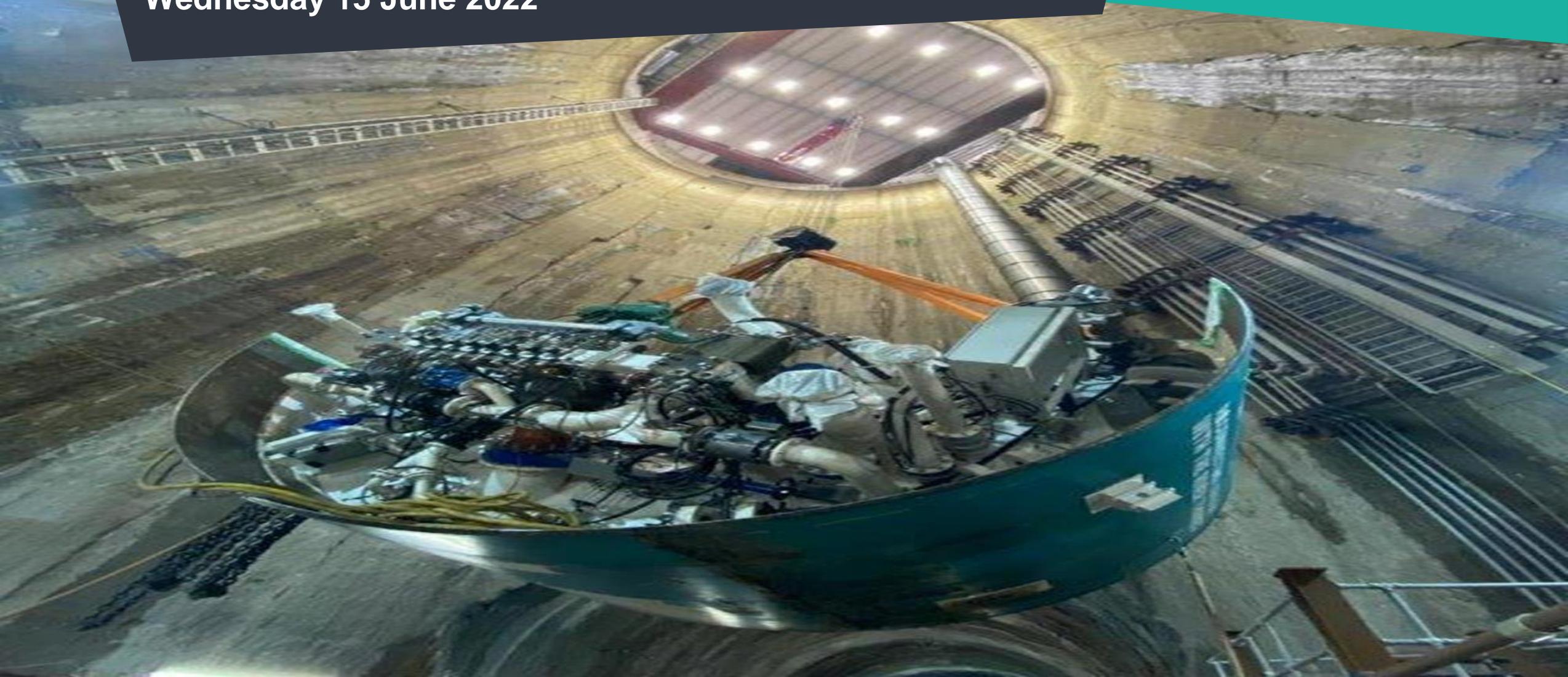


EARL PUMPING STATION

Community Liaison Working Group
Wednesday 15 June 2022



Tideway



Content

Topic	Lead
Welcome, introductions and overall project overview	Martin Griffiths
<ul style="list-style-type: none">• Planning submission presentation• Construction update• Noise and air quality• Mitigation• Community Relations and Legacy	Megan Bergh Guillaume Borel Matthew Gardiner Emily Black Martin Griffiths
Any other business	All
Meeting close	All

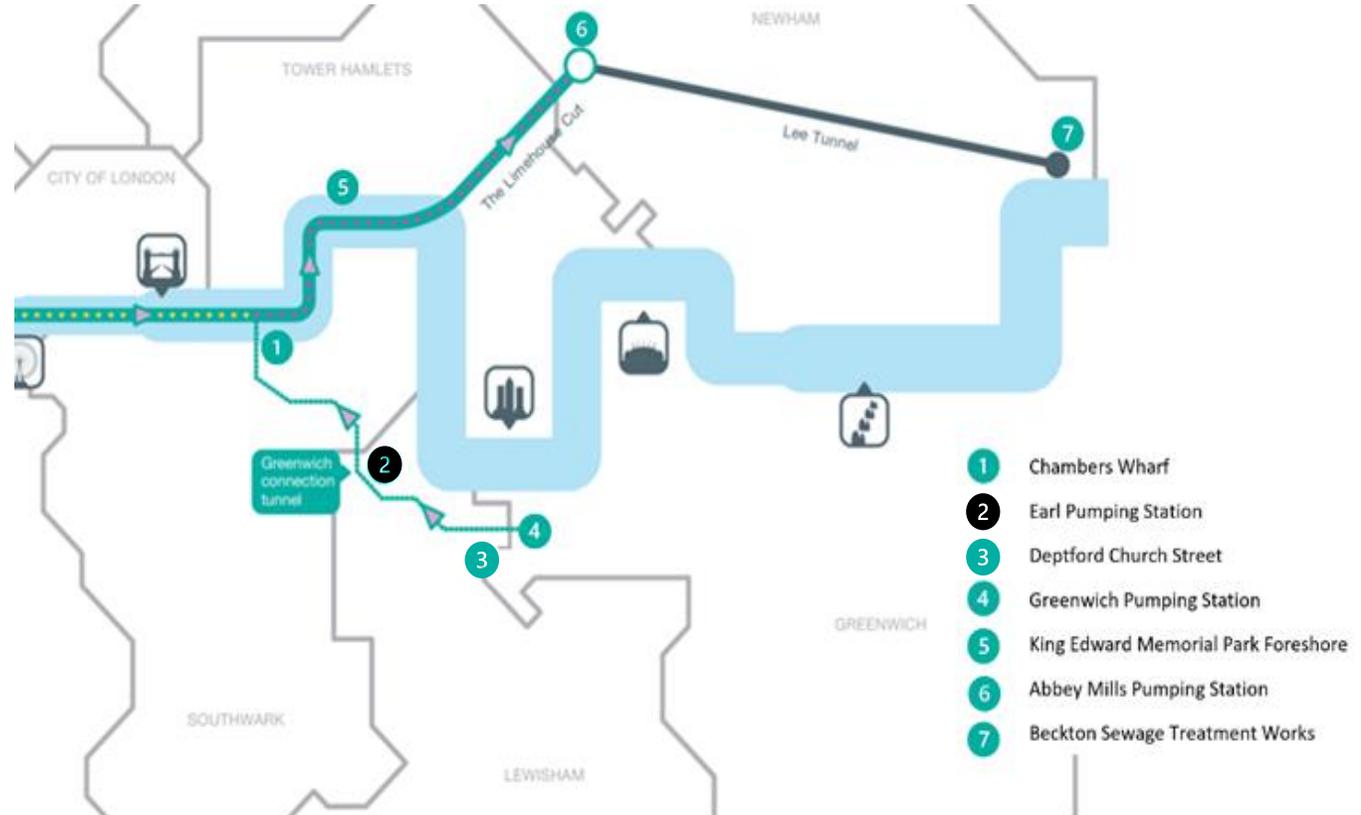
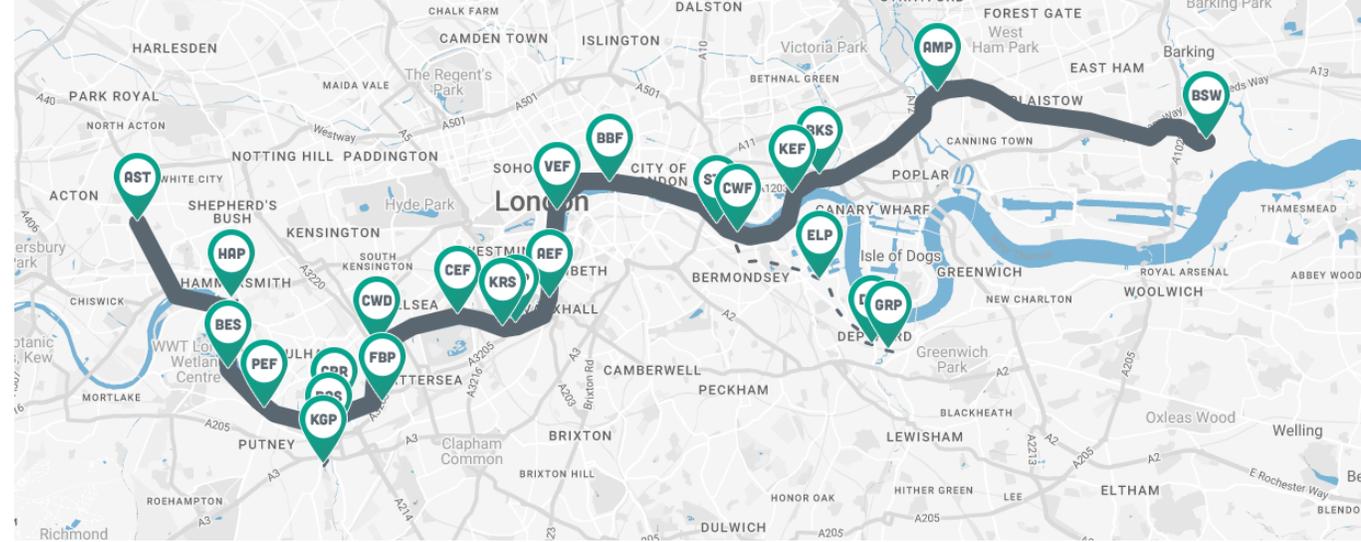
ARCHITECTURE & LANDSCAPING



