

Thames Tideway Tunnel  
Thames Water Utilities Limited



# Application for Development Consent

Application Reference Number: WWO10001

## Book of Plans

Doc Ref: **2.09**

### Carnwath Road Riverside

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

Hard copy available in  
Box **61** Folder **B**  
January 2013

Thames  
Tideway Tunnel   
Creating a cleaner, healthier River Thames

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## Application for Development Consent: Book of Plans

### List of Volumes

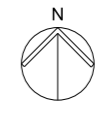
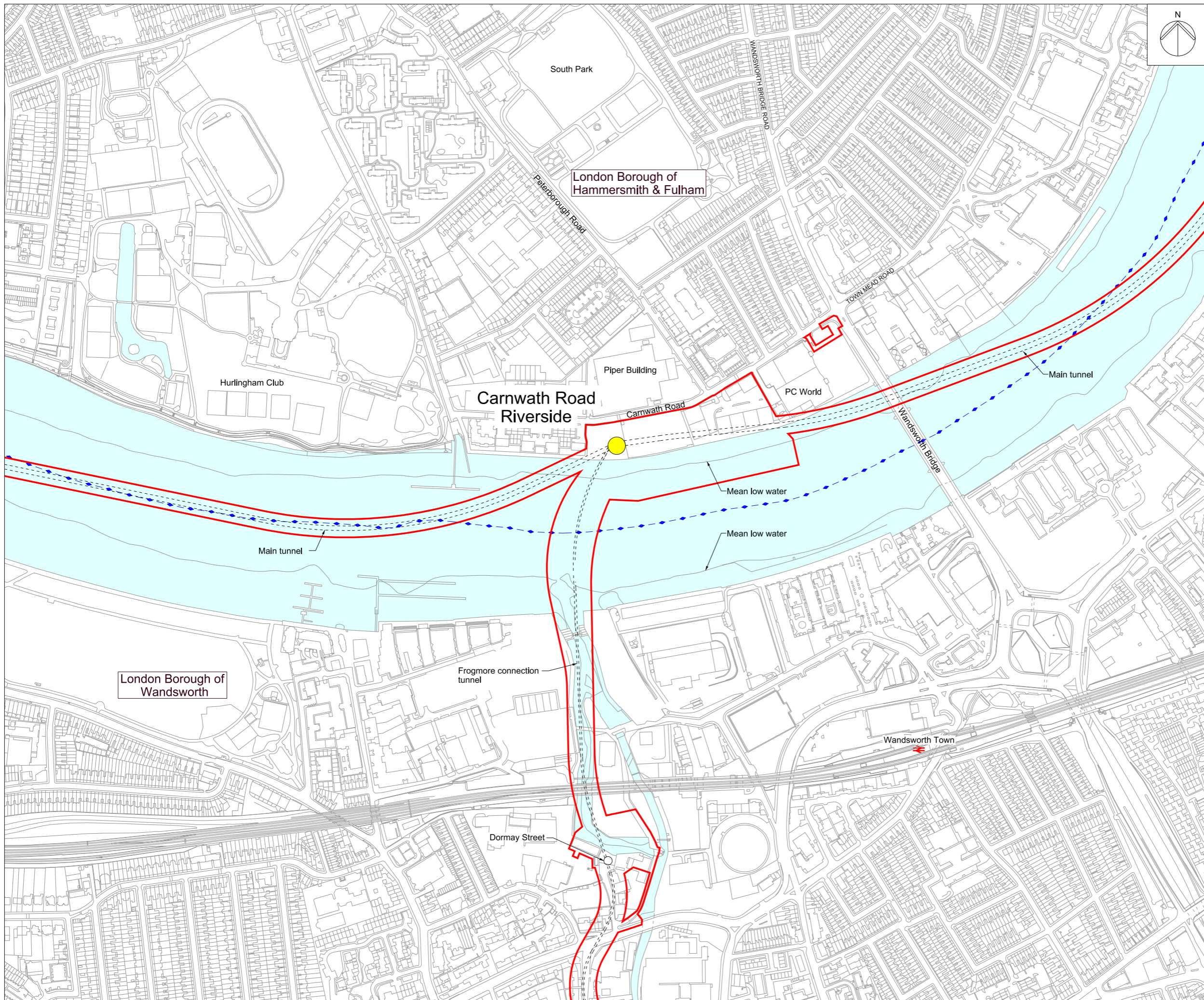
Box	Volume	Section	Location	Drawing type or site location
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		3	Project-wide drawings	Land plans
		4	Project-wide drawings	Crown and special category land plans
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		6	Site drawings	Hammersmith Pumping Station
		7	Site drawings	Barn Elms
		8	Site drawings	Putney Embankment Foreshore
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		11	Site drawings	King George's Park
		12	Site drawings	Falconbrook Pumping Station
		13	Site drawings	Cremorne Wharf Depot
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		19	Site drawings	Blackfriars Bridge Foreshore
	5	20	Site drawings	Shad Thames Pumping Station
		21	Site drawings	Chambers Wharf
		22	Site drawings	Earl Pumping Station
		23	Site drawings	Deptford Church Street
	6	24	Site drawings	Greenwich Pumping Station
		25	Site drawings	King Edward Memorial Park Foreshore
		26	Site drawings	Bekesbourne Street
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		28	Site drawings	Beckton Sewage Treatment Works.
		29	Project-wide drawings	Ventilation columns

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## Volume 2

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Demolition and site clearance		DCO-PP-06X-CARRR-090004
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Construction phases - phase 2 Tunnelling		DCO-PP-06X-CARRR-090015
Construction phases - phase 3 Secondary lining		DCO-PP-06X-CARRR-090016
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Highway layout during construction - Area 1 work*		DCO-PP-06X-CARRR-090021
Highway layout during construction - Area 2 work*		DCO-PP-06X-CARRR-090022
Permanent highway layout - Area 1 work*		DCO-PP-06X-CARRR-090023
Permanent highway layout - Area 2 work*		DCO-PP-06X-CARRR-090024

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



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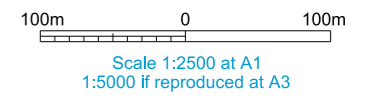


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

Notes:

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



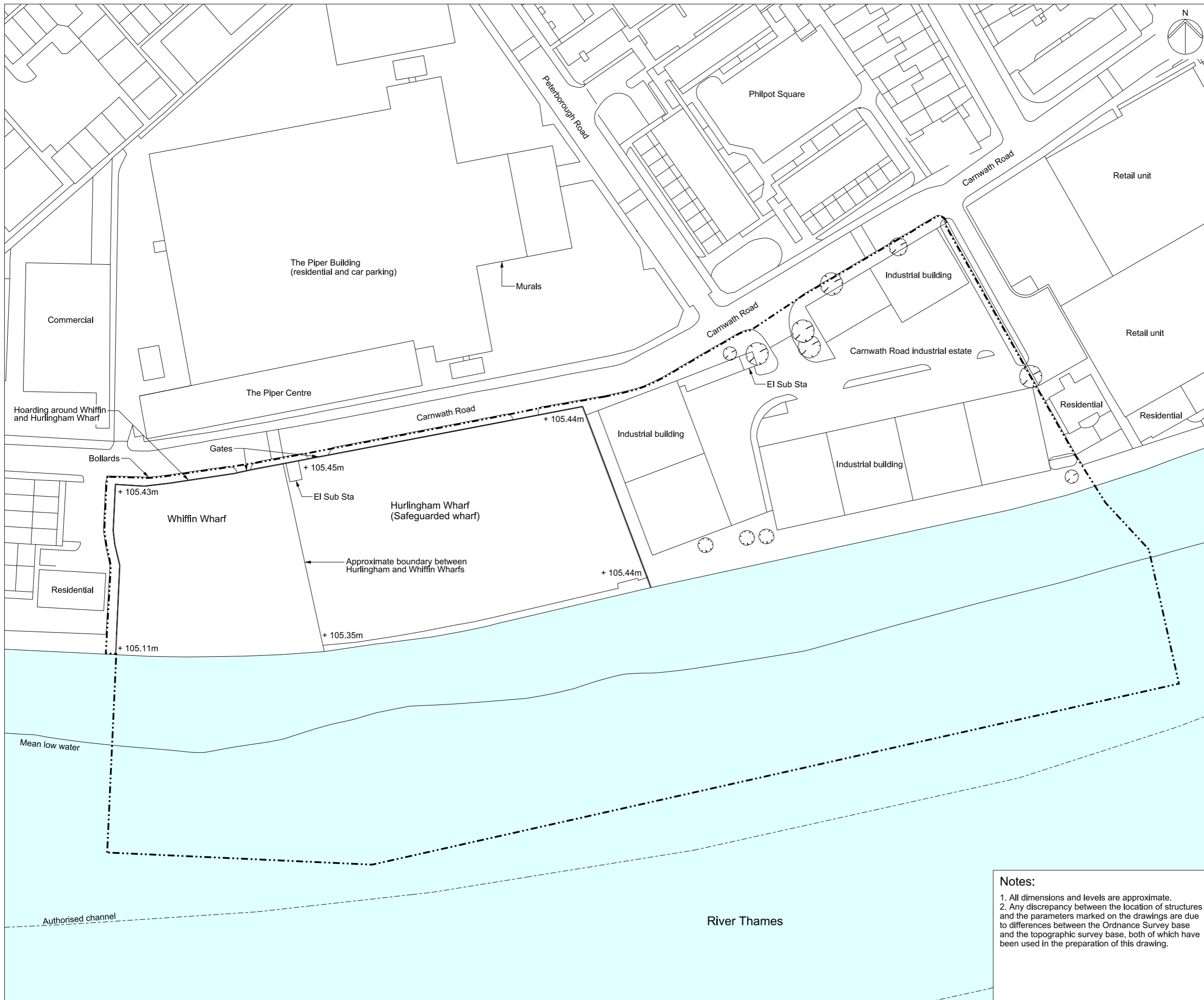
## FOR INFORMATION

**Location**  
**Carnwath Road Riverside**  
 London Borough of Hammersmith & Fulham

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

Book of plans - section 9  
 DCO-PP-06X-CARRR-090001  
 January 2013



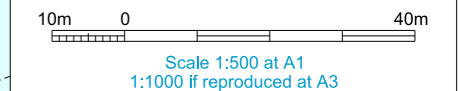


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - - - - - Authorised channel
  - + 105.40m Existing levels (shown in metres above tunnel datum)
  - ⊙ Existing trees approximate positions



