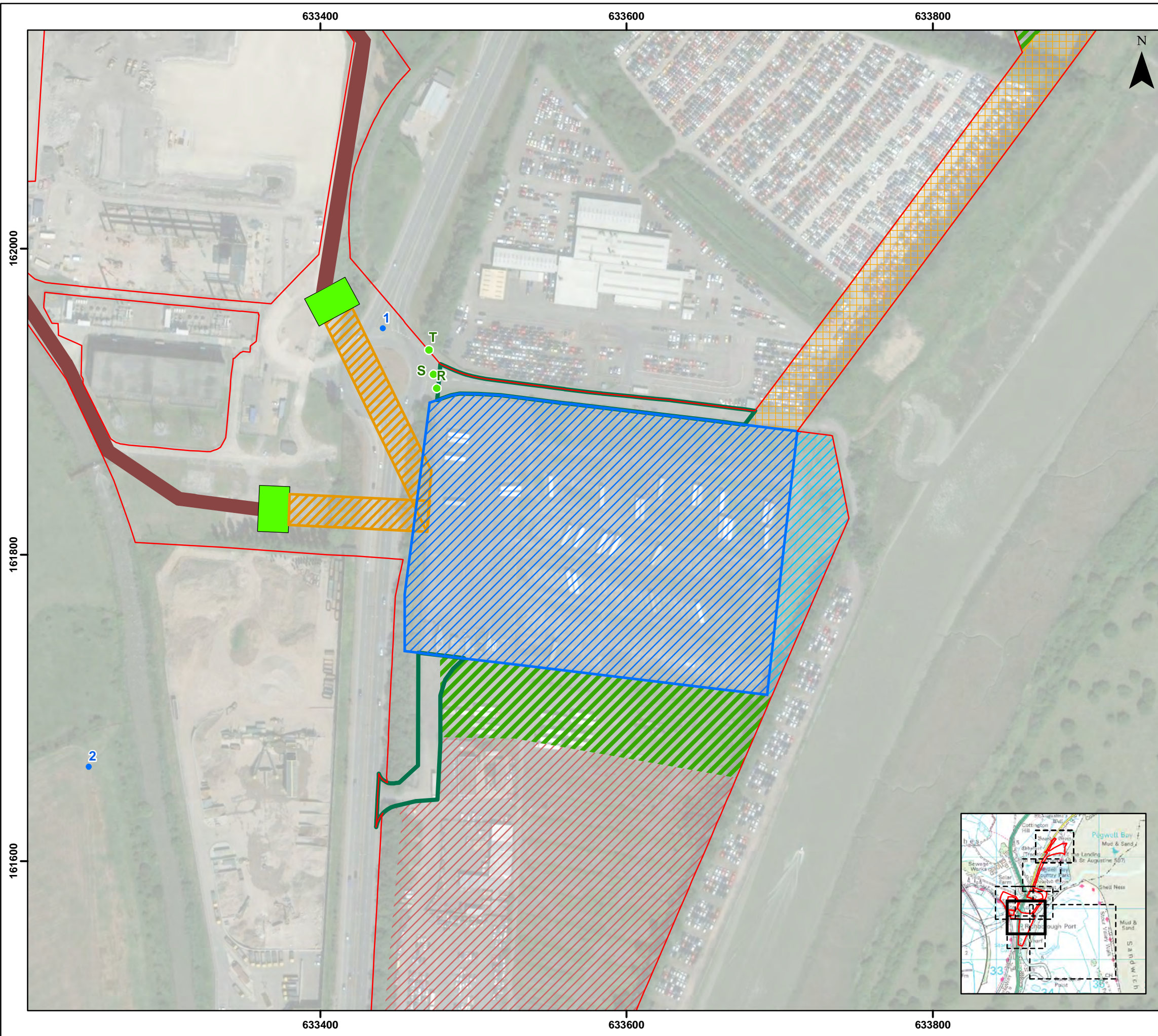
- Red Line Boundary
- Indicative Substation Area
- Possible Access
- Substation landscape area
- Trench - 2m x 2m & 5m separation
- Reception pit for HDD / HDD2 30m x 20m
- HDD / HDD2 crossing of A256 - 20m wide
- Cable corridor; Above Ground Stabilisation Area - 15m
- Context Photo Locations
 - O. View across recreation grounds towards Baypoint Club
 - R. Under Construction Nemo Substation from Richborough Roundabout
 - S. British Car Auction access road from Richborough Roundabout
 - T. Existing Thanet Wind Farm Substation
 - U. View east from Saxon Shore Way (River Stour west bank)
- Substation Viewpoints
 - 1. A256 (Richborough Port Roundabout)