Megan Bergh
Consents Manager

Thames Tideway Tunnel NSIP

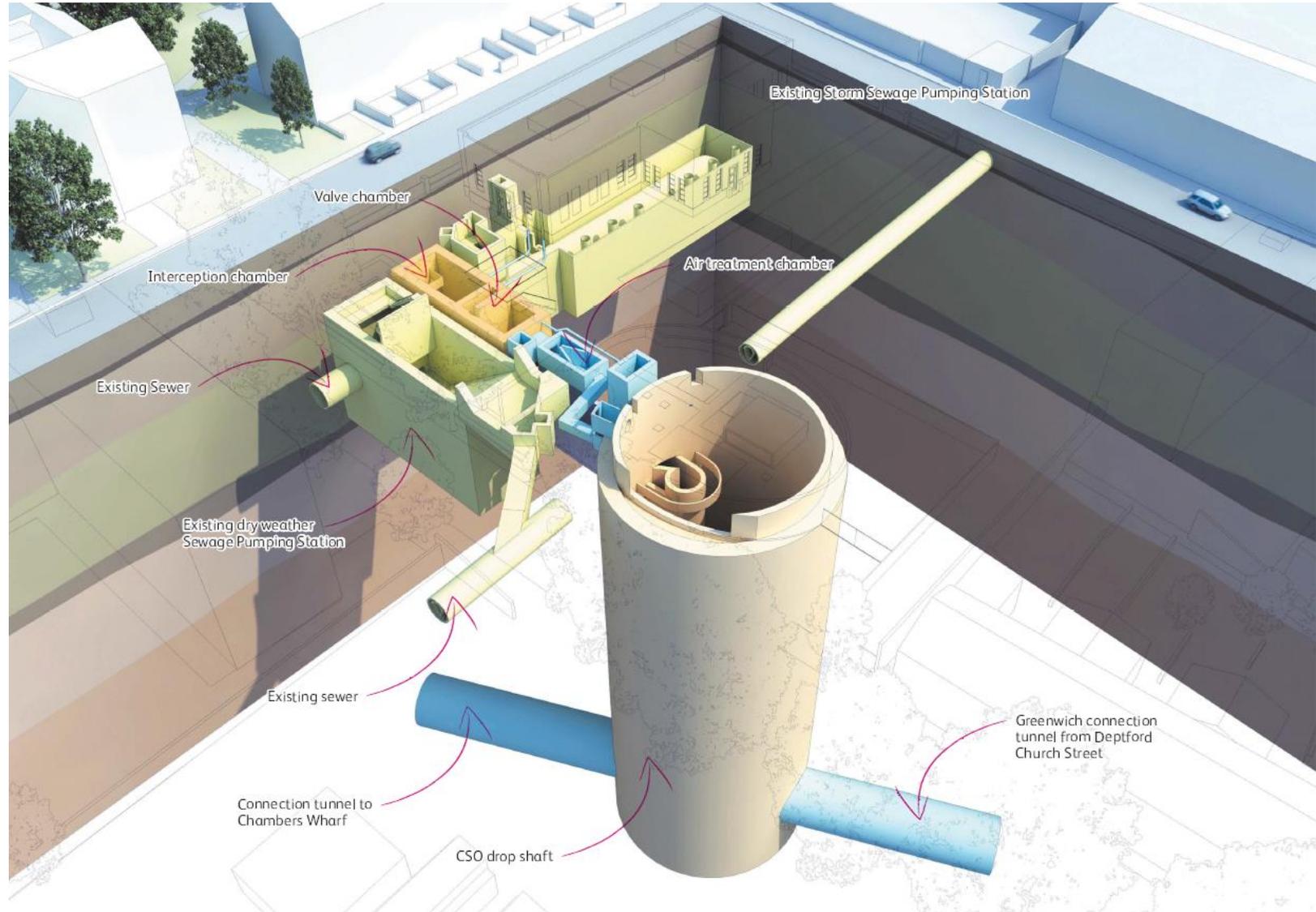
- The Thames Tideway Tunnel (TTT) project is a Nationally Significant Infrastructure Project (NSIP).
- TTT Project (The Project) is authorised under Thames Water Utilities Limited Development Consent Order 2014 (DCO)
- The tunnel will intercept combined sewer overflows (CSOs) that frequently discharge into the River Thames and transfer them for treatment at Beckton Sewage Treatment Works.
- The work site at Earl Pumping Station (EARPS) is required to intercept the Earl Pumping Station CSO.



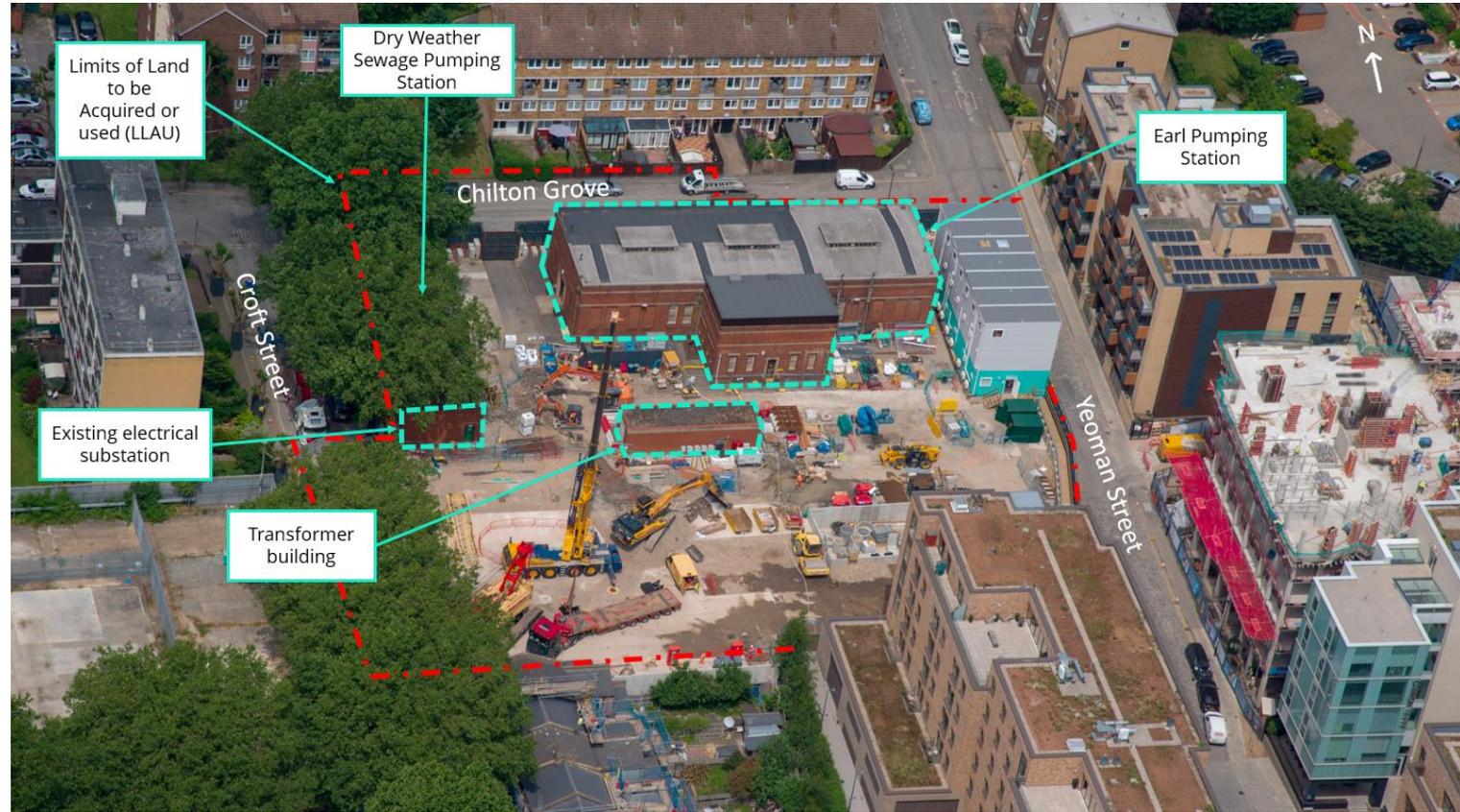
Proposed Works

The proposed works to intercept the sewer comprise:

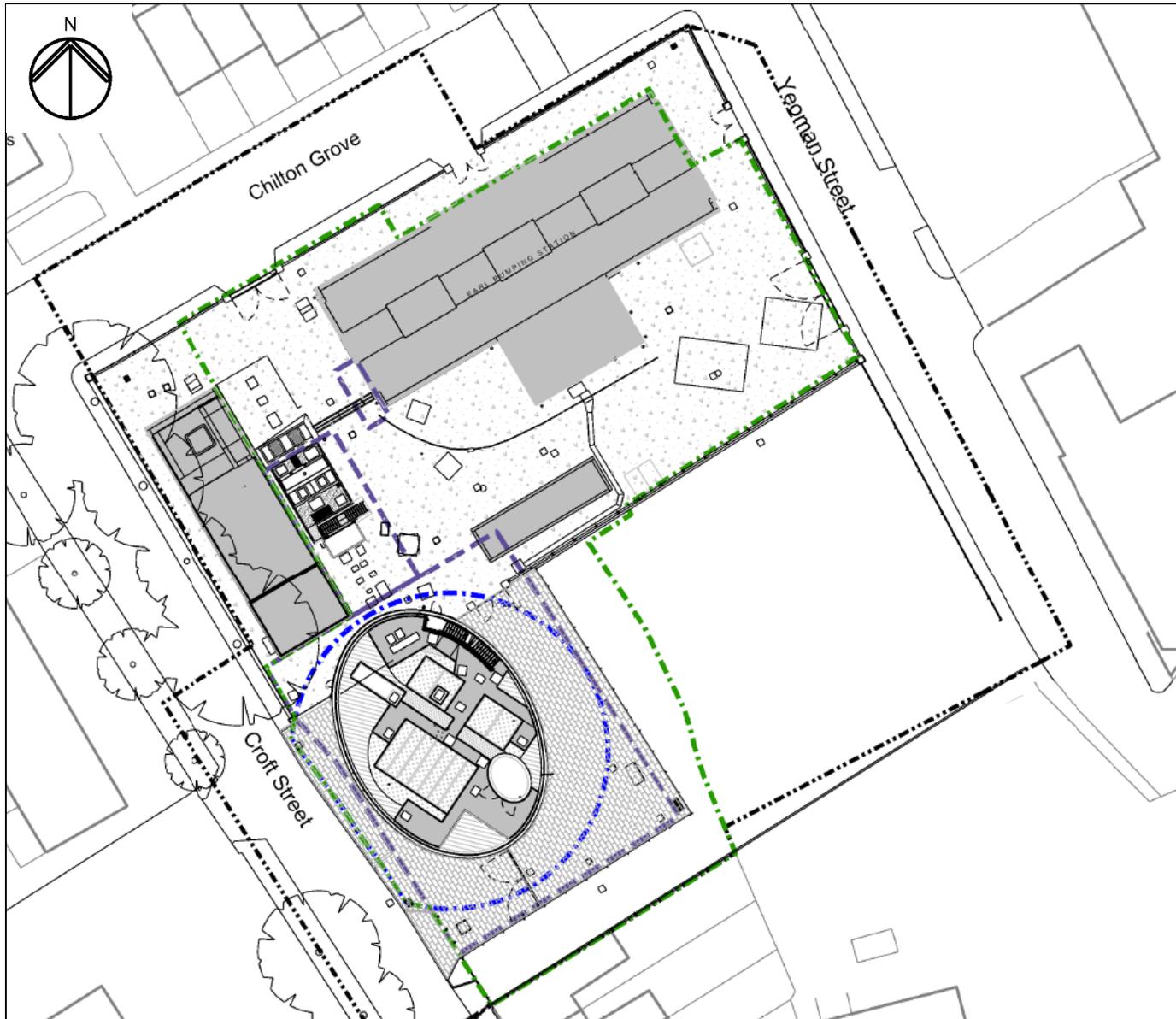
- Combined Sewer Overflow (CSO) drop shaft approx. 17m in diameter and 51m in depth
- Combined interception and valve chamber
- Connection culvert
- Air treatment chamber