## FOR INFORMATION

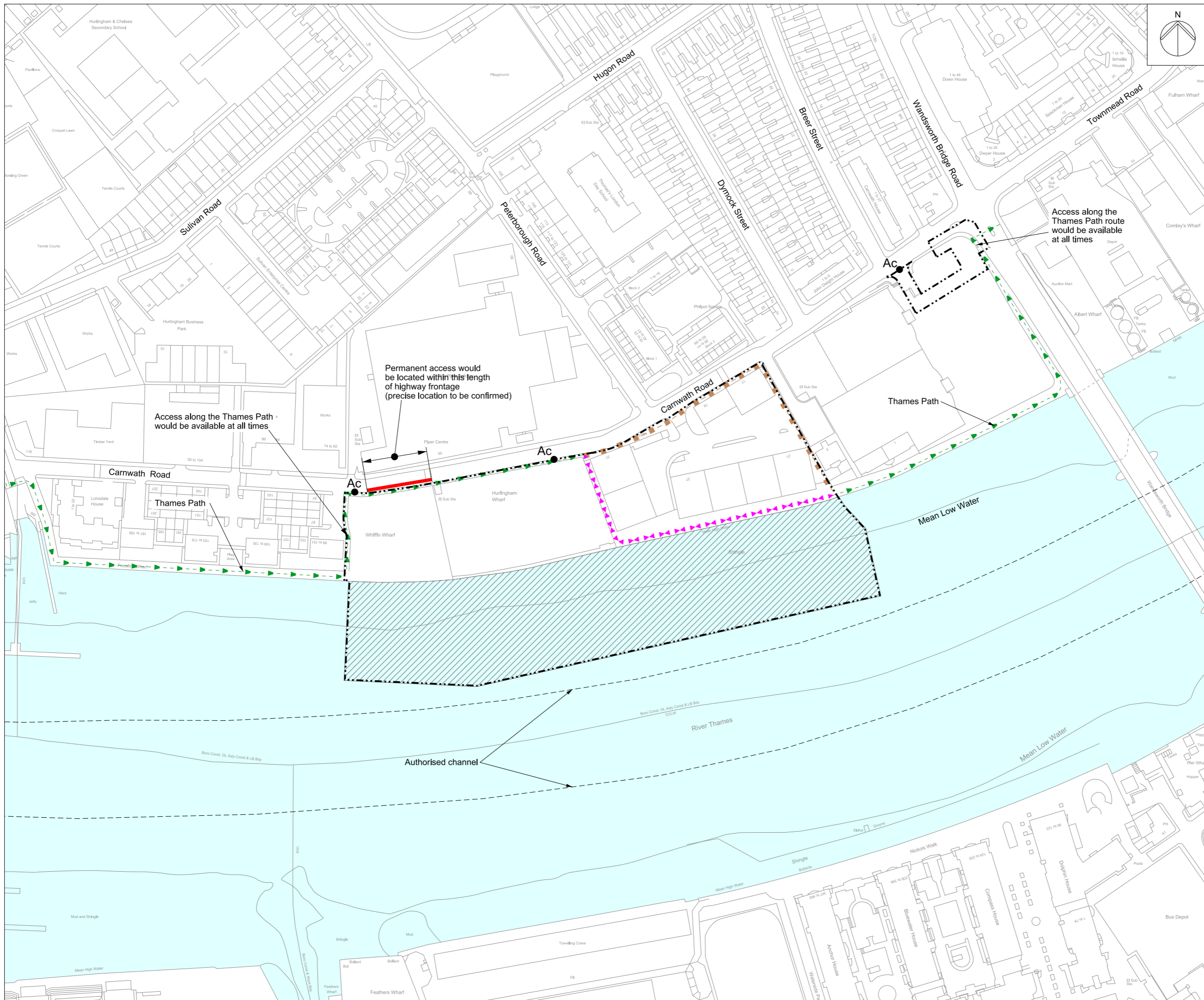
**Location**  
Carnwath Road Riverside  
London Borough of Wandsworth

**Document Information**  
**Application for Development Consent**  
As existing  
Site features plan  
Book of plans - section 9  
DCO-PP-06X-CARRR-090002  
January 2013

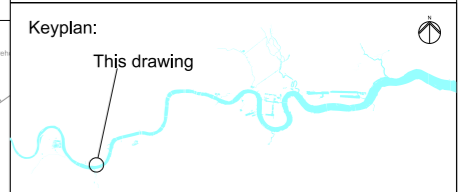
**Notes:**

- 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.





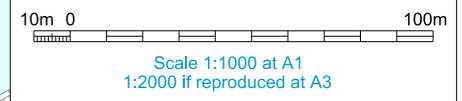
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Existing public right of way
  - Route of temporary diversion of right of way
  - Existing right of way temporarily stopped up
  - Area of temporary suspension of public rights of navigation
  - Ac ●** Access to construction works
  - Highway frontage within which access would be located

- Notes:**
1. This plan does not show stopping up and diversions of limited duration (eg 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.



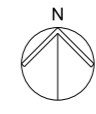
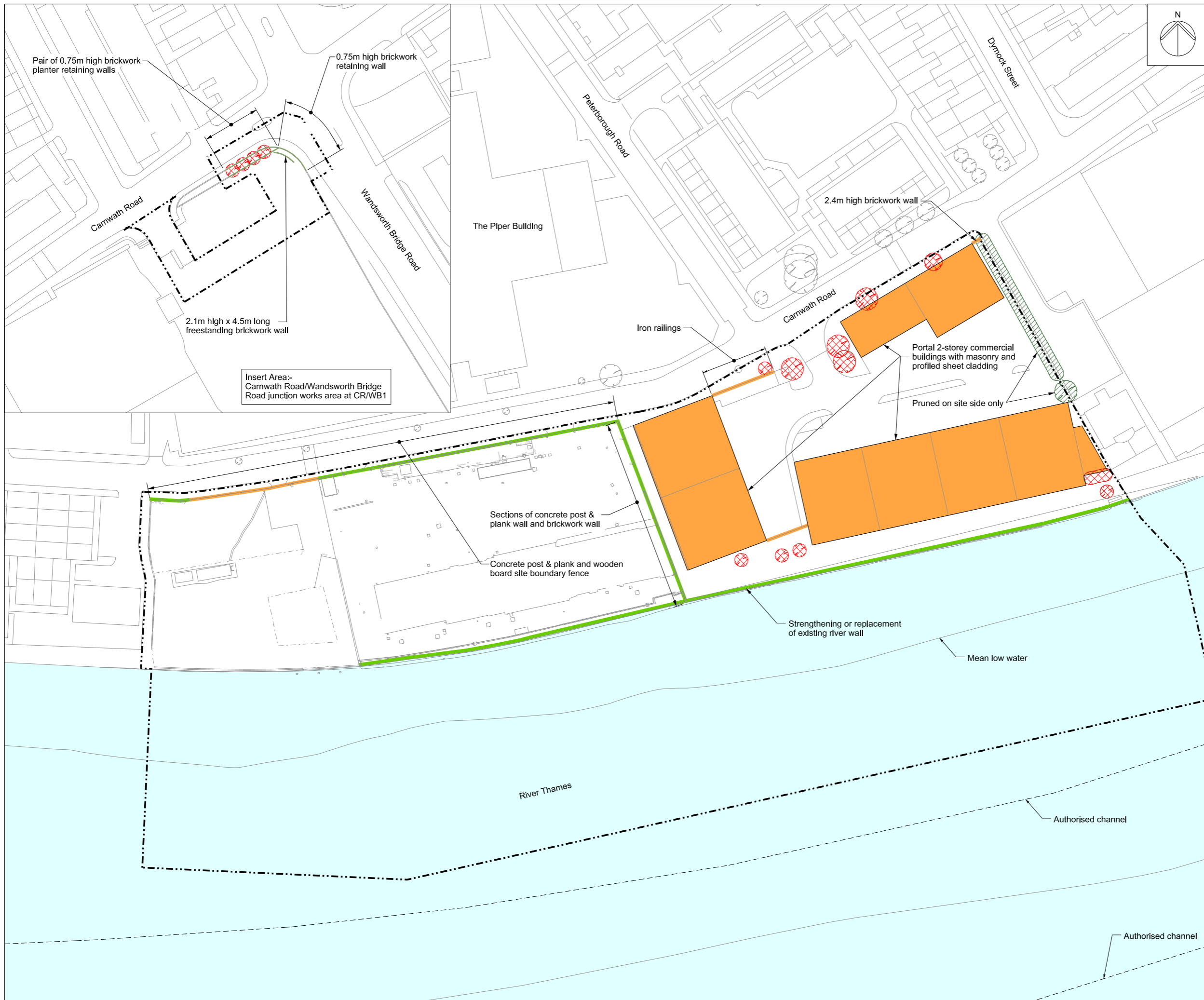
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**Location**  
Carnwath Road Riverside  
London Borough of Hammersmith & Fulham

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

Book of plans - section 9  
DCO-PP-06X-CARRR-090003  
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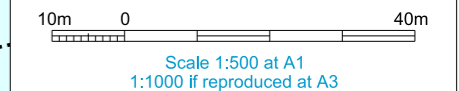
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

- 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.



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**Location**  
Carnwath Road Riverside  
London Borough of Hammersmith & Fulham

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

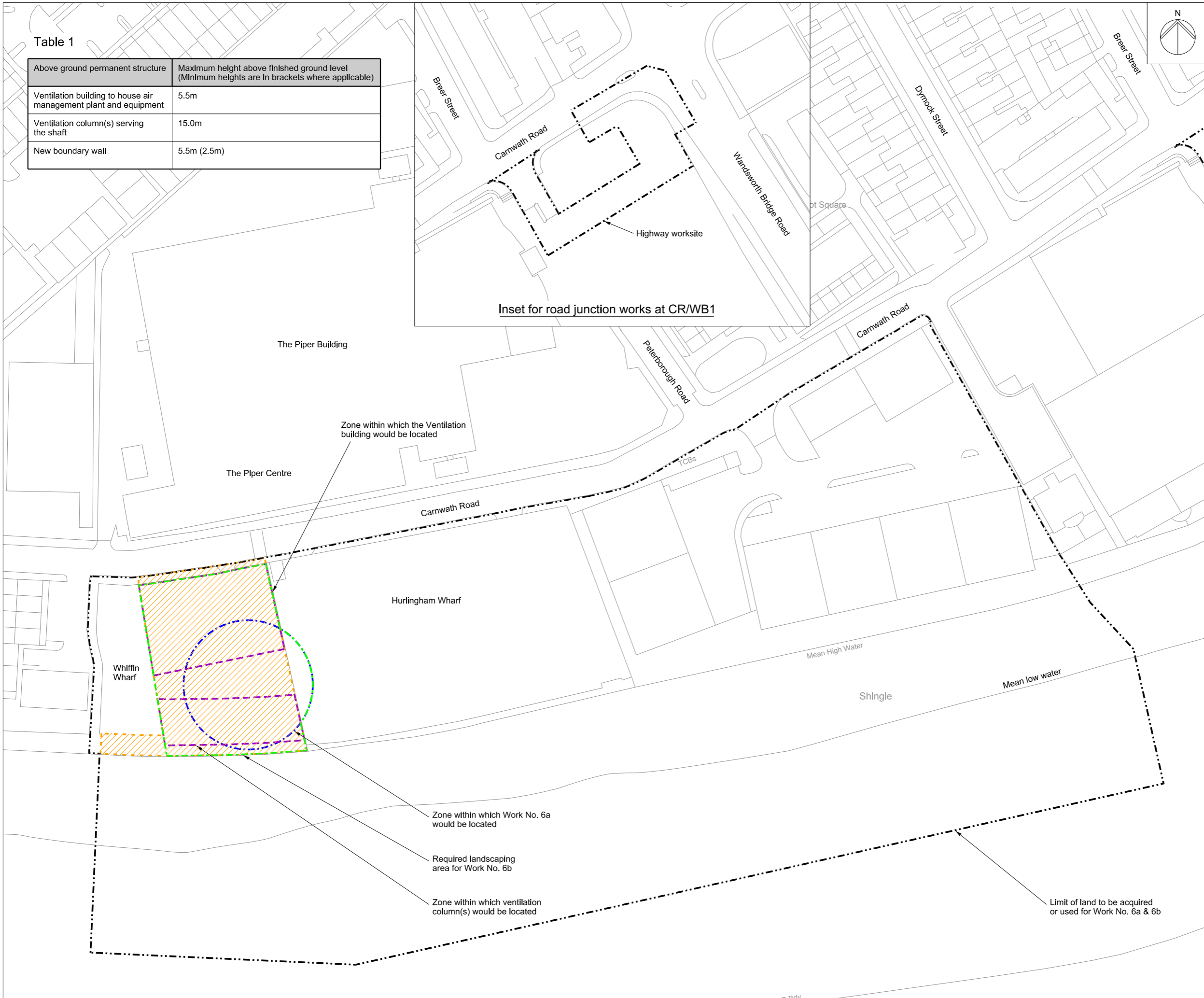
Book of plans - section 9  
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January 2013





Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Ventilation building to house air management plant and equipment	5.5m
Ventilation column(s) serving the shaft	15.0m
New boundary wall	5.5m (2.5m)



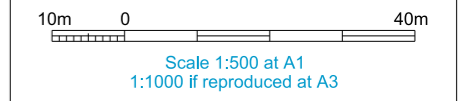
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- Key:
- Limits of land to be acquired or used (LLAU)
  - Zone within which all permanent site structures would be located
  - Zone within which the shaft would be located
  - Zone within which permanent above ground structures would be located (those listed in Table 1)
  - Zone within which required landscaping would be located

- 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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Location  
**Carnwath Road Riverside**  
London Borough of Hammersmith & Fulham

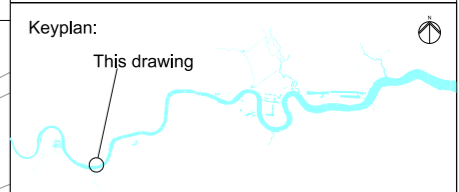
Document Information  
**Application for Development Consent**  
Site works parameter plan

Book of plans - section 9  
DCO-PP-06X-CARRR-090005  
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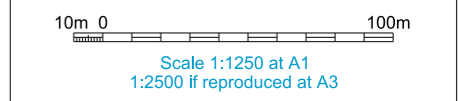
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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Zone within which all permanent site structures would be located
  - Zone within which the shaft would be located
  - Zone within which permanent above ground structures would be located
  - Zone within which required landscaping would be located

- Notes:**
- All dimensions and levels are approximate.
  - The Site Works Parameter Key Plan identifies each zone independently. The zones are identical to those shown on the Site works parameter plan.
  - 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.



