

Thames Tideway Tunnel  
Thames Water Utilities Limited



# Application for Development Consent

Application Reference Number: WWO10001

## Book of Plans

Doc Ref: **2.21**

### Chambers Wharf

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

Hard copy available in  
Box **62** Folder **B**  
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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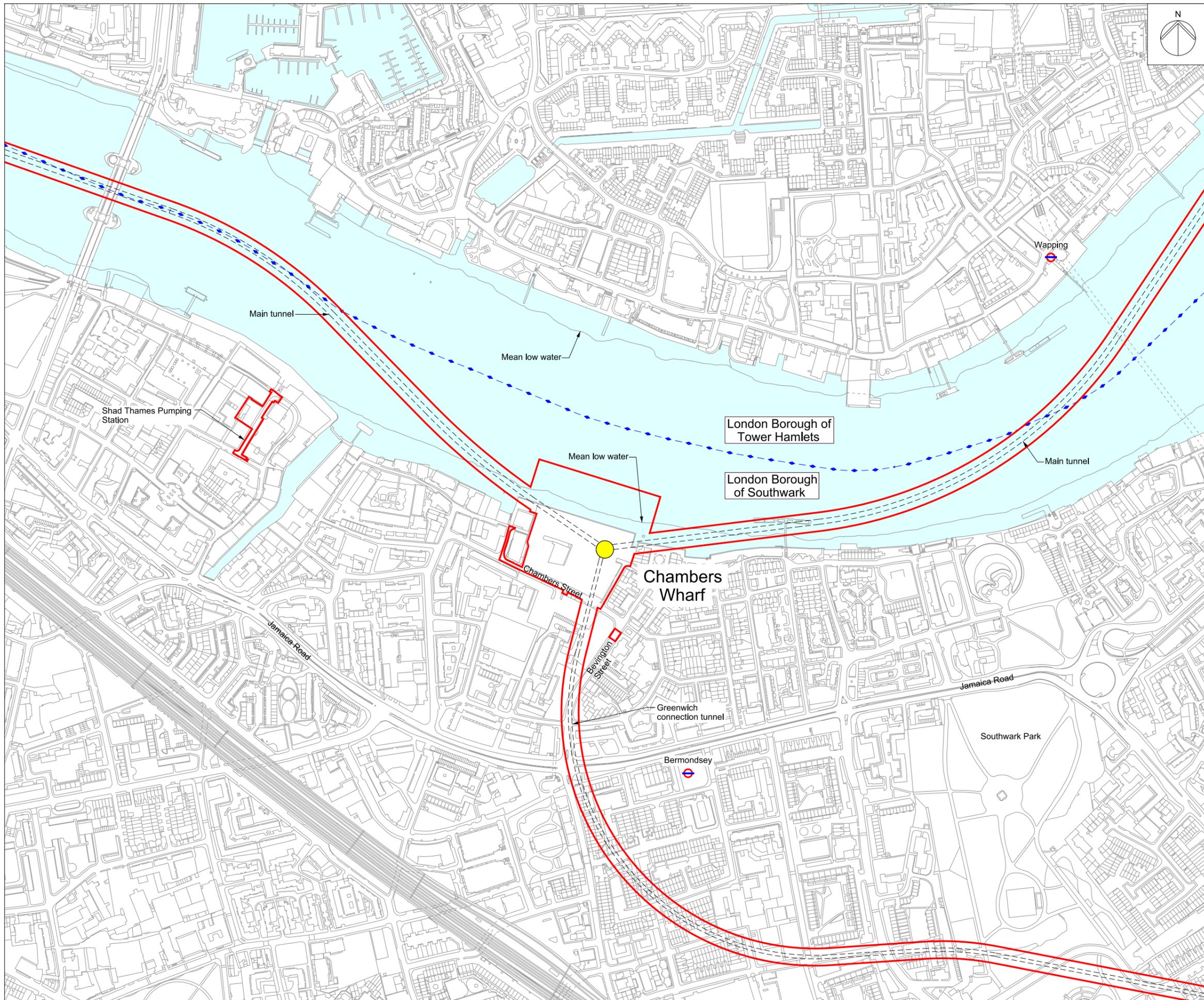
**This volume is Volume 5**

## Volume 5

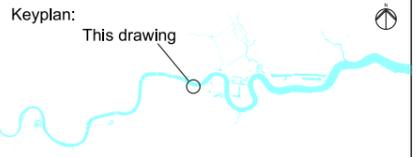
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\* Schedules of associated highway works are located in the *Transport Assessment*



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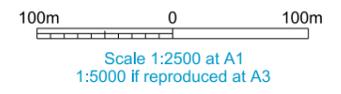


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

**Notes:**

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



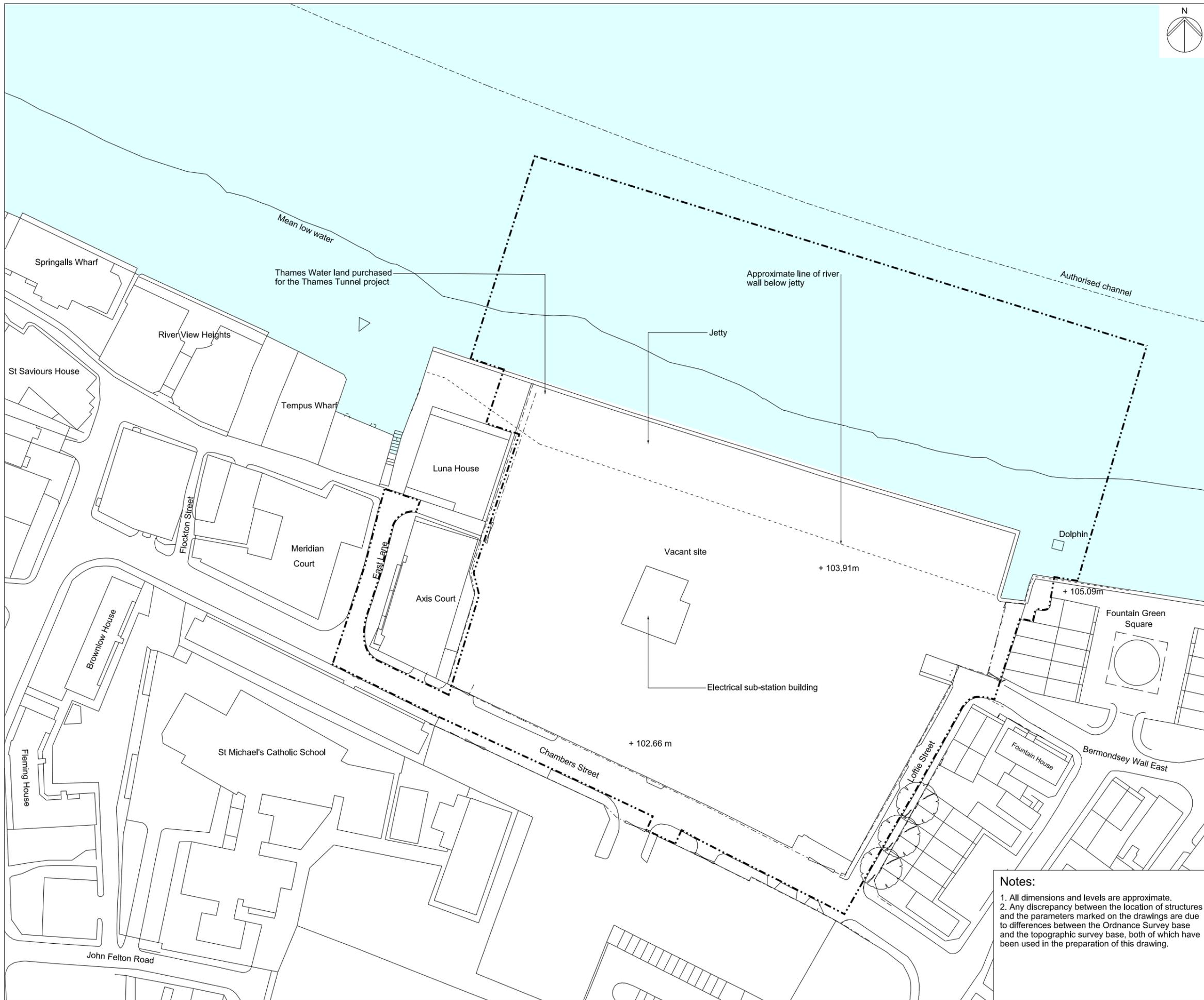
## FOR INFORMATION

**Location**  
**Chambers Wharf**  
 London Borough of Southwark

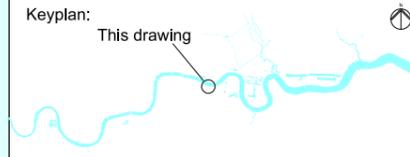
**Document Information**  
**Application for Development Consent**  
 Location plan

Book of plans - section 21  
 DCO-PP-19X-CHAWF-210001  
 January 2013



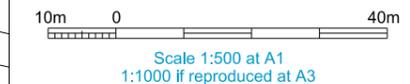


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Authorised channel
  - + 105.40m Existing levels (shown in metres above tunnel datum)
  - Existing trees within surveyed area (trunk sizes vary)



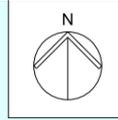
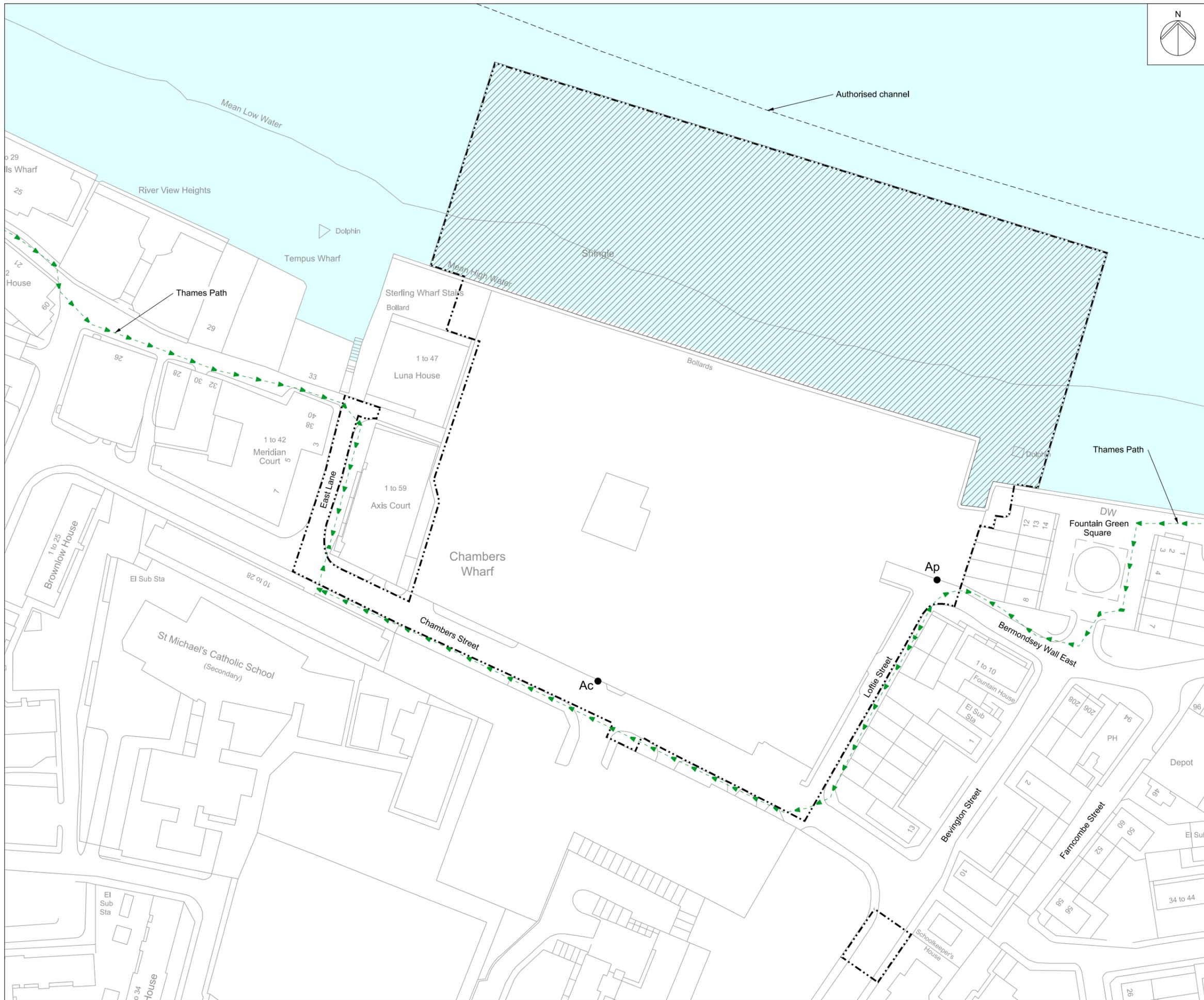
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**Location**  
**Chambers Wharf**  
 London Borough of Southwark

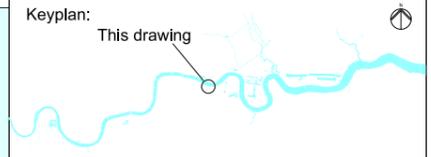
**Document Information**  
**Application for Development Consent**  
 As existing  
 Site features plan  
 Book of plans - section 21  
 DCO-PP-19X-CHAWF-210002  
 January 2013

- 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.