Site Context



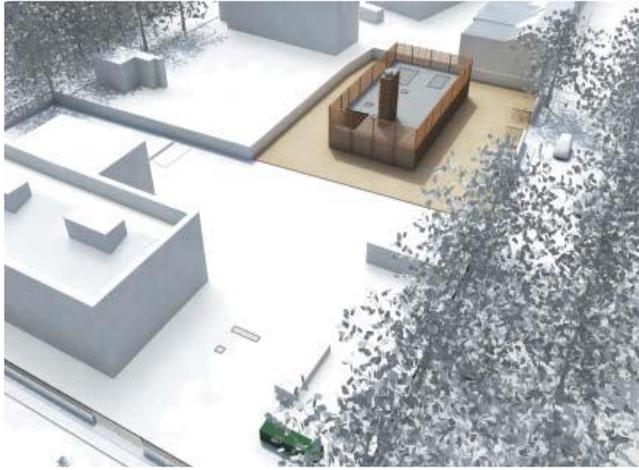
Site Parameters



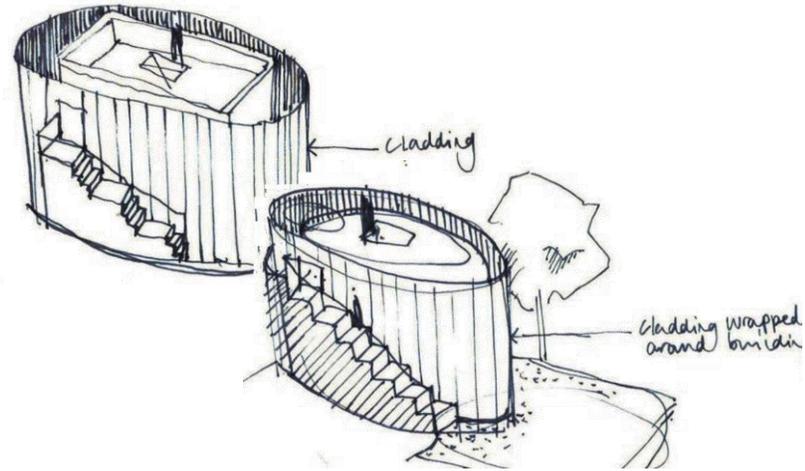
- Limits of Land to be acquired or used (LLAU)
- - - Zone within which all permanent site structures would be located
- - - Zone within which the shaft would be located
- - - Zone within which permanent above ground structures would be located

Design Development

Phase 1 Consultation (Oct-2010)



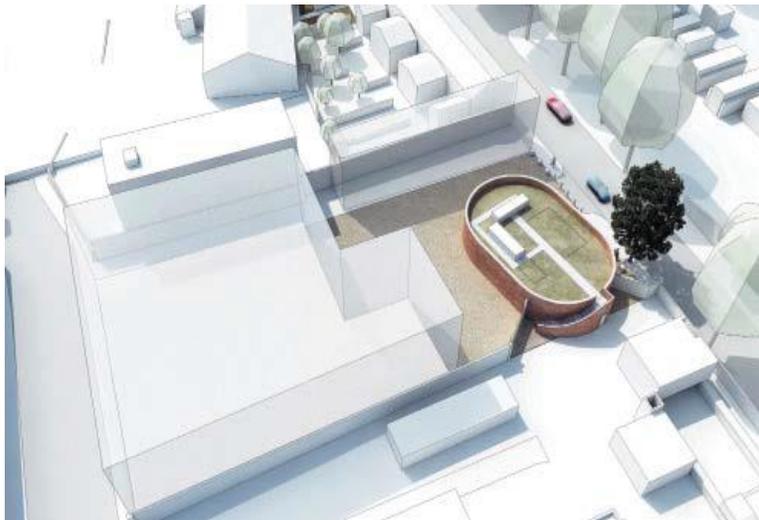
Design Development



CABE Sketch Review (Apr-2011)



CABE Scheme Review (Jun-2011)



Phase 2 Consultation (Nov-2011)



Section 48 Publicity (Jul-2012)



Approval Parameters Schedule 3

- The DCO approved the principle of the development, including the necessity and location of the permanent above ground works and their maximum or minimum height. Therefore, the scope of what LB Lewisham can assess and approved is limited to:
 - Size
 - External appearance
 - Materiality
- This is achieved by discharging the relevant requirements set out in Schedule 3 of the DCO:

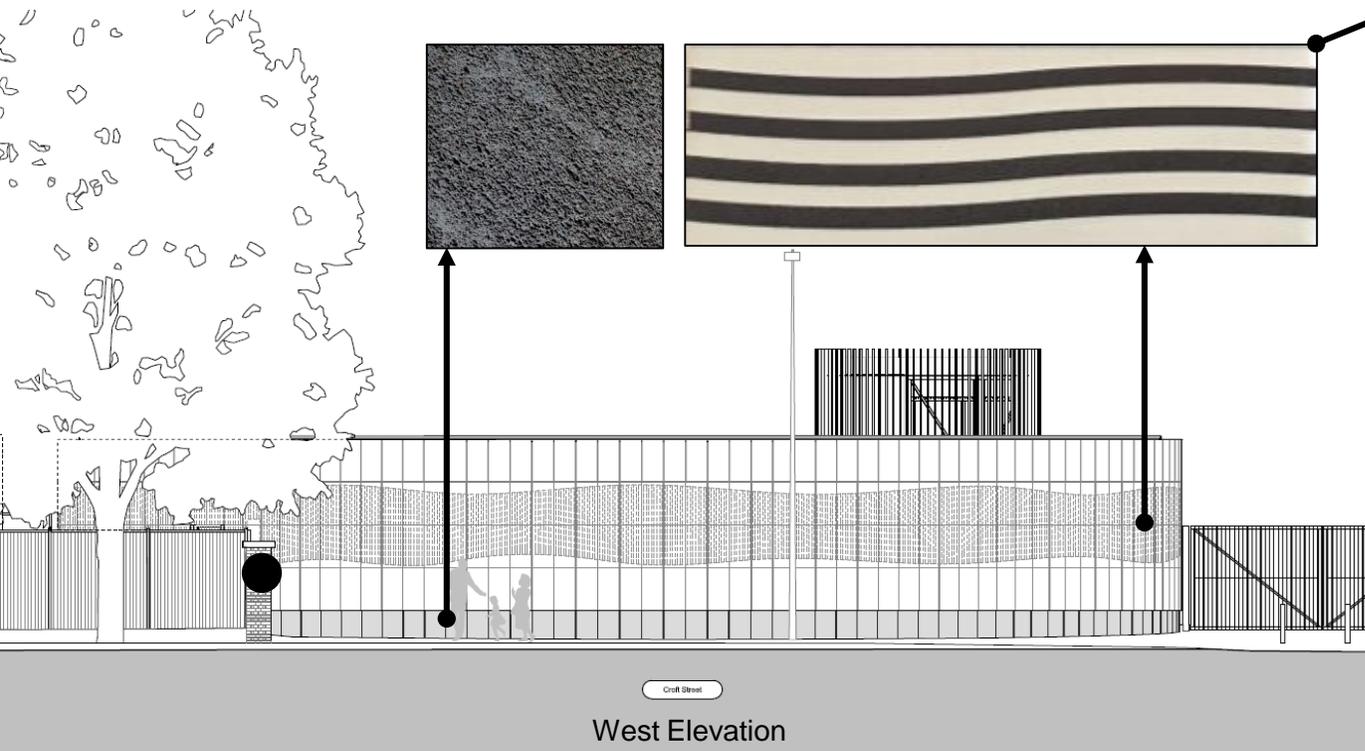
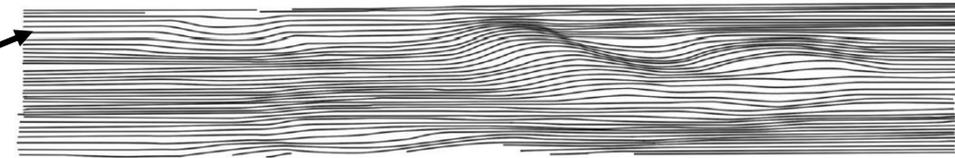
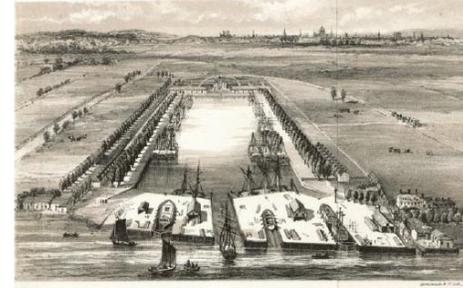
DCO Sch 3 Requirement	Title
EARPS2	Detailed design approval for permanent aboveground structures
EARPS5	Landscaping works
EARPS8	Specification of accesses
EARPS9	Surface water drainage
EARPS10	Removal and reinstatement of marker stone
EARPS12	Heritage interpretation
PW11	Interpretation Strategy (Artwork)