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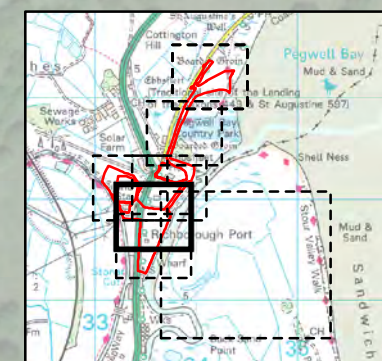


THANET EXTENSION OFFSHORE WIND FARM

Figure 2.7h (8 of 9)
Aerial Maps

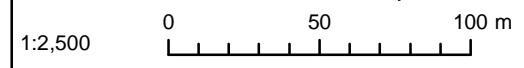
Legend

- Red Line Boundary
- Indicative Substation Area
- Possible Access
- Construction and Laydown Area
- Substation landscape area
- Tenant Relocation Area
- Trench - 2m x 2m & 5m separation
- Reception pit for HDD / HDD2 30m x 20m
- HDD / HDD2 crossing of A256 - 20m wide
- Cable corridor; Above Ground Stabilisation Area - 15m
- Context Photo Locations
 - R. Under Construction Nemo Substation from Richborough Roundabout
 - S. British Car Auction access road from Richborough Roundabout
 - T. Existing Thanet Wind Farm Substation
- Substation Viewpoints
 - 1. A256 (Richborough Port Roundabout)
 - 2. Saxon Shore Way (South)



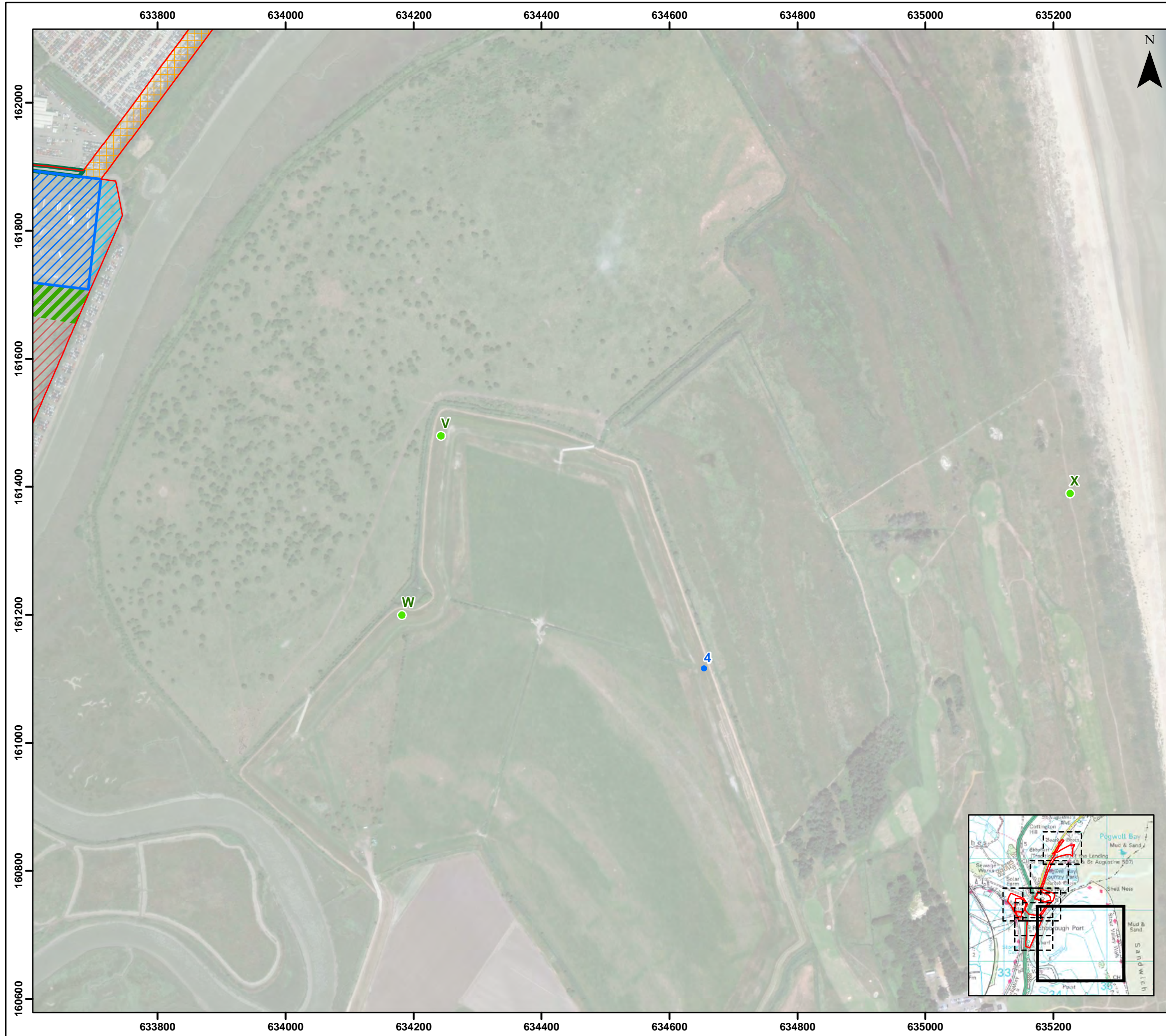
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Figure 2.7h