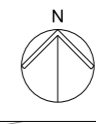
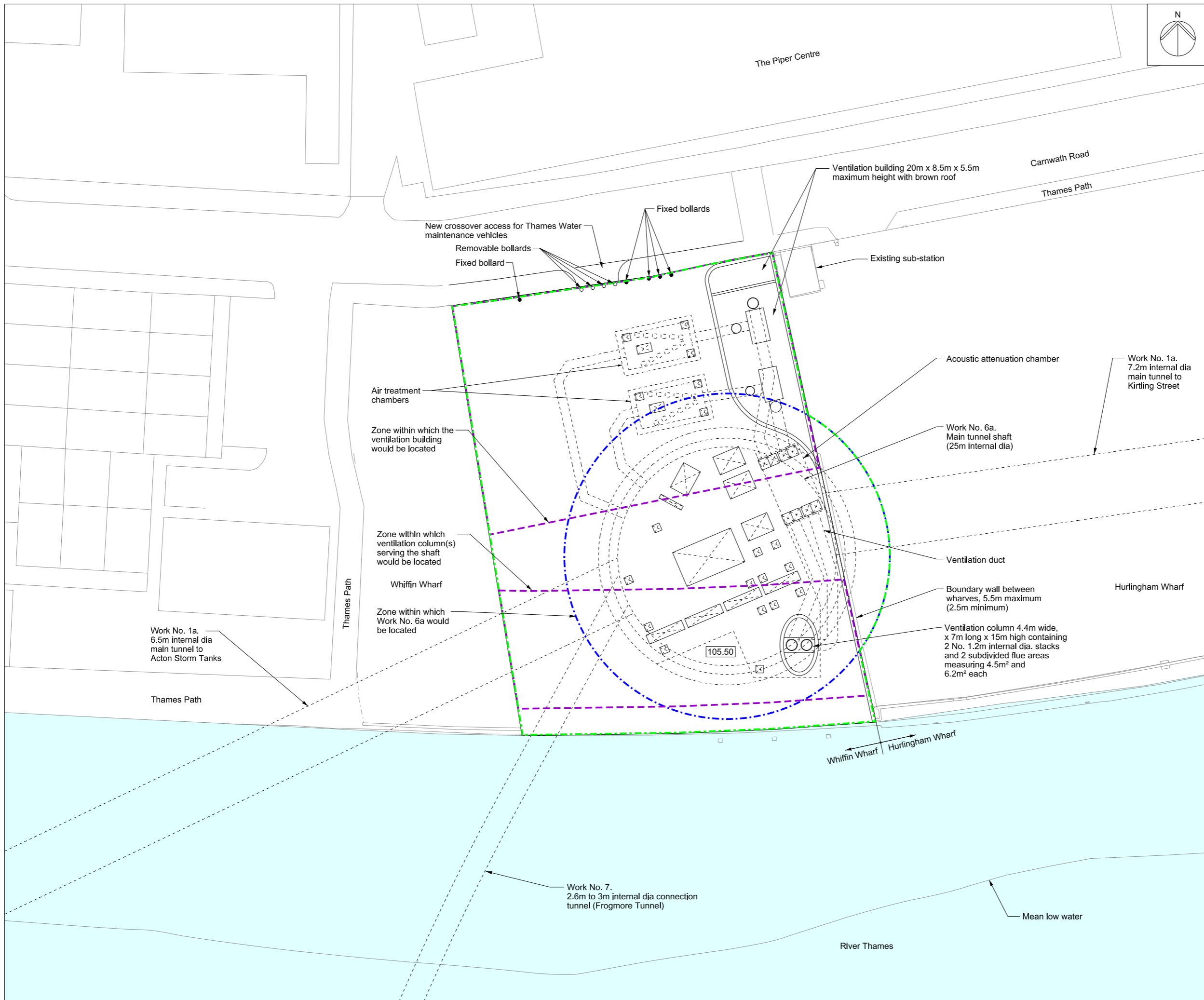
## FOR INFORMATION

**Location**  
**Carnwath Road Riverside**  
 London Borough of Hammersmith & Fulham

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

Book of plans - section 9  
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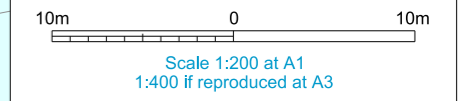
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- Key:**
- Limits of land to be acquired or used (LLAU)
  - Proposed access cover
  - 104.50 Proposed level (shown in metres above tunnel datum)
  - Zone within which all permanent site structures would be located
  - Zone within which the shaft would 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.



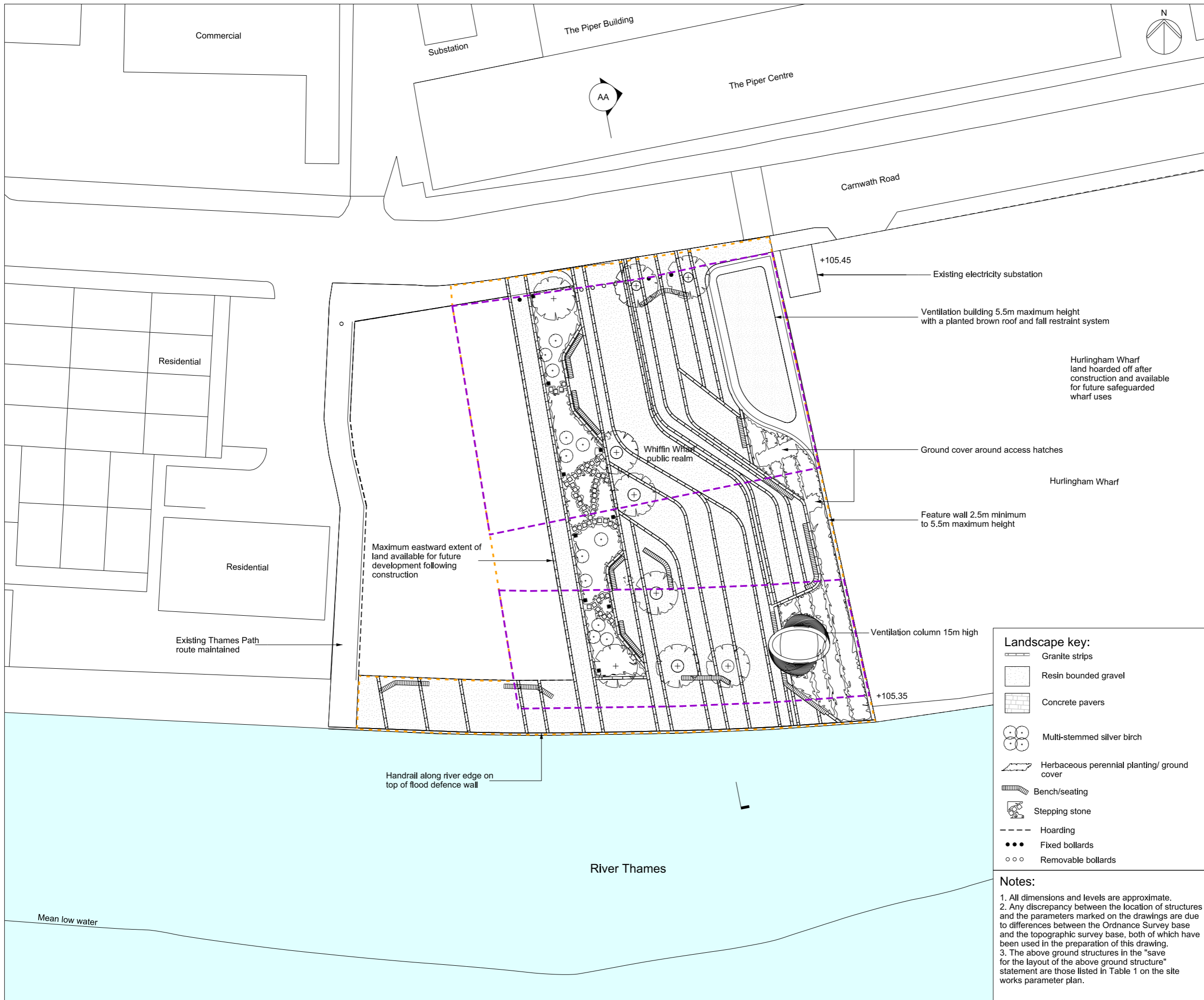
## ILLUSTRATIVE

**Location**  
**Carnwath Road Riverside**  
 London Borough of Hammersmith & Fulham

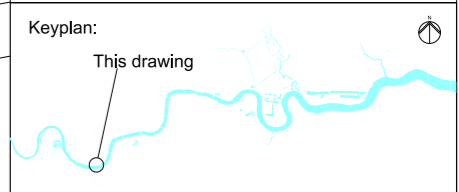
**Document Information**  
**Application for Development Consent**  
 Permanent works layout

Book of plans - section 9  
 DCO-PP-06X-CARRR-090007  
 January 2013





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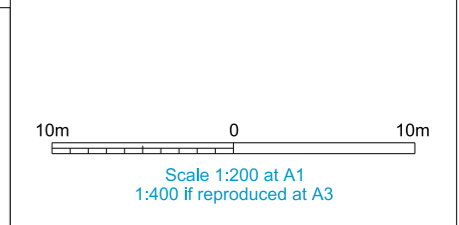
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- 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
  - + 105.40m Existing levels (shown in metres above tunnel datum)
  - Consented development footprint (by others)
  - Listed buildings/structures
  - Proposed trees

- Landscape key:**
- Granite strips
  - Resin bounded gravel
  - Concrete pavers
  - Multi-stemmed silver birch
  - Herbaceous perennial planting/ ground cover
  - Bench/seating
  - Stepping stone
  - Hoarding
  - Fixed bollards
  - Removable bollards

**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.
- The above ground structures in the "save for the layout of the above ground structure" statement are those listed in Table 1 on the site works parameter plan.