- In this regard, the application only relates to the above ground materials, finishes and soft & hard landscaping

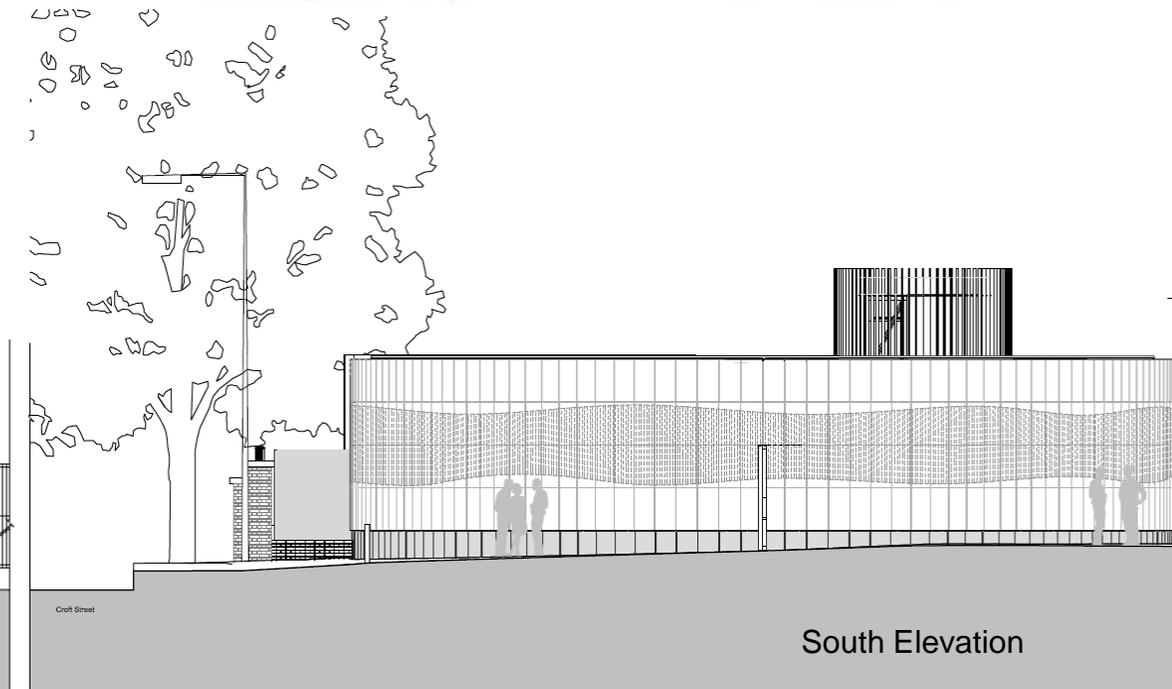
Permanent aboveground structures EARPS2, EARPS12 and PW11

Drop Shaft Parapet and Artwork Proposal

- Drop shaft parapet will protrude 4.8m and be enveloped by an oval enclosure
- The structure will be clad in panels of dark grey stone, glazed in an ivory coloured coating
- The stone will be engraved with the scrimshaw artwork
- Unglazed stone cladding at the base of the shaft



West Elevation



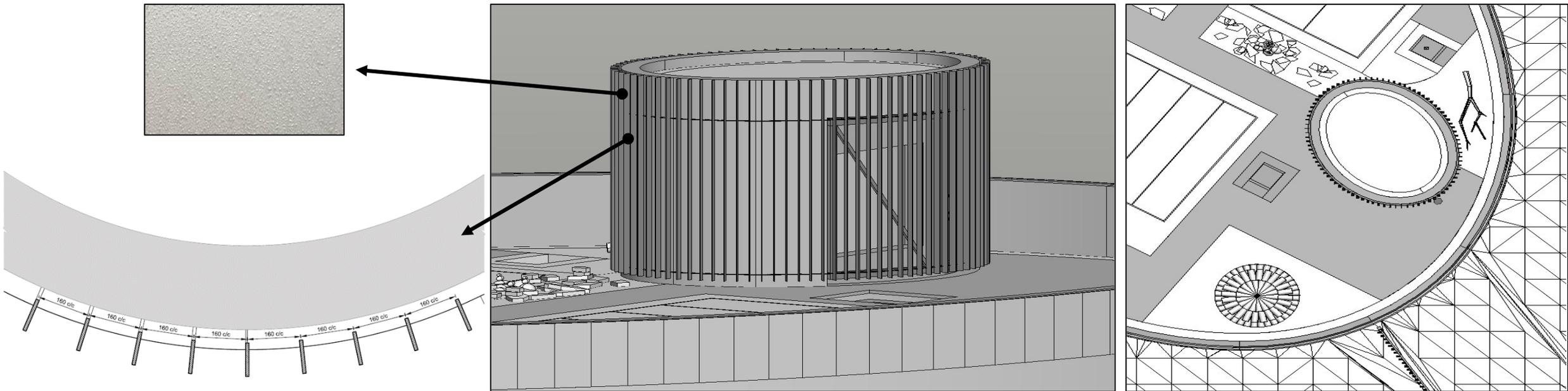
South Elevation

Indicative Visualisation



Ventilation structure over shaft

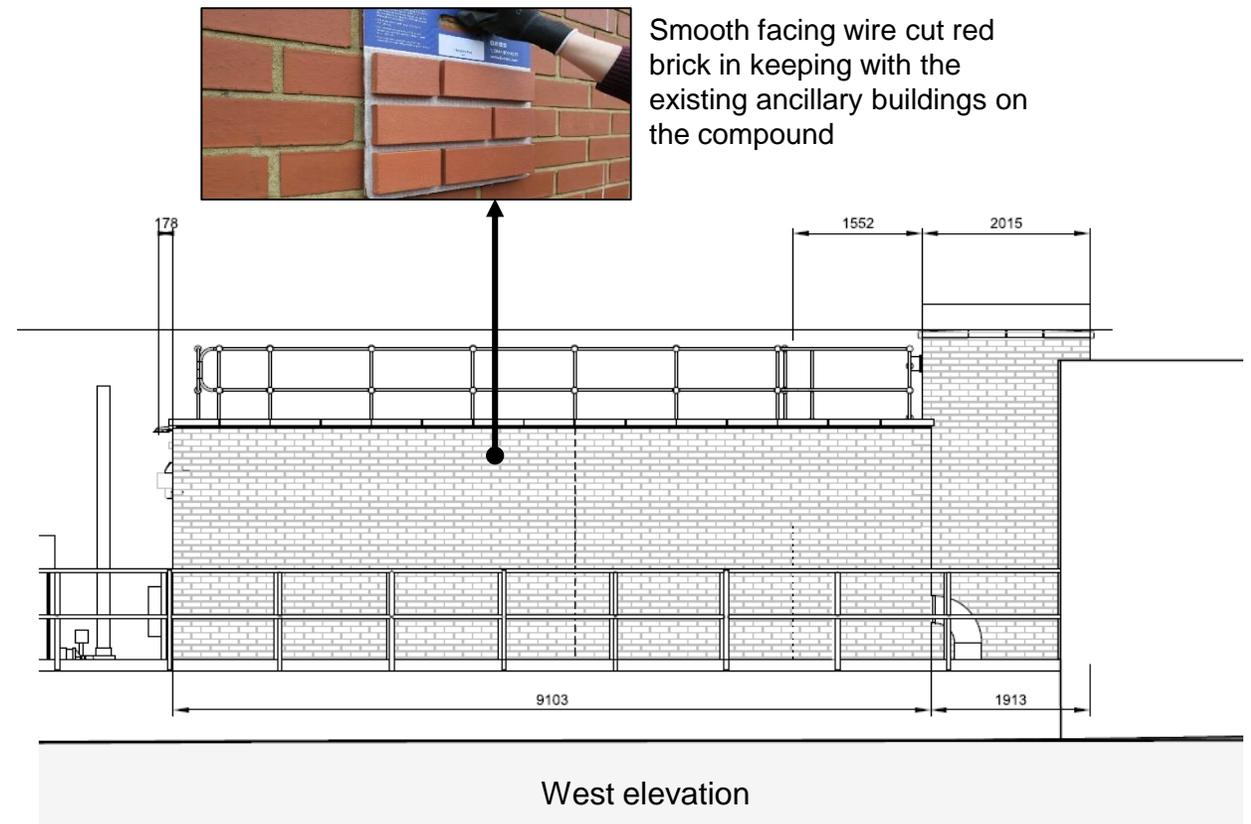
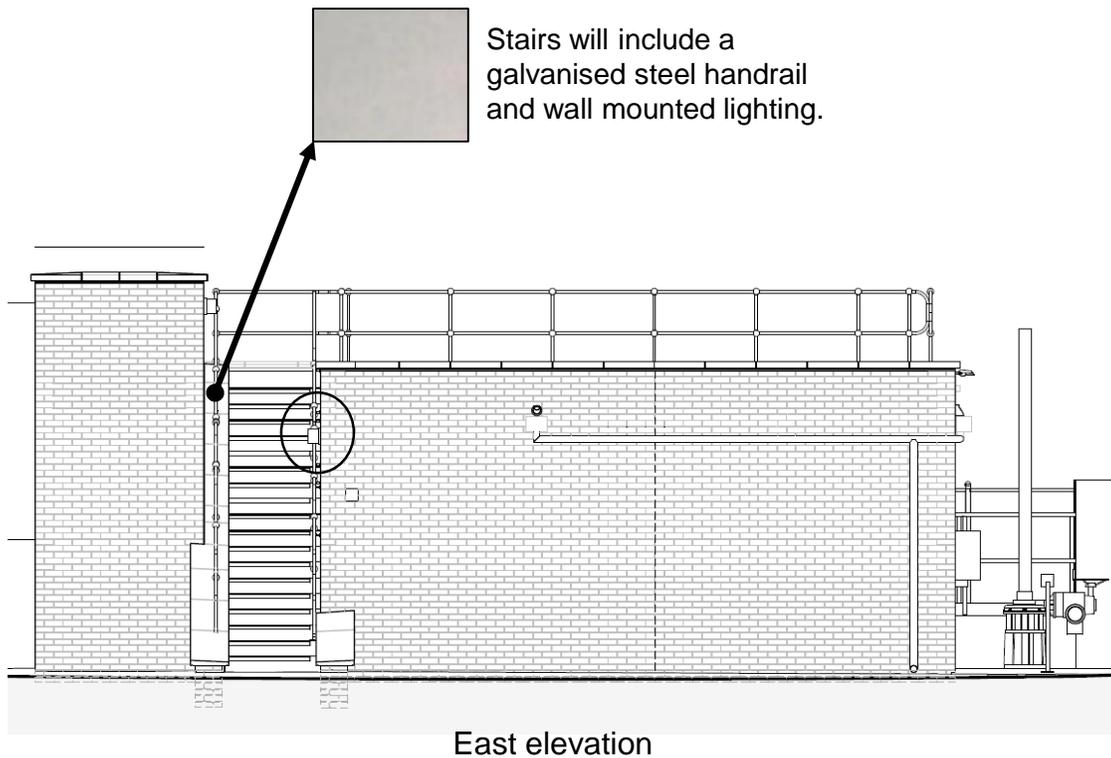
- The ventilation structure will be 1.9m in height, protruding 6.7m above ground level
- The finish comprises a curved fair-face reinforced concrete wall and roof with powder coated aluminium cladding with a silver finish formed of vertical fins



