



Application for Development Consent

Application Reference Number: WWO10001

Examining Authority's Second Written Round of Questions and Requests for Information Response from Thames Water

**Code of Construction Practice Part B: Site Specific Requirements
- Putney Embankment Foreshore (Compare against 23 September 2013)**

Doc Ref: **APP72.5**





Code of Construction Practice Part B: Site-specific requirements

Putney Embankment Foreshore

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Thames Tideway Tunnel

Code of Construction Practice Part B

Putney Embankment Foreshore

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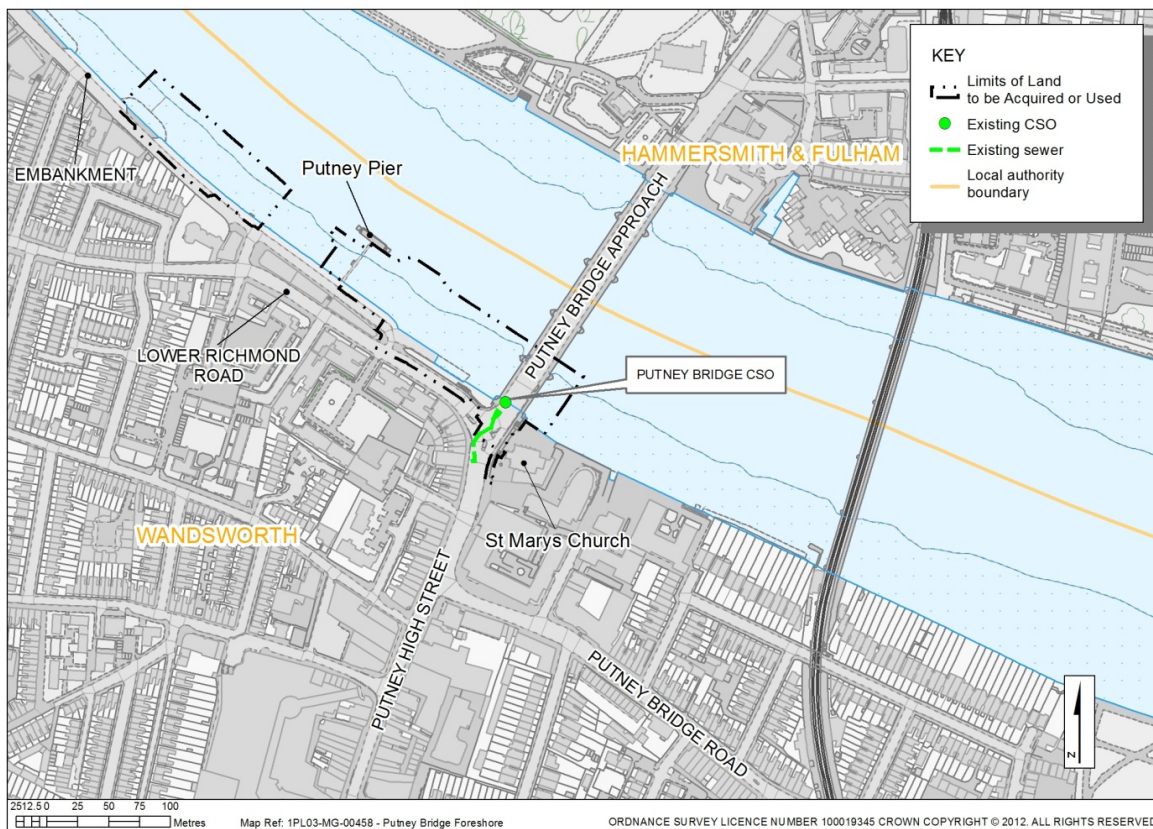
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1 Putney Embankment Foreshore

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Incidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
 - a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Putney Embankment Foreshore site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Wandsworth and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Putney Embankment Foreshore: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.0.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.0.1 As per text in CoCP Part A.