**INDICATIVE**  
Save for layout of above ground structures which is illustrative

**Location**  
Carnwath Road Riverside  
London Borough of Wandsworth

**Document Information**  
Application for Development Consent

Proposed  
Landscape plan  
Book of plans - section 9  
DCO-PP-06X-CARRR-090008  
January 2013



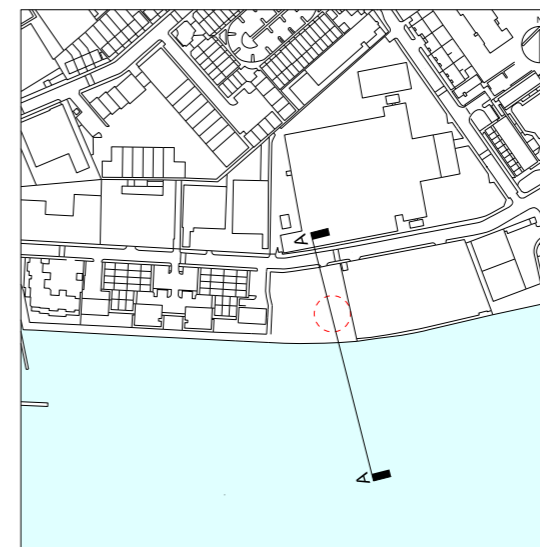
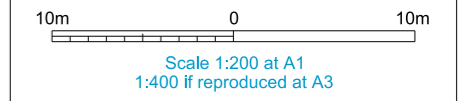
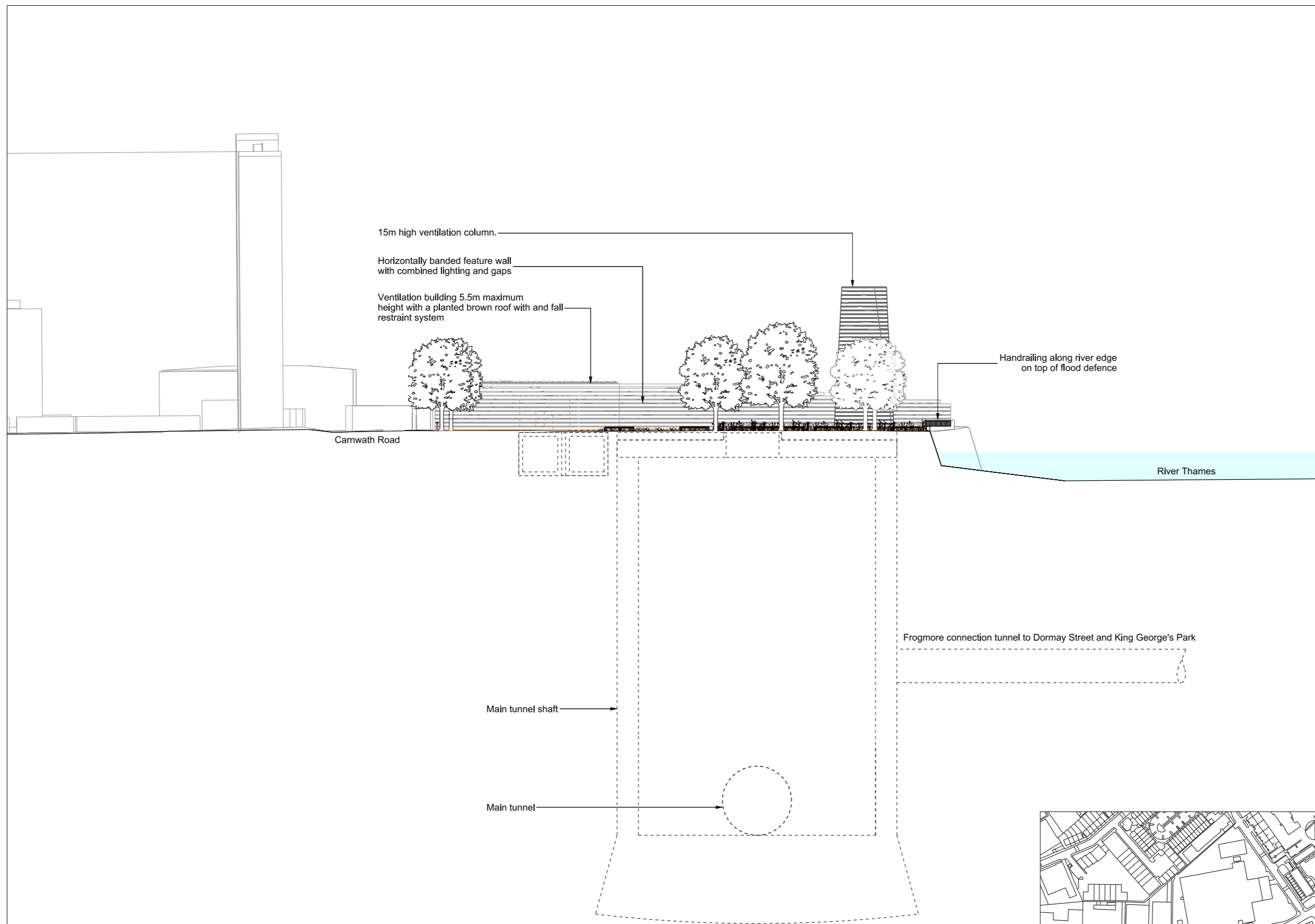
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**Notes:**

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**  
Carnwath Road Riverside  
London Borough of Wandsworth

**Document Information**  
Application for Development Consent  
Section AA

Book of plans - section 9  
DCO-PP-06X-CARRR-090009  
January 2013



Section AA

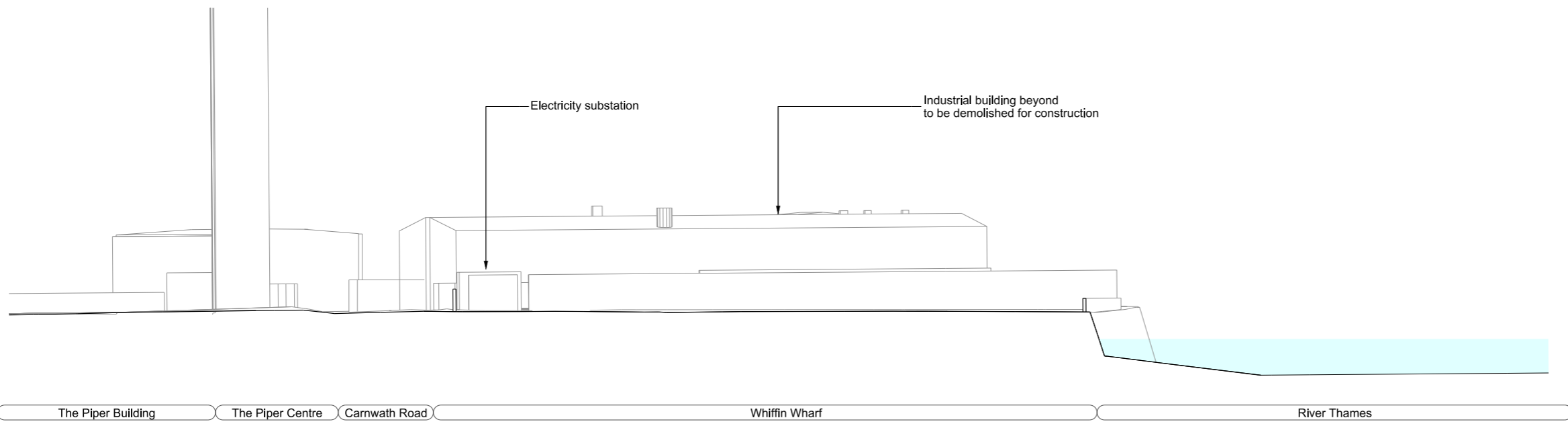
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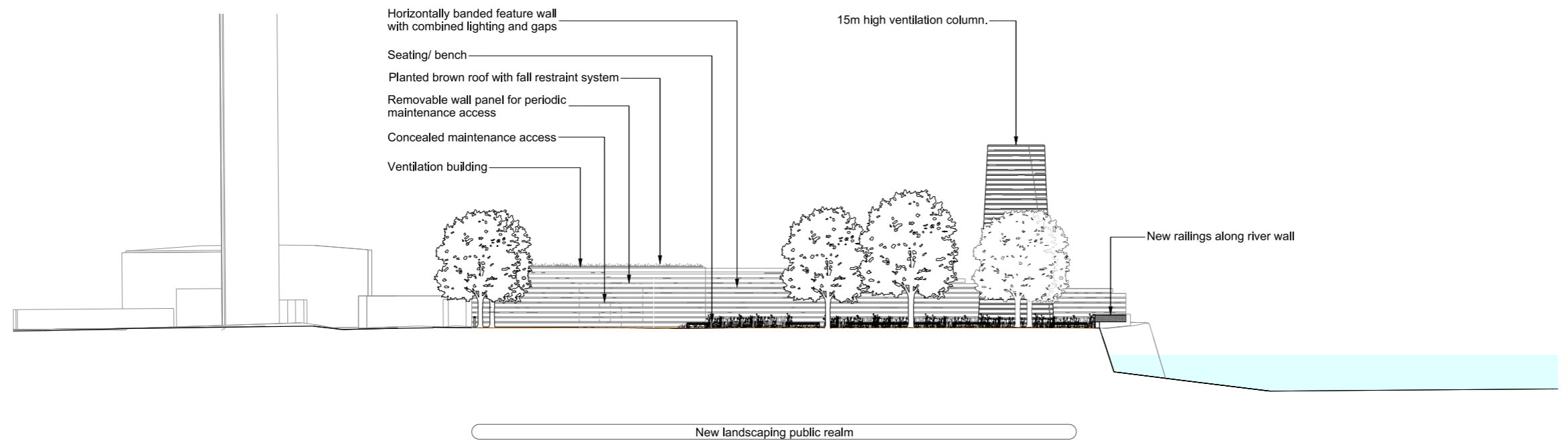
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**Notes:**

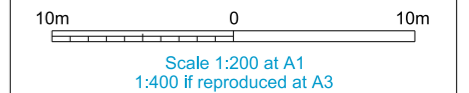
1. All dimensions and levels are approximate.



As existing West elevation



Proposed West elevation



**ILLUSTRATIVE**

**Location**  
Carnwath Road Riverside  
London Borough of Wandsworth

**Document Information**  
Application for Development Consent

As existing and proposed  
West elevation  
Book of plans - section 9  
DCO-PP-06X-CARRR-090010  
January 2013



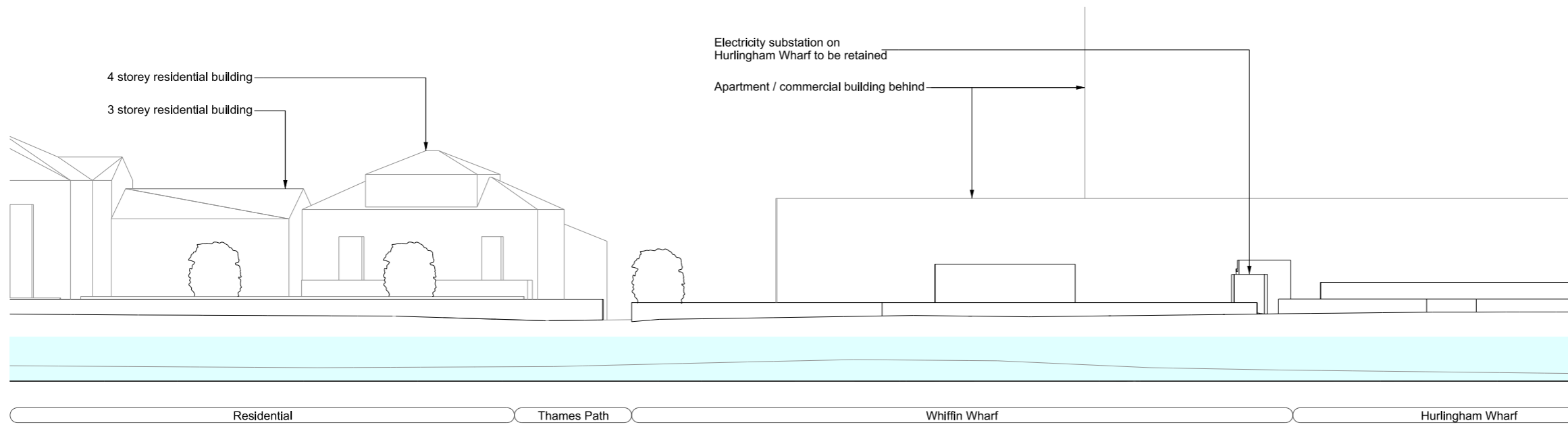
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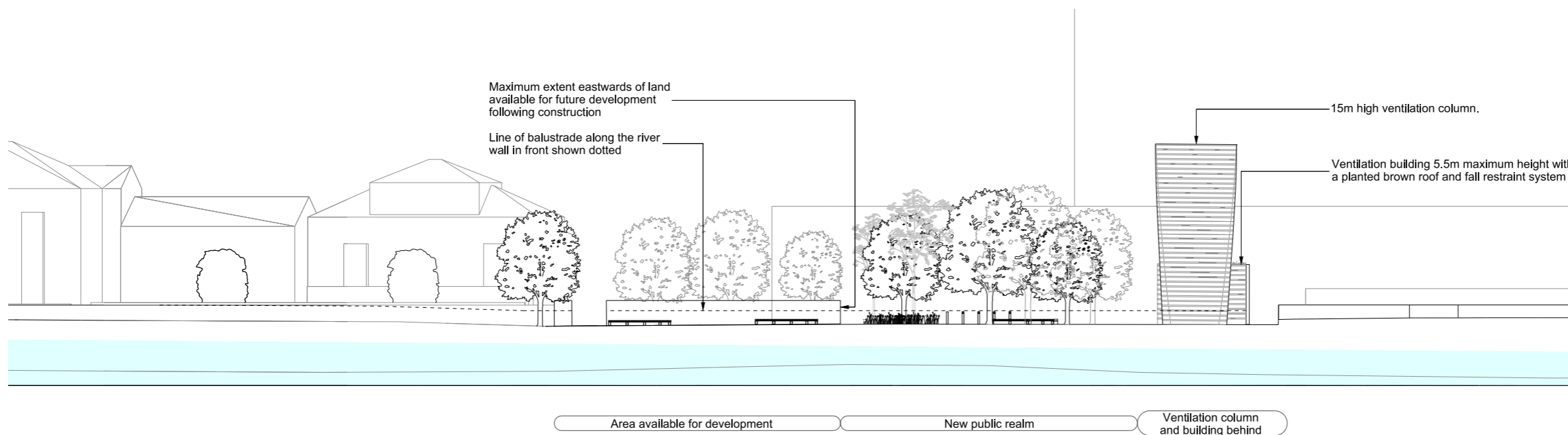
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

**Notes:**

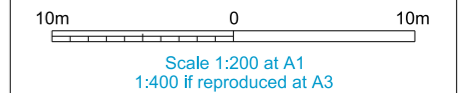
1. All dimensions and levels are approximate.