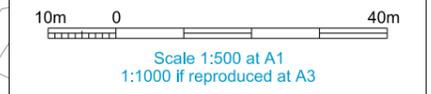
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

- Notes:**
- This plan does not show stopping up and diversions of limited duration (eg hoarding erection, minor utility diversions and minor highway works).
  - 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.
  - Access along the Thames Path route would be available at all times.



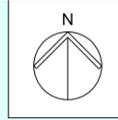
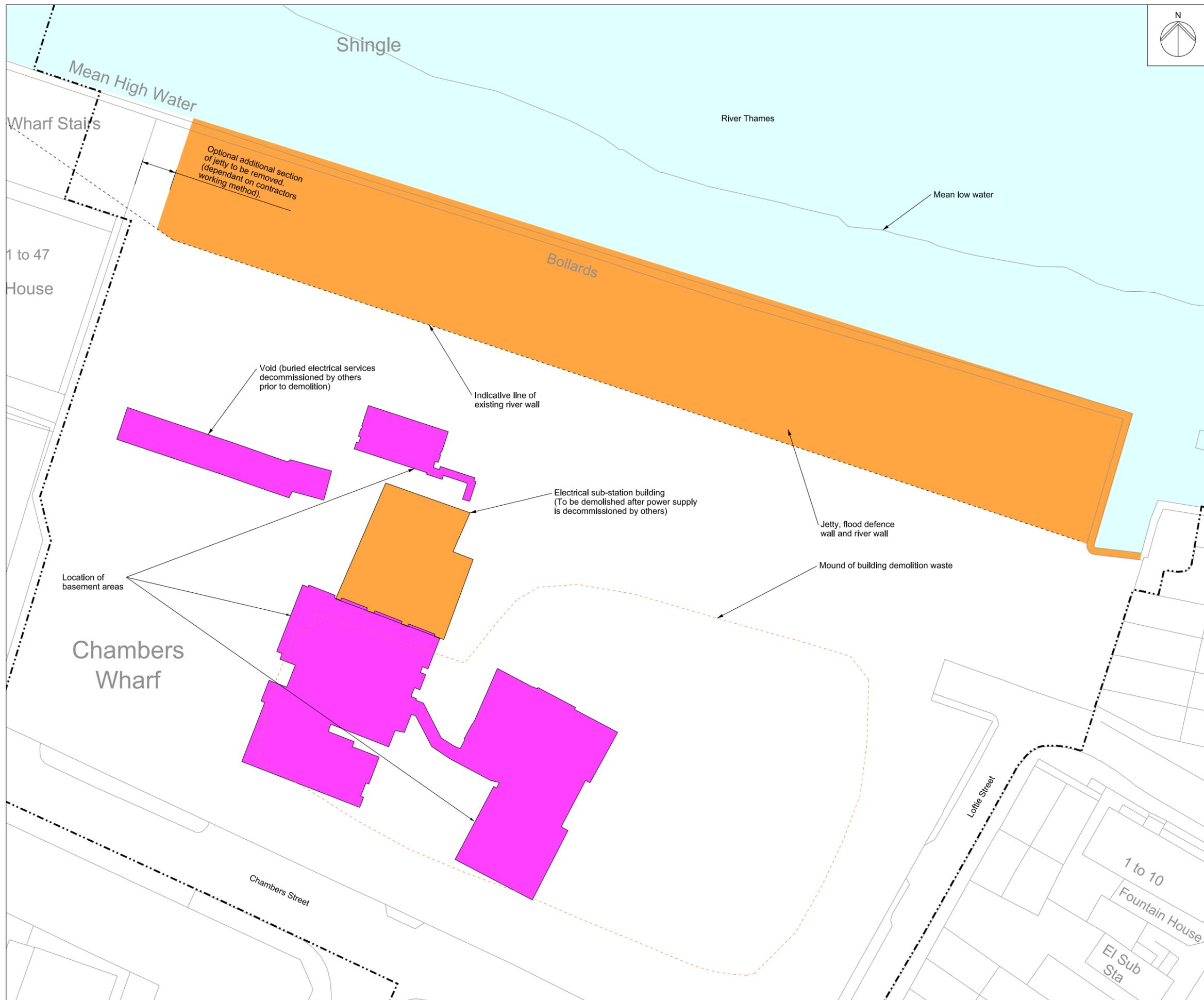
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**Location**  
**Chambers Wharf**  
 London Borough of Southwark

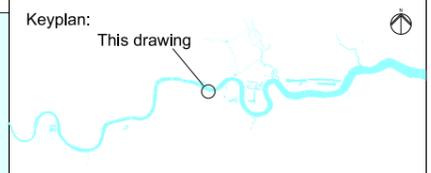
**Document Information**  
**Application for Development Consent**  
 Access plan

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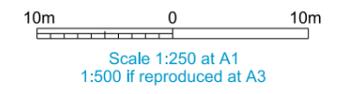
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Above ground structures to be removed
  - Below ground structures to be removed or infilled

- Notes:**
1. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
  2. 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**  
Chambers Wharf  
London Borough of Southwark

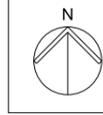
**Document Information**  
**Application for Development Consent**  
Demolition and site clearance

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DCO-PP-19X-CHAWF-210004  
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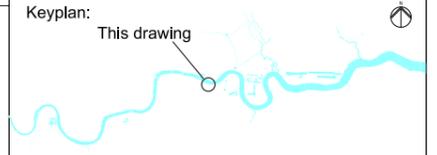
**Thames Tideway Tunnel**  
Creating a cleaner, healthier River Thames

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)
Electrical and control kiosk(s)	2.5m



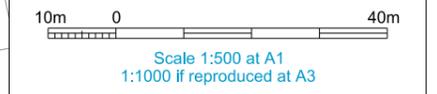
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:
- Limits of land to be acquired or used (LLAU)
  - Zone within which 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)
  - Maximum extent of top of river/parapet wall
  - Maximum extent of temporary works platform.

- Notes:
- All dimensions and levels are approximate.
  - The Site Works Parameter Key Plan identifies each zone independently.
  - 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.

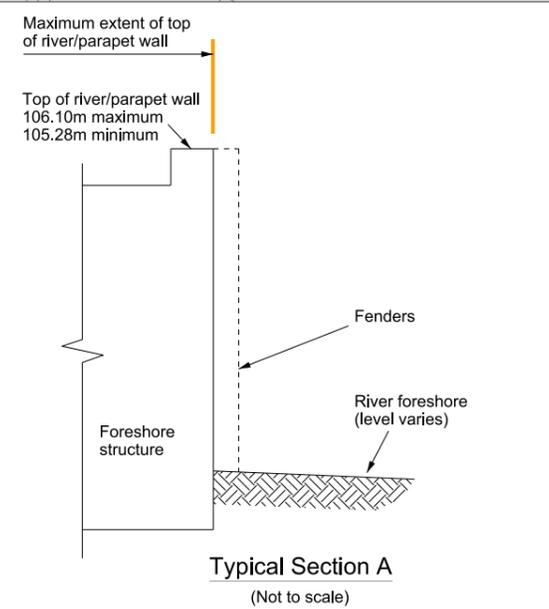
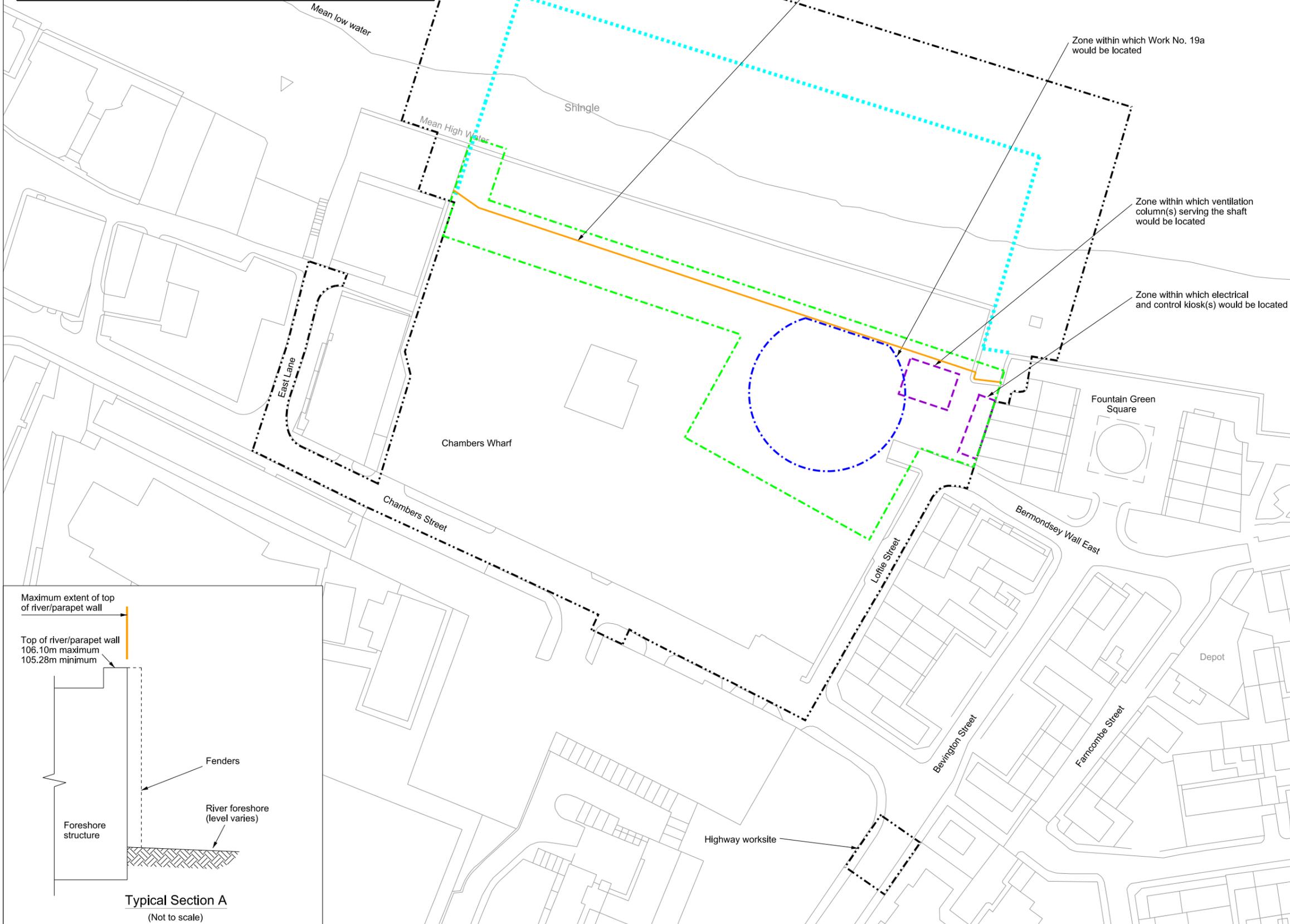


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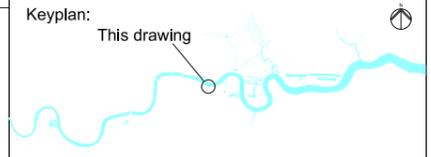
**Document Information**  
**Application for Development Consent**  
 Site works parameter plan

Book of plans - section 21  
 DCO-PP-19X-CHAWF-210005  
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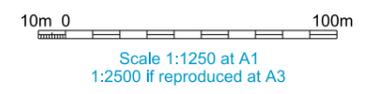
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- Key:**
- Limits of land to be acquired or used (LLAU)
  - - - Zone within which all permanent site structures would be located
  - . - Zone within which the shaft would be located
  - - - Zone within which permanent above ground structures would be located (those listed in Table 1)
  - Maximum extent of foreshore structures

- 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 plan.
  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.