Permanent aboveground structures EARPS2

Combined Interception & Valve Chamber (incl. ventilation stack)

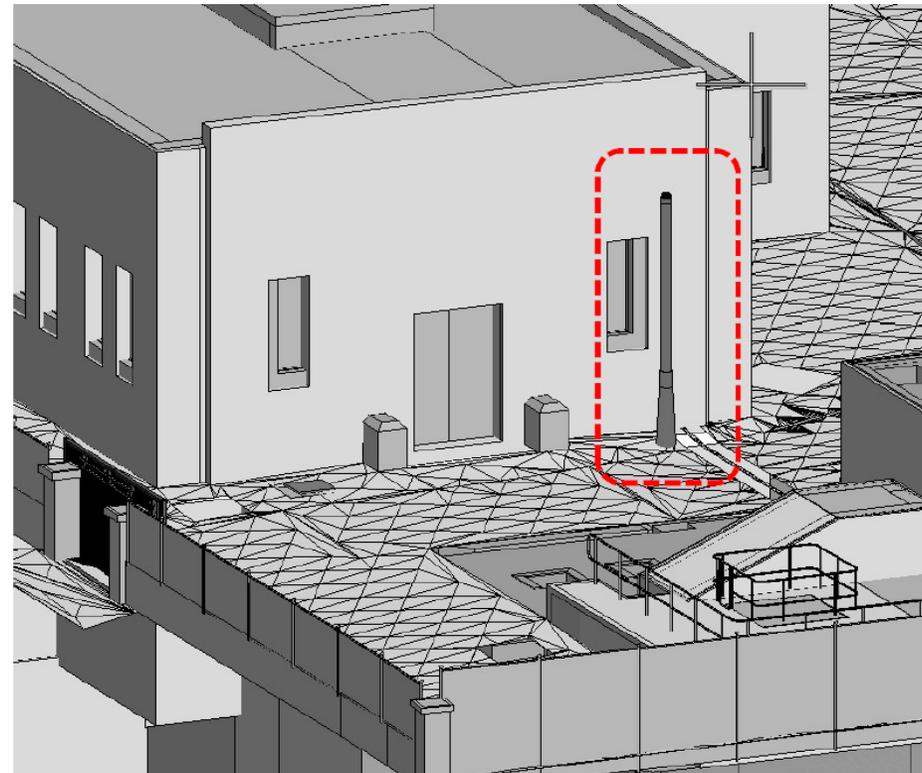
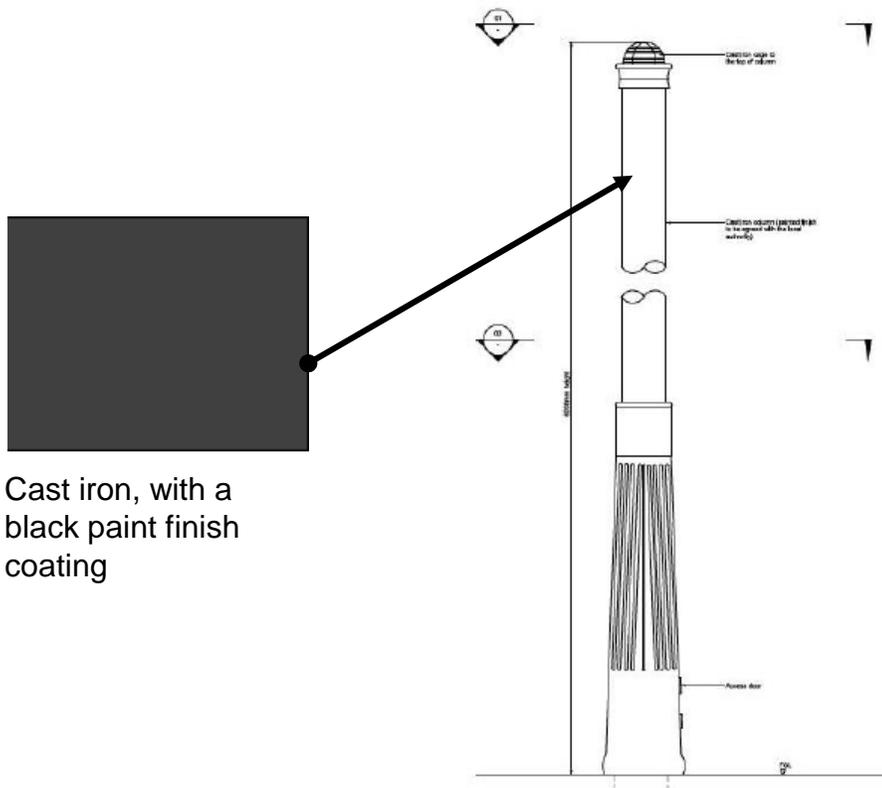
- The combined interception and valve chamber is proposed as a single structure in brick cladding measuring 3.8m in height.
- The ventilation stack atop the combined interception and valve chamber measures 5.2m in height from ground level



Permanent aboveground structures EARPS2

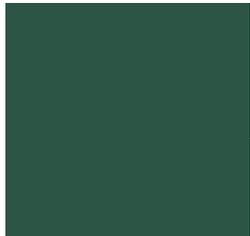
Ventilation column serving the shaft

- One 'Type D' ventilation column is to be provided. This is a standard proprietary product used by Thames Water.
- The structure is 6m in height. The column will be formed of cast iron in black.

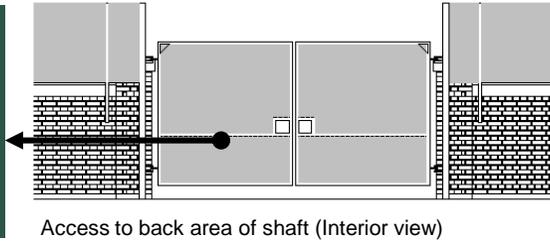


Permanent aboveground structures EARPS2

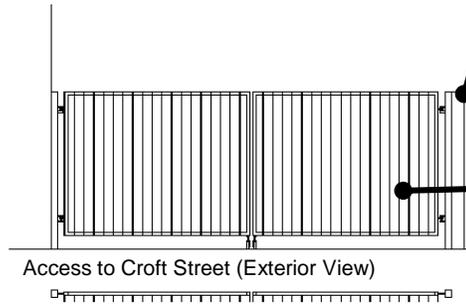
Materials and Finishes



Galvanised and powder coated green to match existing



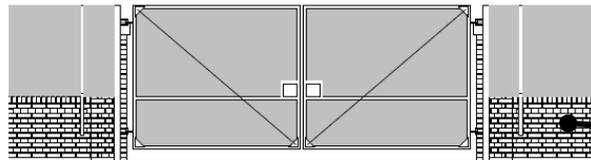
Access to back area of shaft (Interior view)



Access to Croft Street (Exterior View)

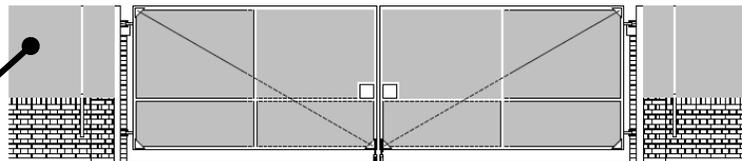
High quality temporary hoarding

Metal frame and vertical railing in dark grey



Access to Chilton Grove (Interior view)

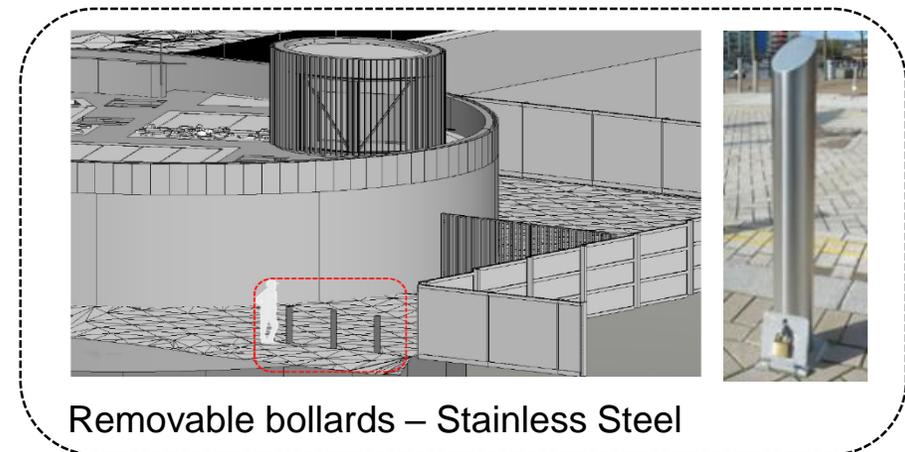
Reinstated brick



Access to Yeoman Street (Interior view)