As existing South elevation



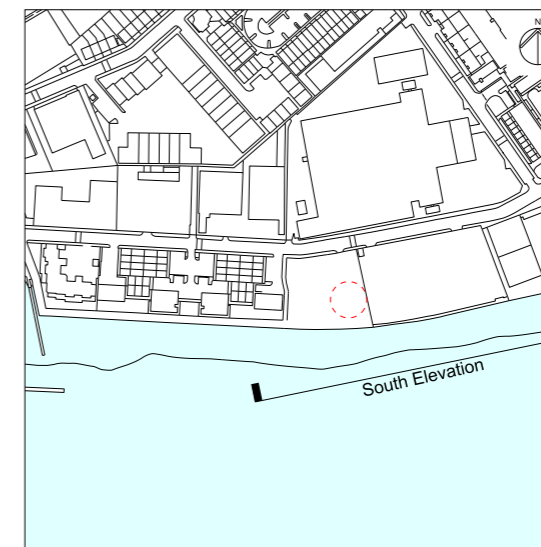
Proposed South elevation



**ILLUSTRATIVE**

**Location**  
Carnwath Road Riverside  
London Borough of Wandsworth

**Document Information**  
**Application for Development Consent**  
As existing and proposed  
South elevation  
Book of plans - section 9  
DCO-PP-06X-CARRR-090011  
January 2013

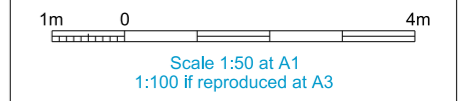
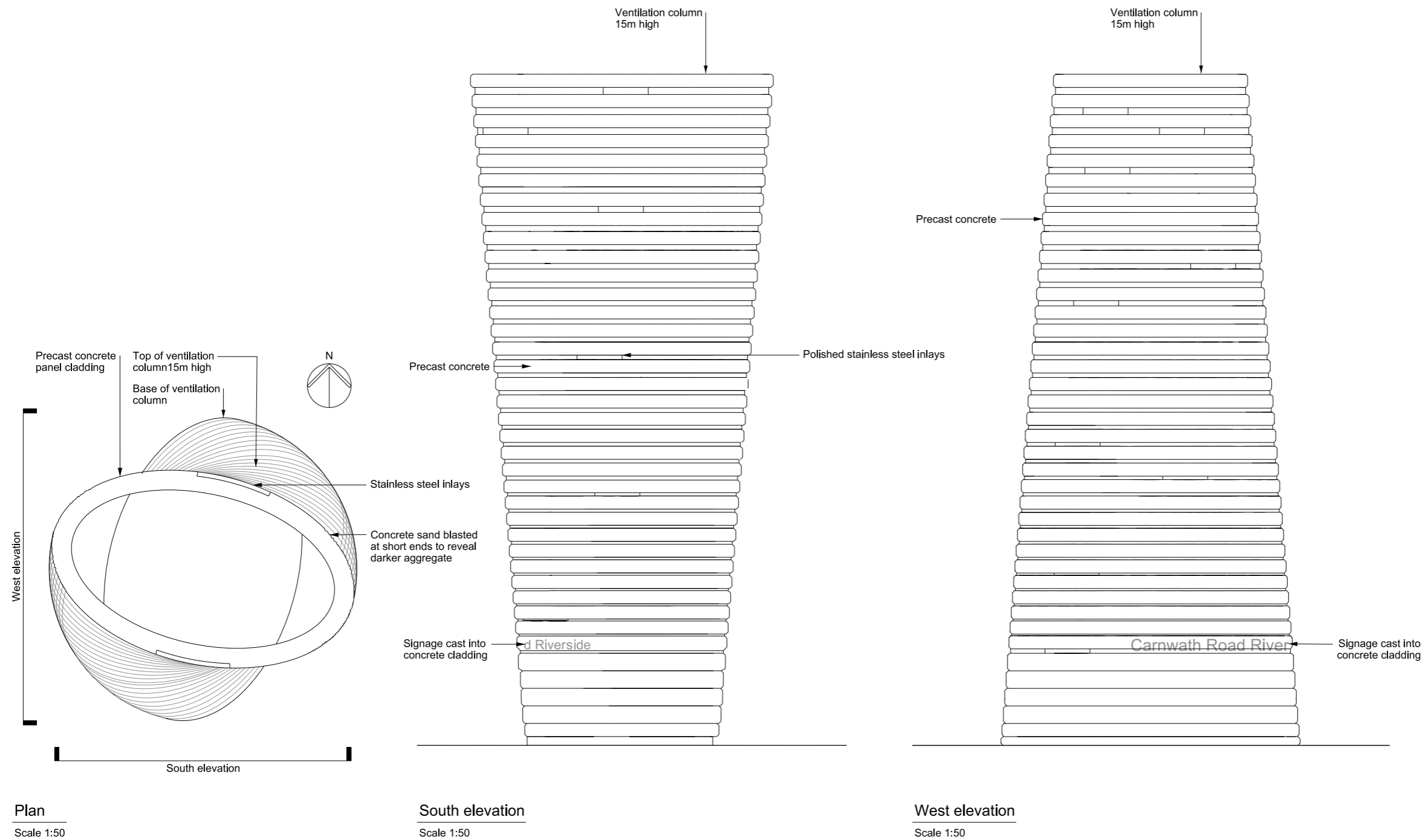


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:  
1. All dimensions and levels are approximate.



**INDICATIVE**

**Location**  
Carnwath Road Riverside  
London Borough of Wandsworth

**Document Information**  
Application for Development Consent  
Ventilation column design intent

Book of plans - section 9  
DCO-PP-06X-CARRR-090012  
January 2013

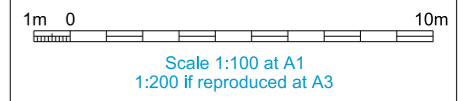
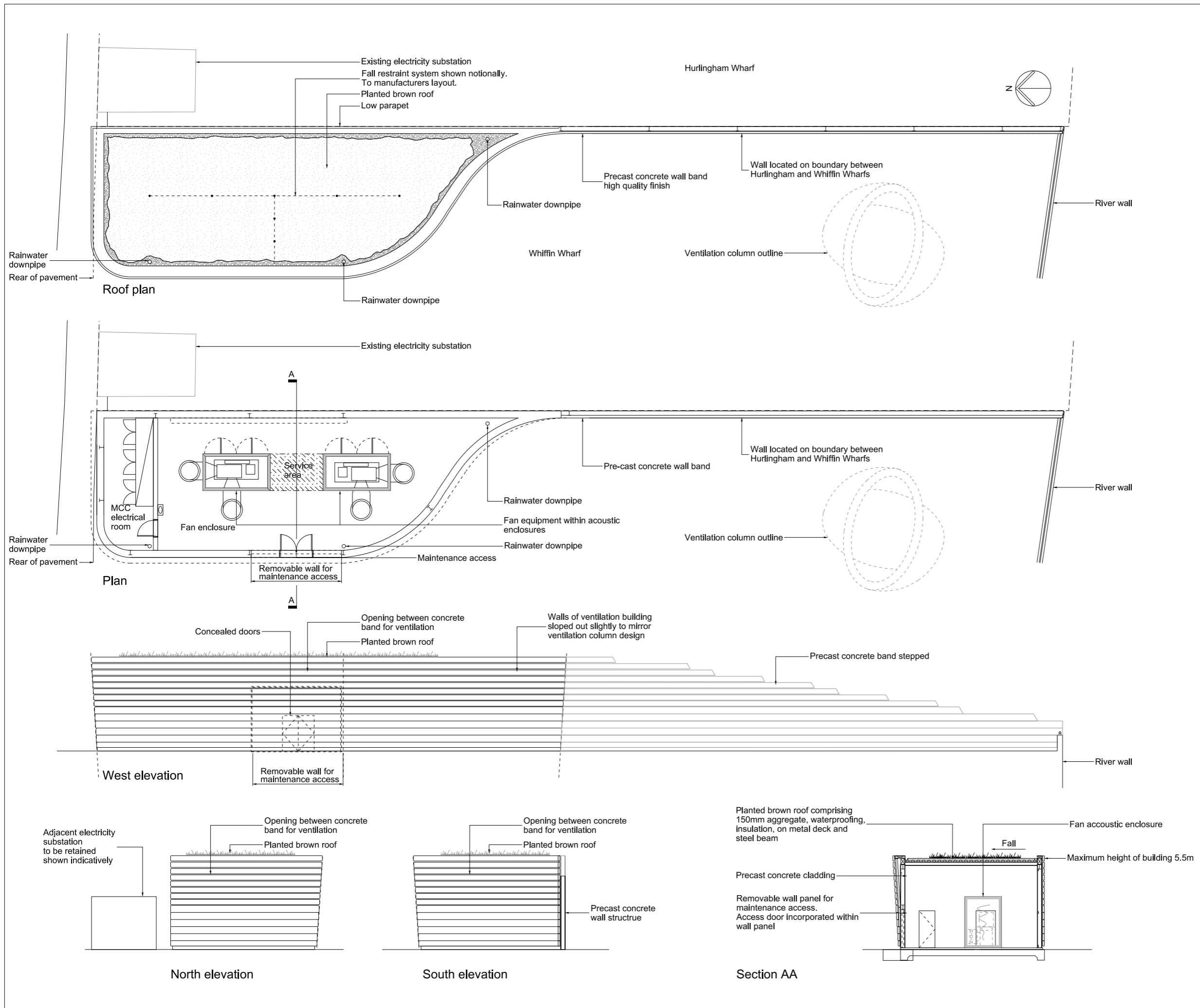