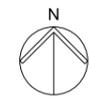
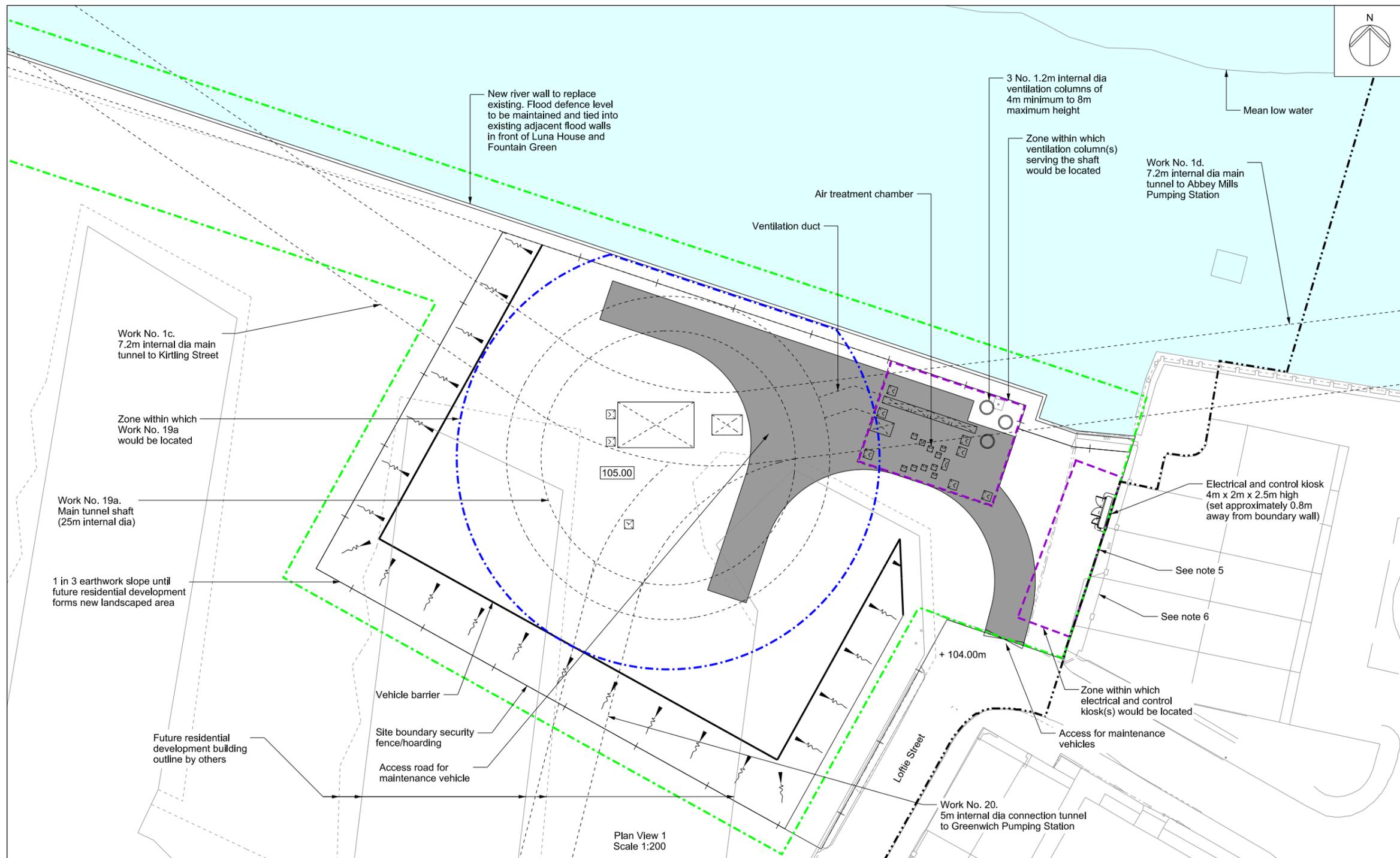
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**Location**  
**Chambers Wharf**  
 London Borough of Southwark

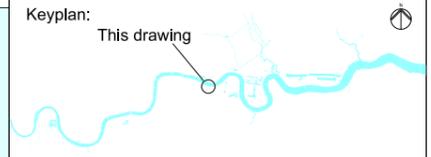
**Document Information**  
**Application for Development Consent**  
 Site works parameter key plan

Book of plans - section 21  
 DCO-PP-19X-CHAWF-210006  
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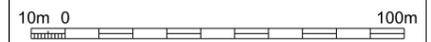


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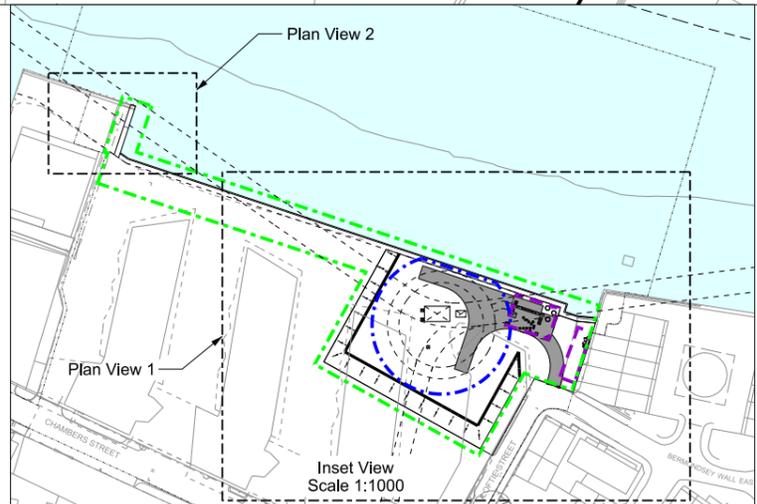
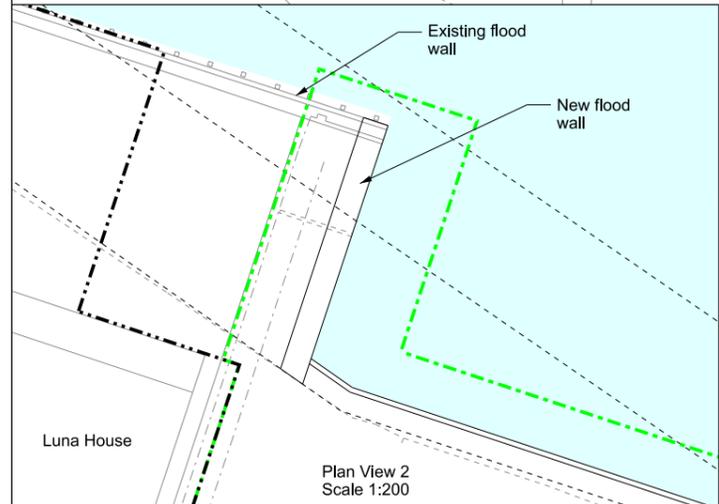
- Key:**
- Limits of land to be acquired or used (LLAU)
  - ☒ Proposed access cover
  - + 104.10m Existing Level (shown in metres above tunnel datum)
  - 104.50 Proposed level (shown in metres above tunnel datum)
  - Zone within which all permanent site structures would be located
  - Zone within which the shaft would be located
  - Zone within which permanent above ground structures would be located



Scale 1:200 at A1  
1:400 if reproduced at A3



Scale 1:1000 at A1  
1:2000 if reproduced at A3



- 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.
  4. Future residential development (by others) layout shown taken from third party drawing No. 7153AL\_SITE(00)011.
  5. The LLAU and zone parameters here runs along the boundary wall between the site and Fountain Green Square properties as shown on the Ordnance Survey base.
  6. The line here runs along the boundary wall between the site and Fountain Green Square properties as shown on the topographical survey base.
  7. The lines described in notes 5 and 6 represent the same boundary wall. The discrepancy between how they are shown is due to the differences between Ordnance Survey base and topographical survey base (see note 2).

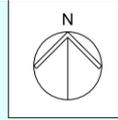
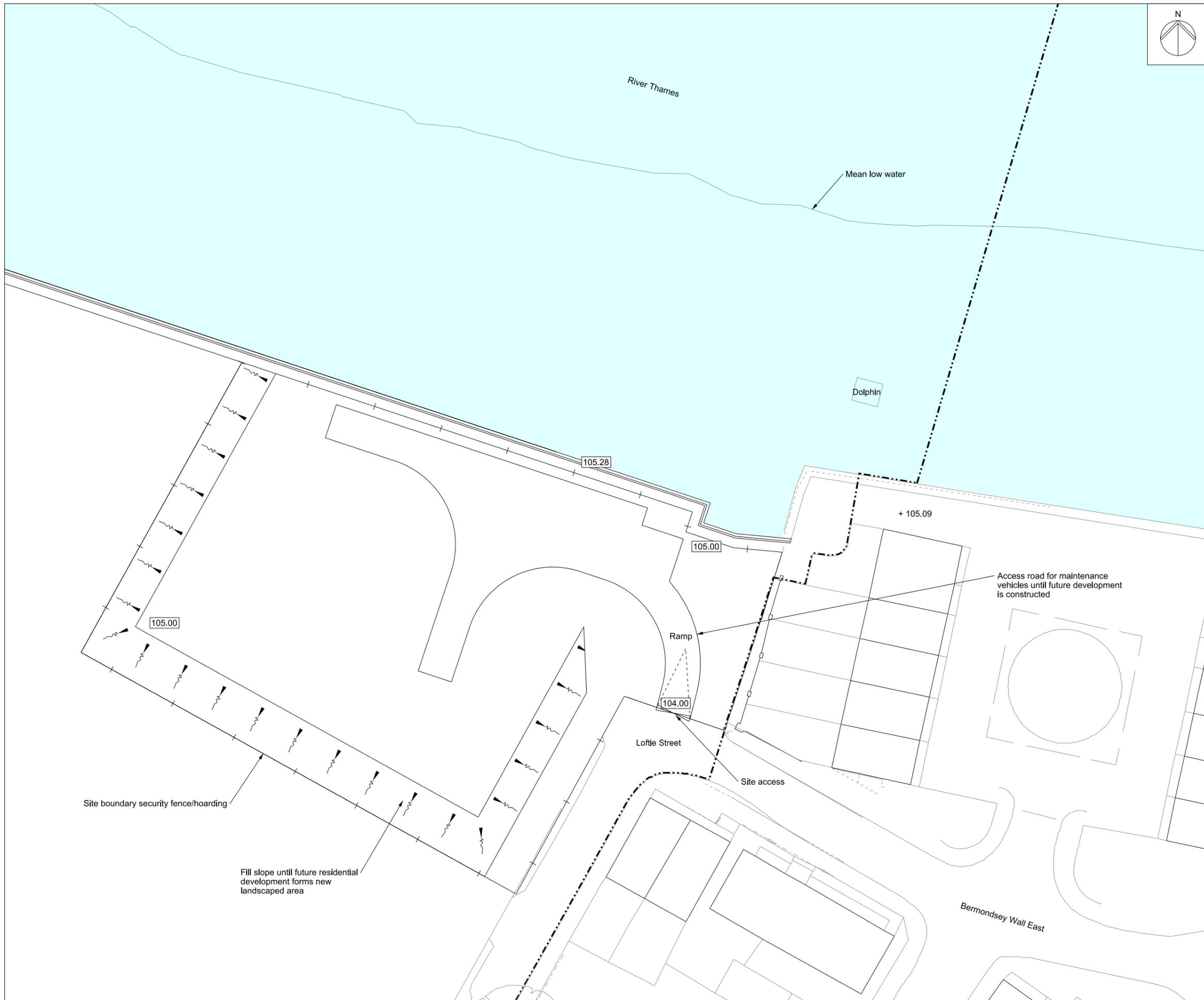
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**Location**  
Chambers Wharf  
London Borough of Southwark

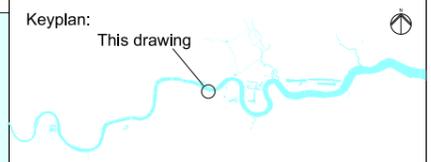
**Document Information**  
Application for Development Consent  
Permanent works layout

Book of plans - section 21  
DCO-PP-19X-CHAWF-210007  
January 2013





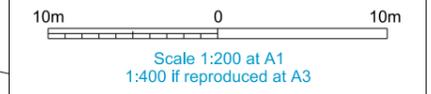
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- - - - - Limits of land to be acquired or used (LLAU)
  - + 105.40m Existing levels (shown in metres above tunnel datum)
  - 105.40 Proposed levels (shown in metres above tunnel datum)

- 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 the finished site levels at completion of project works.



