

Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Book of Plans

Doc Ref: **2.16**

Heathwall Pumping Station

APFP Regulations 2009: Regulation **5(2)(k), (o)**

Hard copy available in
Box **62** Folder **A**
January 2013

Thames
Tideway Tunnel 
Creating a cleaner, healthier River Thames

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Application for Development Consent: Book of Plans

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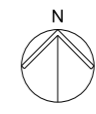
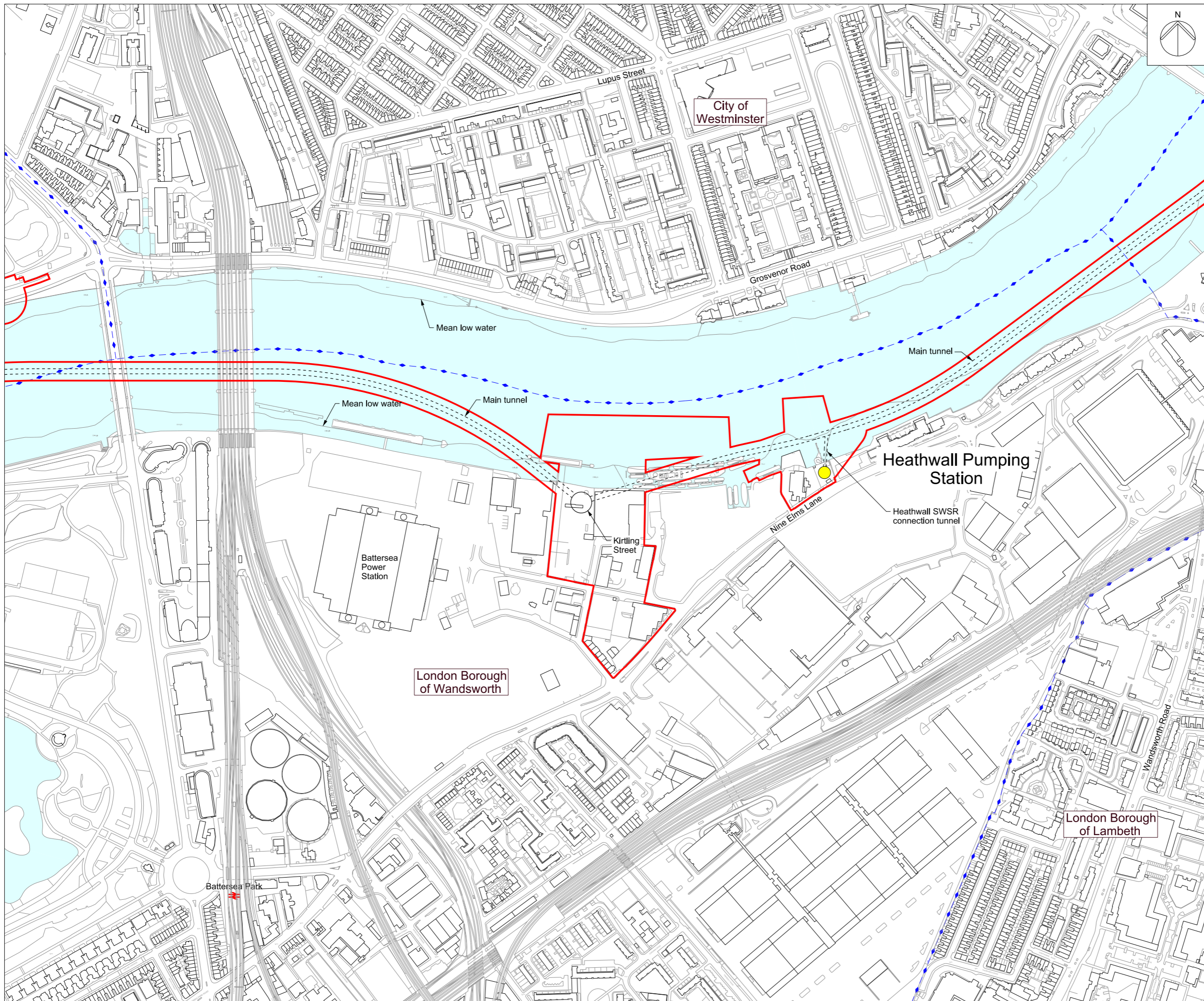
This volume is Volume 4

Volume 4

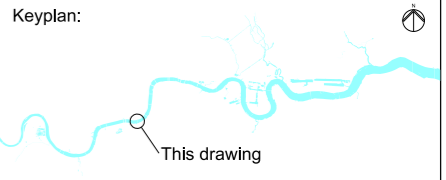
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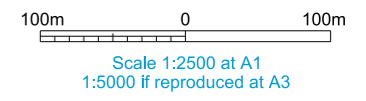


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:
- Local authority boundary
 - Order limits
 - Tunnel
 - Shaft

Notes:

1. The alignment of the tunnels are illustrative within limits of deviation.



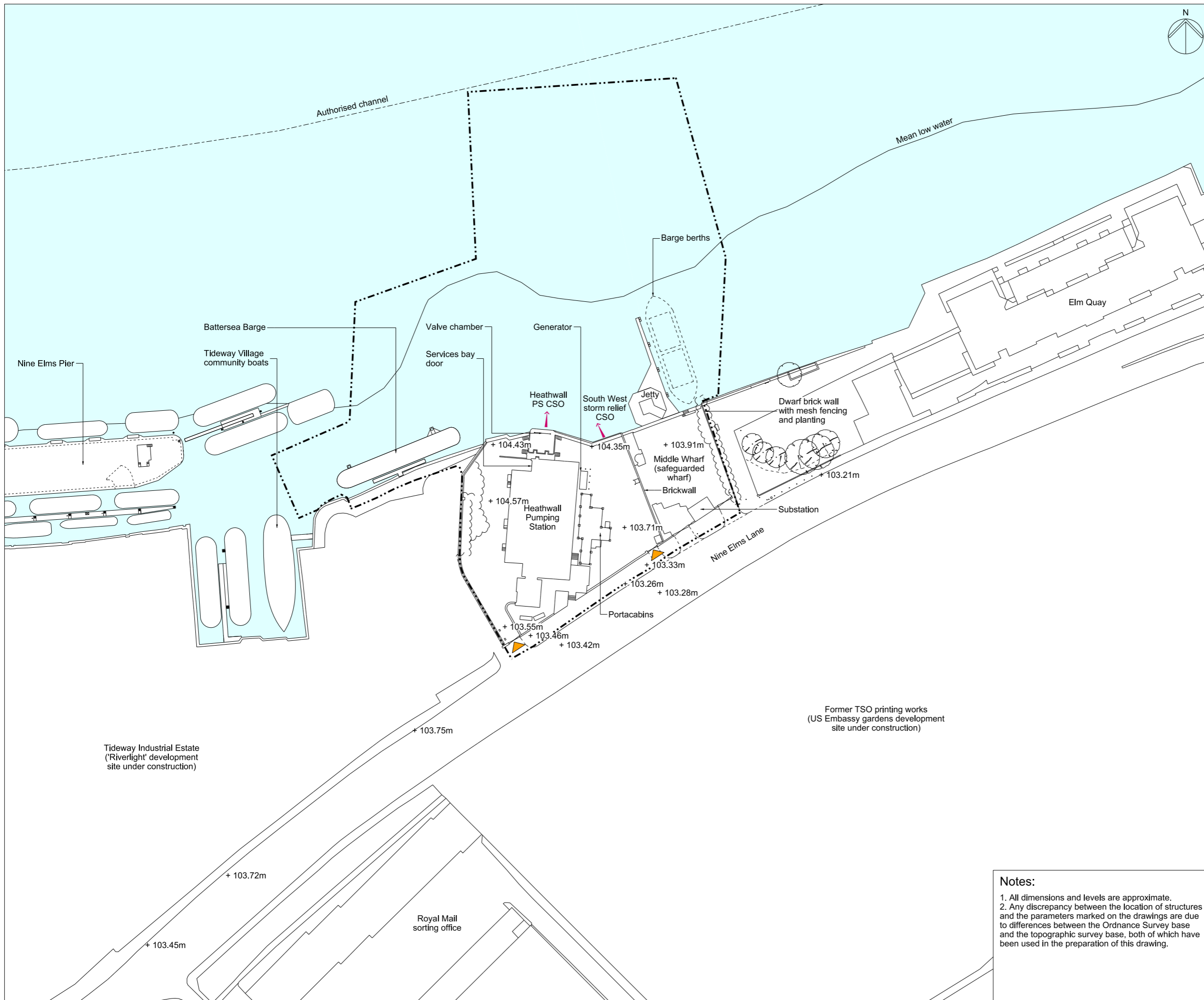
FOR INFORMATION

Location
Heathwall Pumping Station
 London Borough of Wandsworth

Document Information
Application for Development Consent
 Location plan

Book of plans - section 16
 DCO-PP-14X-HEAPS-160001
 January 2013



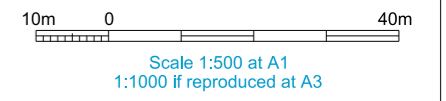


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - - - - - Authorised channel
 - + 105.40m Existing levels (shown in metres above tunnel datum)
 - Approximate position of CSO outlet
 - ⊙ Existing trees within surveyed area (trunk sizes vary)
 - ▲ Thames Water access



FOR INFORMATION

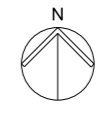
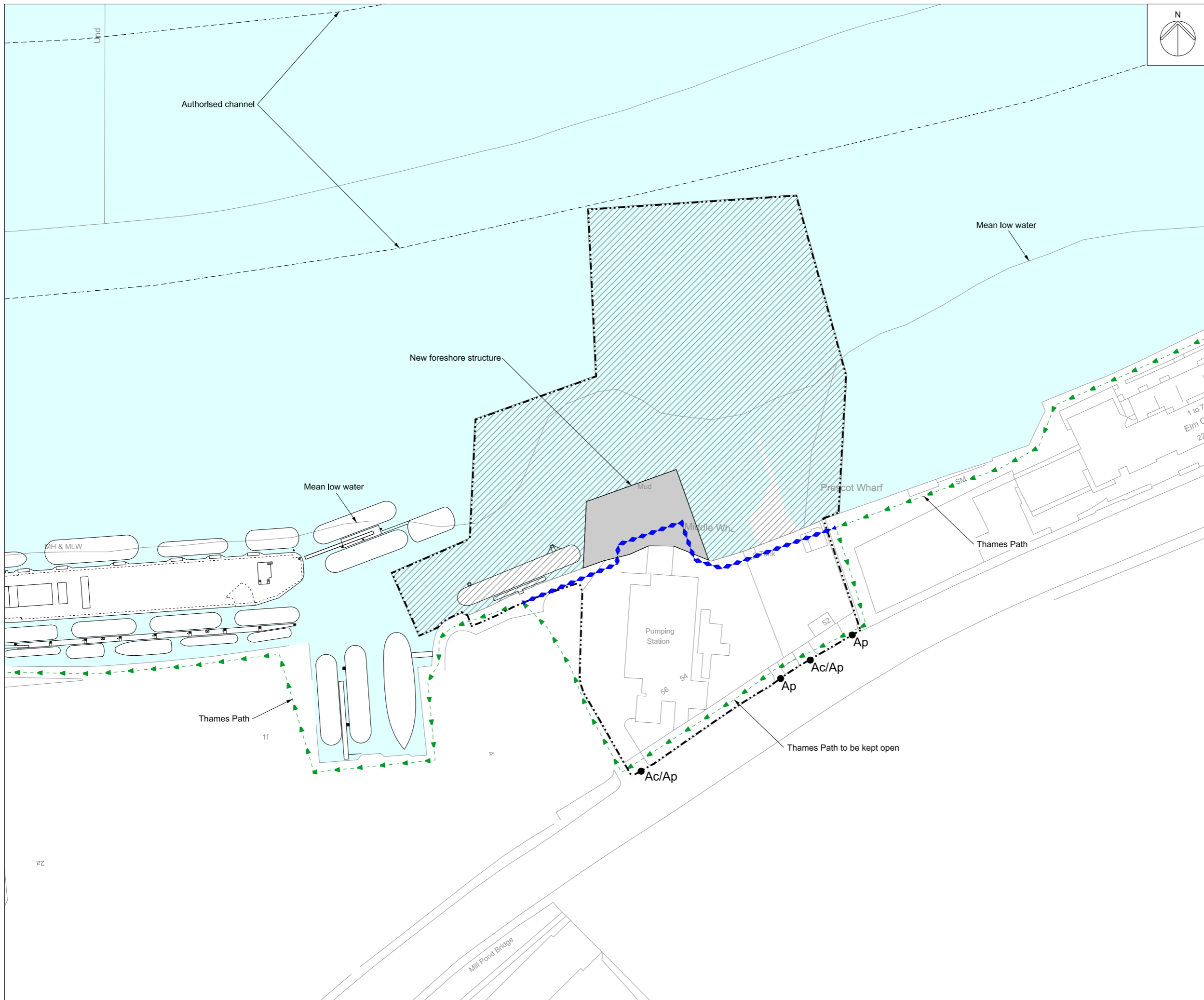
Location
Heathwall Pumping Station
 London Borough of Wandsworth

Document Information
Application for Development Consent
 As existing
 Site features plan
 Book of plans - section 16
 DCO-PP-14X-HEAPS-160002
 January 2013

Notes:

- All dimensions and levels are approximate.
- Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and the topographic survey base, both of which have been used in the preparation of this drawing.