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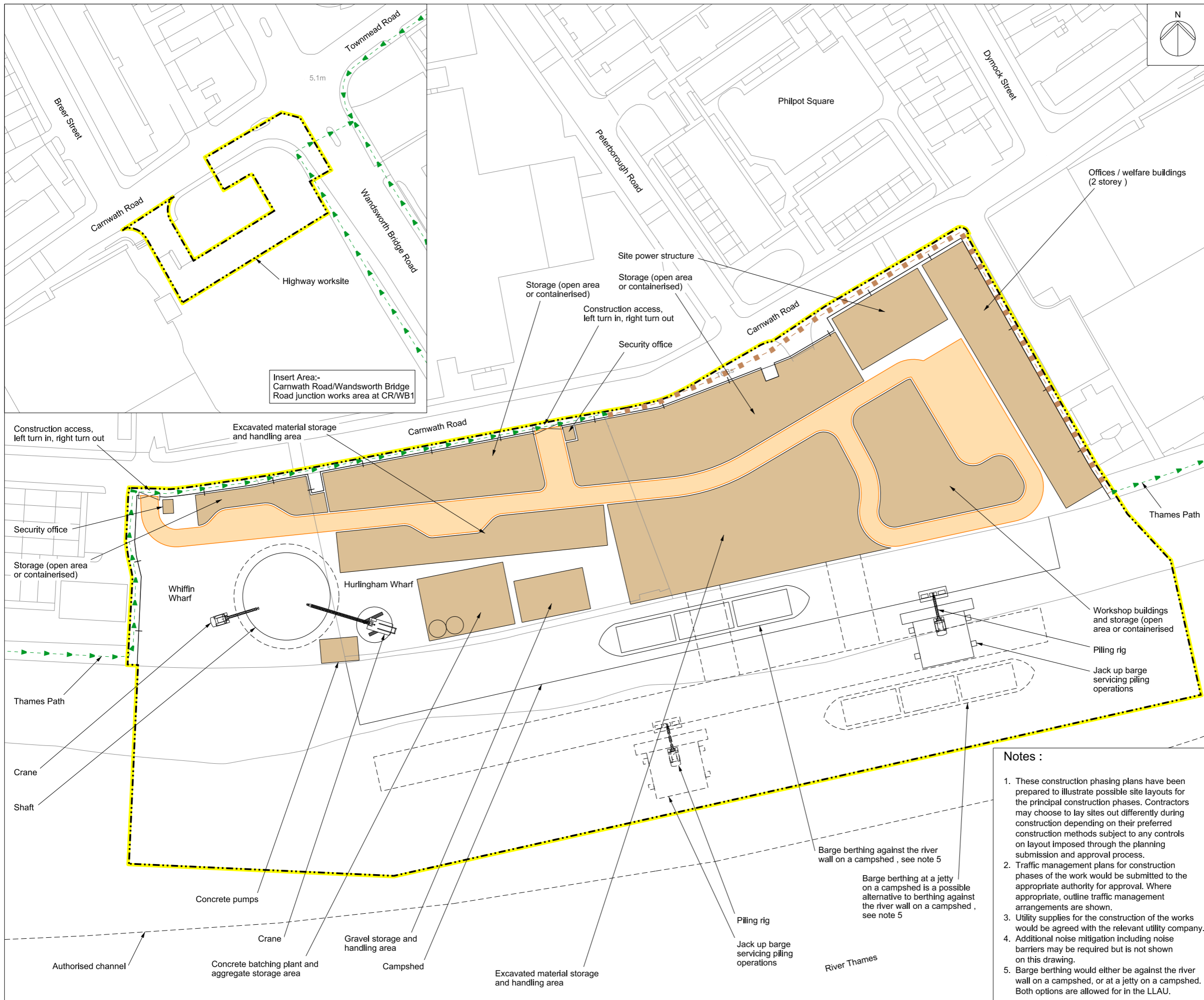
**INDICATIVE**

**Location**  
 Carnwath Road Riverside  
 London Borough of Wandsworth

**Document Information**  
 Application for Development Consent  
 Ventilation building design intent

Book of plans - section 9  
 DCO-PP-06X-CARRR-090013  
 January 2013





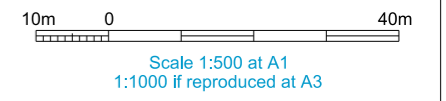
Insert Area:-  
Carnwath Road/Wandsworth Bridge  
Road junction works area at CR/WB1

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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)
  - Hoarding
  - Maximum extent of working area
  - Existing public right of way
  - Route of temporary diversion of right of way
  - Site access
  - Access / haul route



## ILLUSTRATIVE

**Location**  
Carnwath Road Riverside  
London Borough of Hammersmith & Fulham

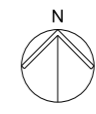
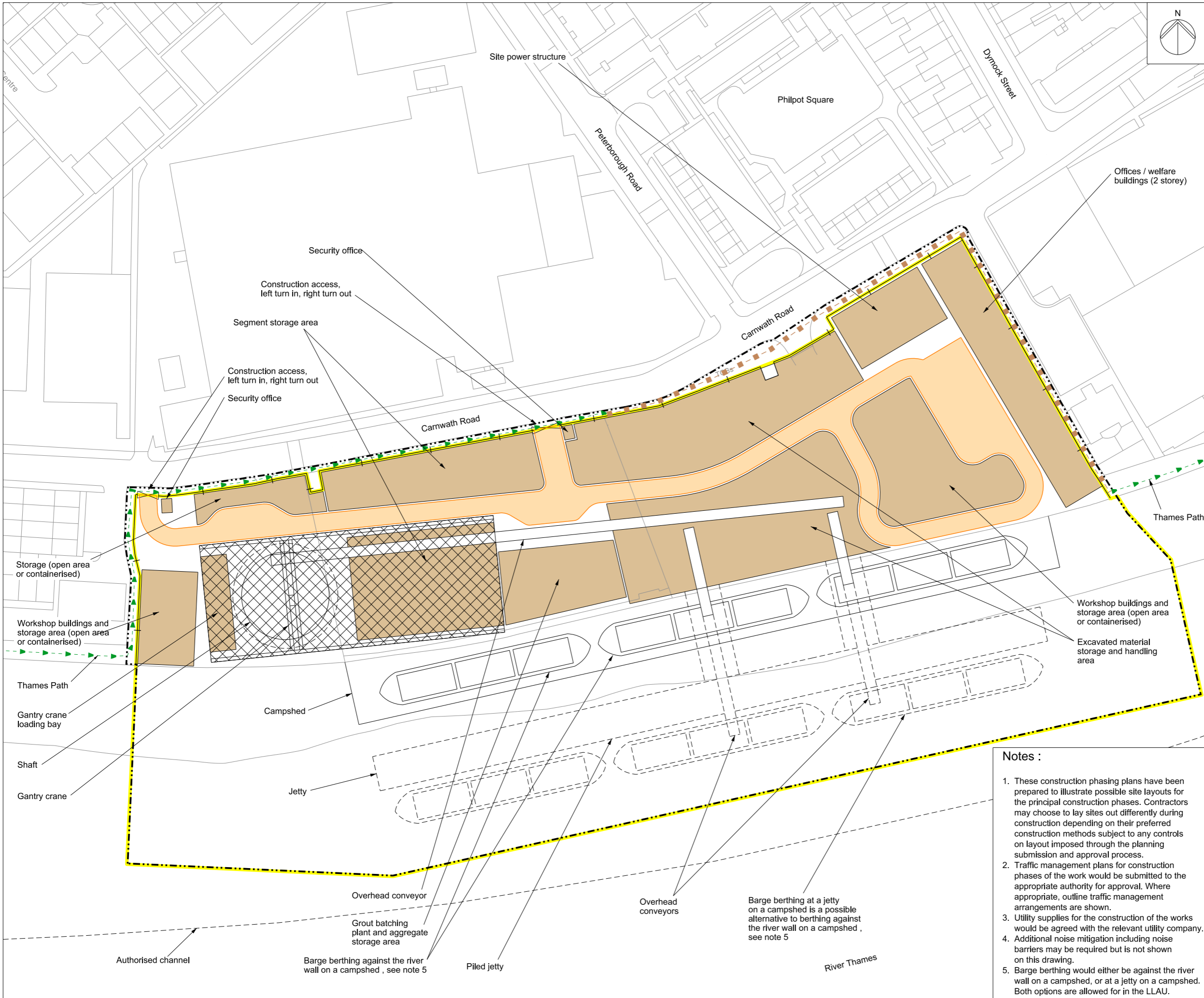
**Document Information**  
**Application for Development Consent**  
Construction phases - phase 1  
Site setup & shaft construction  
Book of plans - section 9  
DCO-PP-06X-CARRR-090014  
January 2013



- 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. Barge berthing would either be against the river wall on a campshed, or at a jetty on a campshed. Both options are allowed for in the LLAU.

Barge berthing against the river wall on a campshed, see note 5

Barge berthing at a jetty on a campshed is a possible alternative to berthing against the river wall on a campshed, see note 5

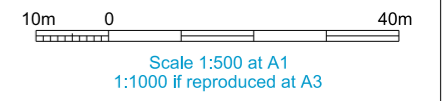


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
  - Hoarding
  - Maximum extent of working area
  - Existing public right of way
  - Route of temporary diversion of right of way
  - Site access
  - Access / haul route
  - Noise enclosure over shaft and gantry crane



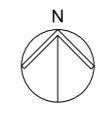
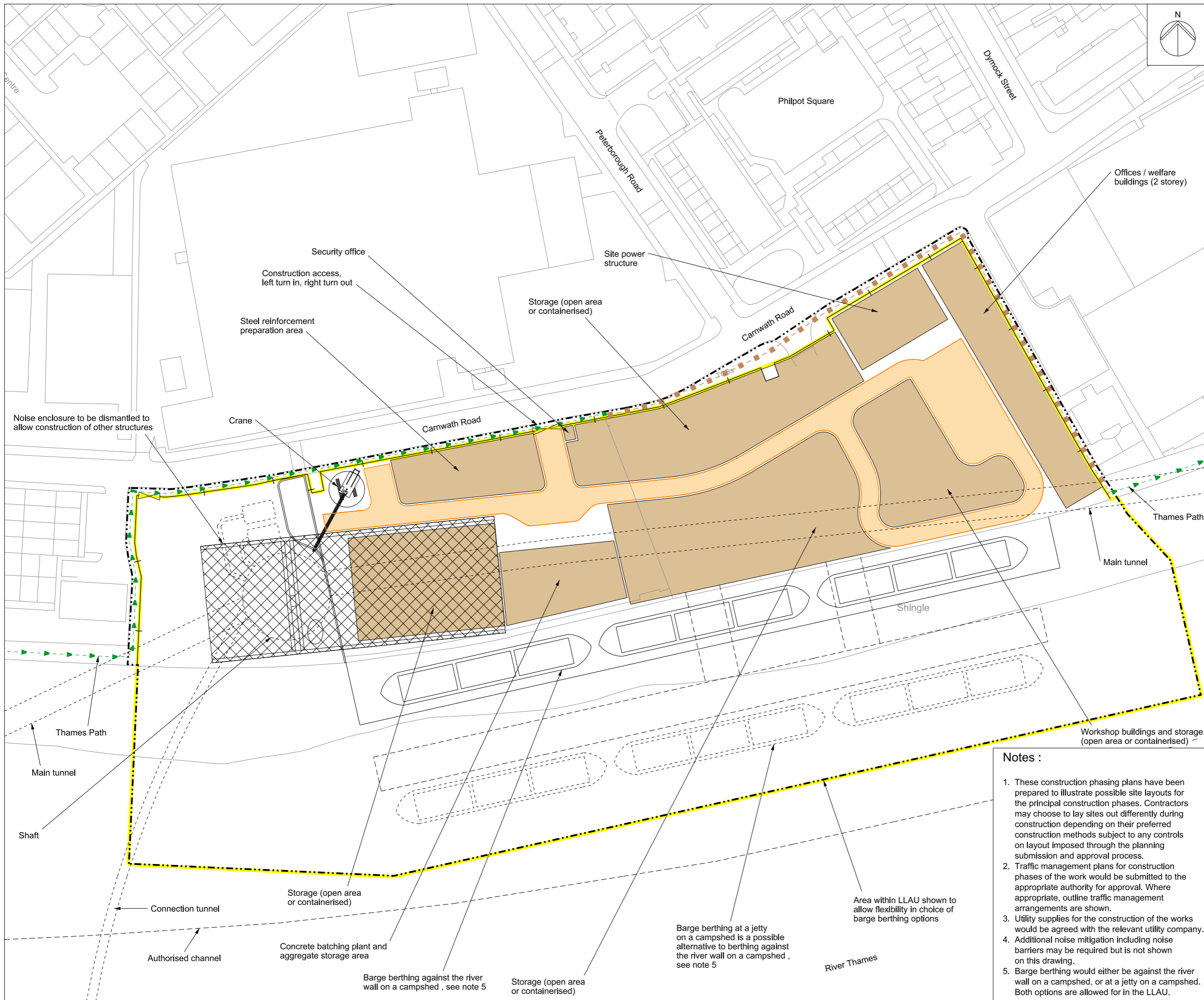
## ILLUSTRATIVE

**Location**  
**Carnwath Road Riverside**  
 London Borough of Hammersmith & Fulham

**Document Information**  
**Application for Development Consent**  
 Construction phases - phase 2  
 Tunnelling  
 Book of plans - section 9  
 DCO-PP-06X-CARRR-090015  
 January 2013



- 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. Barge berthing would either be against the river wall on a campshed, or at a jetty on a campshed. Both options are allowed for in the LLAU.