4 Site operation	
Topic	Site-specific requirement
Working hours	<p>This site willshall adhere to the following working hours:</p> <ul style="list-style-type: none"> a. standard b. continuous (for the Putney Bridge connection tunnel construction). <p>When other types of working hours (<i>CoCP</i> Part A, Table 4.1) are required, these willshall be subject to agreement with the local authority through the Section 61 process.</p> <p><u>No Sunday working, to include maintenance of plant and / or equipment, shall be conducted either upon Putney Bridge, within the vaults beneath the bridge or on land located to the east of the bridge adjacent to St Mary's Church, before 11.30am.</u></p>
Site layout	<p>The existing public slipway/drawdock to be maintained until the temporary slipway is operational. The temporary slipway willshall be maintained until reinstatement of the public slipway/drawdock.</p> <p>The slipway construction is to be of steel modular elements or similar.</p> <p>Emergency egress points for vaults located beneath Lower Richmond Road, egress across Waterman's Green to be maintained during the majority of the construction period, and their use willshall remain unaffected should existing planning permission into cafes or restaurants be implemented.</p> <p>Access across Waterman's Green willshall be restricted during the later stages of construction. During this period, pedestrian access to the eastern end of the Green willshall be available by utilising the existing stairway located adjacent to the disused public convenience.</p>
Site security / hoarding requirements	<p>Timber hoarding willshall be used on Waterman's Green to limit the worksite to the western part and provide protection from construction for users of Waterman's Green.</p> <p>The hoarding is to be as defined in <i>CoCP</i> Part A paras. 4.3.4(a) and (b) and be incorporating suitable art work and viewing windows. If cafe businesses</p>

Topic	Site-specific requirement
	occupy Waterman's Green during construction period, Thames Tideway Tunnel willshall need to work with cafe owner(s) to develop suitable hoarding. Transparent hoarding may be considered for use, if agreed with the relevant stakeholders.
River works	As per text in CoCP Part A.
Other items	<p>Ensure integrity of retaining wall to Waterman's Green and other flood defence walls are maintained during works.</p> <p>The on-site lighting will be designed in liaison with local businesses adjacent to the work site to limit adverse impacts. Lighting will be directed away from sensitive receptors and light spill will be minimised, for example through the use of directional, capped and cowled lighting.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The site willshall be accessed from Putney High street (A219) via Putney Bridge Road, traffic willshall then turn left onto lower Richmond road and right into the site from the embankment.</p> <p>During the construction of temporary slipway construction traffic willshall access the site by turning right from Lower Richmond Road into Glendarvon Street and turning right into Embankment. Construction vehicles willshall then stop at a designated location on Embankment adjacent to the site to load/unload. When leaving the site construction vehicles willshall route east along Embankment and right turn into Thames Place then left turn into Lower Richmond Road.</p>
Traffic management	<p><u>Main site:</u></p> <p>It is proposed to change the operation of Embankment between the new site access and the junction with Lower Richmond Road to two-way for construction vehicles only, during the main site works. A minimum carriageway width of 3.25m willshall be retained in each direction.</p> <p>Two-way flow on Embankment at temporary slip way construction to be maintained for general traffic using a priority traffic management system as required.</p>

Topic	Site-specific requirement
	<p>Construction vehicles associated with the main construction site will/shall not use Glendarvon Street.</p> <p>Small section of on-street parking to be suspended on the eastern end of Embankment where Embankment will/shall operate as two-way for construction vehicles.</p> <p><u>Temporary slipway site:</u></p> <p>Construction vehicles associated with either the construction or subsequent dismantling of the temporary slipway will/shall only access via Glendarvon Street between the hours of 10.00 and 15.00 hrs Monday to Friday. Construction vehicles will/shall not be permitted to use Glendarvon Street outside this period.</p> <p>Suspension of the majority of on-street parking on Embankment between Thames Place and Glendarvon Street during construction of temporary slipway and subsequent removal.</p> <p>Suspension of a small section of parking on the southern end of Glendarvon Street to facilitate the passing of vehicles during construction of the slipway and subsequent removal.</p> <p>Parking bays located at the southern end of Glendarvon Street to facilitate construction vehicle movements will/shall be replaced (subject to agreement with the London Borough of Wandsworth) with parking restrictions, such that local residents may park outside of these hours, when the parking restrictions are inactive. A traffic marshal will/shall be in place if large vehicles are required to reverse out of the site onto Embankment.</p> <p>Traffic management plan to address potential conflict between construction vehicles and other large vehicles such as vehicles transporting boats at Glendarvon Street junction with Embankment by measures such as timed deliveries, traffic marshals or priority signage.</p> <p>Construction vehicle drivers to be advised in advance of the restricted road width along Glendarvon Street and to look out for potential conflicts with oncoming vehicles.</p> <p>The cycle stands on Embankment will/shall be relocated approximately 20m to the west.</p>