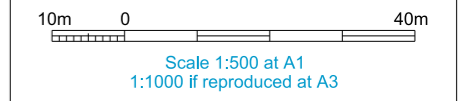
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing public right of way
 - Provision of permanent permissive right of way
 - Area of temporary suspension of public rights of navigation
 - Area of permanent extinguishment of public rights of navigation
 - Ap ● Access to permanent works
 - Ac ● Access to construction works

- Notes:**
1. This plan does not show stopping up and diversions of limited duration (e.g. hoarding erection, minor utility diversions and minor highway works).
 2. Only rights of way in or close to worksites are shown. The full extents of rights of way are not shown where they cease to be relevant to the project.
 3. This drawing shows the LLAU associated with the Heathwall Pumping Station site only.



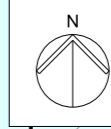
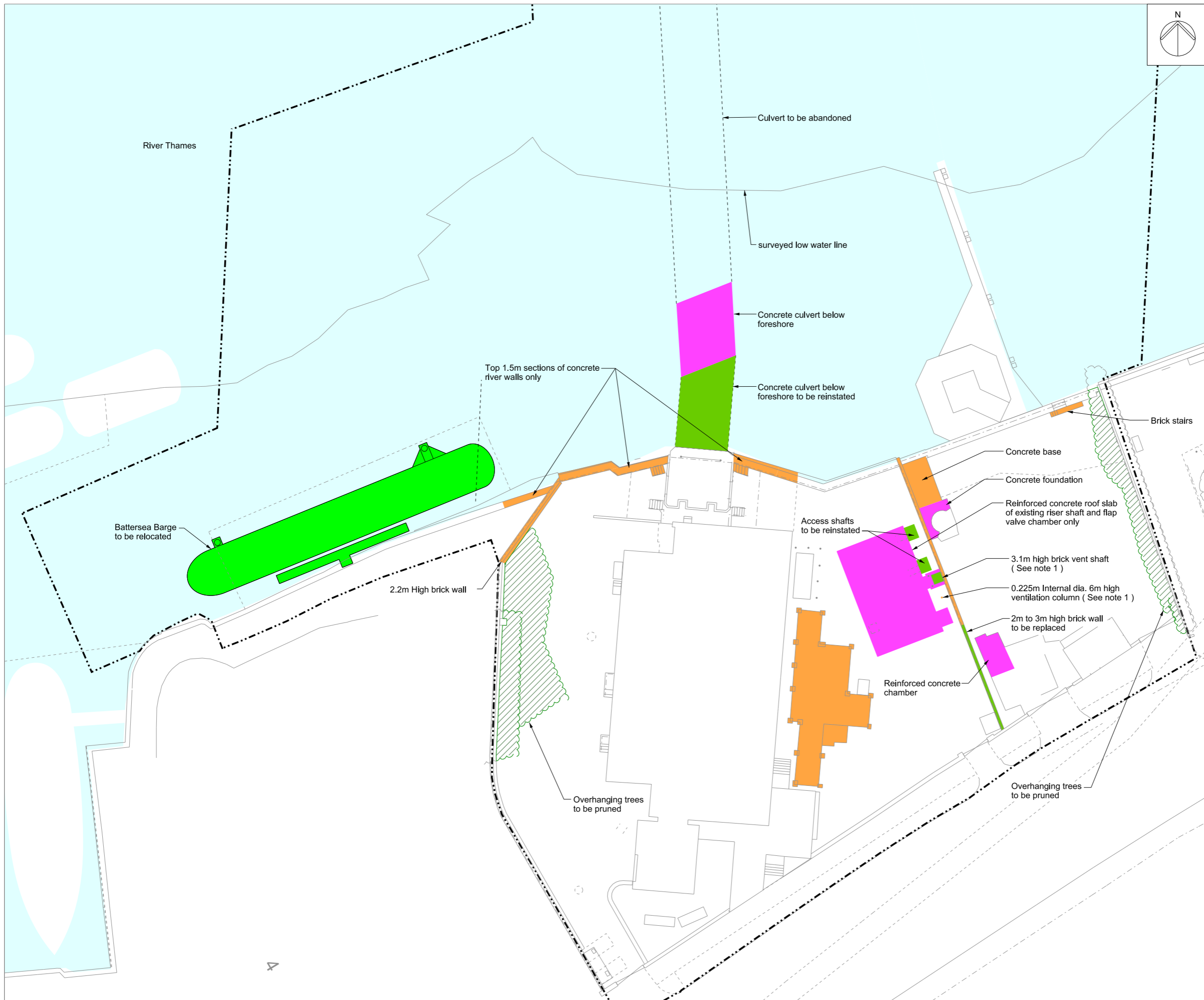
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Location
Heathwall Pumping Station
 London Borough of Wandsworth

Document Information
Application for Development Consent
 Access plan

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 DCO-PP-14X-HEAPS-160003
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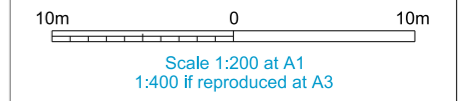
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Above ground structures to be removed
 - Below ground structures to be removed or infilled
 - Structure to be removed and relocated or reinstated
 - Trees to be pruned

- Notes:**
1. Existing ventilation columns to be replaced.
 2. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 3. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.



FOR APPROVAL

Location
Heathwall Pumping Station
London Borough of Wandsworth

Document Information
Application for Development Consent
Demolition and site clearance

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January 2013



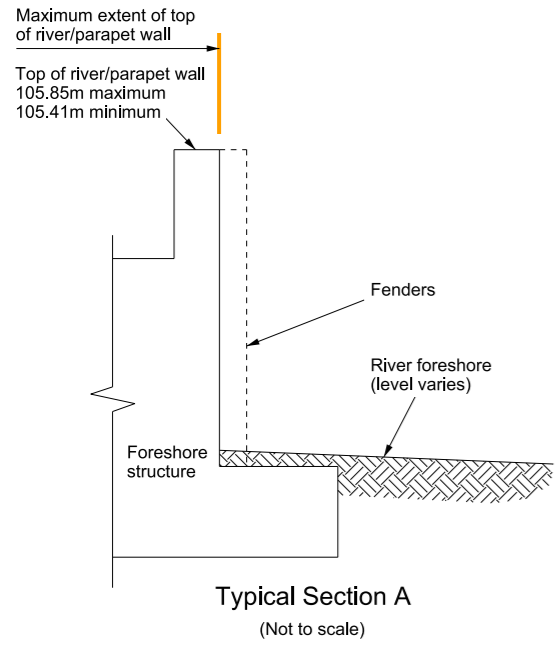
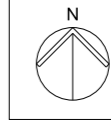
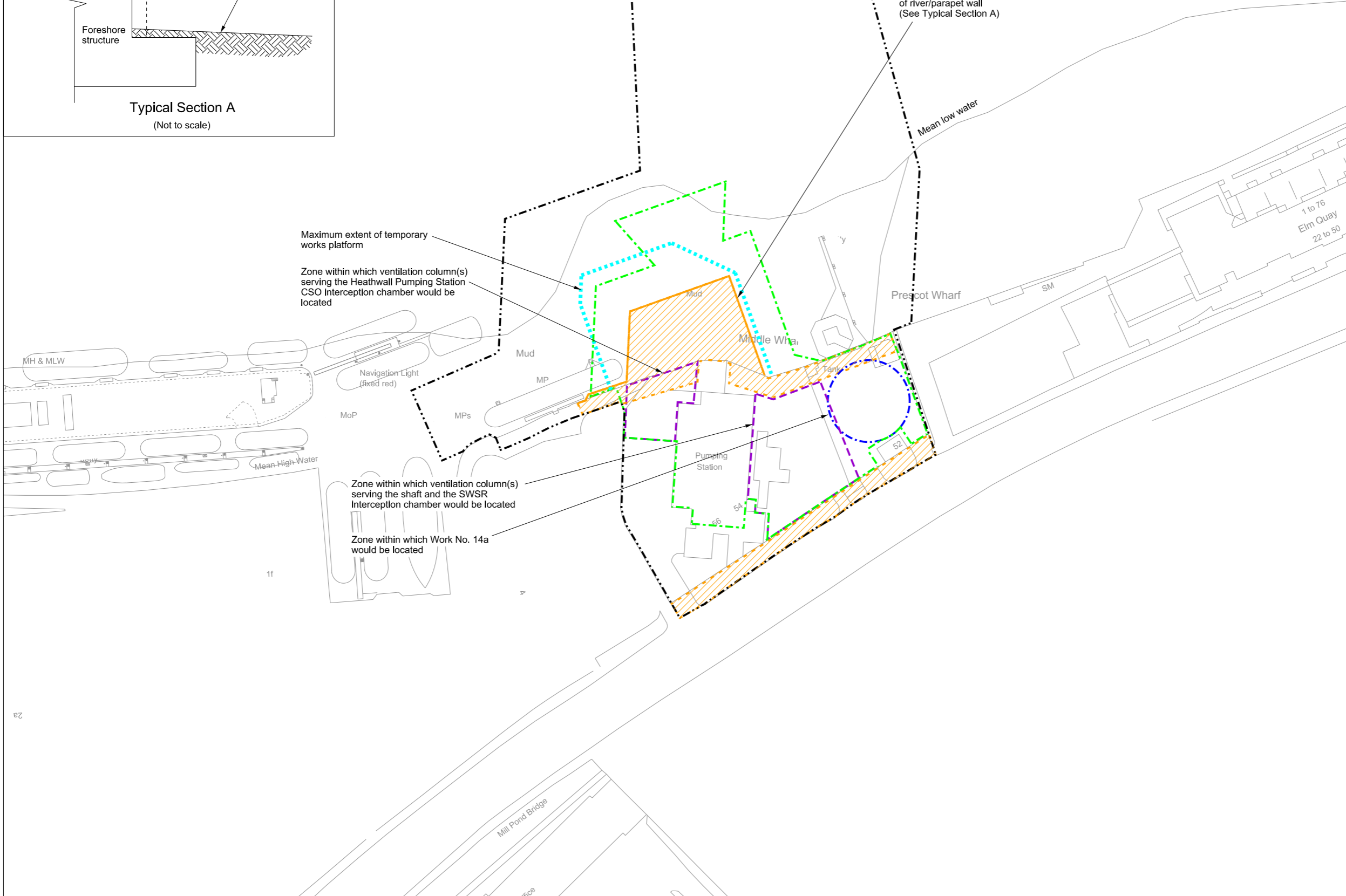


Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Ventilation column(s) serving the shaft	8.0m (4.0m)
Ventilation column(s) serving the SWSR interception chamber	8.0m (4.0m)
Ventilation column(s) serving the Heathwall Pumping Station CSO interception chamber	6.0m
SWSR Interception and flap valve chamber	1.5m

(SWSR denotes the South West Storm Relief Sewer)



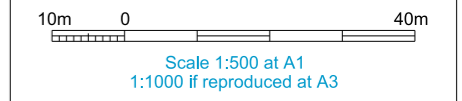
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - - - Zone within which all permanent site structures would be located
 - - - Zone within which the shaft would be located
 - - - Zone within which permanent above ground structures would be located (those listed in Table 1)
 - ▨ Zone within which required landscaping would be located
 - Maximum extent of intertidal terracing
 - ⋯ Maximum extent of temporary works platform

- Notes:**
1. All dimensions and levels are approximate.
 2. The Site Works Parameter Key Plan identifies each zone independently.
 3. The zone within which the shaft would be located would include all permanent works including shaft walls (including appropriate allowances for construction tolerances) and if applicable under-reaming. Shaft construction temporary works may be located within or outside this zone provided they are located within the Limits of land to be acquired or used.