THANET EXTENSION OFFSHORE WIND FARM

Figure 2.7i (9 of 9)
Aerial Maps

Legend

- Red Line Boundary
- Indicative Substation Area
- Possible Access
- Construction and Laydown Area
- Substation landscape area
- Tenant Relocation Area
- Cable corridor; Above Ground Stabilisation Area - 15m
- Context Photo Locations
 - V. England Coast Path (Closest point on Sandwich Flats)
 - W. Industrial context at Great Stonar from England Coast Park (Sandwich Flats)
 - X. View west from Stoar Valley Walk on Sandwich Flats
- Substation Viewpoints
 - 4. Sandwich Flats (England Coastal Path)

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Figure 2.7i

**THANET EXTENSION
OFFSHORE WIND FARM**

Figure 2.8a
Context Photo Sheet 1



A - View across Nemo Cable Route at Pegwell Bay Country Park car park

B - View from mown path east of Nemo cable route



C - View towards Cliffsend from proposed landfall (Pegwell Bay Country Park)

D - View towards proposed landfall from mown path (Pegwell Bay Country Park)

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**Figure
2.8a**

**THANET EXTENSION
OFFSHORE WIND FARM**

Figure 2.8b
Context Photo Sheet 2



E - View south along RCR 15 near the Pegwell Bay Country Park car park

F - View north along RCR 15 and Nemo cable route (Pegwell Bay Country Park)



G - View towards access off Sandwich Road (Pegwell Bay Country Park)

H - View from access off Sandwich Road (Pegwell Bay Country Park)

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**Figure
2.8b**

**THANET EXTENSION
OFFSHORE WIND FARM**

Figure 2.8c
Context Photo Sheet 3



I - View across wetland and grassland of Pegwell Bay Country Park

J - View across River Stour estuary towards proposed Substation



K - View across Stonelees Nature Reserve towards proposed Substation

L - View north along RCR 15 and Nemo cable route (Pegwell Bay Country Park)