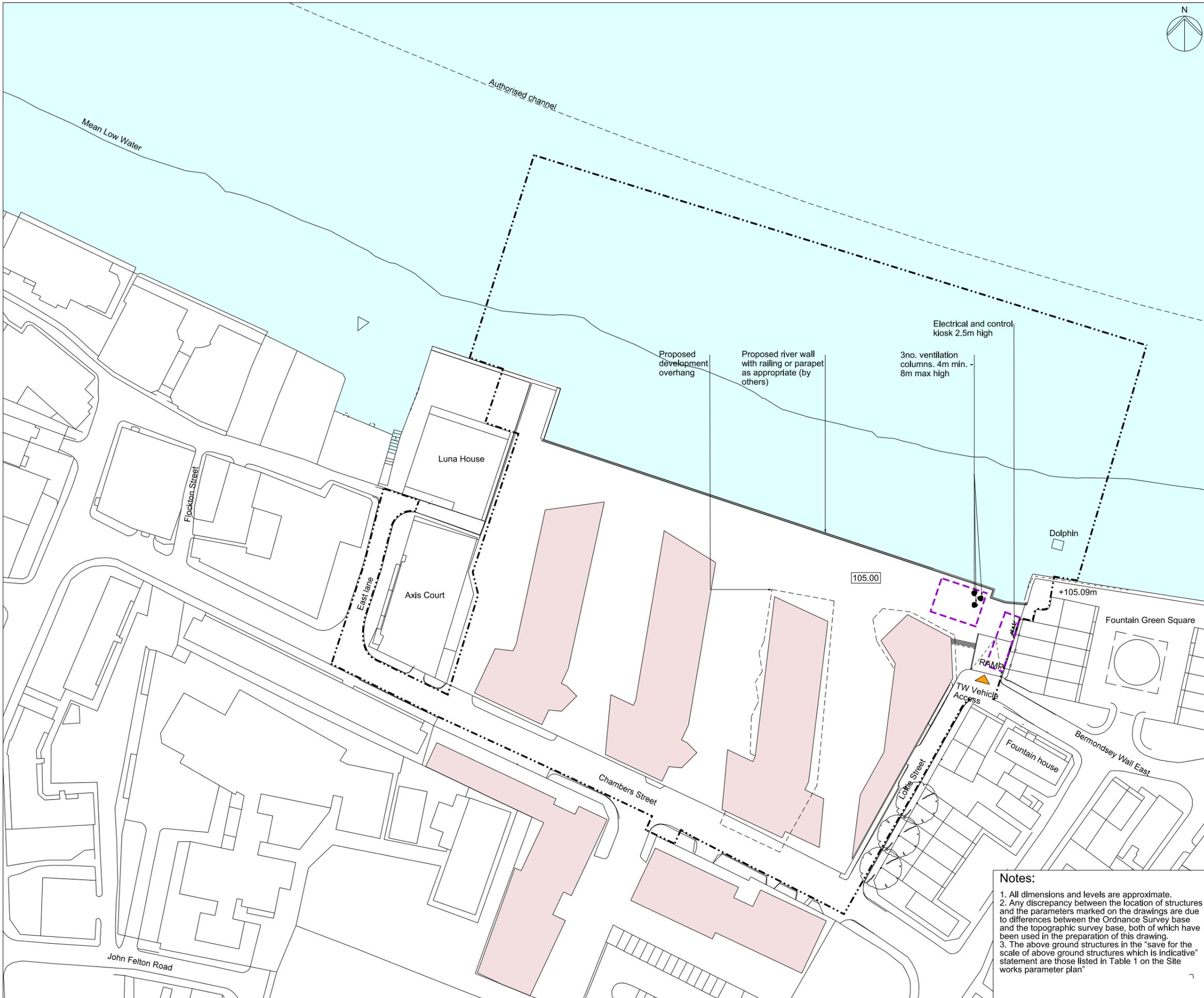
**FOR APPROVAL**

**Location**  
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 London Borough of Southwark

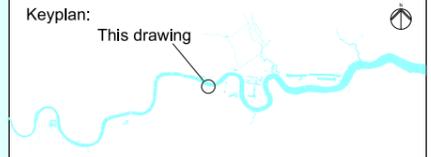
**Document Information**  
**Application for Development Consent**  
 Finished site levels

Book of plans - section 21  
 DCO-PP-19X-CHAWF-210008  
 January 2013



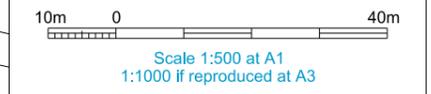


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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Zone within which permanent above ground structures would be located
  - Authorised channel
  - Existing levels (shown in metres above tunnel datum)
  - Proposed levels (shown in metres above tunnel datum)
  - Consented development footprint (by others)
  - Existing trees within surveyed area (trunk sizes vary)
  - Thames Water access



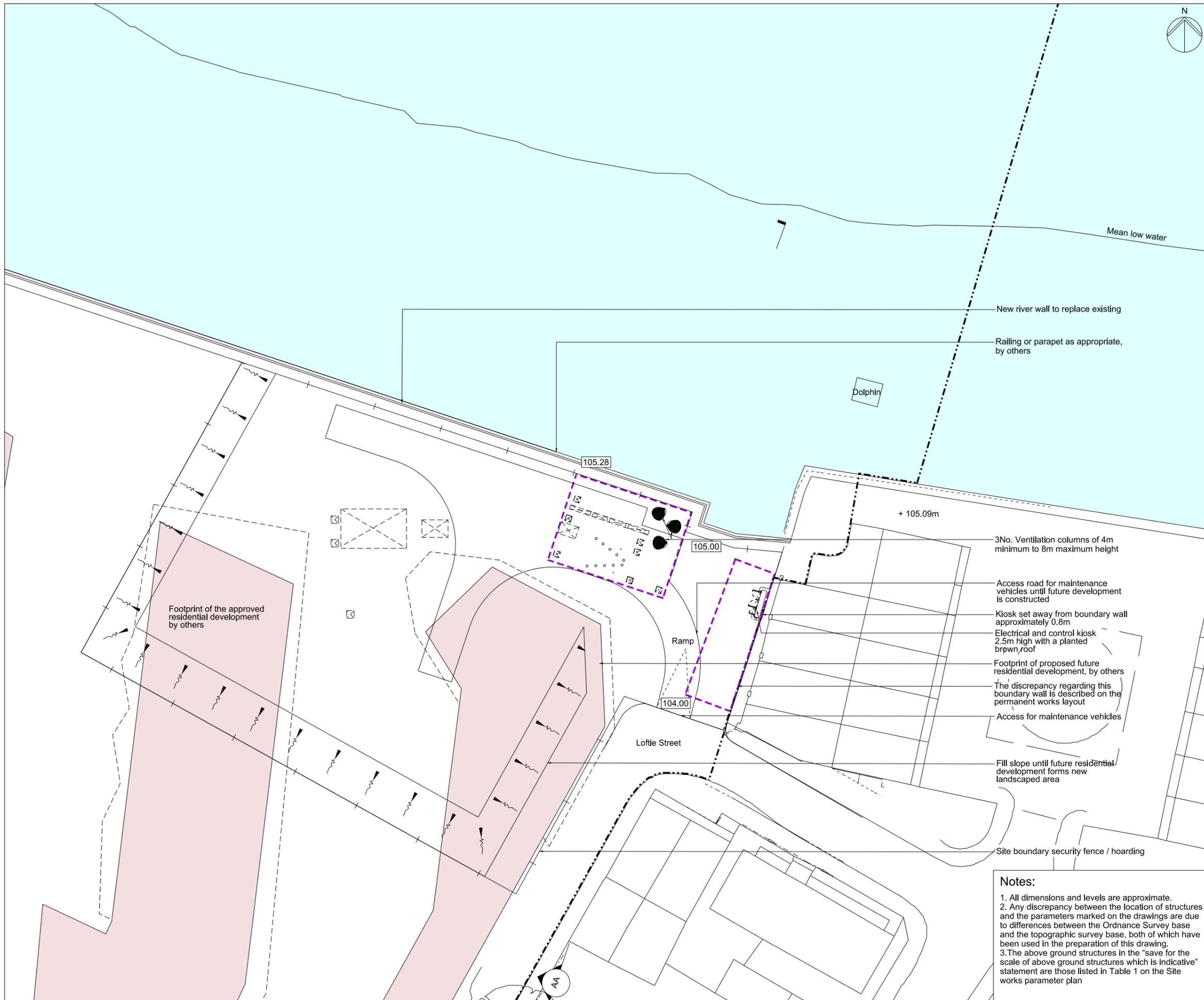
**ILLUSTRATIVE**  
Save for the scale of above ground structures which is indicative

**Location**  
Chambers Wharf  
London Borough of Southwark

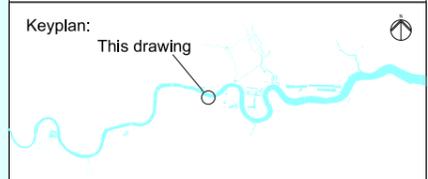
**Document Information**  
Application for Development Consent  
Proposed  
Site features - overall  
Book of plans - section 21  
DCO-PP-19X-CHAWF-210009  
January 2013



- 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 scale of above ground structures which is indicative" statement are those listed in Table 1 on the Site works parameter plan"

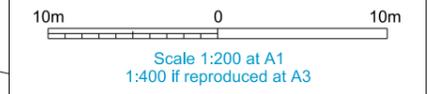


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - - - Zone within which permanent above ground structures would be located
  - + 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)
  - Hoarding



**ILLUSTRATIVE**  
Save for the scale of above ground structures which is indicative

**Location**  
Chambers Wharf  
London Borough of Southwark

**Document Information**  
Application for Development Consent

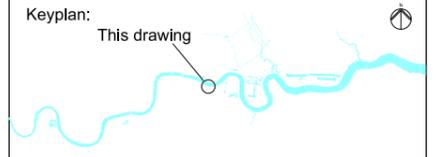
Proposed  
Site features plan - shaft area  
Book of plans - section 21  
DCO-PP-19X-CHAWF-210010  
January 2013



**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 scale of above ground structures which is indicative" statement are those listed in Table 1 on the Site works parameter plan