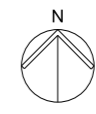
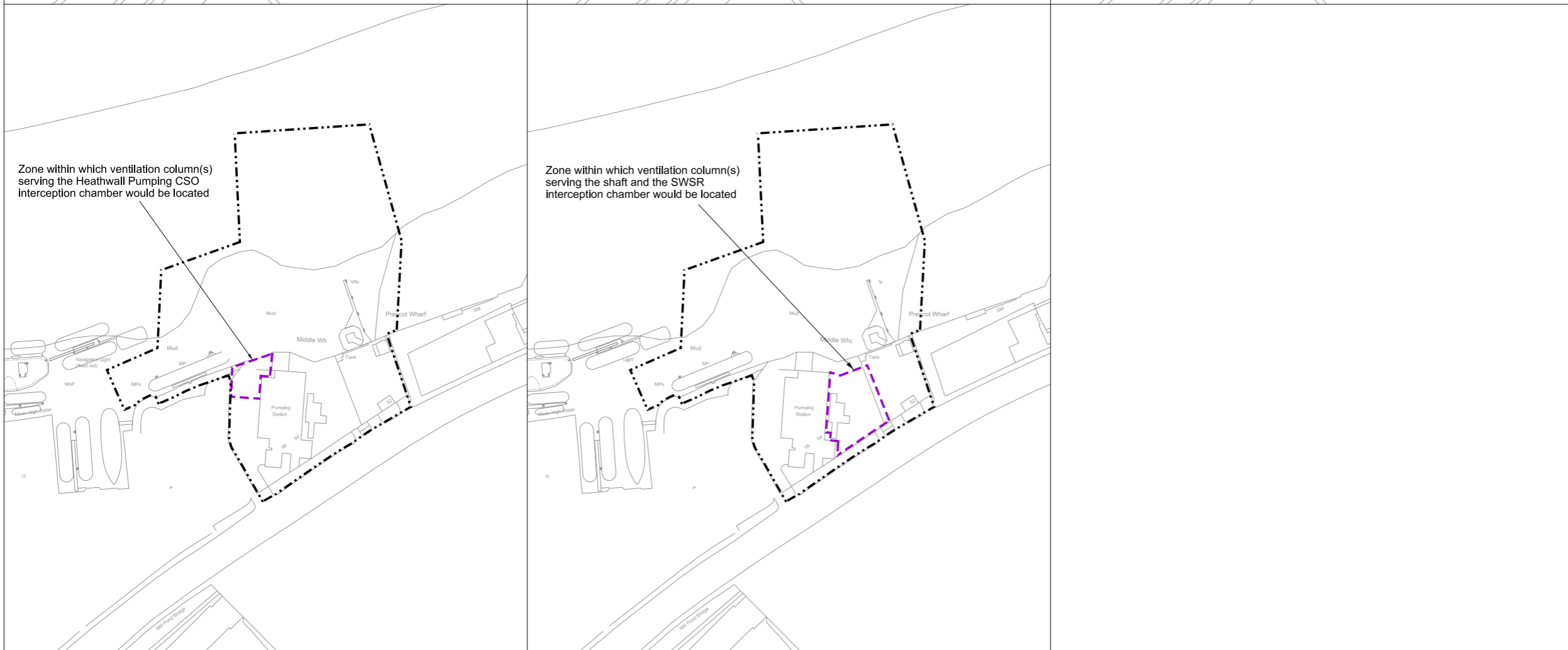
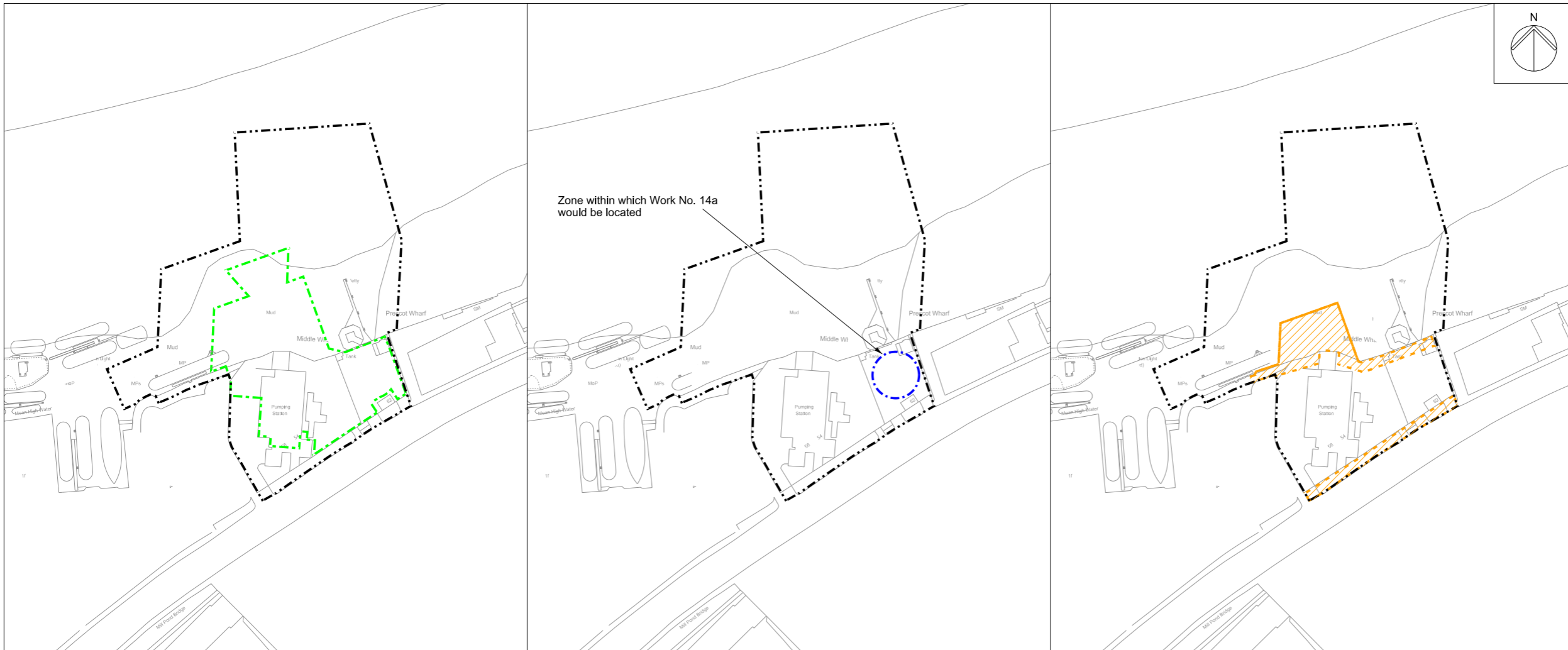
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Location
 Heathwall Pumping Station
 London Borough of Wandsworth

Document Information
 Application for Development Consent
 Site works parameter plan

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 DCO-PP-14X-HEAPS-160005
 January 2013





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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located
 - Zone within which required landscaping would be located
 - Maximum extent of intertidal terracing

- Notes:**
1. All dimensions and levels are approximate.
 2. The Site Works Parameter Key Plan identifies each zone independently. The zones are identical to those shown on the Site works parameter plans.
 3. The zone within which the shaft would be located would include all permanent works including shaft walls (including appropriate allowances for construction tolerances) and if applicable under-reaming. Shaft construction temporary works may be located within or outside this zone provided they are located within the Limits of land to be acquired or used.

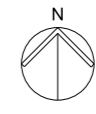
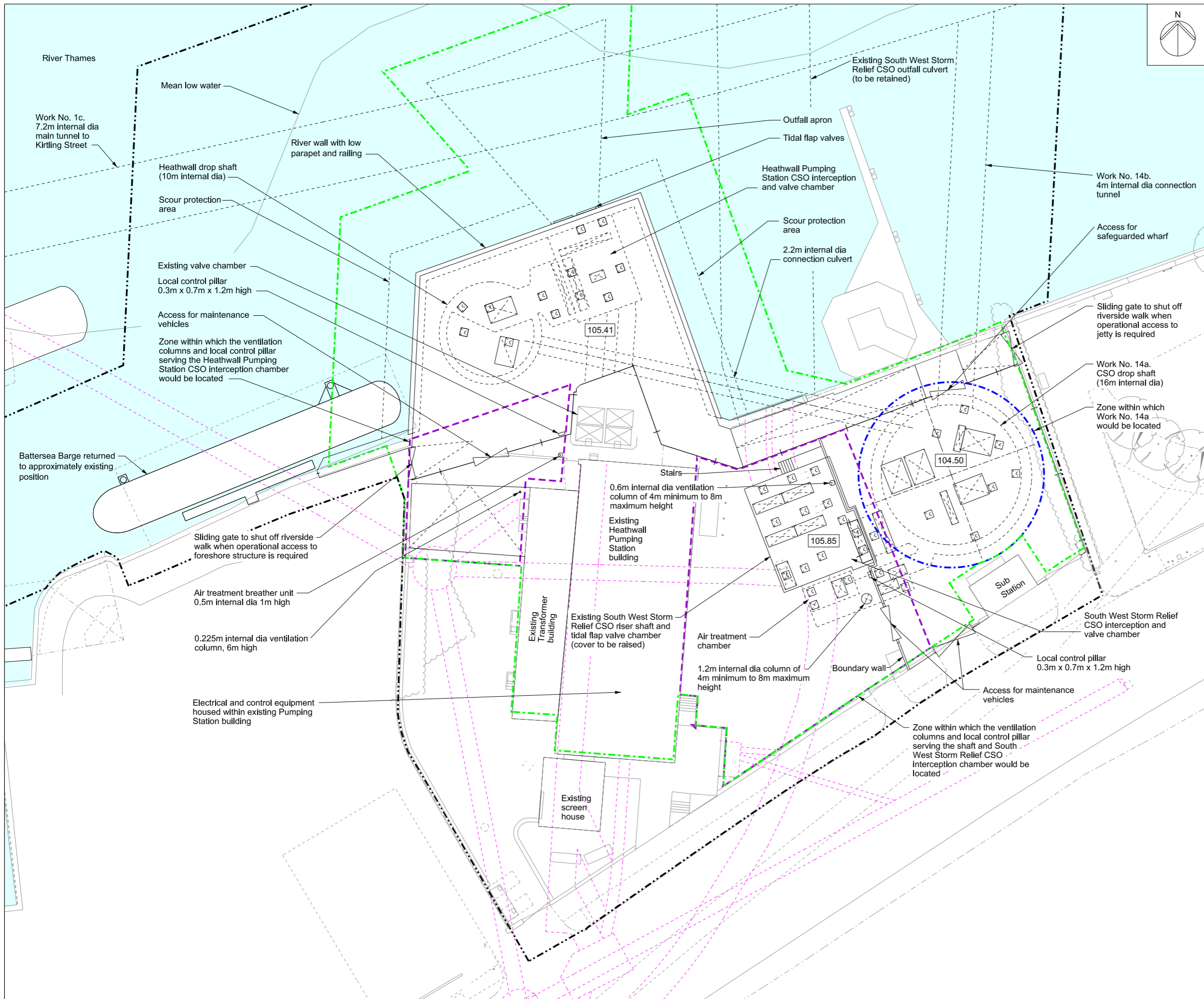
FOR INFORMATION

Location
Heathwall Pumping Station
 London Borough of Wandsworth

Document Information
Application for Development Consent
 Site works parameter key plan

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 DCO-PP-14X-HEAPS-160006
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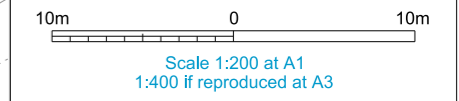
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing sewers
 - ⊠ Proposed access cover
 - 104.50 Proposed level (shown in metres above tunnel datum)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located

- Notes:**
1. All dimensions and levels are approximate.
 2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and topographical survey base, both of which have been used in the preparation of this drawing.
 3. This drawing shows permanent site structures only. Landscaping hard works and soft works are shown on the Proposed landscape plan and/or Proposed site features plan.