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**Figure
2.8c**

**THANET EXTENSION
OFFSHORE WIND FARM**

Figure 2.8d
Context Photo Sheet 4



M - View north along proposed cable route from Stonelees Nature Reserve

N - England Coast Path in Stonelees Nature Reserve



O - View across recreation grounds towards Baypoint Club

P - View north along Sandwich Road

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**Figure
2.8d**

**THANET EXTENSION
OFFSHORE WIND FARM**

Figure 2.8e
Context Photo Sheet 5



Q - View south along Sandwich Road



R - Nemo Substation from Richborough Roundabout



S - British Car Auction access road from Richborough Roundabout



T - Existing Thanet Wind Farm Substation

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Figure 2.8e

**THANET EXTENSION
OFFSHORE WIND FARM**

Figure 2.8f
Context Photo Sheet 6



U - View east from Saxon Shore Way (River Stour west bank)

V - England Coast Path (Closest point on Sandwich Flats)



W - Industrial context at Great Stonar from England Coast Path (Sandwich Flats)

X - View west from Stour Valley Walk on Sandwich Flats

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**Figure
2.8f**

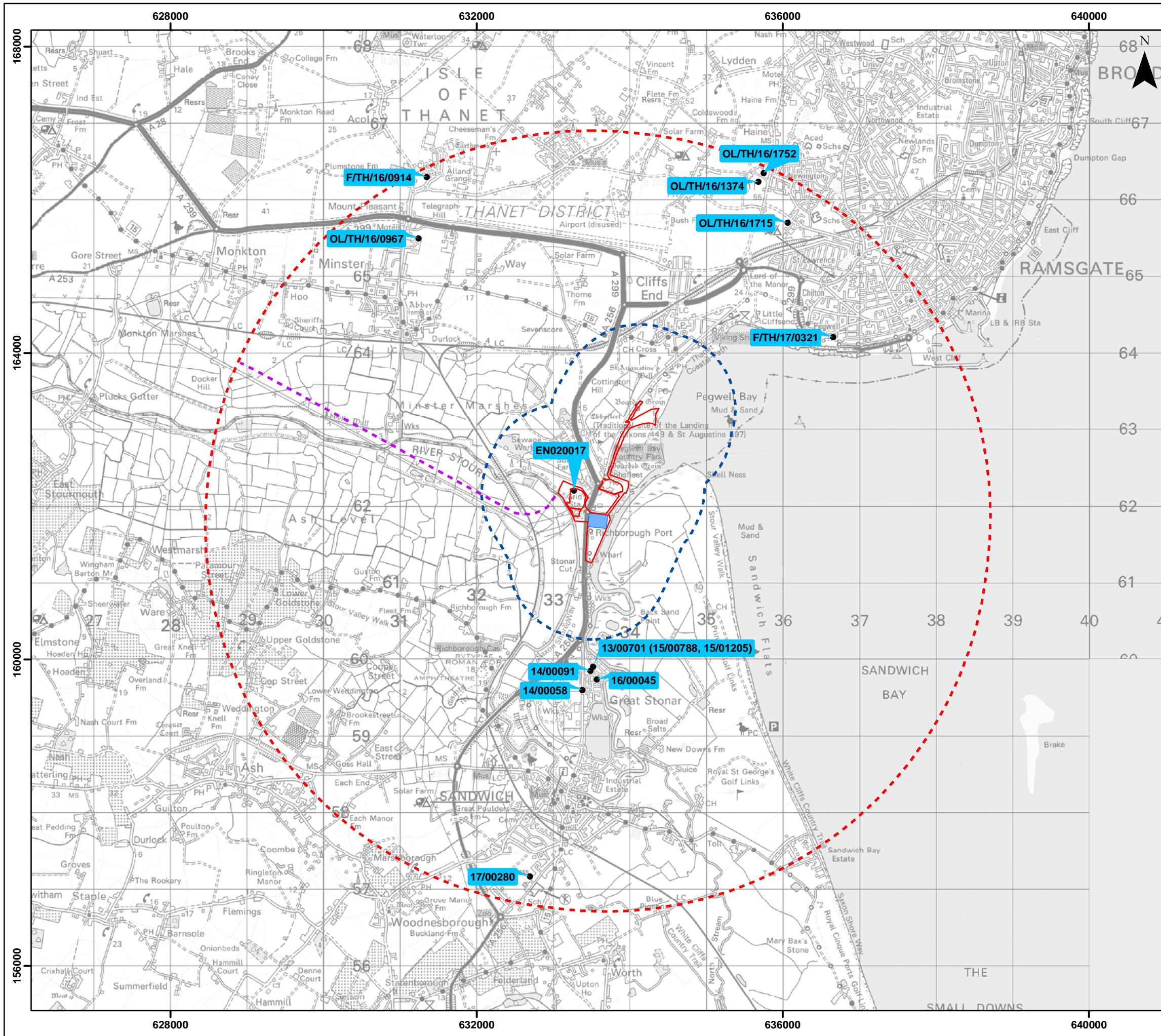


Figure 2.9a Cumulative Development Location Plan

Legend

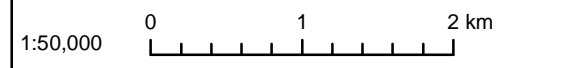
- Red Line Boundary
- Indicative Substation Area
- Cable Route Study Area 1km
- Substation Study Area 5km
- Cumulative Site Locations
- Richborough Connection

See Figure 2.9b for Cumulative Development Location Legend

Datum: OSGB 1936
Projection: BNG



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Drg No	VF_LVIA_Fig2-9a_CDevPlan	Figure 2.9a			
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By	MF			Layout	THET2018

THANET EXTENSION OFFSHORE WIND FARM

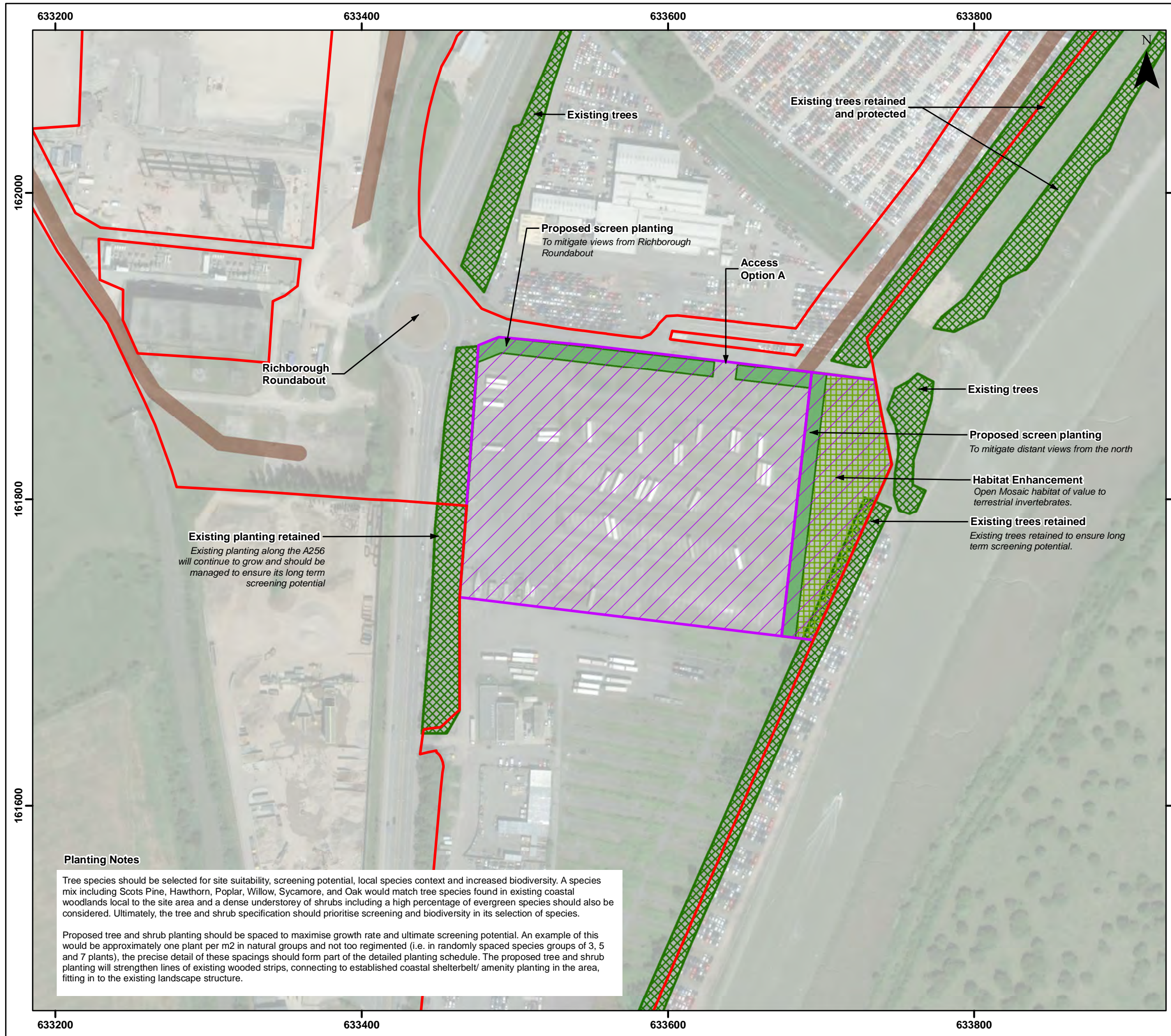
Figure 2.9b
Cumulative Development
Location Key