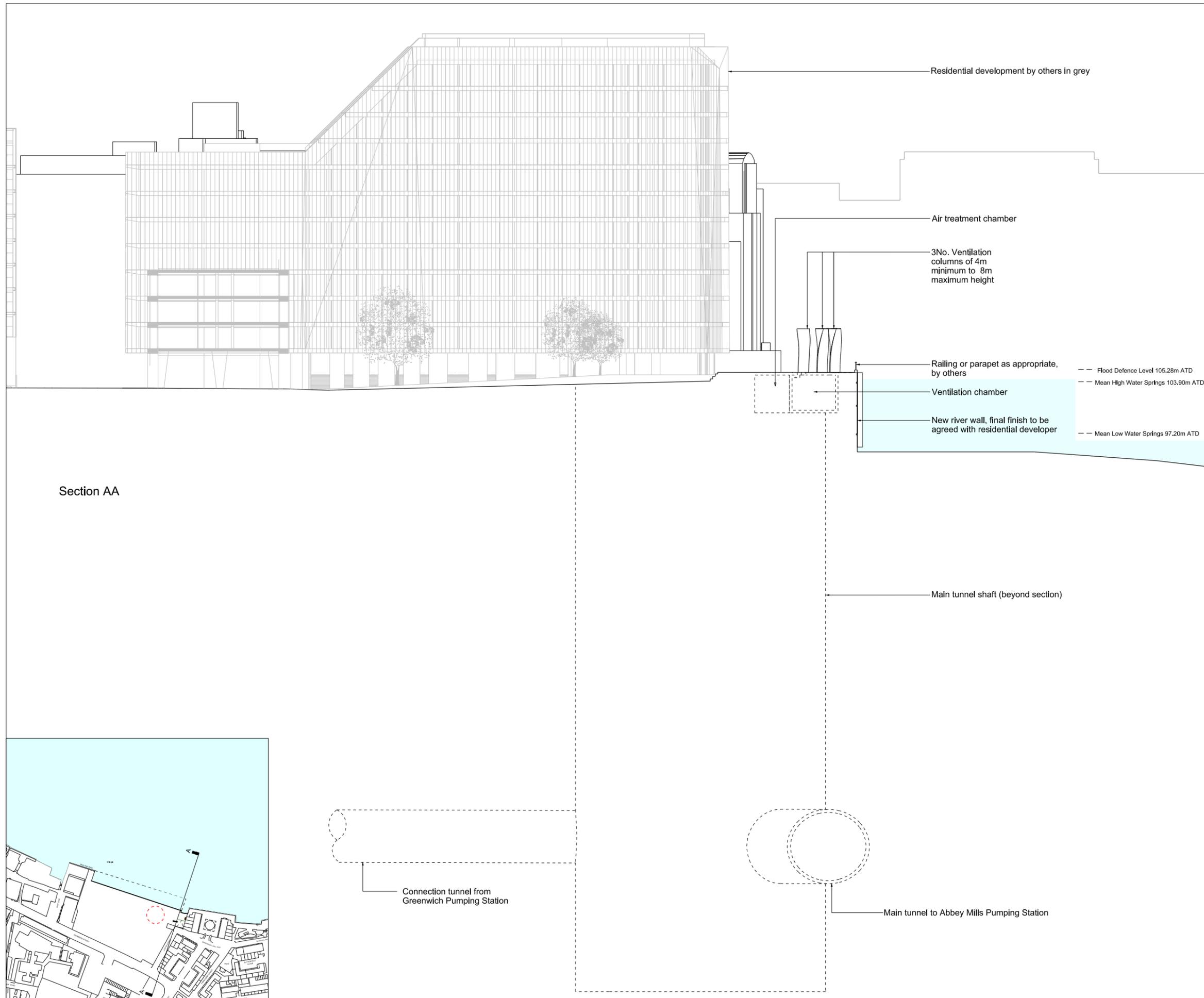
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**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.



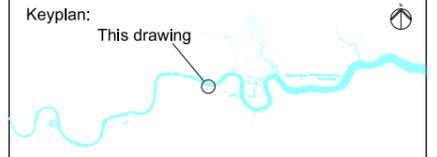
**ILLUSTRATIVE**

**Location**  
Chambers Wharf  
London Borough of Southwark

**Document Information**  
Application for Development Consent  
Post residential development  
Section AA  
Book of plans - section 21  
DCO-PP-19X-CHAWF-210011  
January 2013



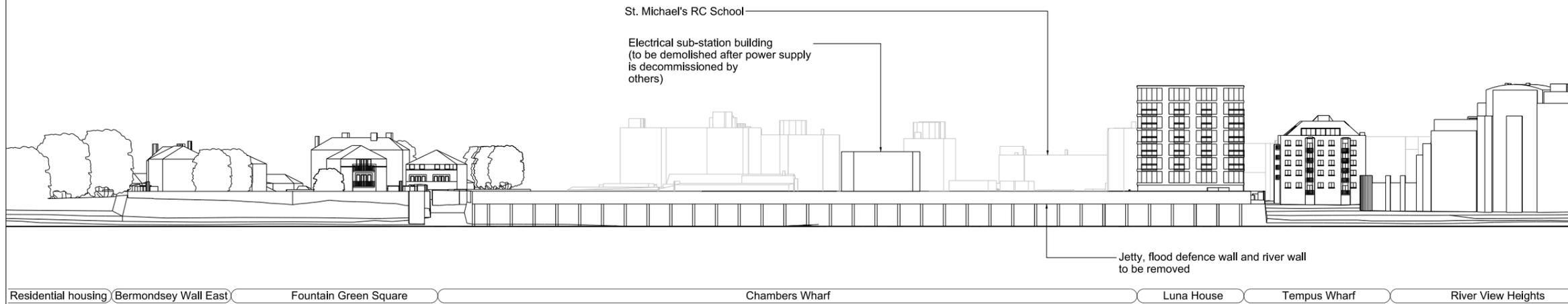
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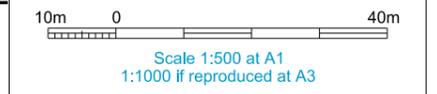
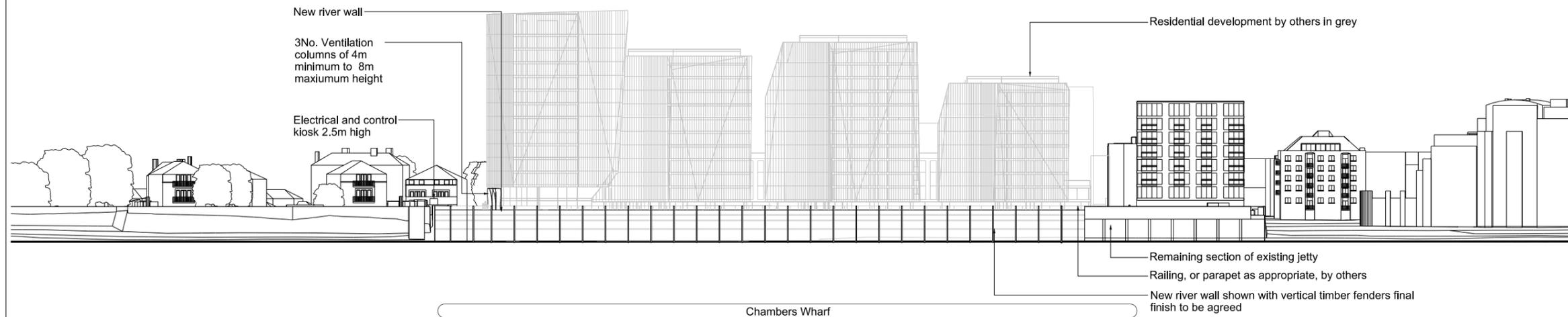
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**Notes:**

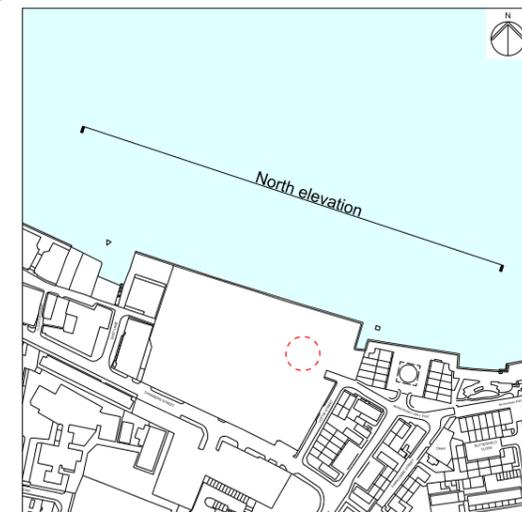
1. All dimensions and levels are approximate.



**As existing North elevation**



**Post residential development North elevation**



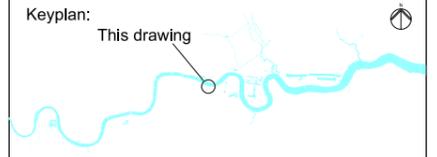
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**Location**  
Chambers Wharf  
London Borough of Southwark

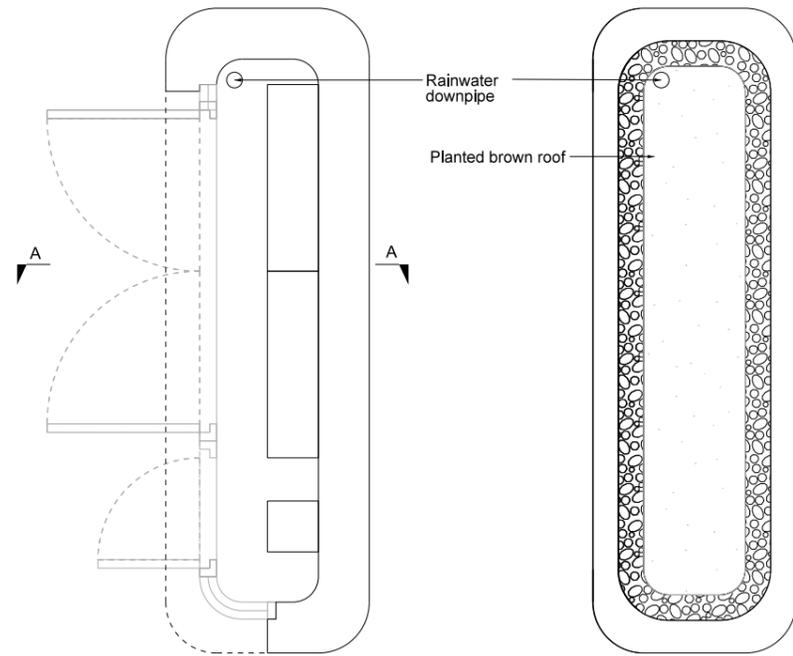
**Document Information**  
**Application for Development Consent**  
As existing and post residential development  
North elevation  
Book of plans - section 21  
DCO-PP-19X-CHAWF-210012  
January 2013



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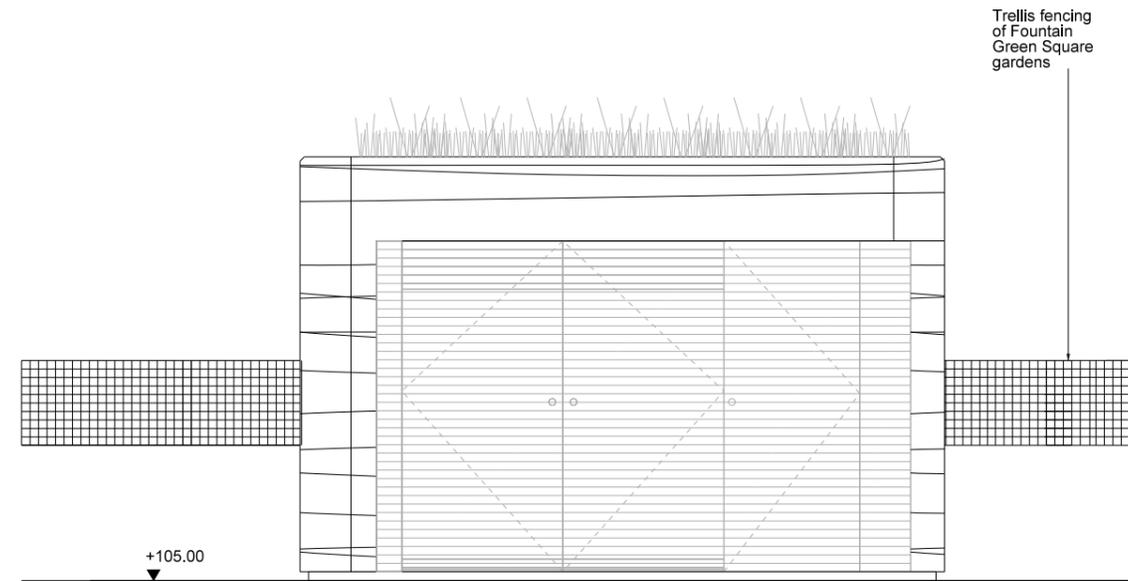