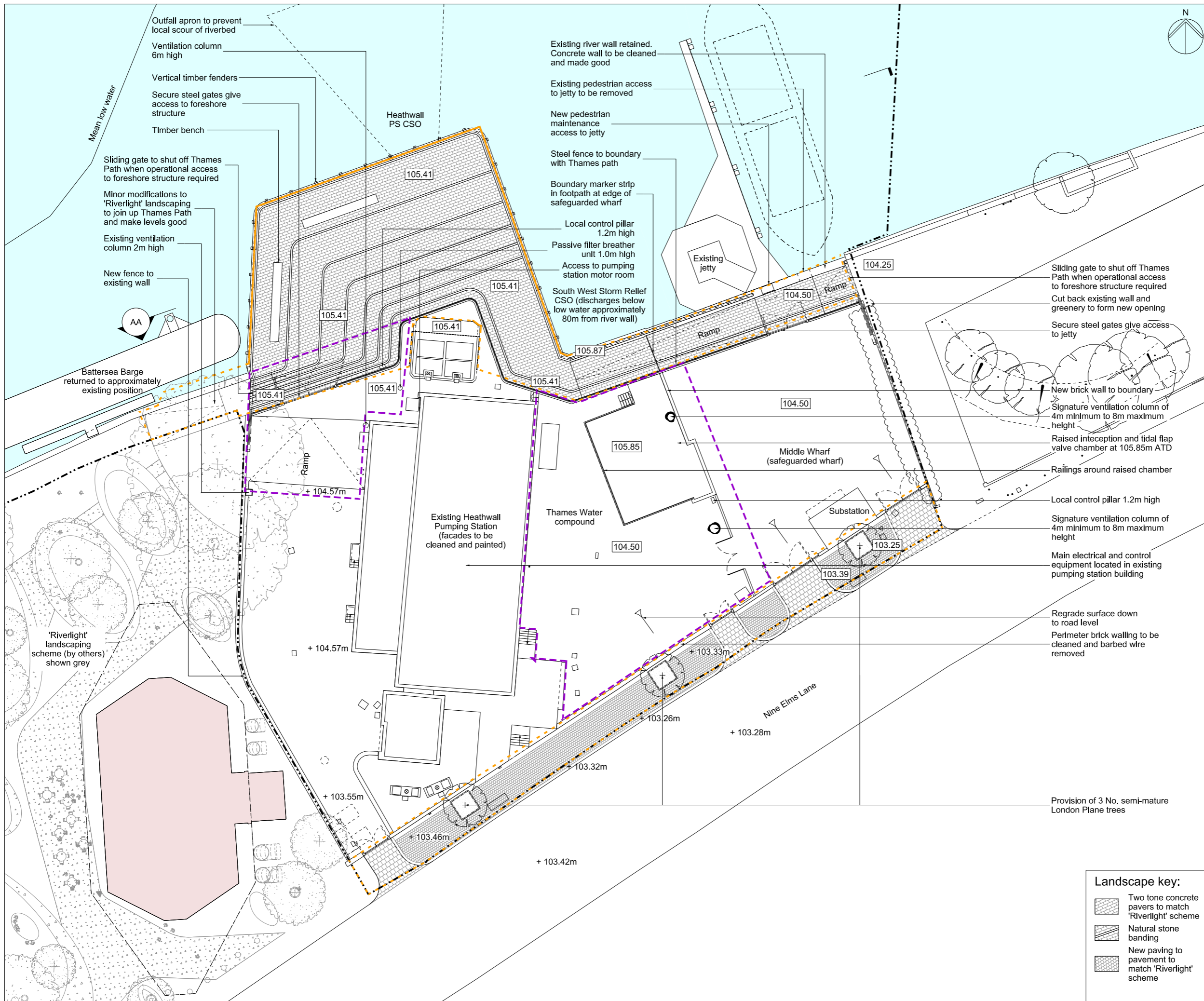
ILLUSTRATIVE

Location
Heathwall Pumping Station
London Borough of Wandsworth

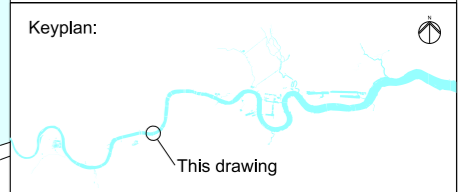
Document Information
Application for Development Consent
Permanent works layout

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DCO-PP-14X-HEAPS-160007
January 2013





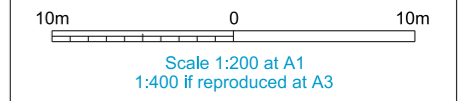
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which permanent above ground structures would be located
 - Zone within which required landscaping would be located
 - Maximum extent of foreshore structure
 - + 105.40m Existing levels (shown in metres above tunnel datum)
 - 105.40 Proposed levels (shown in metres above tunnel datum)
 - Consented development footprint (by others)
 - Existing trees within surveyed area (trunk sizes vary)
 - Proposed trees

- Notes:**
1. All dimensions and levels are approximate.
 2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and the topographic survey base, both of which have been used in the preparation of this drawing.
 3. The above ground structures in the "Save for the layout of above ground structures which is illustrative" statement are those listed in table 1 on the Site works parameter plan.
 4. Access covers not shown on this drawing. Refer to the Permanent works layout for an indication of the extent of access covers required.



INDICATIVE
Save for layout of above ground structures which is illustrative

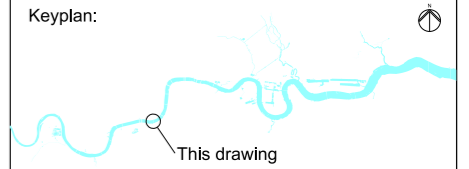
Location
Heathwall Pumping Station
London Borough of Wandsworth

Document Information
Application for Development Consent
Proposed
Landscape plan
Book of plans - section 16
DCO-PP-14X-HEAPS-160008
January 2013



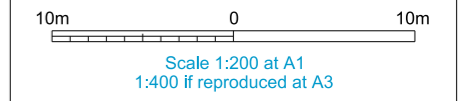
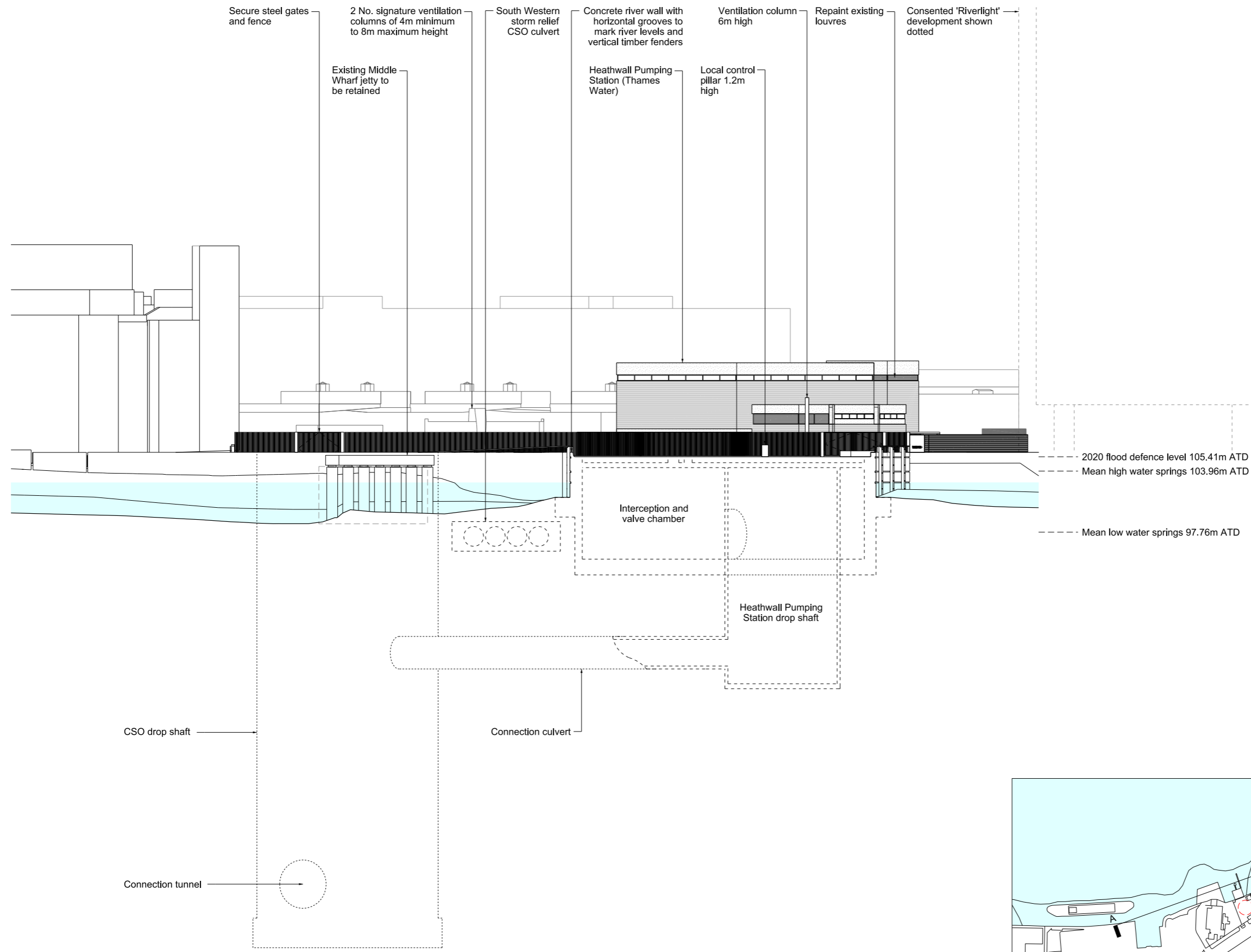
- Landscape key:**
- Two tone concrete pavers to match 'Riverlight' scheme
 - Natural stone banding
 - New paving to pavement to match 'Riverlight' scheme

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Notes:
 1. All dimensions and levels are approximate.
 2. The purpose of this section is to show the scale of the below ground infrastructure to be provided.