Reference	Description/ Location	Type	Description
Consented			
Dover District Council 13/00701, (15/00788, 15/01205)	Site North East side of Discovery Park & Access, Ramsgate Road, Sandwich, CT13 9ND	Energy	'Erection of a biomass combined heat and power plant with fuel storage and associated works '
Dover District Council 14/00058	Discovery Park, Ramsgate Road, Sandwich, CT13 9ND	Commercial/ Residential	'Outline application for the redevelopment of site to include: demolition of some existing buildings (and associated infrastructure); change of use of some existing buildings (from B1 to use classes: B2, B8, Sui Generis (Energy) and D1 uses); the provision of new commercial (use classes: A3/4, B1, B2, B8, C1, D1 and Sui Generis) and residential (use class: C3) development; associated site preparation/enabling, infrastructure, and landscaping works; and provision of car parking (with some matters reserved) '
Dover District Council 14/00091	Discovery Park, Site North East, Ramsgate Road, Sandwich, CT13 9ND	Energy	'The use of land for additional log storage processing area and wood chip store in association with biomass combined '
Dover District Council 16/00045	Discovery Park, Site North East, Ramsgate Road, Sandwich, CT13 9ND	Energy	'Erection of a 4,230 m ² research, development and manufacturing building, ancillary office floorspace (Class B2), car park and servicing area'
PINS EN020017	Richborough Energy Park to Canterbury East substation, Kent	Grid	'Richborough Connection: Proposed 400 kV electricity transmission connection between Richborough and Canterbury in Kent to connect the proposed new UK to Belgium interconnector (known as the Nemo Link).'
Application			
Dover District Council 17/00280	Former Kumor Nursery and 121 Dover Road, Sandwich, CT13 0DA	Housing	'Erection of 67 no. dwellings, single and double garages, new vehicular access, associated parking'
Thanet District Council F/TH/17/ 0321	Pegwell Road RAMSGATE Kent CT11 0JE	Housing	'Change of use and conversion to 7 no. self-contained flats, erection of 5 no. 3-storey terraced houses and erection of 2 no. 3-storey semi-detached houses'
Thanet District Council OL/TH/16/ 1715	Land South Of Manston Road RAMSGATE Kent	Housing	'Outline application for 48 dwellings including access with all other matters reserved '
Thanet District Council OL/TH/16/ 1374	St Stephens Haine Road RAMSGATE Kent CT12 5ES	Housing	'Application for outline planning permission for 95 dwellings with all matters reserved and full planning permission for 5 dwellings on land at St Stephens Bungalow and adjoining land.'
Thanet District Council OL/TH/16/ 0967	Land Adjacent 15 Southall Close Minster RAMSGATE Kent	Housing	'Outline Application for the erection of 12 detached dwellings, with access via Southall Close including access, layout and scale'
Thanet District Council OL/TH/16/ 1752	Land At Haine Lodge Spratling Lane RAMSGATE Kent CT12 5LL	Housing	'Outline application for the development of 14 houses and retention of existing dwelling with access from Spratling Lane including details of access with all other matters reserved '
Thanet District Council F/TH/16/ 0914	Land South Of Invicta Way Ramsgate Kent	Housing	'Erection of 12 No. general industrial units'