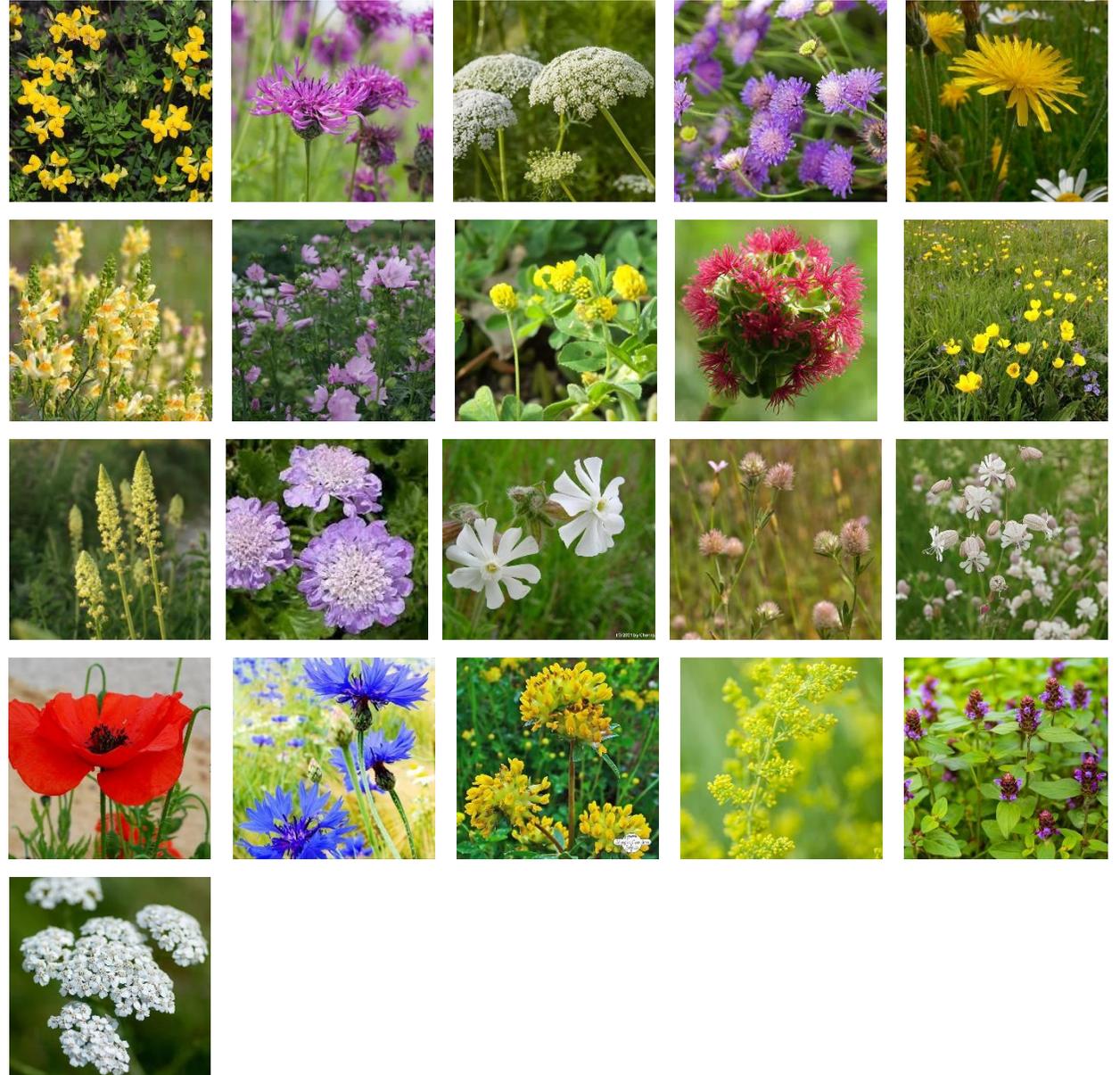
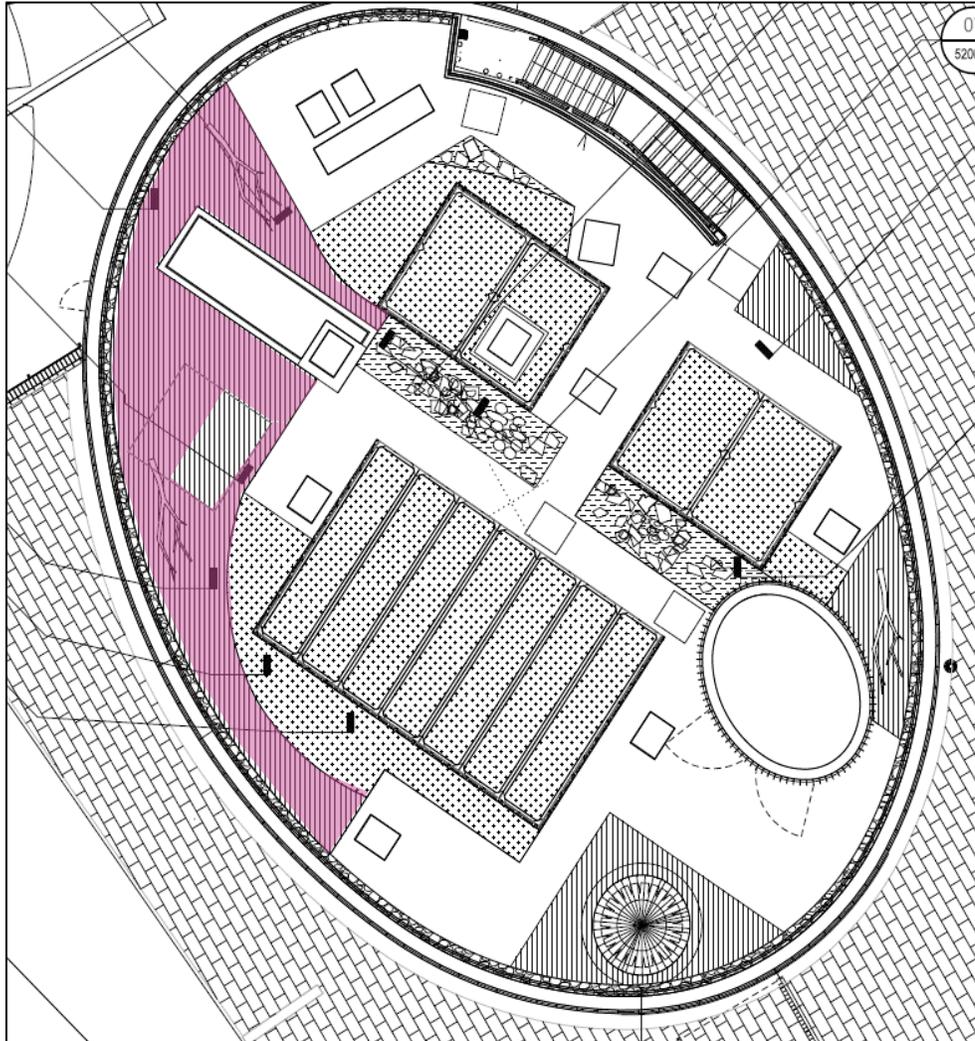
Mesh fence to match existing