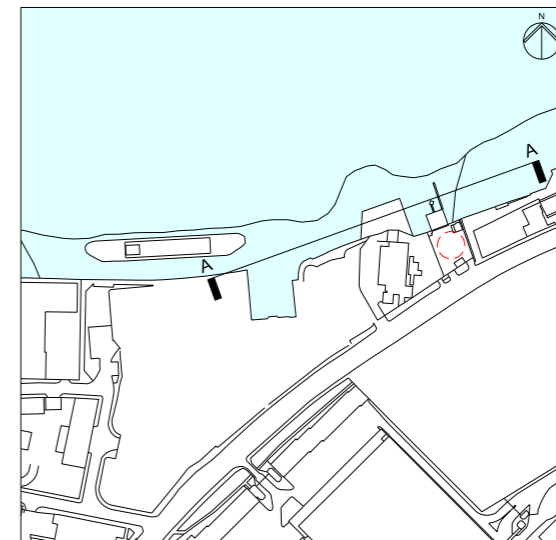


ILLUSTRATIVE

Location
Heathwall Pumping Station
 London Borough of Wandsworth

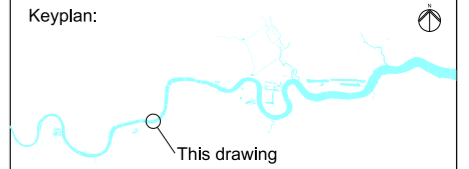
Document Information
Application for Development Consent
 Section AA

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Section AA

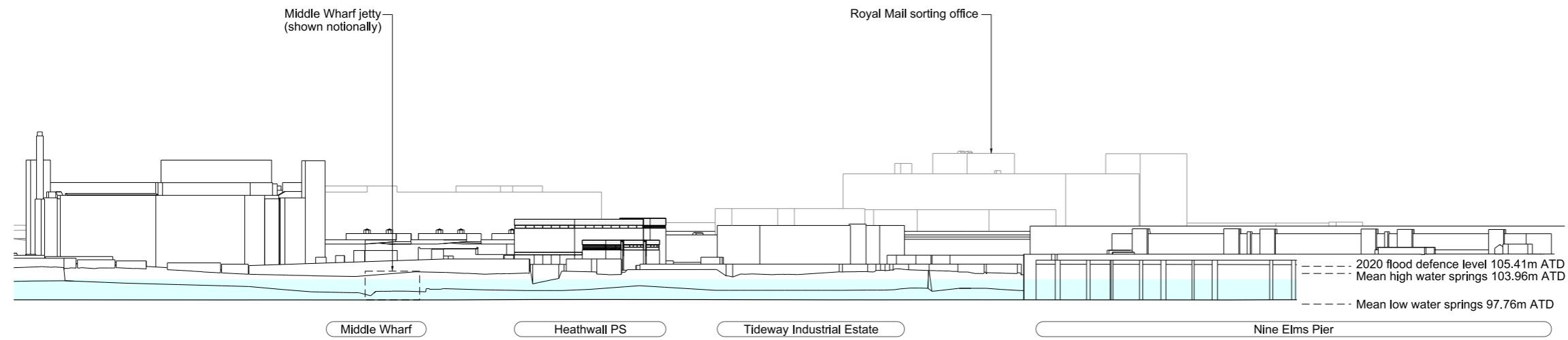
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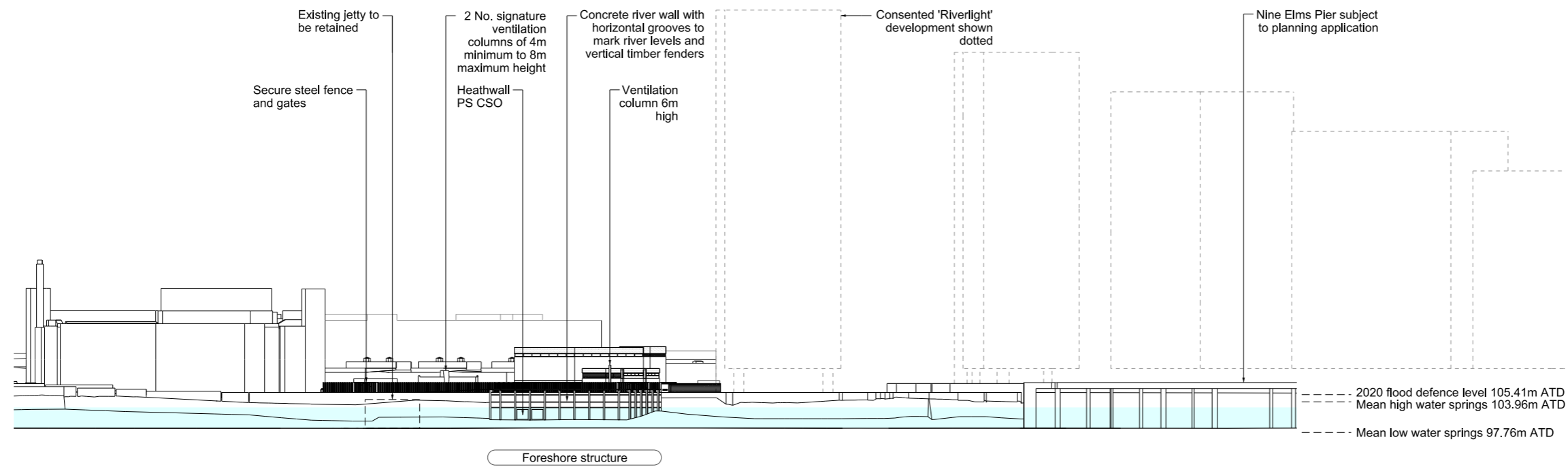
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Notes:

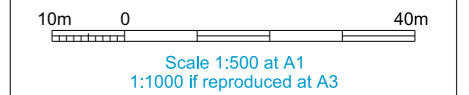
1. All dimensions and levels are approximate.
2. Boats are not shown.



As existing North elevation



Proposed North elevation



ILLUSTRATIVE

Location
Heathwall Pumping Station
London Borough of Wandsworth

Document Information
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As existing and proposed
North elevation
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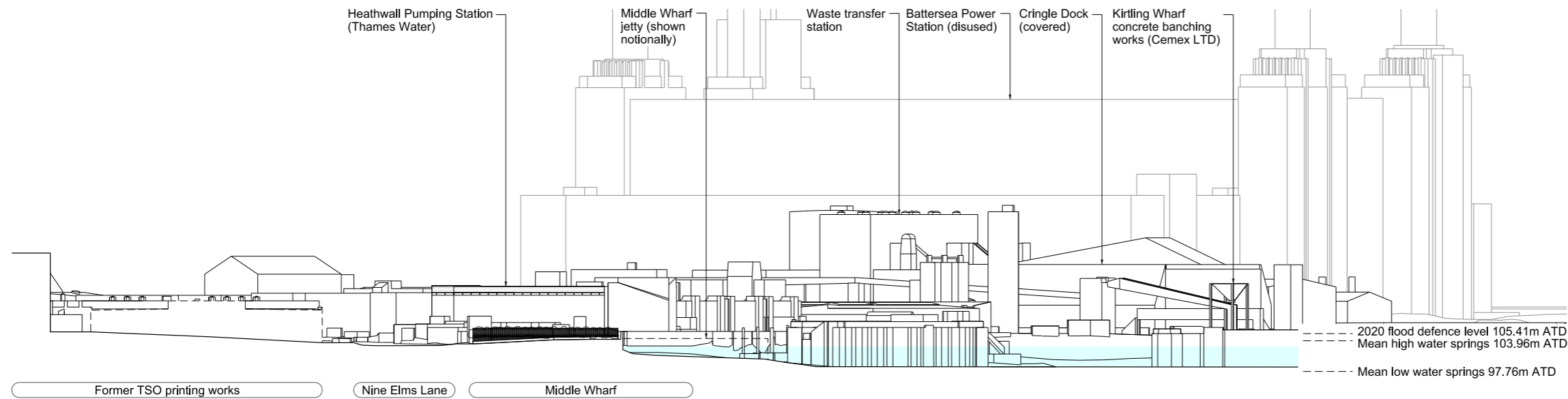
Keyplan:



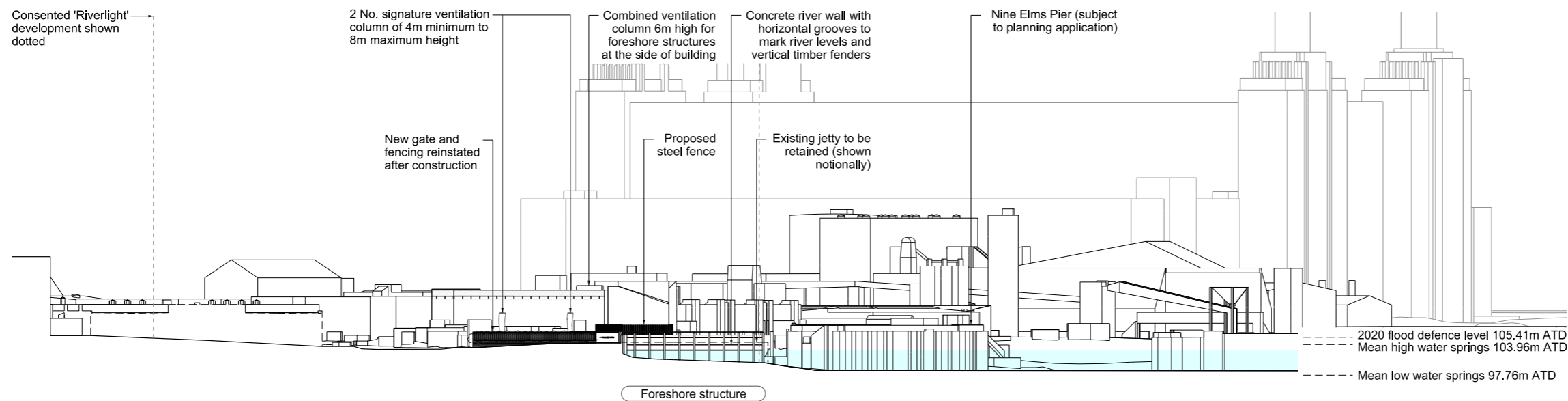
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

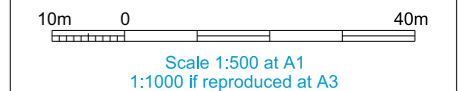
1. All dimensions and levels are approximate.
2. Boats are not shown.



As existing East elevation



Proposed East elevation



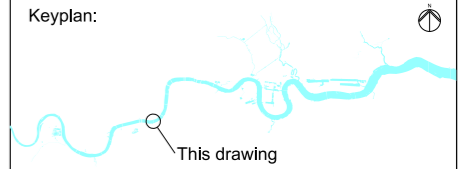
ILLUSTRATIVE

Location
Heathwall Pumping Station
London Borough of Wandsworth

Document Information
Application for Development Consent
As existing and proposed
East elevation
Book of plans - section 16
DCO-PP-14X-HEAPS-160011
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