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**Figure
2.9b**



THANET EXTENSION OFFSHORE WIND FARM

Figure 2.10a Substation Area - Option A Landscape Mitigation

- Legend**
- Red Line Boundary (Cable corridor)
 - Indicative Substation Location
 - Indicative Cable Trench
 - Existing trees retained
 - Proposed Habitat Enhancement
 - Proposed Screening Planting

Existing planting retained
Existing planting along the A256 will continue to grow and should be managed to ensure its long term screening potential

Proposed screen planting
To mitigate views from Richborough Roundabout

Access Option A

Existing trees retained and protected

Existing trees

Proposed screen planting
To mitigate distant views from the north

Habitat Enhancement
Open Mosaic habitat of value to terrestrial invertebrates.

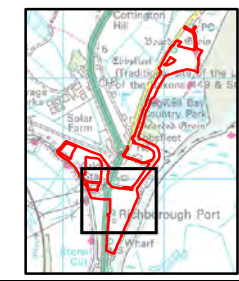
Existing trees retained
Existing trees retained to ensure long term screening potential.

Planting Notes

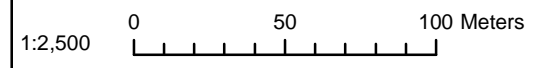
Tree species should be selected for site suitability, screening potential, local species context and increased biodiversity. A species mix including Scots Pine, Hawthorn, Poplar, Willow, Sycamore, and Oak would match tree species found in existing coastal woodlands local to the site area and a dense understorey of shrubs including a high percentage of evergreen species should also be considered. Ultimately, the tree and shrub specification should prioritise screening and biodiversity in its selection of species.

Proposed tree and shrub planting should be spaced to maximise growth rate and ultimate screening potential. An example of this would be approximately one plant per m2 in natural groups and not too regimented (i.e. in randomly spaced species groups of 3, 5 and 7 plants), the precise detail of these spacings should form part of the detailed planting schedule. The proposed tree and shrub planting will strengthen lines of existing wooded strips, connecting to established coastal shelterbelt/ amenity planting in the area, fitting in to the existing landscape structure.