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

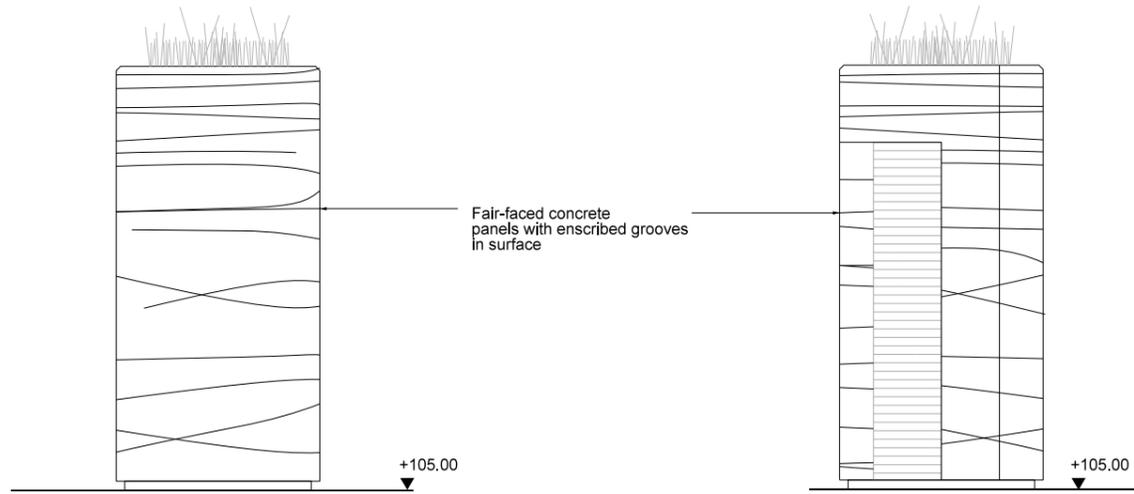


Plan at ground level

Roof plan

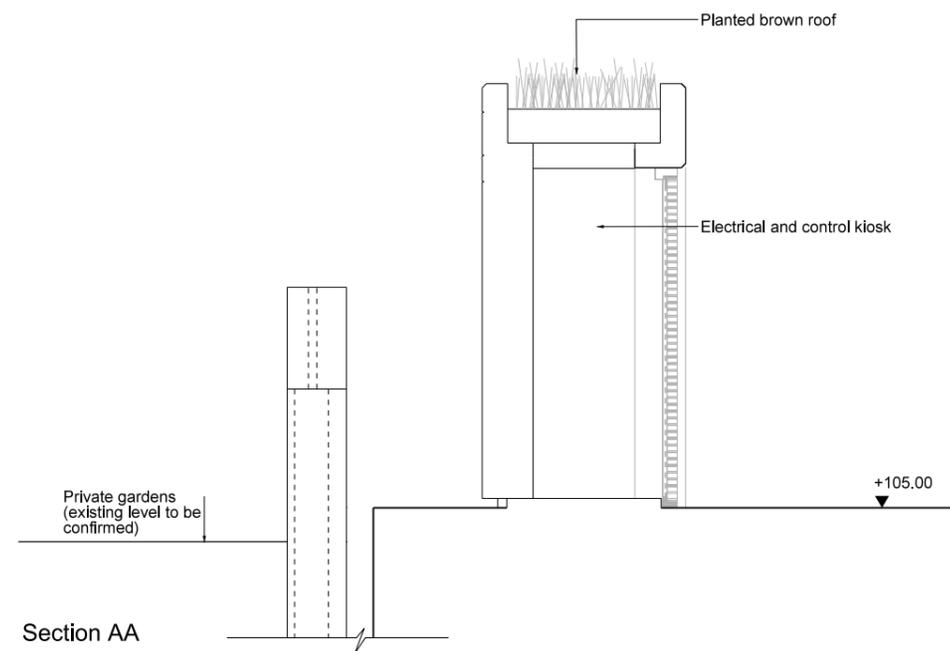


West elevation

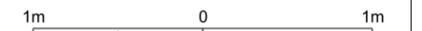


North elevation

South elevation



Section AA



Scale 1:20 at A1  
1:40 if reproduced at A3

**ILLUSTRATIVE**  
Save for the scale of the kiosk  
which is indicative

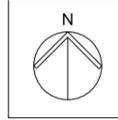
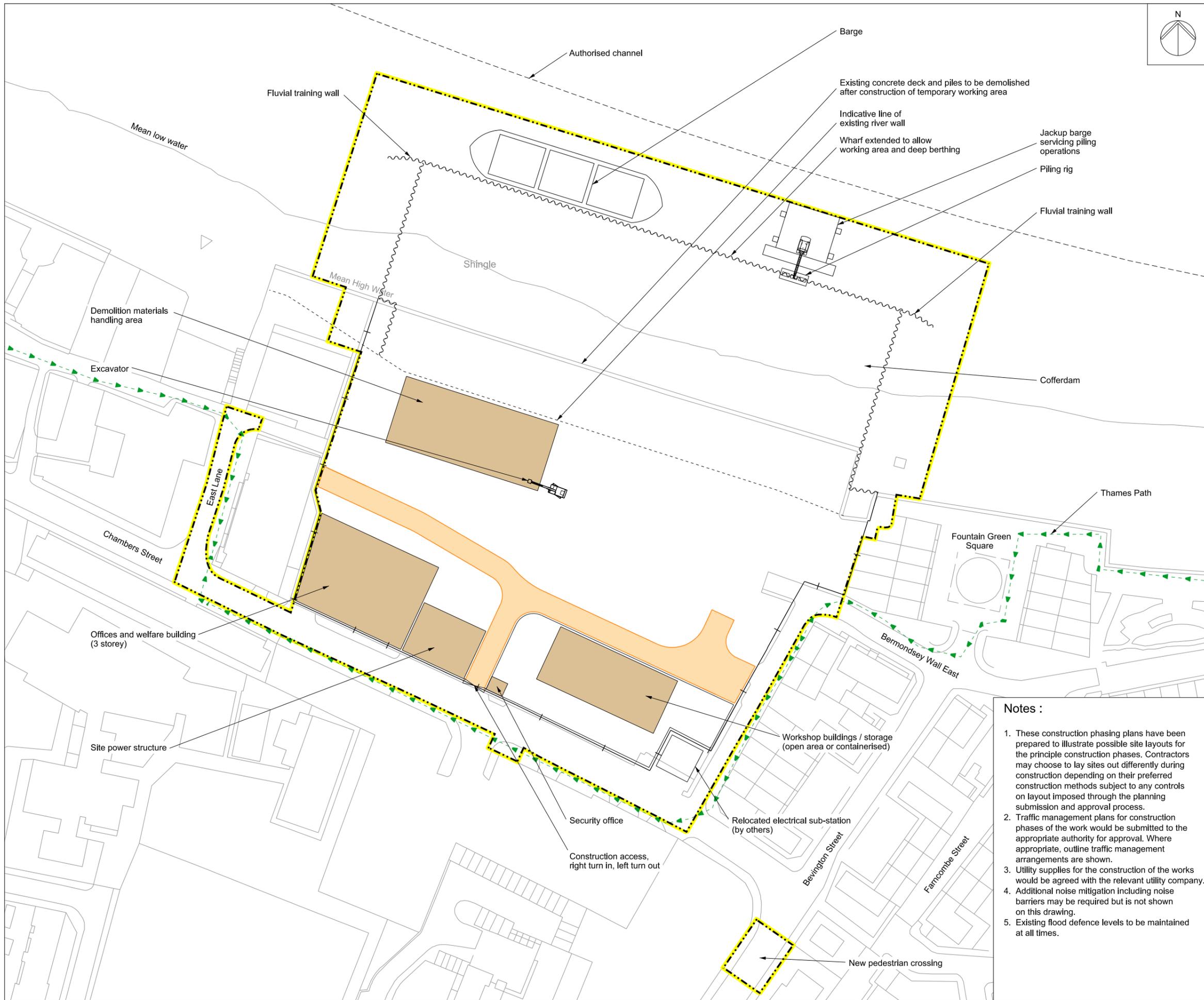
Location  
**Chambers Wharf**  
London Borough of Southwark

Document Information  
**Application for Development Consent**  
Kiosk design intent

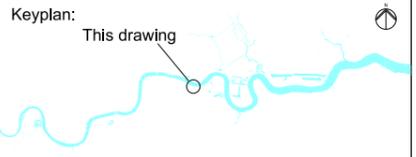
Book of plans - section 21  
DCO-PP-19X-CHAWF-210013  
January 2013

**Thames Tideway Tunnel**  
Creating a cleaner, healthier River Thames





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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
  - Sheet piles



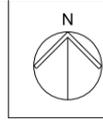
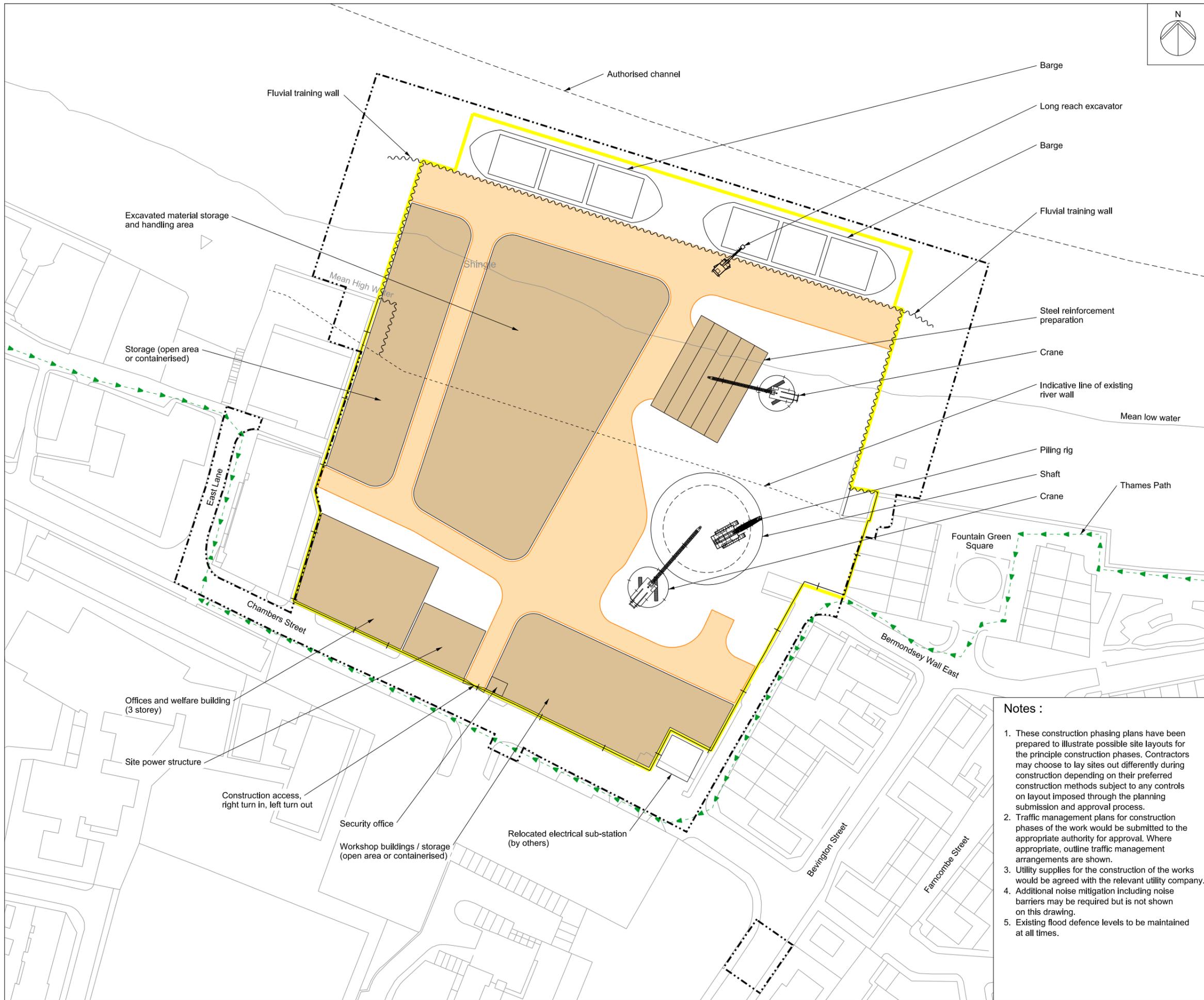
- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principle construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed 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. Existing flood defence levels to be maintained at all times.