Removable bollards – Stainless Steel

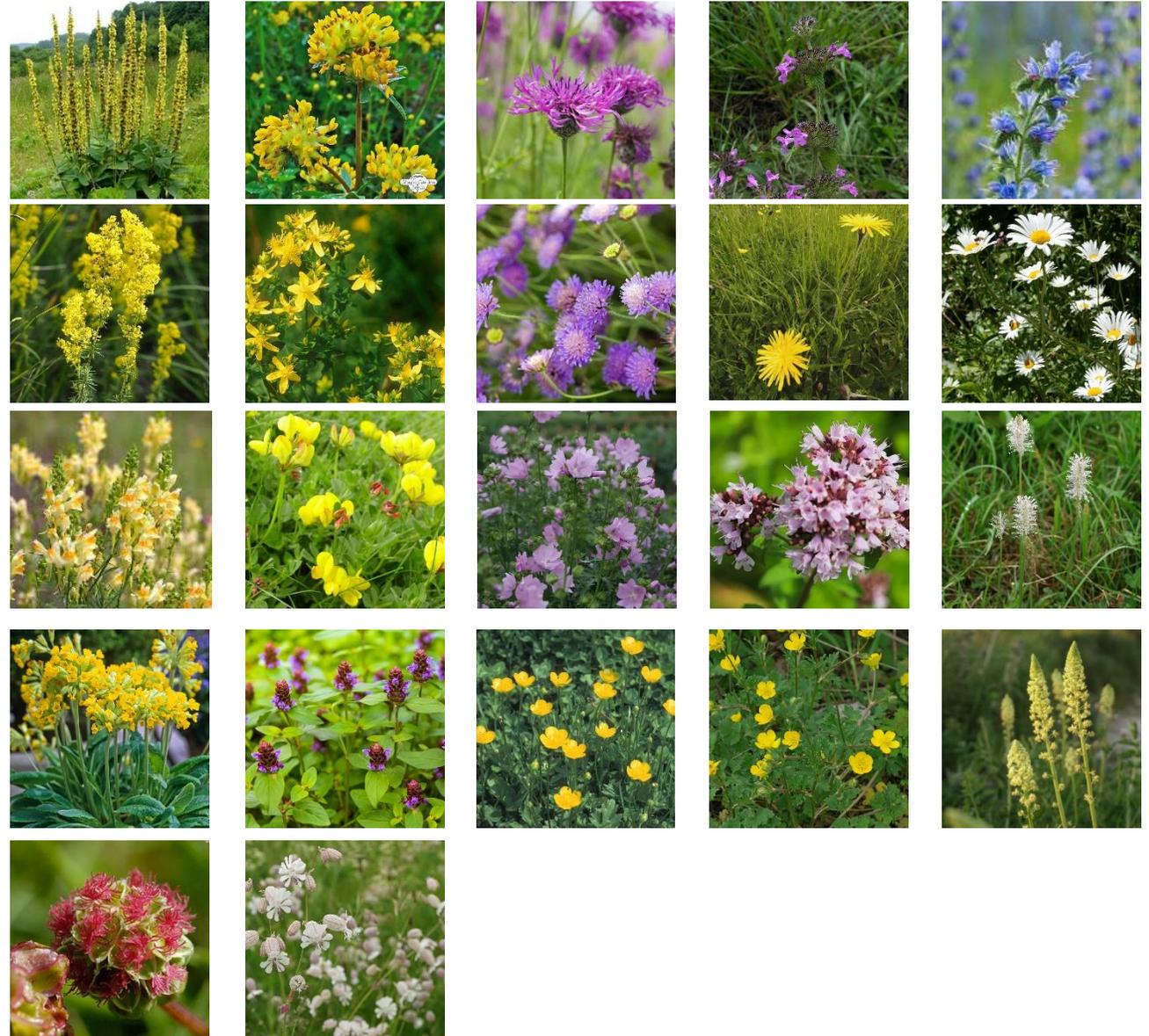
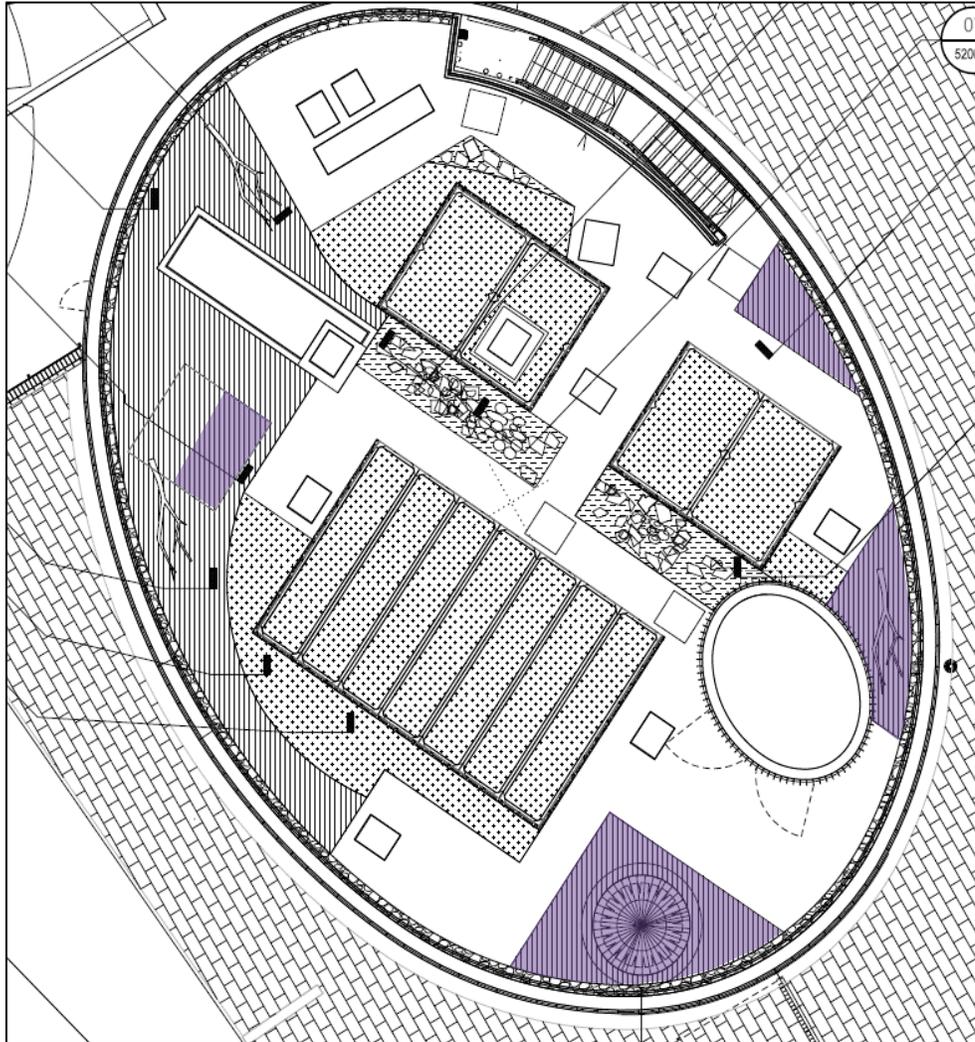
Landscaping Works EARPS5