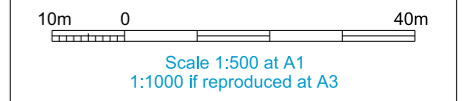
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:

	Limits of land to be acquired or used (LLAU)
	Hoarding
	Maximum extent of working area
	Existing public right of way
	Route of temporary diversion of right of way
	Site access
	Access / haul route
	Noise enclosure over shaft and gantry crane



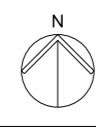
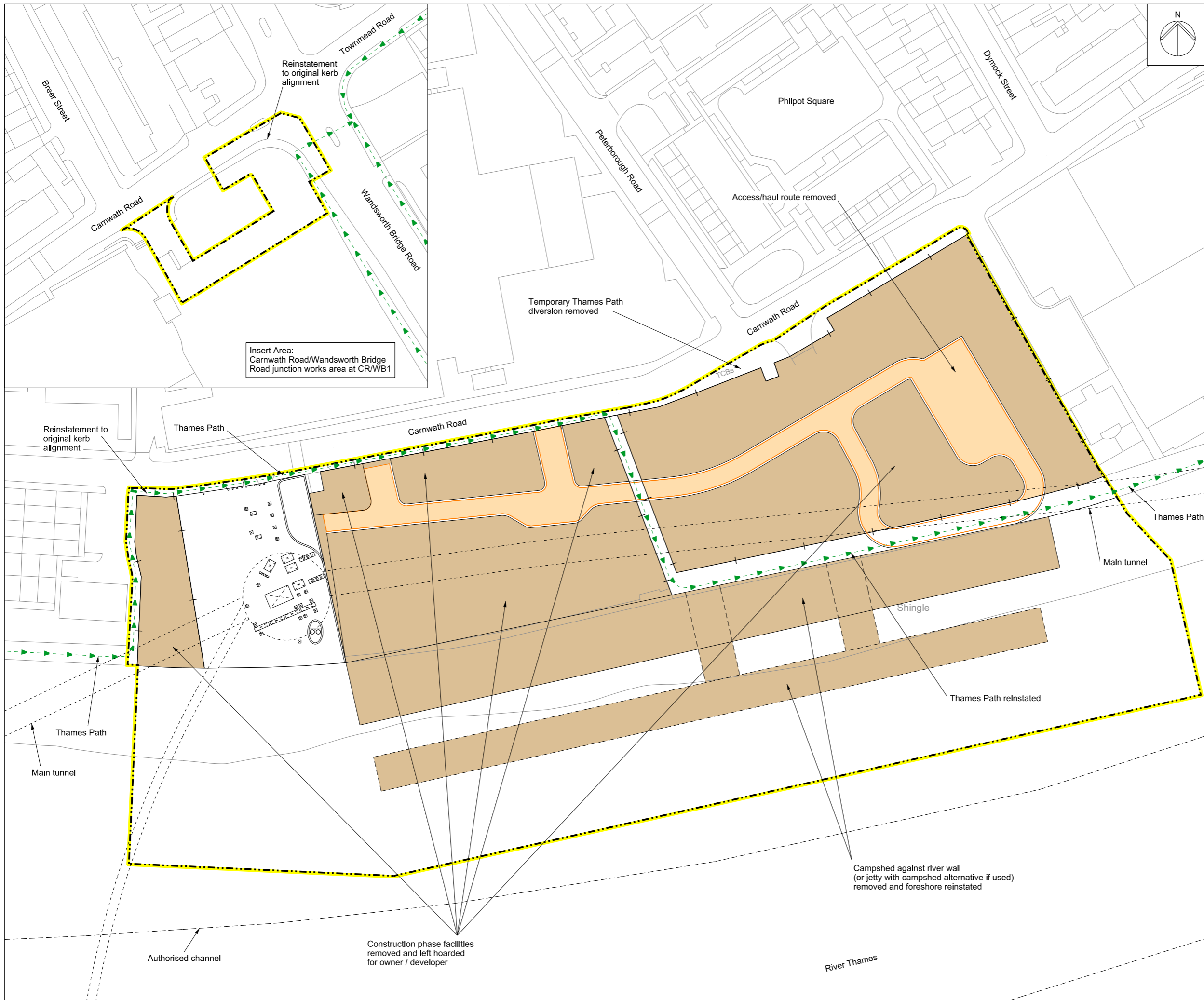
## ILLUSTRATIVE

**Location**  
Carnwath Road Riverside  
London Borough of Hammersmith & Fulham

**Document Information**  
Application for Development Consent  
Construction phases - phase 3  
Secondary lining & other structures  
Book of plans - section 9  
DCO-PP-06X-CARRR-090016  
January 2013



- 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. Barge berthing would either be against the river wall on a campshed, or at a jetty on a campshed. Both options are allowed for in the LLAU.

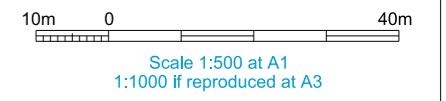


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

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

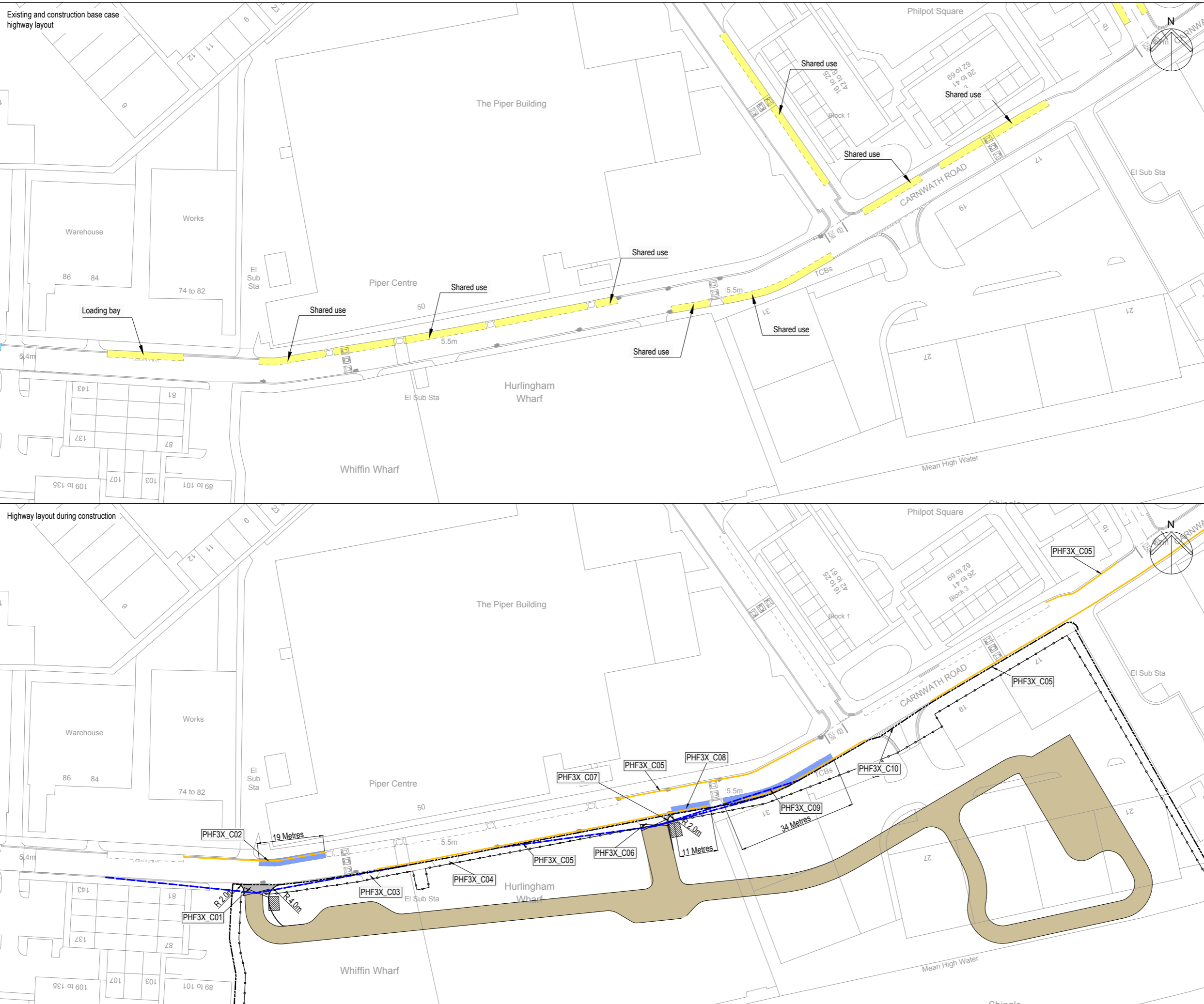


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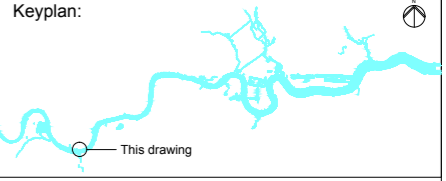
**Location**  
**Carnwath Road Riverside**  
 London Borough of Hammersmith & Fulham

**Document Information**  
**Application for Development Consent**  
 Construction phases - phase 4  
 Site demobilisation  
 Book of plans - section 9  
 DCO-PP-06X-CARRR-090017  
 January 2013





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**Key**

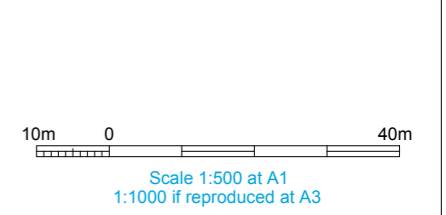
<b>Existing</b>	—	Parking restrictions
	—	On street parking
<b>Revised</b>	—	Parking restrictions
	—	Removal of footway
	—	Suspended on street parking
	—	Illustrative on-site manoeuvring zone
	—	Site hut
	—	Site hoarding
	—	Access gate
	—	Visibility splay - 2.4m x 43m (SSD adjust for bonnet length)
	—	Limit of land to be acquired or used (LLAU)
	—	See schedule of works

**On Street Parking**

Shared use - Q permit holders or pay & display max stay 8hrs  
 Mon - Sat 9:00am - 5:00pm  
 Loading bay - Goods vehicles loading only 20 mins no return within 1 hour

- 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, Cmt, 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**  
Phase 1 - 2



ILLUSTRATIVE

**Location**  
Carnwath Road Riverside  
London Borough of Hammersmith & Fulham

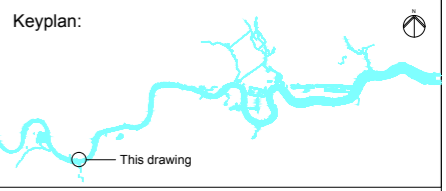
**Document Information**  
Application for Development Consent  
Highway layout during construction  
Area 1 work

DCO-PP-06X-CARRR-090021  
January 2013





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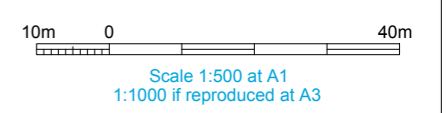
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key	
<b>Existing</b>	
	Parking restrictions
	On street parking
	Bus stop / stand
	Pedestrian crossing
	Cycle lane / advance stop line
<b>Revised</b>	
	Parking restrictions
	Removal of footway
	Extension of footway
	Tactile paving
	Limit of land to be acquired or used (LLAU)
	PWH1X_C00 See schedule of works

**On Street Parking**  
 Shared use - Q permit holders or pay & display max stay 8hrs  
 Mon - Sat 9:00am - 5:00pm

- 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, Cilt, 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**  
 Phase 1 - 2