## ILLUSTRATIVE

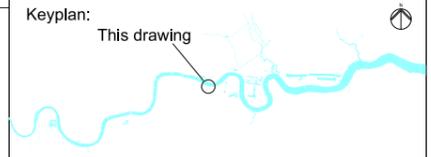
**Location**  
**Chambers Wharf**  
 London Borough of Southwark

**Document Information**  
**Application for Development Consent**  
 Construction phases - phase 1  
 Site setup  
 Book of plans - section 21  
 DCO-PP-19X-CHAWF-210014  
 January 2013



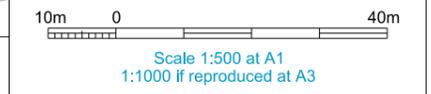


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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Hoarding
  - Maximum extent of working area
  - Existing public right of way
  - Site access
  - Access / haul route
  - Sheet piles



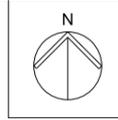
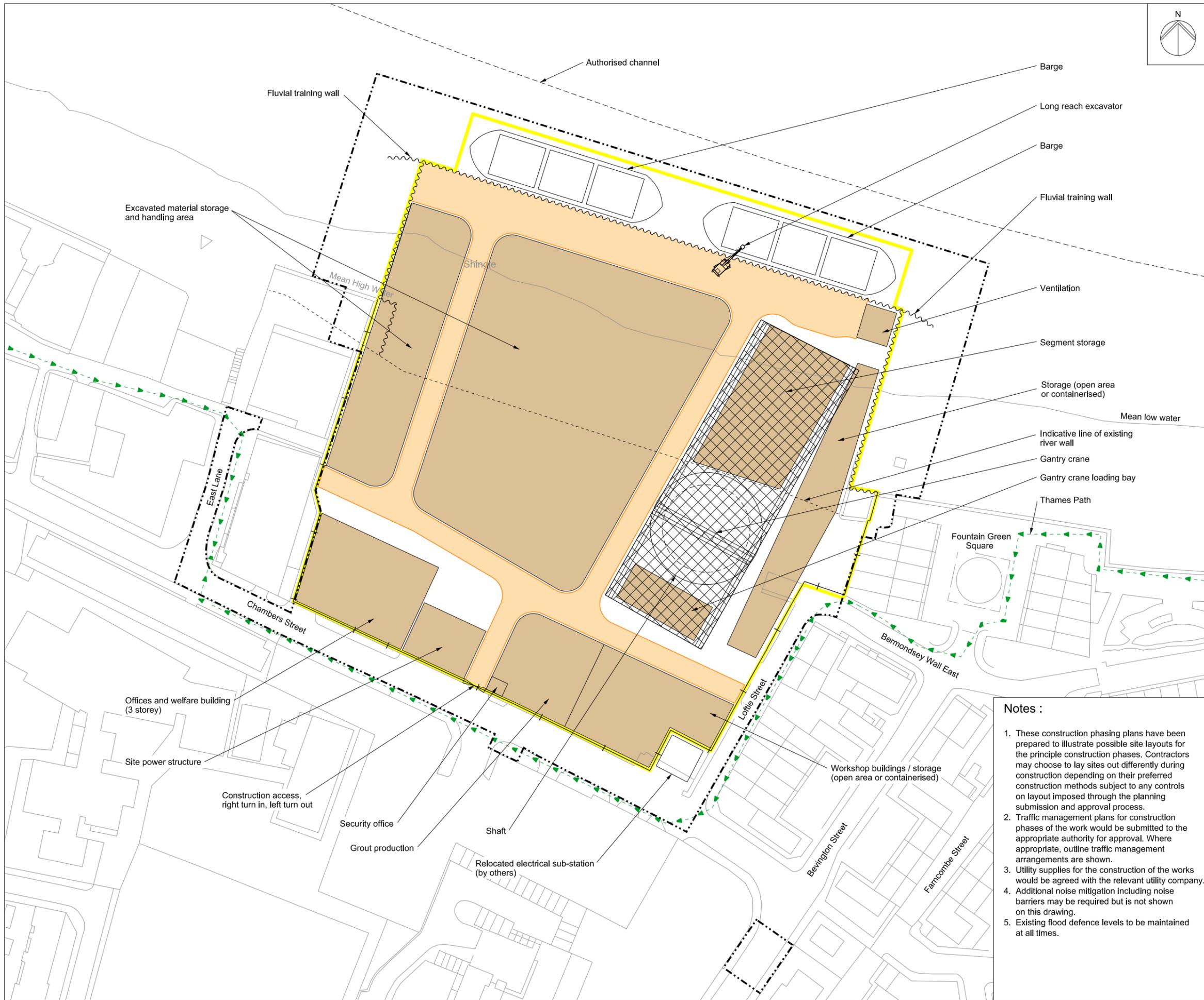
- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principle construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
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  4. Additional noise mitigation including noise barriers may be required but is not shown on this drawing.
  5. Existing flood defence levels to be maintained at all times.

## ILLUSTRATIVE

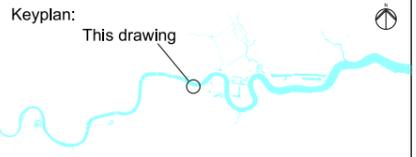
**Location**  
**Chambers Wharf**  
 London Borough of Southwark

**Document Information**  
**Application for Development Consent**  
 Construction phases - phase 2  
 Shaft construction  
 Book of plans - section 21  
 DCO-PP-19X-CHAWF-210015  
 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
  - Sheet piles
  - Noise enclosure over shaft and gantry crane



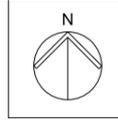
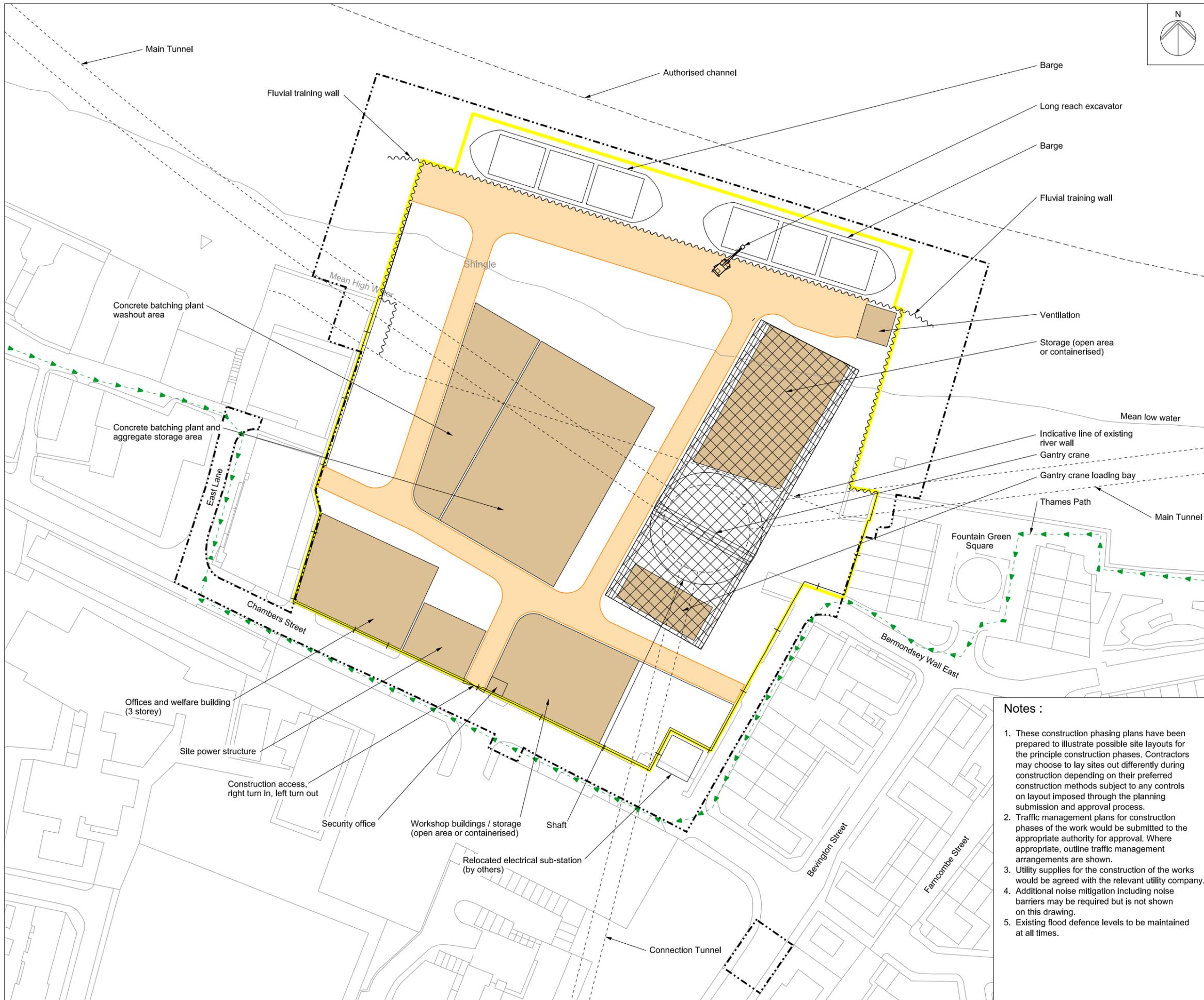
- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principle construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed 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. Existing flood defence levels to be maintained at all times.

## ILLUSTRATIVE

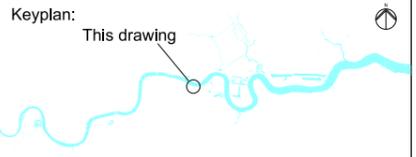
**Location**  
**Chambers Wharf**  
 London Borough of Southwark

**Document Information**  
**Application for Development Consent**  
 Construction phases - phase 3  
 Tunnelling  
 Book of plans - section 21  
 DCO-PP-19X-CHAWF-210016  
 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
  - Sheet piles
  - Noise enclosure over shaft and gantry crane



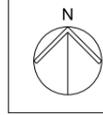
- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principle construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed 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. Existing flood defence levels to be maintained at all times.

## ILLUSTRATIVE

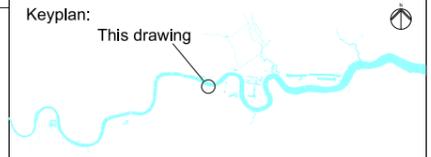
**Location**  
**Chambers Wharf**  
 London Borough of Southwark

**Document Information**  
**Application for Development Consent**  
 Construction phases - phase 4  
 Secondary lining  
 Book of plans - section 21  
 DCO-PP-19X-CHAWF-210017  
 January 2013



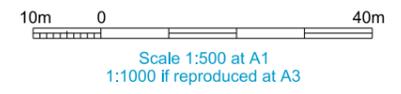
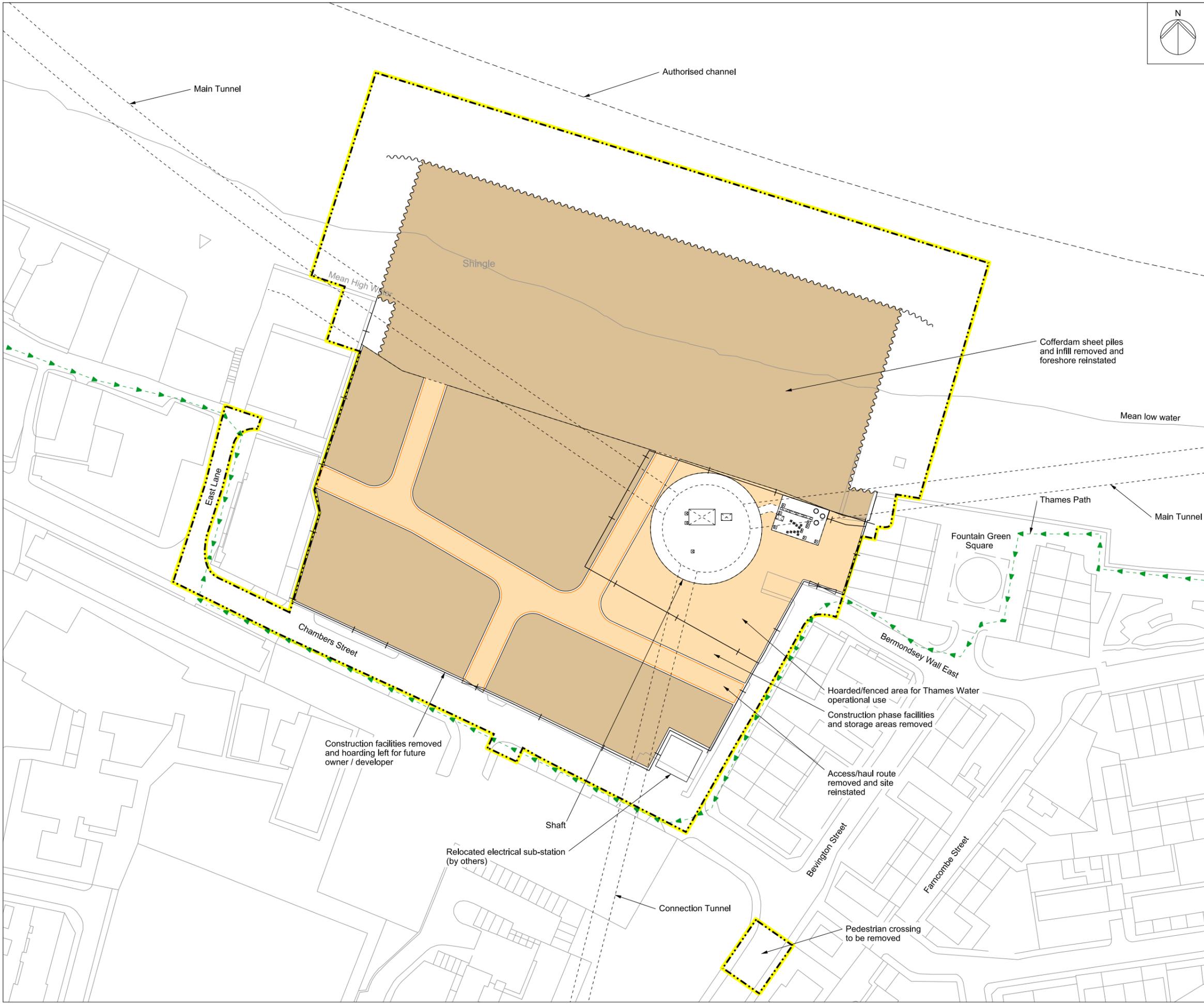