Topic	Site-specific requirement
Event restrictions	<p>Further event restrictions may be required following discussions with key stakeholders. Identified river race events, including the University Boat Race willshall not be restricted by the works. The construction site willshall not be removed but construction willshall be temporarily suspended. Any barges associated with the works willshall be removed for any identified key events.</p> <p>For the University Boat Race the contractor willshall be required to have arrangements in place for additional security and other measures within the site security plan, to ensure the site is contained and to prevent public climbing hoardings or entering the site.</p>
River transport	<p>River transport and working is restricted to Monday to Friday.</p> <p>Access to the Putney Pier willshall be maintained for the duration of the construction works. The contractor willshall liaise with Transport for London (London River Services), and the pier owners.</p> <p><u>Deliveries of plant, equipment, welfare facilities and ready mix concrete for the temporary slipway only will be via Glendarvon Street and other deliveries will be by river to the temporary slipway site only, where practicable, unless tidal restrictions prevent the timely implementation of the construction and/or demolition of that slipway.</u></p>
Other	<p>A removable chain willshall be installed across the temporary slipway to prevent unauthorised parking whilst maintaining access for launching vessels.</p> <p>The contractor shall produce and implement a plan, in consultation with St Mary’s Church, to ensure safe passage of persons to the Church and Busy Bee by the Bridge Nursery School. The plan shall include measures to ensure no conflict occurs between the movement of staff, materials and associated tools/machinery relating to works in the vaults on the eastern side of Putney Bridge and those accessing the Church and Busy Bee by the Bridge Nursery School.</p> <p>Where appropriate signage and warning systems willshall be installed to direct rowers and other river users around structures within the foreshore.</p>

6 Noise and vibration	
Topic	Site-specific requirement
Control measures	<p>See hoarding requirement above.</p> <p>The loading and unloading of barges willshall only be carried out during standard working hours.</p> <p>During connection tunnel works outside of standard working hours the use of surface cranes willshall be minimised. This willshall involve the stockpiling of materials/ equipment at the bottom of the shaft for use during the evening and night for removal during standard working hours. In addition the work willshall utilise measures to reduce noise including the use of electric gantry cranes, gas/electric fork lift and measures to reduce noise from skip movements and unloading.</p> <p>2.4m high noise screen to be located on the western edge of the cofferdam sections perpendicular to the river wall.</p> <p><u>Low noise and vibration piling methods will be used unless determined to be impossible. The first 'anchor' piles will need to be installed using a vibratory driver. These anchor piles will be installed at a location away from the closest sensitive receptors including Nine Elms Pier houseboats</u></p>
Other	As per text in <i>CoCP</i> Part A.

6.1

7 Air quality	
Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources	
Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality	
Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use	
Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Energy usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)	
Topic	Site-specific requirement

Topic	Site-specific requirement
Protection of habitats	<p>Membrane to be installed between the river bed and temporary back fill material to prevent contamination of juvenile fish habitat.</p> <p>Areas of foreshore used for temporary works willshall be restored to similar condition and material prior to the works.</p>
Protection of trees	<p>Root survey required to ascertain location of tree routes in relation to slipway, highways and footpaths</p> <p>Protect roots of large London Plane trees from damage during installation of cable ducts.</p> <p>Suitable protection to be laid on existing cobbled slipway to provide root protection to London Plane tree, located upon Waterman’s Green.</p> <p>Tree pruning for trees located along the Embankment and on Waterman’s Green to be agreed with the local authority.</p>
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	<p>The attachment of the cofferdam against the Listed southern abutment of Putney Bridge willshall avoid cutting into the stonework facings of the abutment, unless agreed otherwise through a separate consent.</p> <p>Hand railings along Waterman’s Green willshall be protected and reinstated after the completion of construction activities.</p> <p>Existing slipway to be protected during construction. Localised areas of cobbles to be removed, stored and reinstated to the existing conditions of the slipway as far as is possible.</p> <p>Protect University Boat Race starting stone from damage.</p> <p>Remove, protect and reinstate Listed bollards. Listed bollards willshall be securely stored for the duration of the works.</p> <p>The contractor shall identify any requirements to temporarily remove the statue ‘load’ which is located at the junction of Lower Richmond Road and the Embankment carriageways. Measures to protect the</p>

Topic	Site-specific requirement
	<p>statue, whether it is required to be temporarily removed or kept in situ for the duration of the works, shall be submitted to and agreed in writing with the local authority. If removed, the statue willshall be securely stored for the duration of the works.</p> <p>The Contractors working methods are to minimise risk of accidental striking the listed bridge. Protection barriers willshall be installed as required but not attached to the structure unless otherwise agreed.</p>

<p>13 Other</p>	
Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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