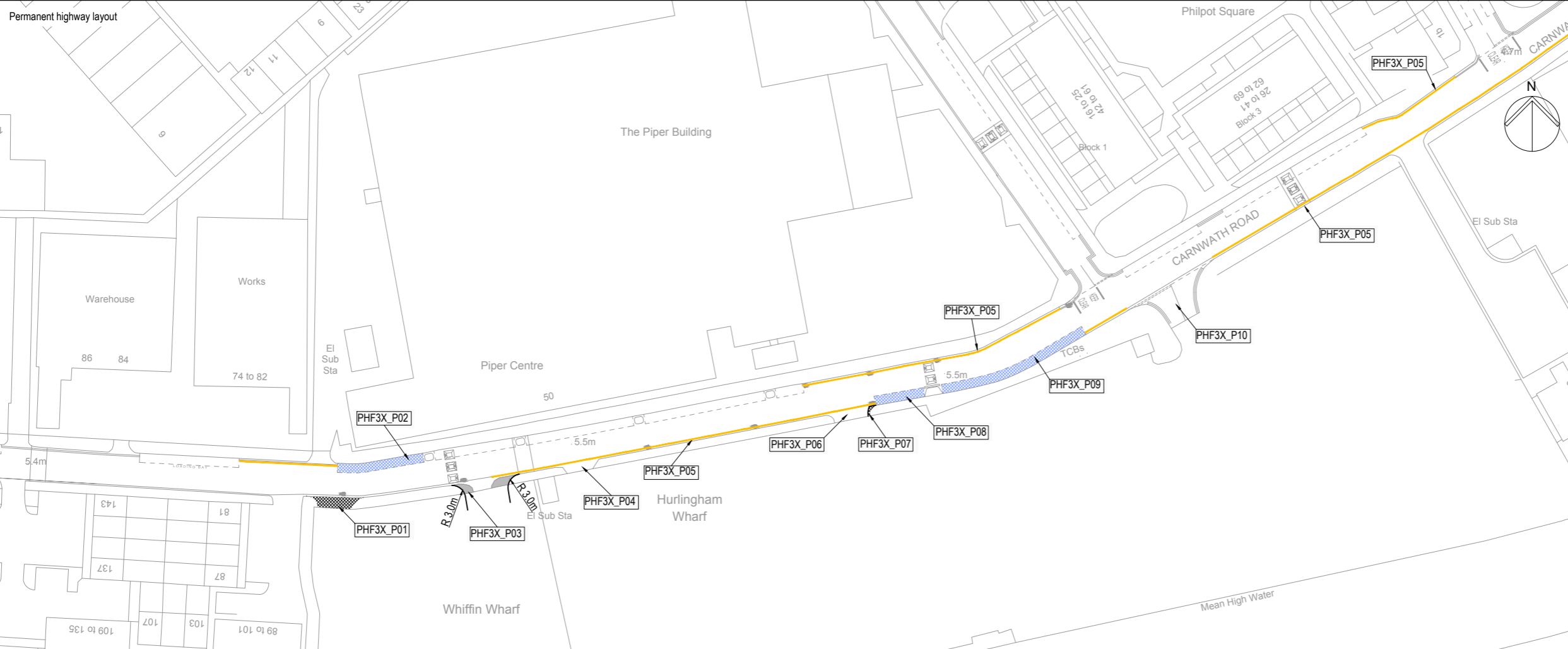
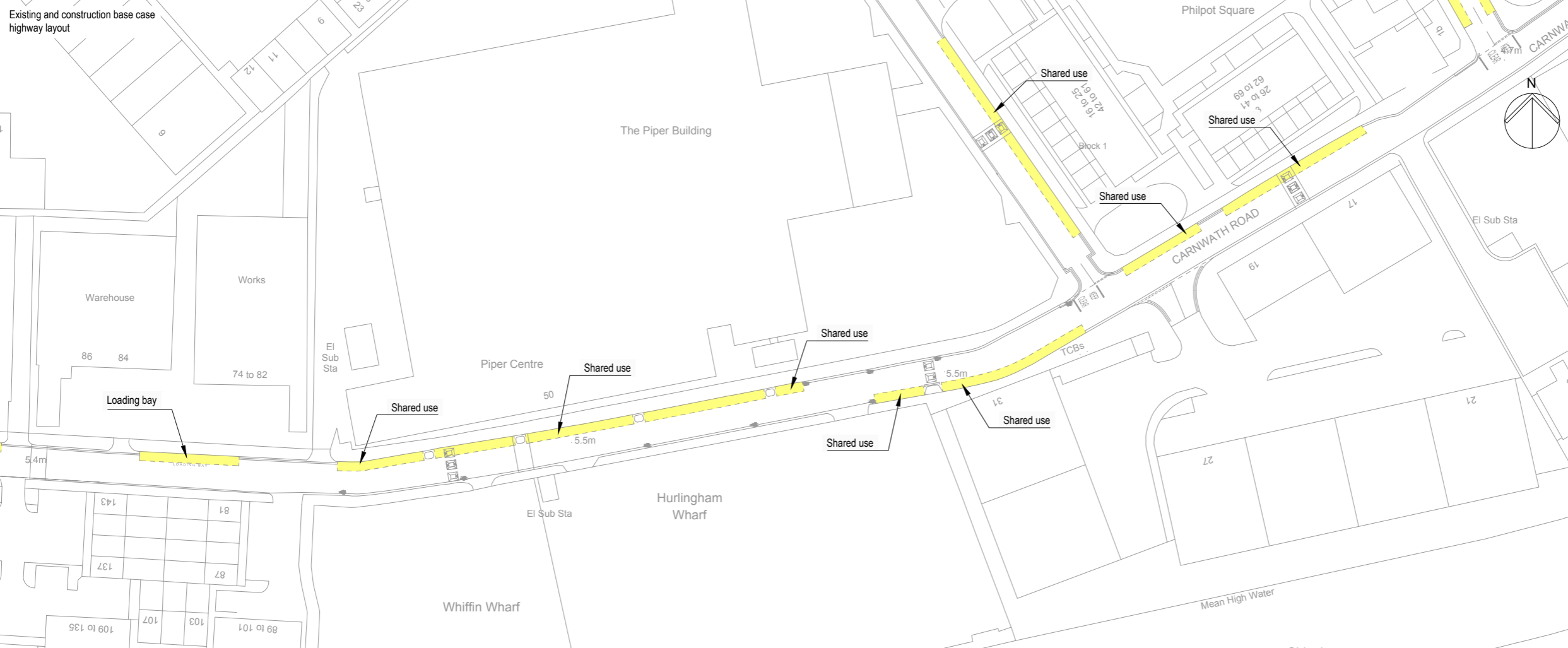
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**Location**  
 Carnwath Road Riverside  
 London Borough of Hammersmith & Fulham

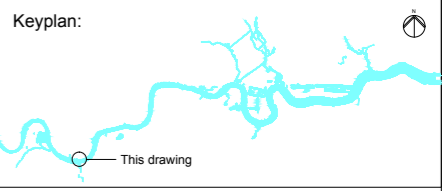
**Document Information**  
 Application for Development Consent  
 Highway layout during construction  
 Area 2 work

DCO-PP-06X-CARRR-090022  
 January 2013





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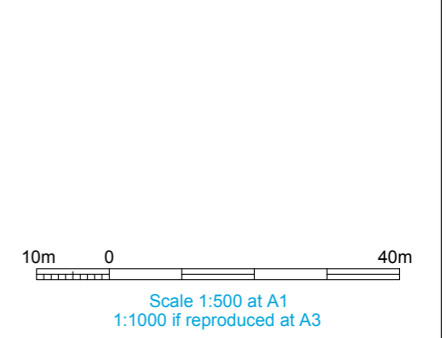
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Key	
Existing	
	Parking restrictions
	On street parking
Revised	
	Parking restrictions
	Removal of footway
	Reinstated footway
	Reinstated on street parking
	See schedule of works

**On Street Parking**  
 Shared use - Q permit holders or pay & display max stay 8hrs  
 Mon - Sat 9:00am - 5:00pm  
 Loading bay - Goods vehicles loading only 20 mins no return within 1 hour

- 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, Cilt, 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**  
 Permanent Phase



**ILLUSTRATIVE**

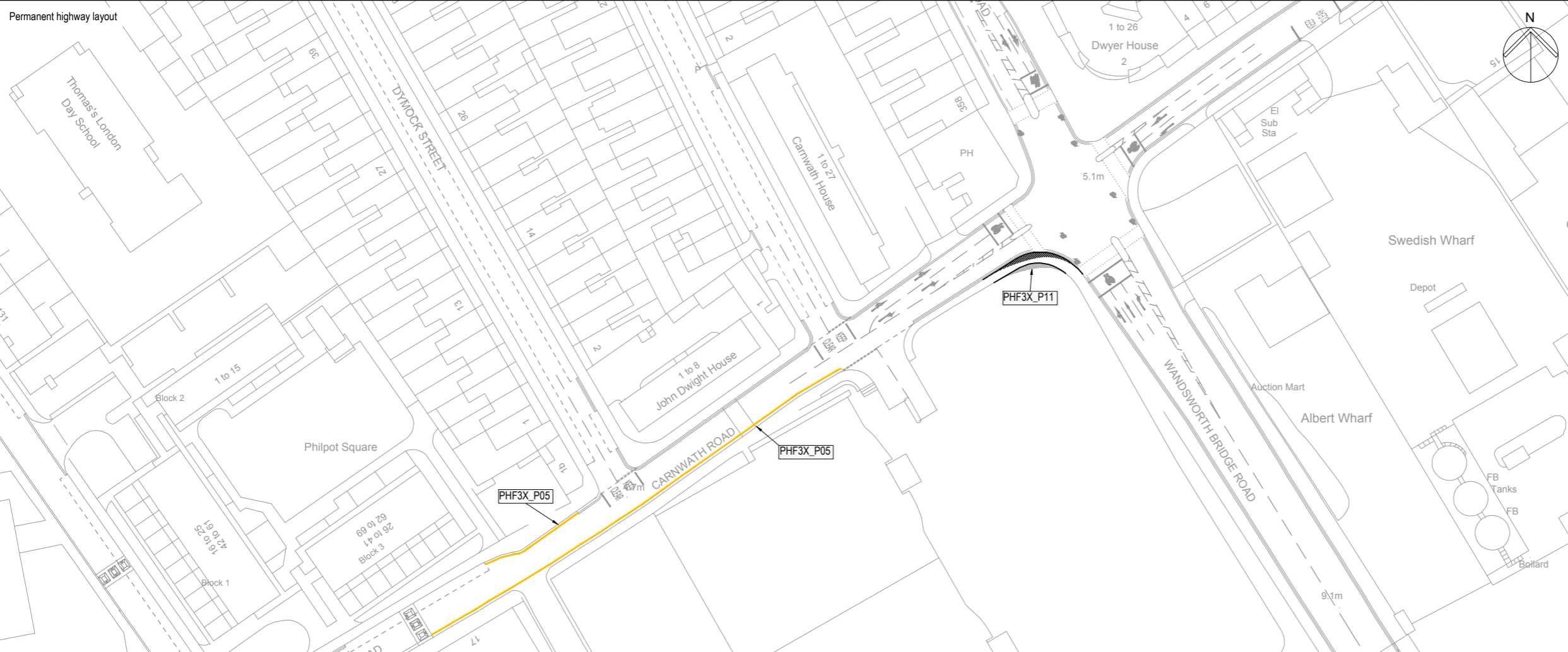
**Location**  
 Carnwath Road Riverside  
 London Borough of Hammersmith & Fulham

**Document Information**  
 Application for Development Consent  
 Permanent highway layout  
 Area 1 work

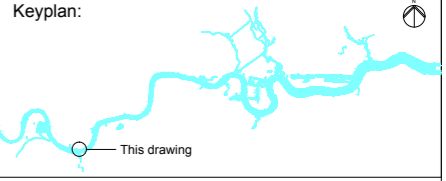
DCO-PP-06X-CARRR-090023  
 January 2013







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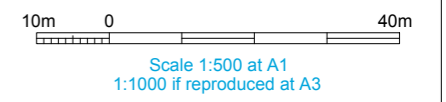
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key	
<b>Existing</b>	
	Parking restrictions
	On street parking
	Bus stop / stand
	Pedestrian crossing
	Cycle lane / advance stop line
<b>Revised</b>	
	Parking restrictions
	Removal of footway
	Reinstated footway
	See schedule of works

**On Street Parking**  
Shared use - Q permit holders or pay & display max stay 8hrs  
Mon - Sat 9:00am - 5:00pm

- 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, Cilt, 2010
  - Designing For Deliveries, Fla, 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**  
Permanent phase



**ILLUSTRATIVE**

**Location**  
Carnwath Road Riverside  
London Borough of Hammersmith & Fulham

**Document Information**  
Application for Development Consent  
Permanent highway layout  
Area 2 work

DCO-PP-06X-CARRR-090024  
January 2013



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### **Thames Water Utilities Limited**

Clearwater Court, Vastern Road, Reading RG1 8DB

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