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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Hoarding
  - Maximum extent of working area
  - Existing public right of way
  - Site access
  - Access / haul route
  - Sheet piles

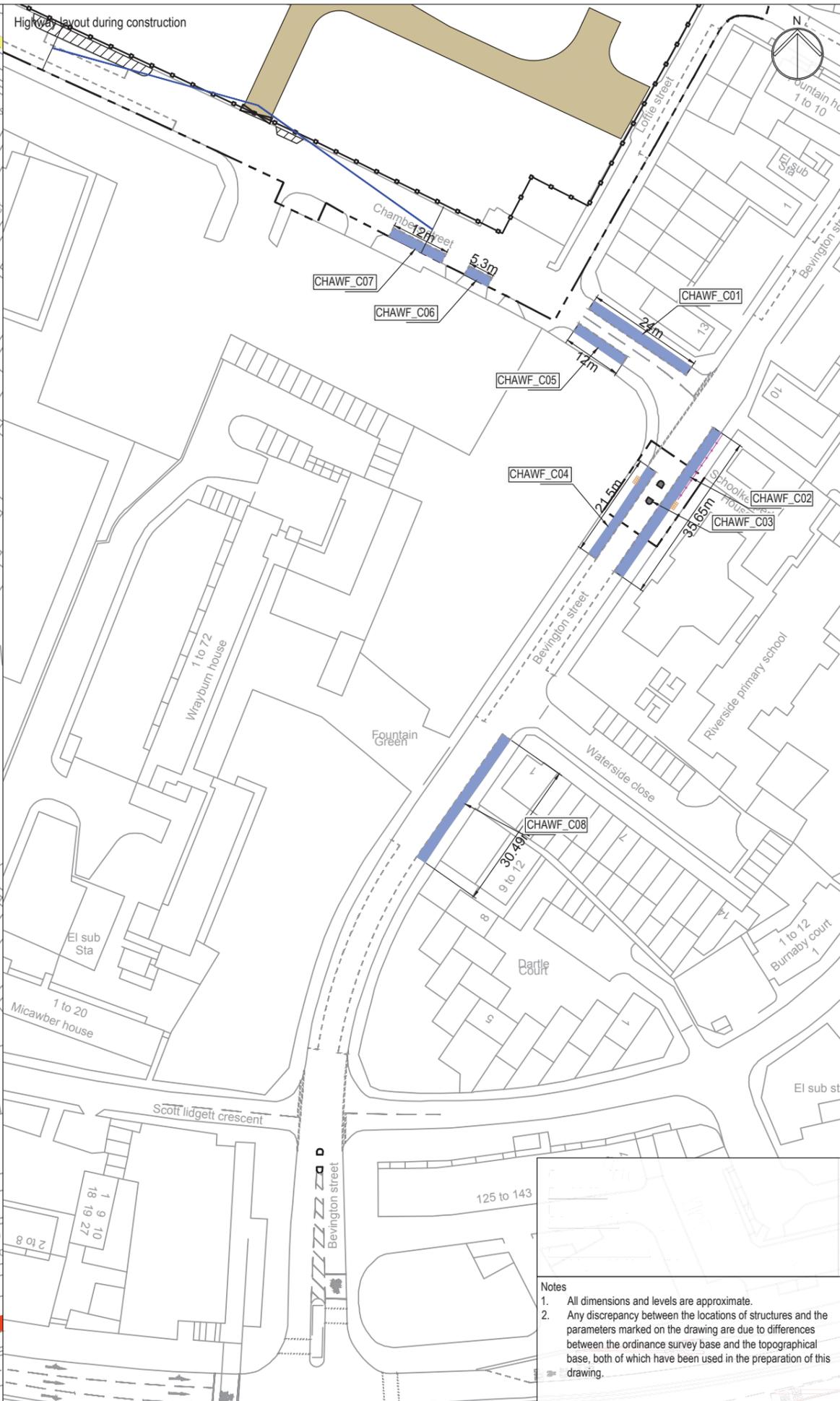


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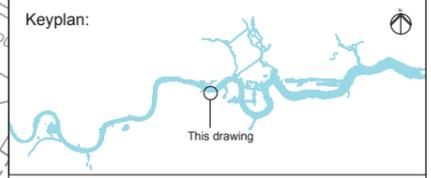
**Location**  
**Chambers Wharf**  
 London Borough of Southwark

**Document Information**  
**Application for Development Consent**  
 Construction phases - phase 5  
 Site demobilisation  
 Book of plans - section 21  
 DCO-PP-19X-CHAWF-210018  
 January 2013





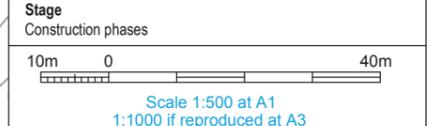
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- Key**
- Existing**
- █ On street parking
  - █ Bus stop / stand
  - █ Bus lane
  - █ Pedestrian crossing
  - █ Cycle lane / advance stop line
- Revised**
- L.L.A.U.
  - Pedestrian refuge
  - Suspended on street parking
  - Temporary footway restrictions
  - Illustrative on-site manoeuvring zone
  - Tactile paving
  - Visibility splay - 2.4m x 43m (ssd adjust for bonnet length)
  - See schedule of works
  - Hoarding line
  - Site access
  - Guardrail

- 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 for the use of tactile paving, DfT, 1998
  - Accessible bus stop design guidance, TfL, 2006



ILLUSTRATIVE

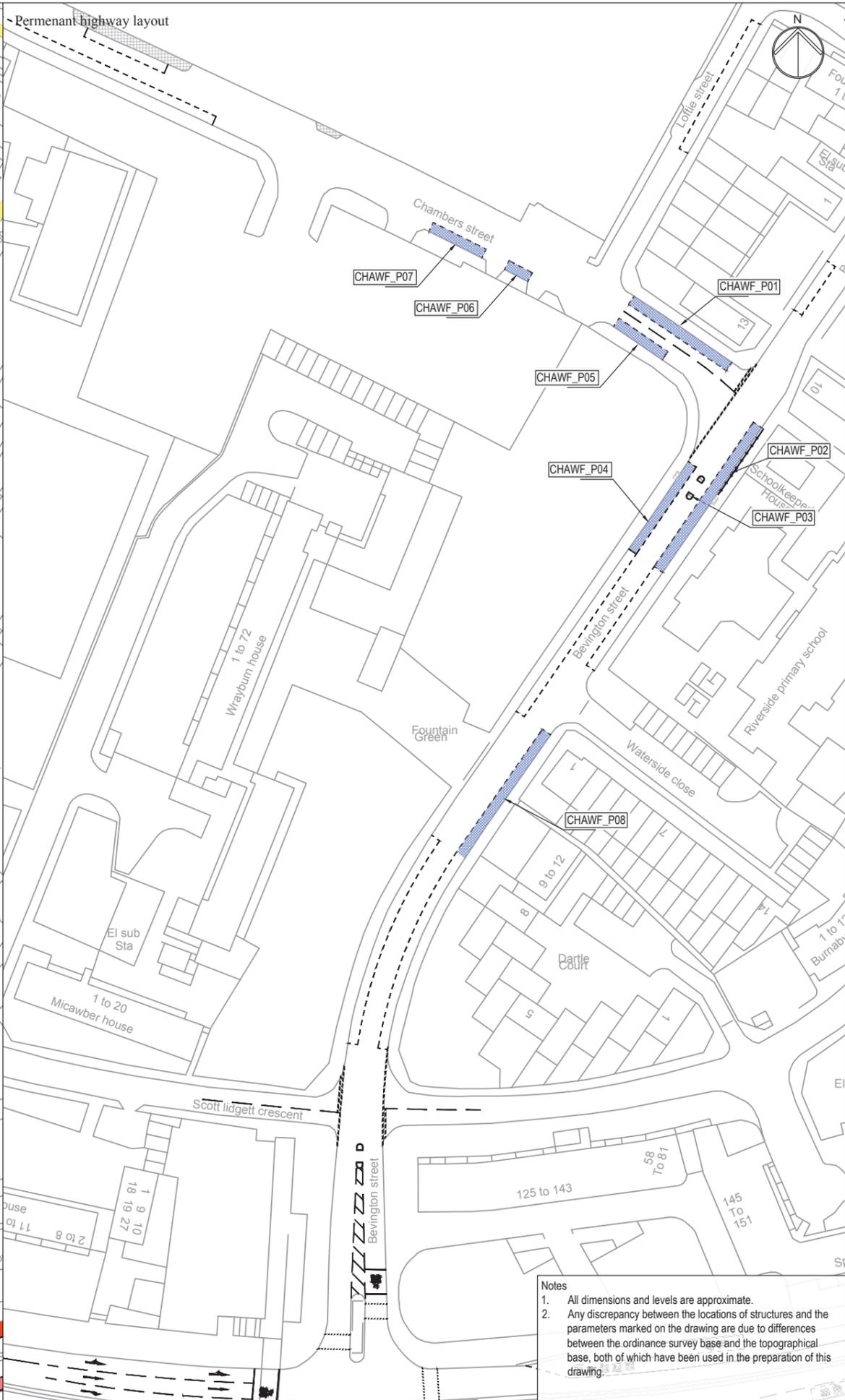
**Location**  
Chambers Wharf  
London Borough of Southwark

**Document Information**  
**Application for Development Consent**  
Highway layout during construction

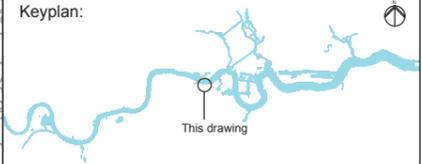
DCO-PP-19X-CHAWF-210023  
January 2013

**Notes**

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- Key**
- Existing
    - On street parking
    - Bus stop / stand
    - Bus lane
    - Pedestrian crossing
    - Cycle lane / advance stop line
  - Revised
    - Reinstated footway
    - Reinstated carriageway
    - Reinstated on street parking
    - Illustrative on-site manoeuvring zone
    - See schedule of works
    - Remove guardrail

**On street parking**

Permit holder  
 permit holders only mon - fri 8:30am - 6:30pm

Solo motorcycle  
 solo motorcycles only at all times

Car club permit holders  
 car club permit holders at all times

- 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 for the use of tactile paving, DfT, 1998
  - Accessible bus stop design guidance, TfL, 2006

**Stage**  
 Construction phases



**ILLUSTRATIVE**

**Location**  
 Chambers Wharf  
 London Borough of Southwark

**Document Information**  
 Application for Development Consent  
 Permanent highway layout

DCO-PP-19X-CHAWF-210024  
 January 2013



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Clearwater Court, Vastern Road, Reading RG1 8DB

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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.