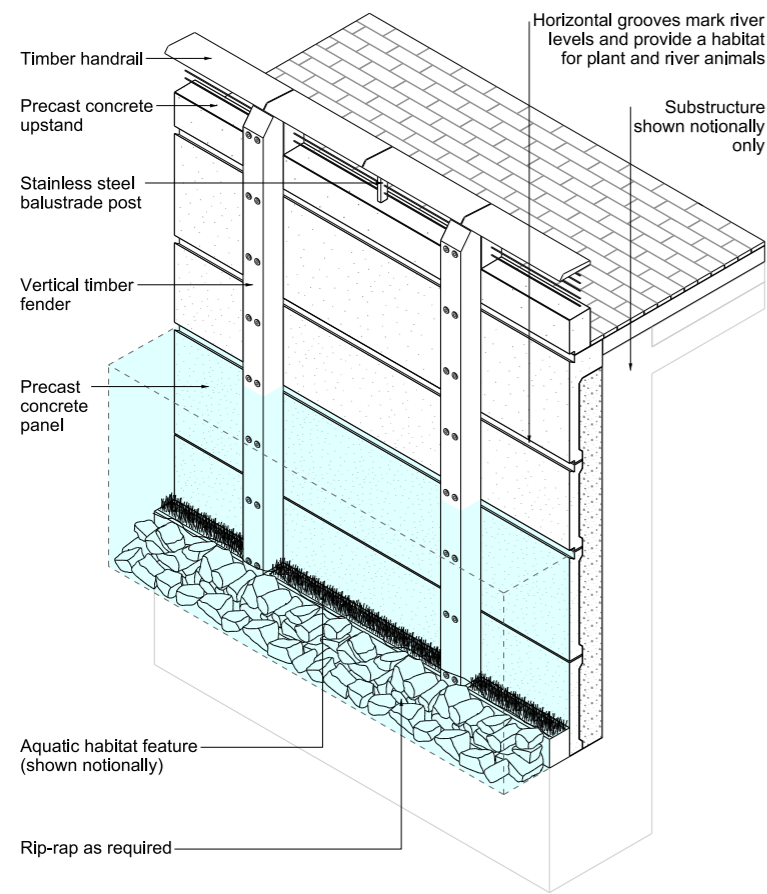




Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

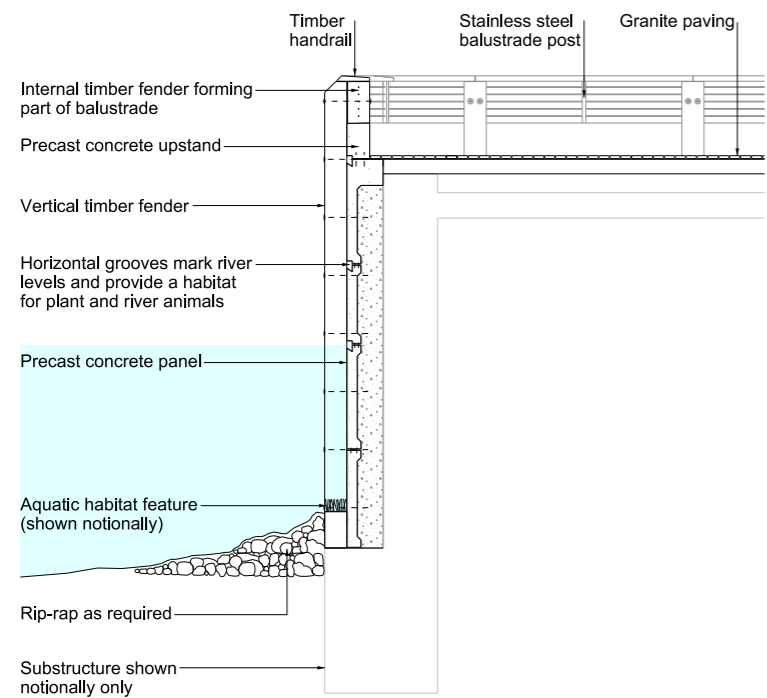
Notes:

1. All dimensions and levels are approximate.



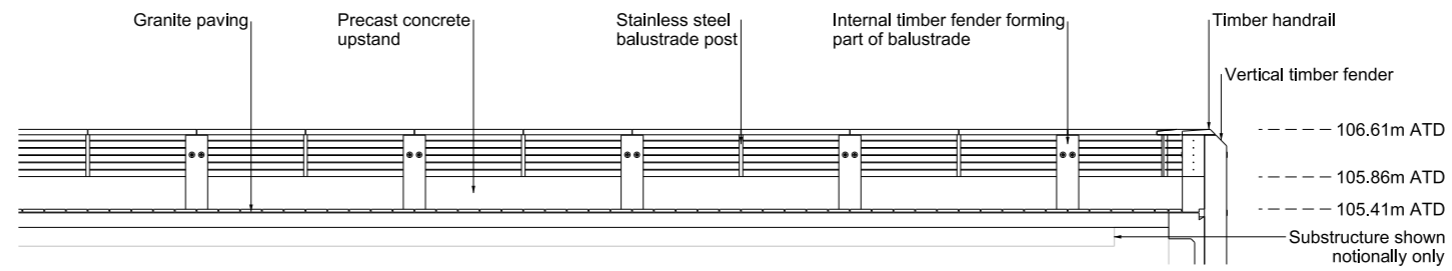
Isometric

Scale NTS



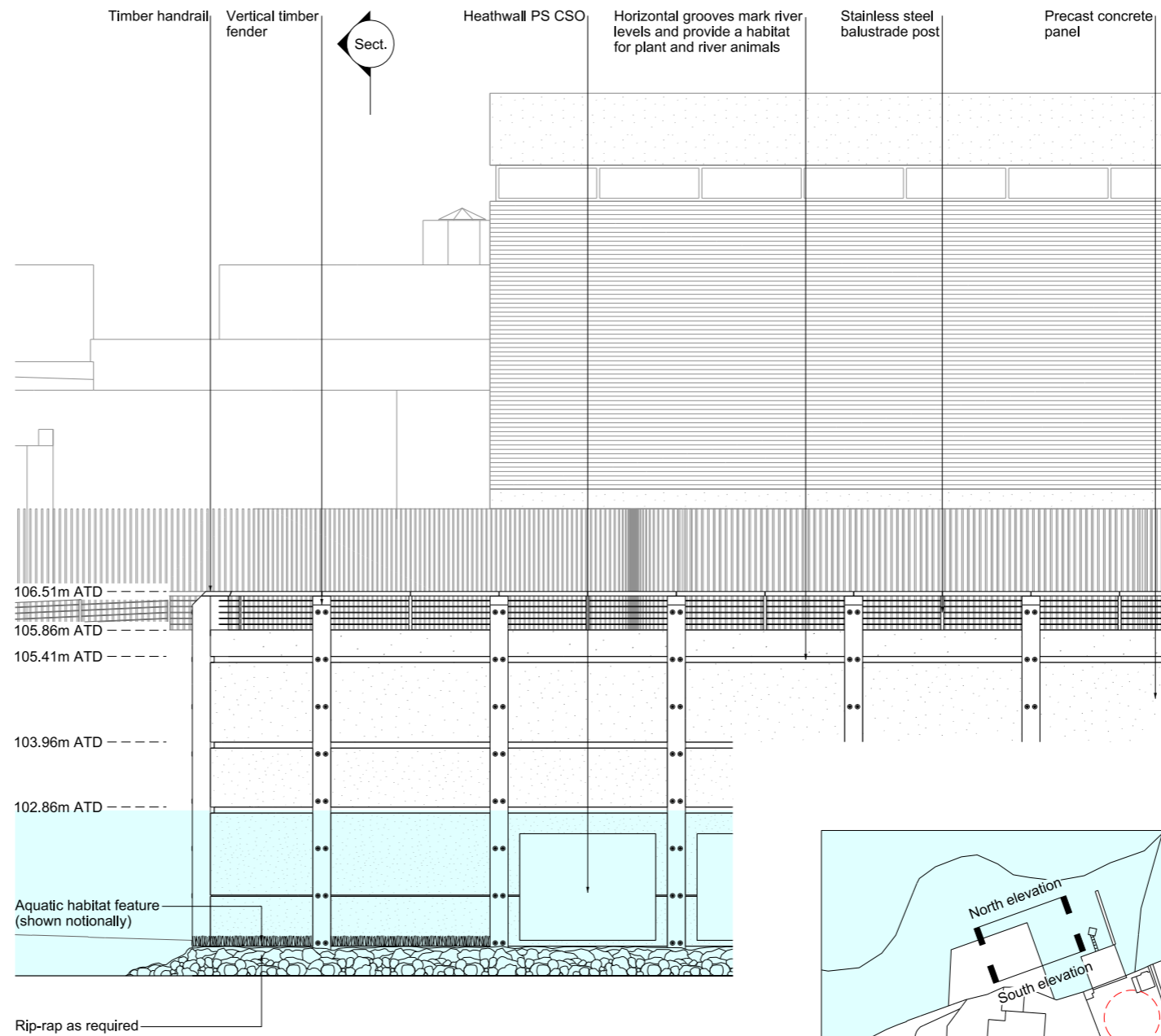
Detail section

Scale 1:50



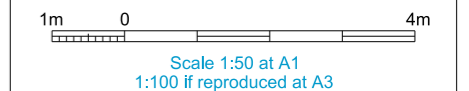
South elevation

Scale 1:50



North elevation

Scale 1:50



INDICATIVE

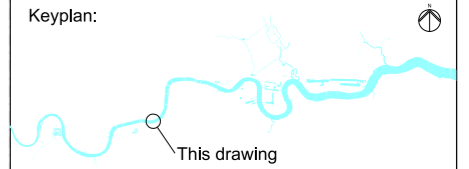
Location
Heathwall Pumping Station
London Borough of Wandsworth

Document Information
Application for Development Consent
Typical river wall design intent

Book of plans - section 16
DCO-PP-14X-HEAPS-160012
January 2013



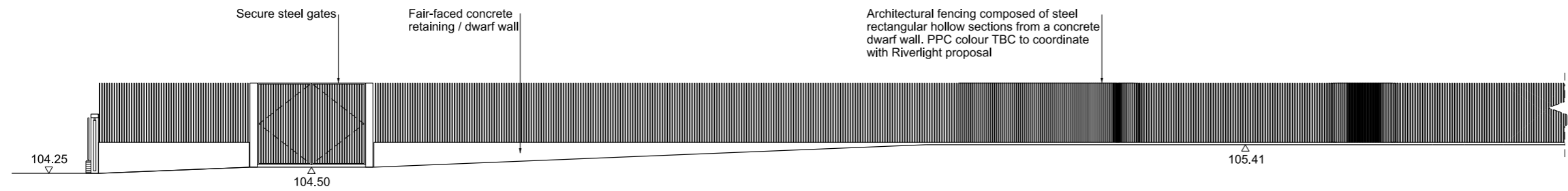
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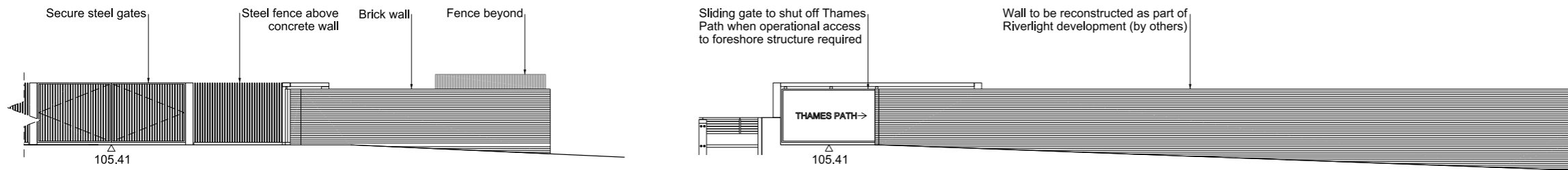
Notes:

1. All dimensions and levels are approximate.



North elevation (behind foreshore) 1 of 2

Scale 1:100

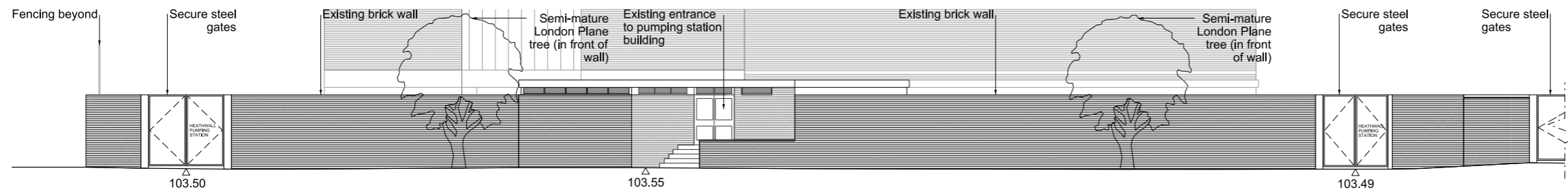


North elevation (behind foreshore) 2 of 2

Scale 1:100

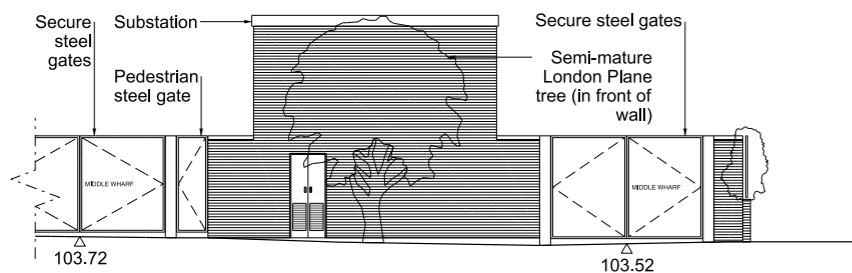
West elevation

Scale 1:100



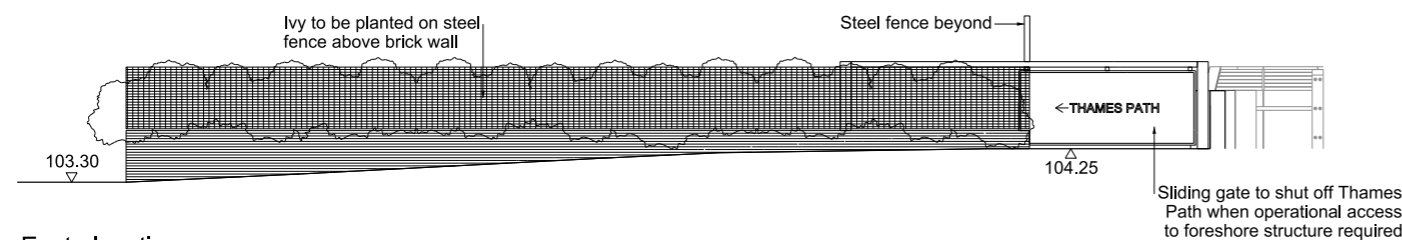
South elevation 1 of 2

Scale 1:100



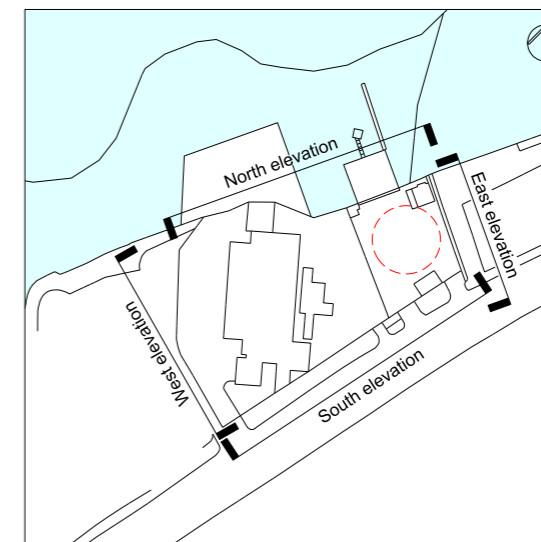
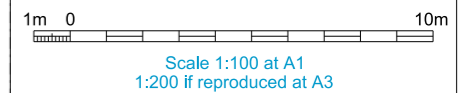
South elevation 2 of 2

Scale 1:100



East elevation

Scale 1:100



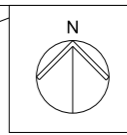
INDICATIVE

Location
Heathwall Pumping Station
London Borough of Wandsworth

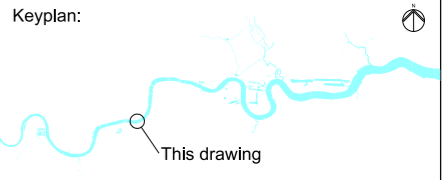
Document Information
Application for Development Consent
Fencing and gate design intent

Book of plans - section 16
DCO-PP-14X-HEAPS-160013
January 2013



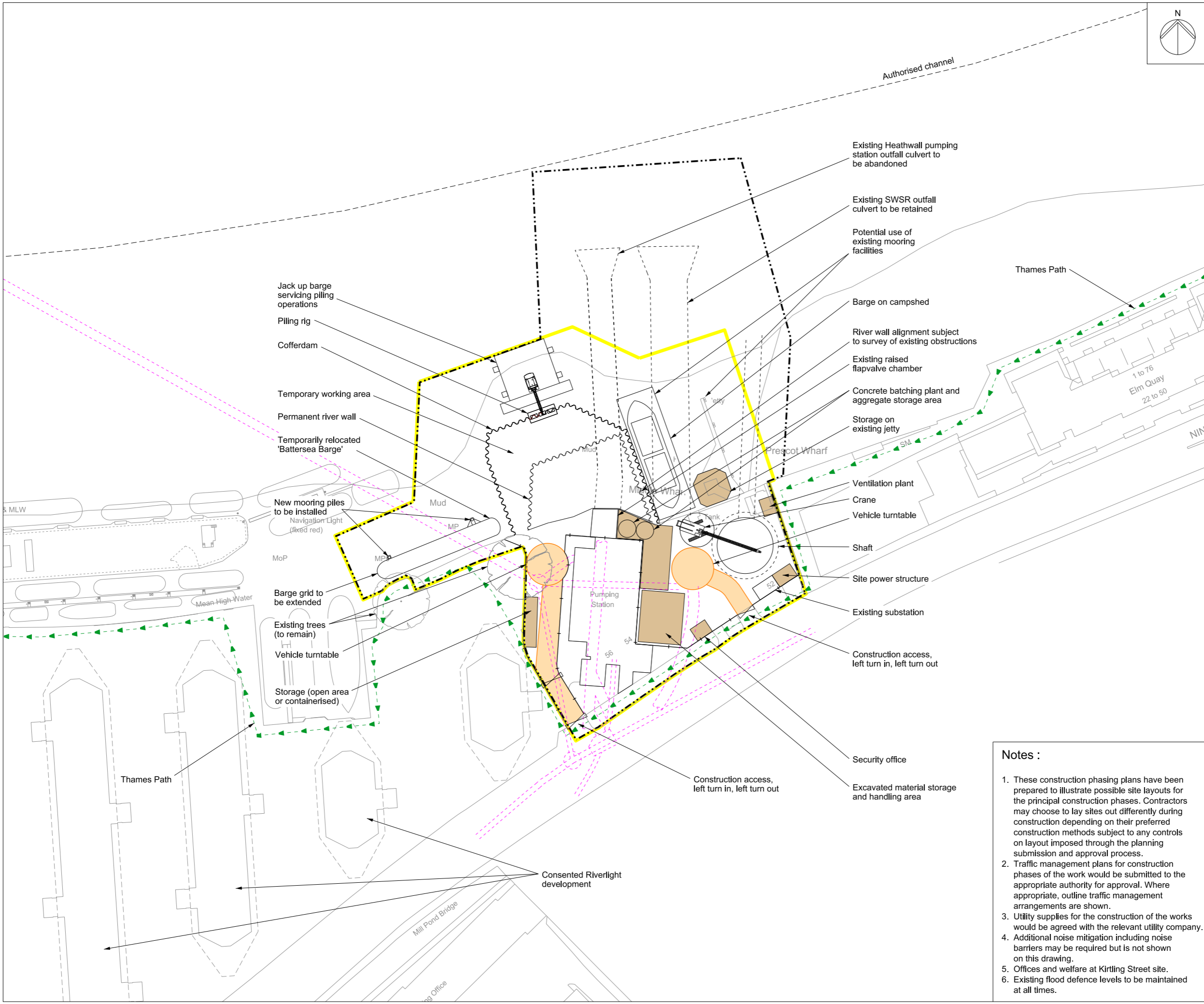
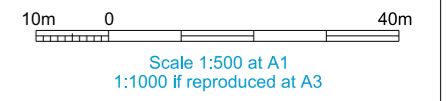


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- Key:
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Site access
 - Access / haul route
 - Existing sewers
 - Sheet piles



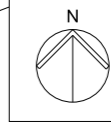
- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
 2. Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
 3. Utility supplies for the construction of the works would be agreed with the relevant utility company.
 4. Additional noise mitigation including noise barriers may be required but is not shown on this drawing.
 5. Offices and welfare at Kirtling Street site.
 6. Existing flood defence levels to be maintained at all times.

ILLUSTRATIVE

Location
Heathwall Pumping Station
 London Borough of Wandsworth

Document Information
Application for Development Consent
 Construction phases - phase 1
 Site setup shaft construction & tunnelling
 Book of plans - section 16
 DCO-PP-14X-HEAPS-160014
 January 2013



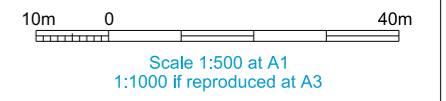
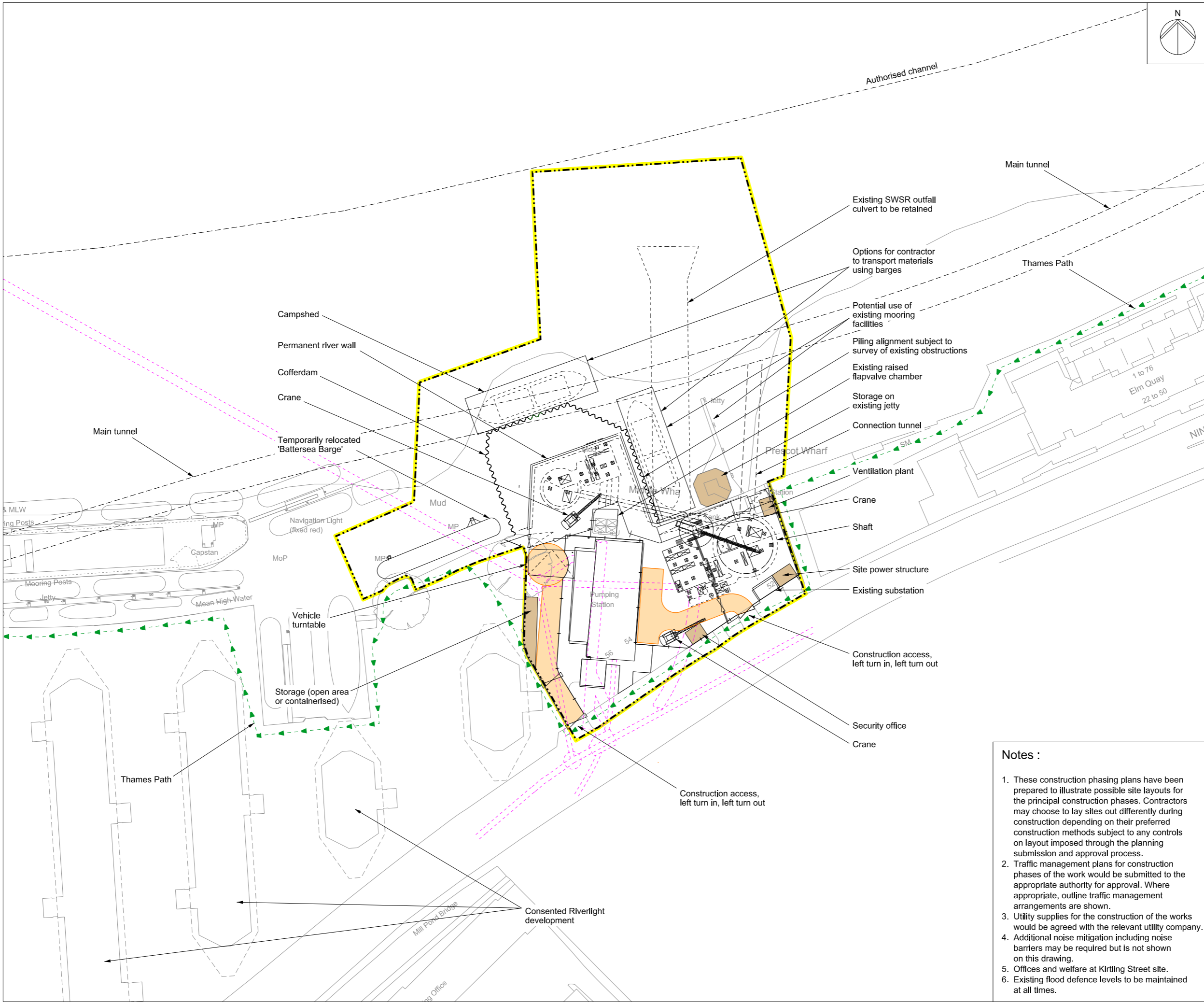


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Site access
 - Access / haul route
 - Existing sewers
 - Sheet piles



Notes :

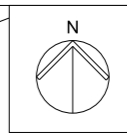
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
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5. Offices and welfare at Kirtling Street site.
6. Existing flood defence levels to be maintained at all times.