Datum: OSGB 1936
Projection: BNG

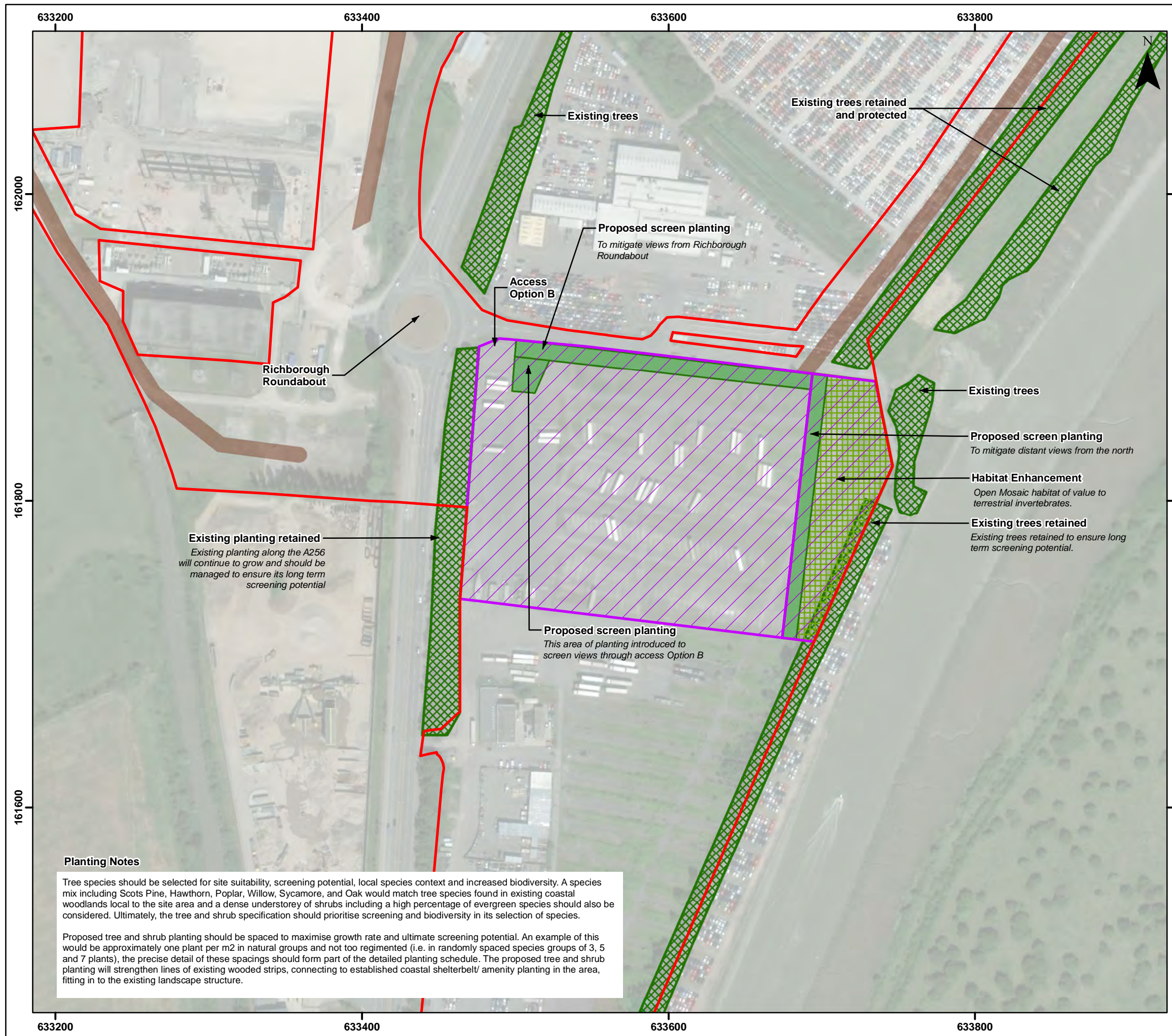


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Figure 2.10a



THANET EXTENSION OFFSHORE WIND FARM

Figure 2.10b Substation Area - Option B Landscape Mitigation

- Legend**
- Red Line Boundary (Cable corridor)
 - Indicative Substation Location
 - Indicative Cable Trench
 - Existing trees retained
 - Proposed Habitat Enhancement
 - Proposed Screening Planting

Existing planting retained
Existing planting along the A256 will continue to grow and should be managed to ensure its long term screening potential

Proposed screen planting
This area of planting introduced to screen views through access Option B

Proposed screen planting
To mitigate distant views from the north

Habitat Enhancement
Open Mosaic habitat of value to terrestrial invertebrates.

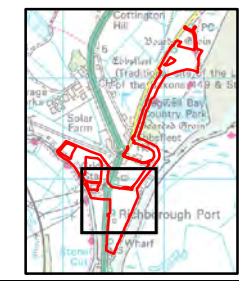
Existing trees retained
Existing trees retained to ensure long term screening potential.

Planting Notes

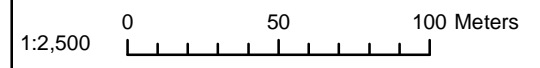
Tree species should be selected for site suitability, screening potential, local species context and increased biodiversity. A species mix including Scots Pine, Hawthorn, Poplar, Willow, Sycamore, and Oak would match tree species found in existing coastal woodlands local to the site area and a dense understorey of shrubs including a high percentage of evergreen species should also be considered. Ultimately, the tree and shrub specification should prioritise screening and biodiversity in its selection of species.

Proposed tree and shrub planting should be spaced to maximise growth rate and ultimate screening potential. An example of this would be approximately one plant per m2 in natural groups and not too regimented (i.e. in randomly spaced species groups of 3, 5 and 7 plants), the precise detail of these spacings should form part of the detailed planting schedule. The proposed tree and shrub planting will strengthen lines of existing wooded strips, connecting to established coastal shelterbelt/ amenity planting in the area, fitting in to the existing landscape structure.

Datum: OSGB 1936
Projection: BNG



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Figure 2.10b