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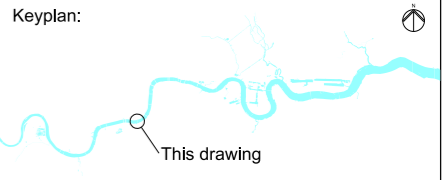
Location
Heathwall Pumping Station
London Borough of Wandsworth

Document Information
Application for Development Consent
Construction phases - phase 2
Construction of other structures
Book of plans - section 16
DCO-PP-14X-HEAPS-160015
January 2013



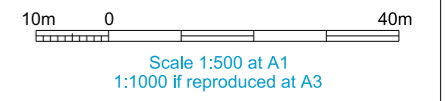
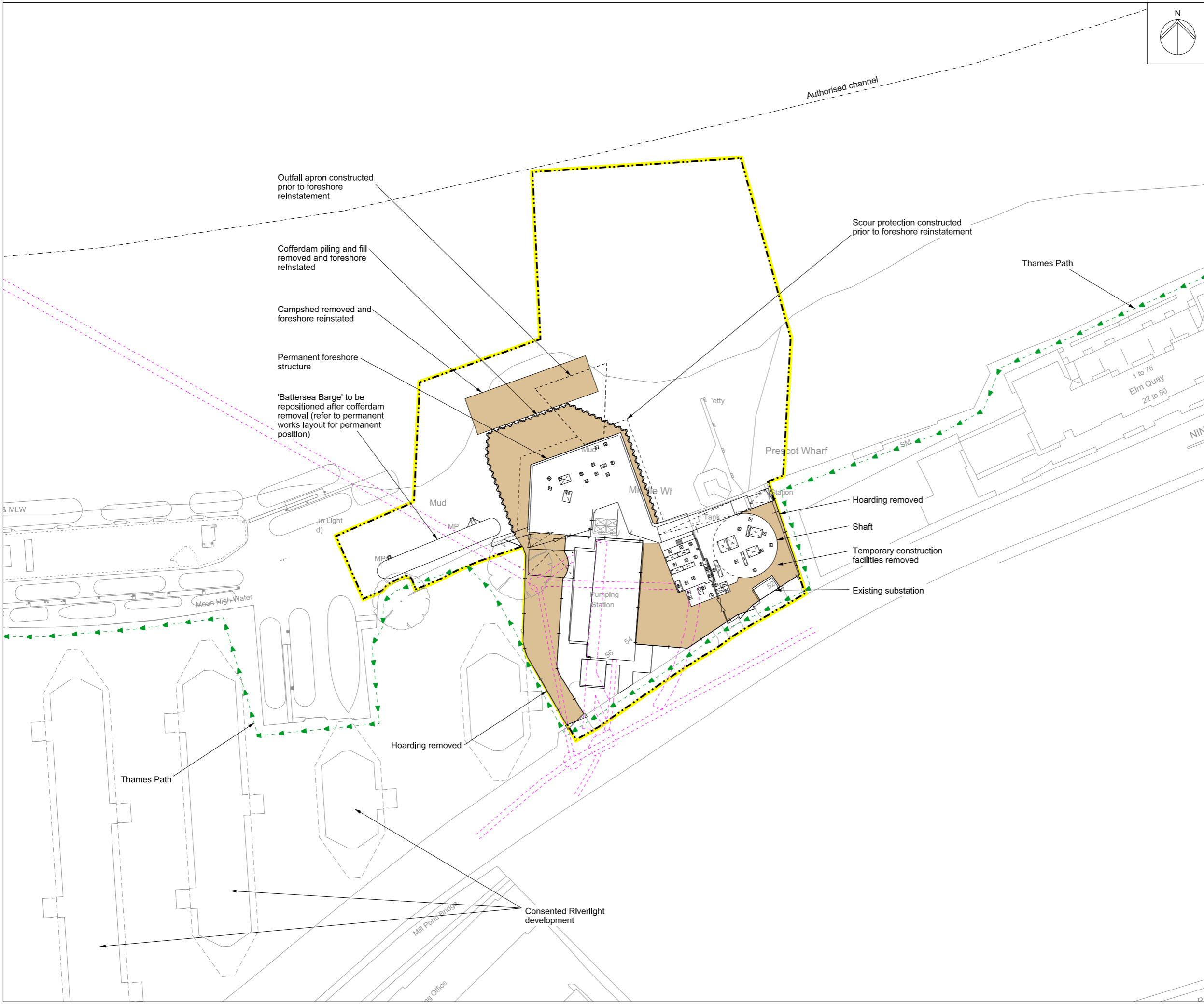


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Site access
 - Existing sewers
 - Sheet piles



ILLUSTRATIVE

Location
Heathwall Pumping Station
 London Borough of Wandsworth

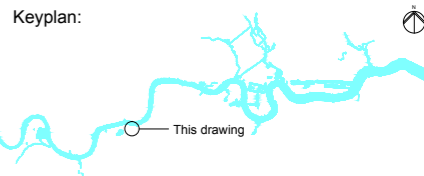
Document Information
Application for Development Consent
 Construction phases - phase 3
 Site demobilisation
 Book of plans - section 16
 DCO-PP-14X-HEAPS-160016
 January 2013



Construction base case highway layout



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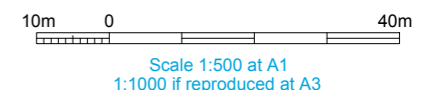
Key

Existing	Red route parking restrictions
Orange line	Bus lane
Purple line	Pedestrian crossing
Green line	Cycle lane / advance stop line
Revised	Removal of footway
Light blue line	Suspended cycle facility
Yellow line	Illustrative on-site manoeuvring zone
Blue dashed line	Visibility splay - 2.4m x 43m (ssd adjust for bonnet length)
Grey hatched area	Site hut
Black hatched area	Site hoarding
Triangle symbol	Access gate
Black dashed line	Limit of land to be acquired or used (LLAU)
PWH10_C00	See schedule of works

Stage
Phase 1

- Standards**
- Design Manual for Roads and Bridges, DfT, 1992
 - Traffic Signs Regulations & General Directions, Tso, 2002
 - Traffic Signs Manual, DfT, 2006
 - Manual for Streets, DfT, 2007
 - Manual for Streets 2, CIHT, 2010
 - Designing for Deliveries, Fta, 1998
 - Cycle Infrastructure Design Ltn 2/08, DfT, 2008
 - Design of Pedestrian Crossings Ltn 2/95, DfT, 1995
 - Guidance on the use of Tactile Paving Surfaces, DfT, 1998
 - Accessible Bus Stop Design Guidance, TfL, 2006

Highway layout during construction



ILLUSTRATIVE

Location
Heathwall Pumping Station
London Borough of Wandsworth

Document Information
Application for Development Consent
Highway layout during construction
(Area 1) Ph 1

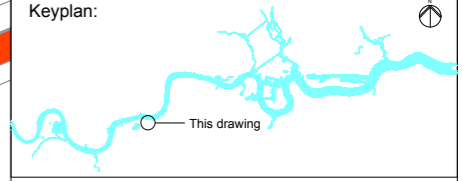
DCO-PP-14X-HEAPS-160020
January 2013



Construction base case highway layout



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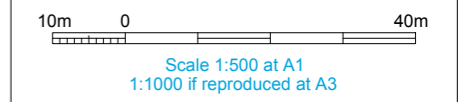
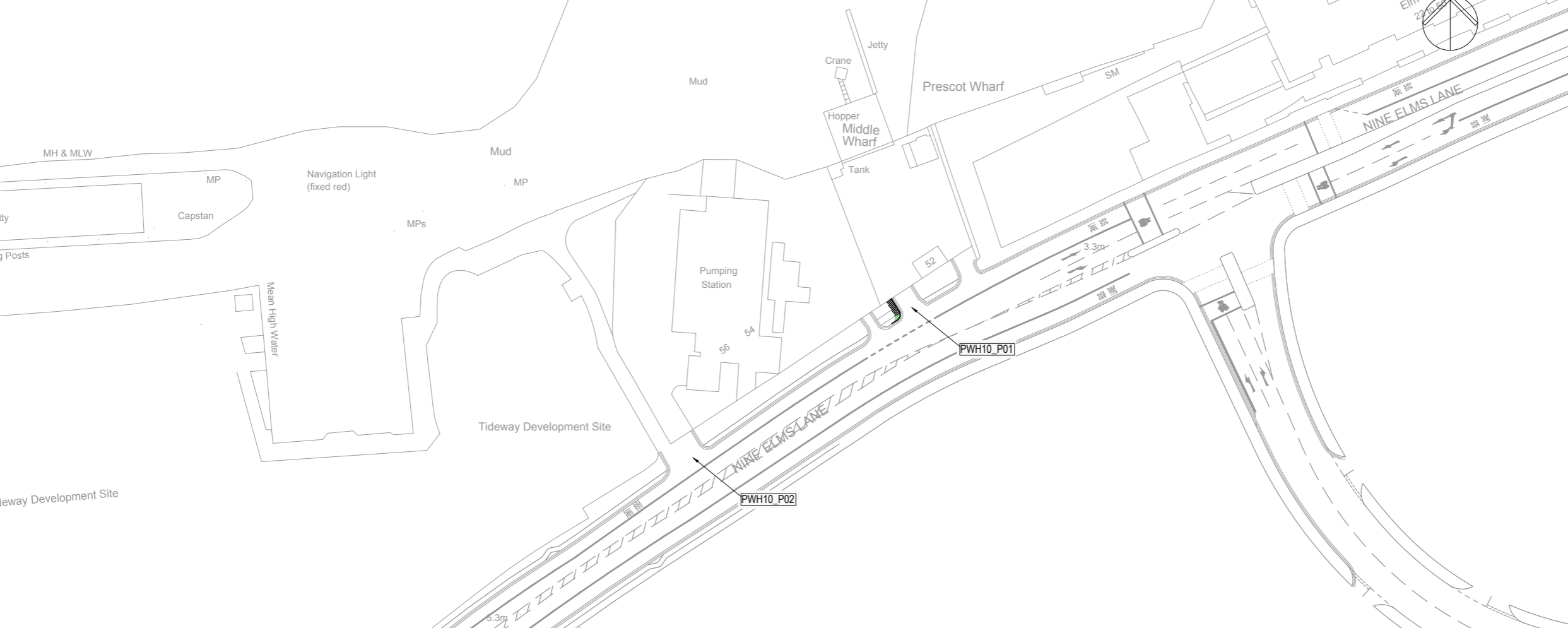
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing
- Red route parking restrictions
 - Bus lane
 - Pedestrian crossing
 - Cycle lane / advance stop line
- Revised
- - - - Reinstated footway
 - - - - Reinstated cycle facility
- PWH10_P00 See schedule of works

Stage
Permanent phase

- Standards**
- Design Manual for Roads and Bridges, Dft, 1992
 - Traffic Signs Regulations & General Directions, Tso, 2002
 - Traffic Signs Manual, Dft, 2006
 - Manual for Streets, Dft, 2007
 - Manual for Streets 2, CIHT, 2010
 - Designing for Deliveries, Fta, 1998
 - Cycle Infrastructure Design Ltn 2/08, Dft, 2008
 - Design of Pedestrian Crossings Ltn 2/95, Dft, 1995
 - Guidance on the use of Tactile Paving Surfaces, Dft, 1998
 - Accessible Bus Stop Design Guidance, TfL, 2006

Permanent highway layout



ILLUSTRATIVE

[Location](#)
Heathwall Pumping Station
London Borough of Wandsworth

[Document Information](#)
Application for Development Consent
Permanent highway layout - Area 1 Work

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January 2013



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A decorative graphic at the bottom of the page consisting of several overlapping, wavy, organic shapes in various shades of green, ranging from a light lime green to a dark forest green. The shapes flow from the left side towards the right, creating a sense of movement and depth.