Proposed Planting – Wildflower Plug Mix



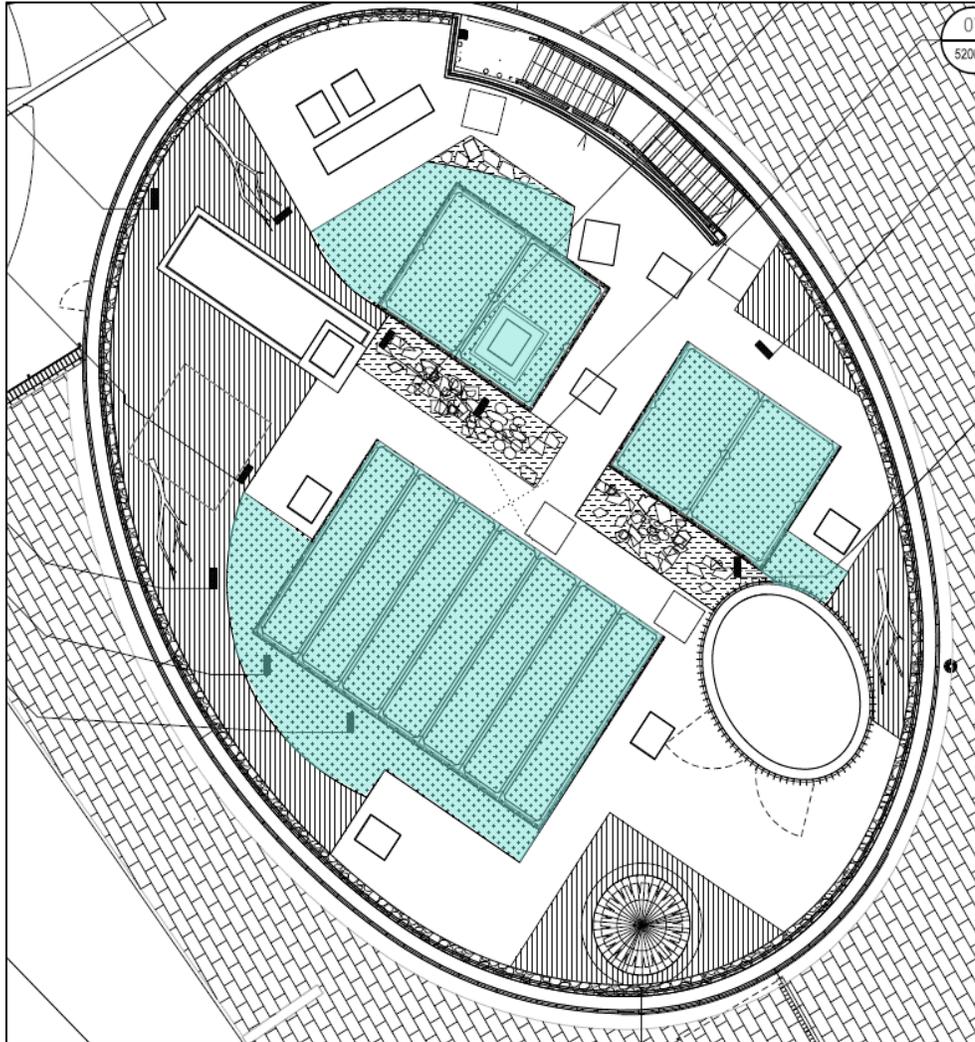
Landscaping Works EARPS5

Proposed Planting – Wildflower Seed Mix



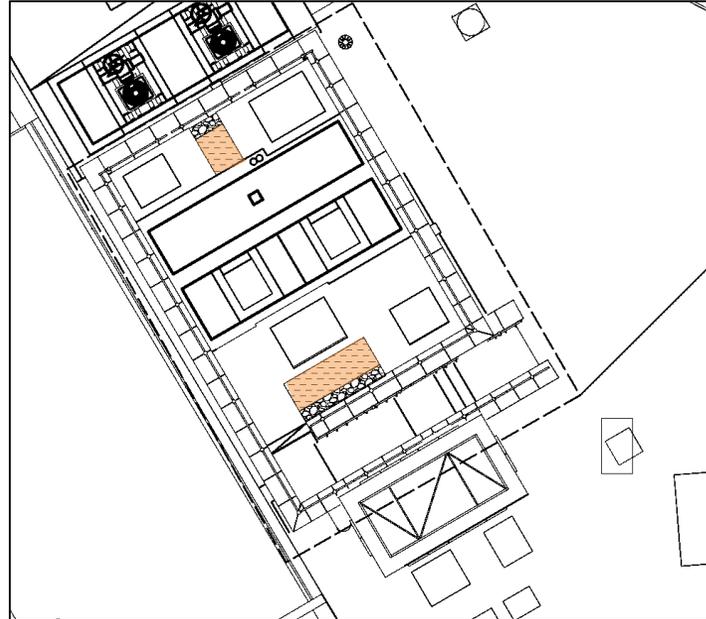
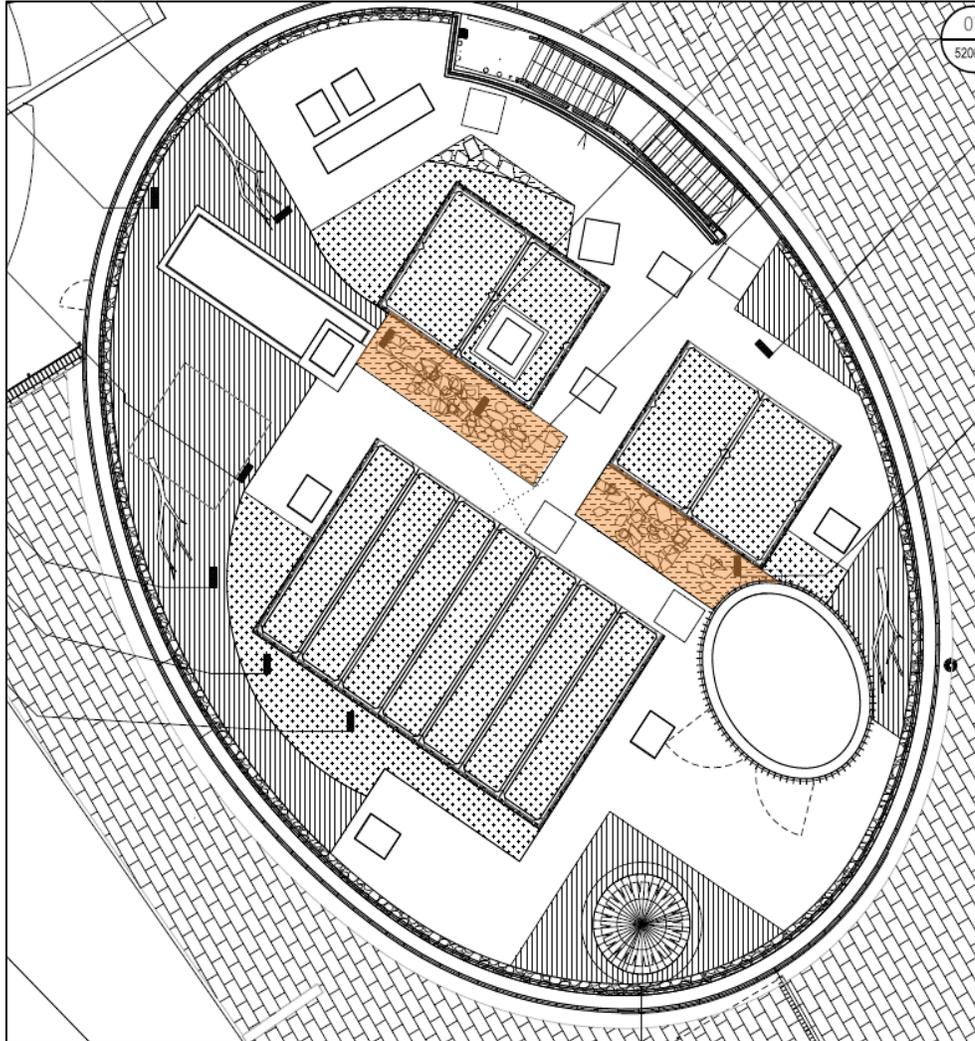
Landscaping Works EARPS5

Proposed Planting – Sedum Mat Planting



Landscaping Works EARPS5

Brown Roof

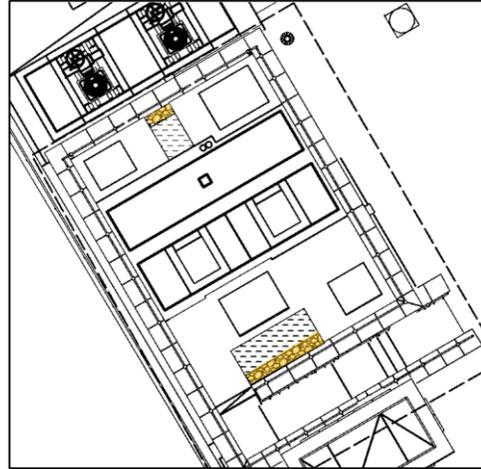
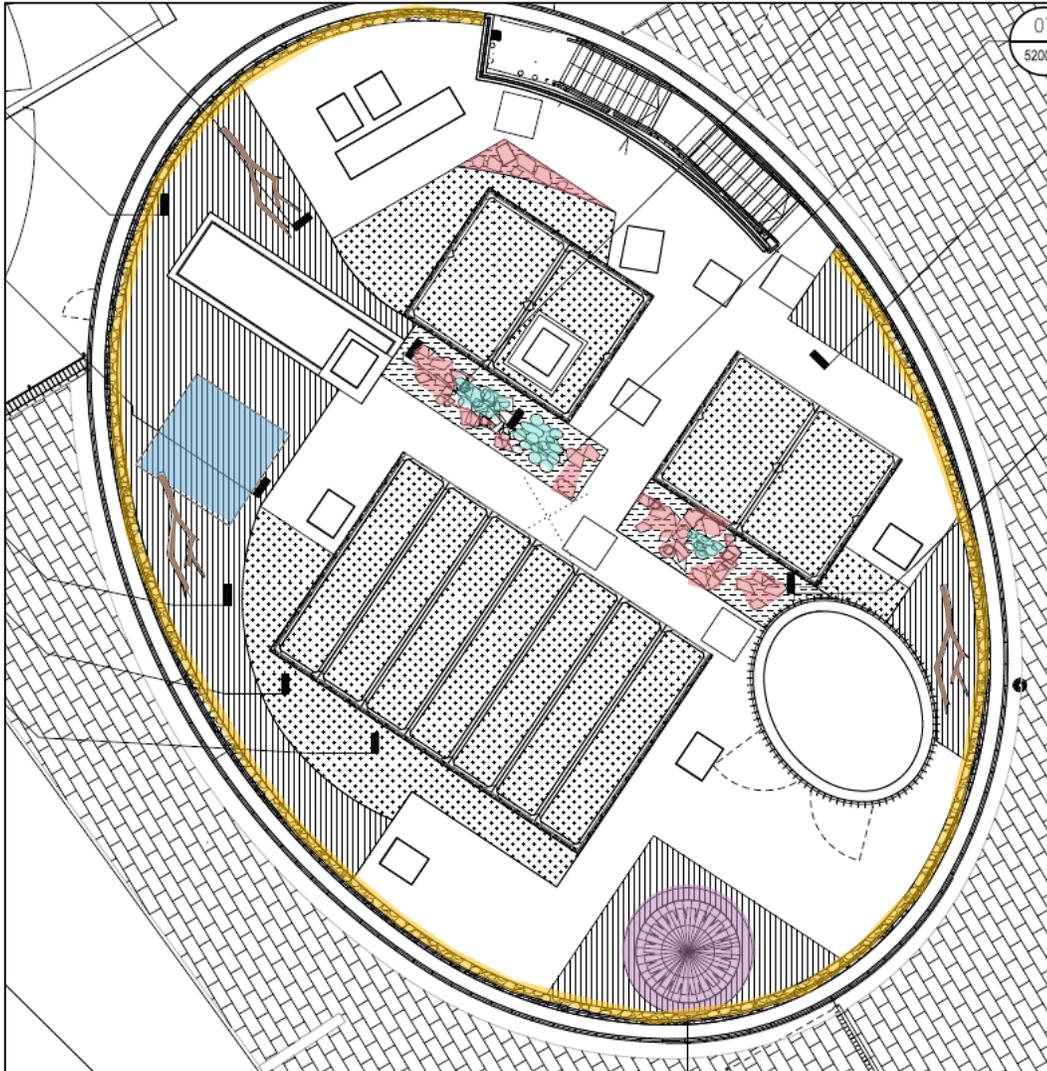


Self-vegetation from
windblown and bird seed
dispersal



Landscaping Works EARPS5

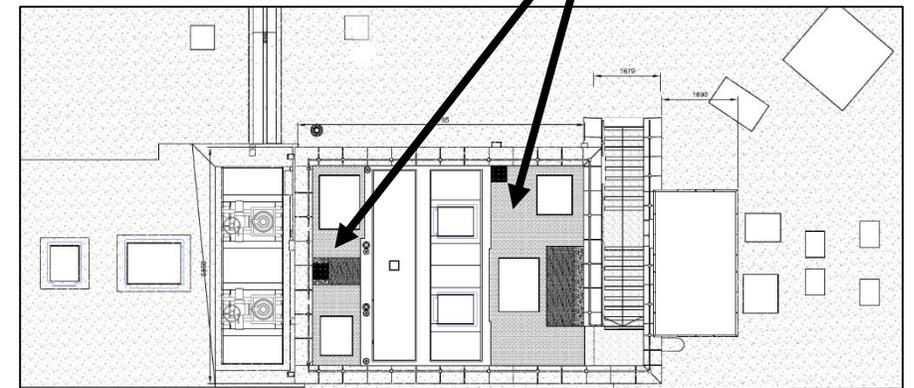
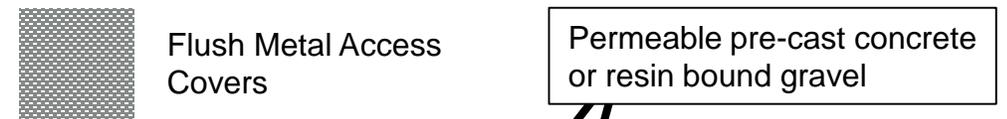
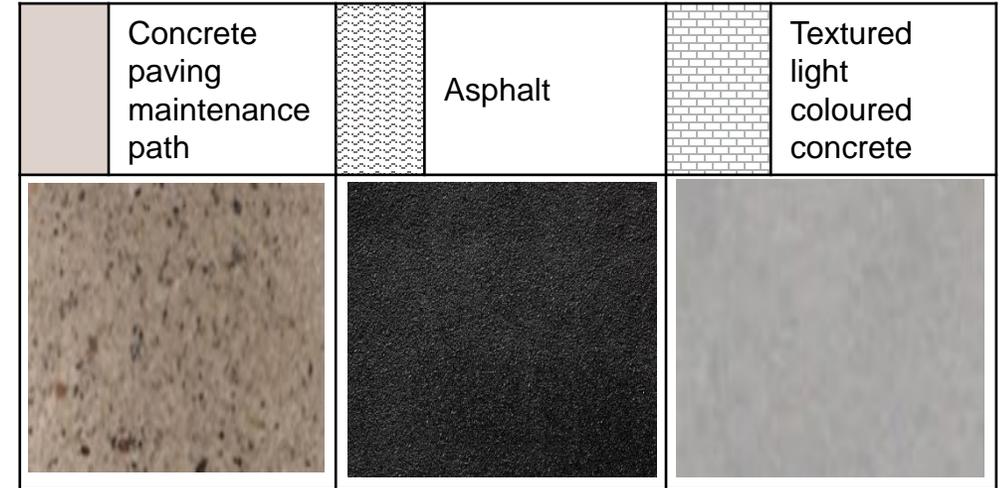
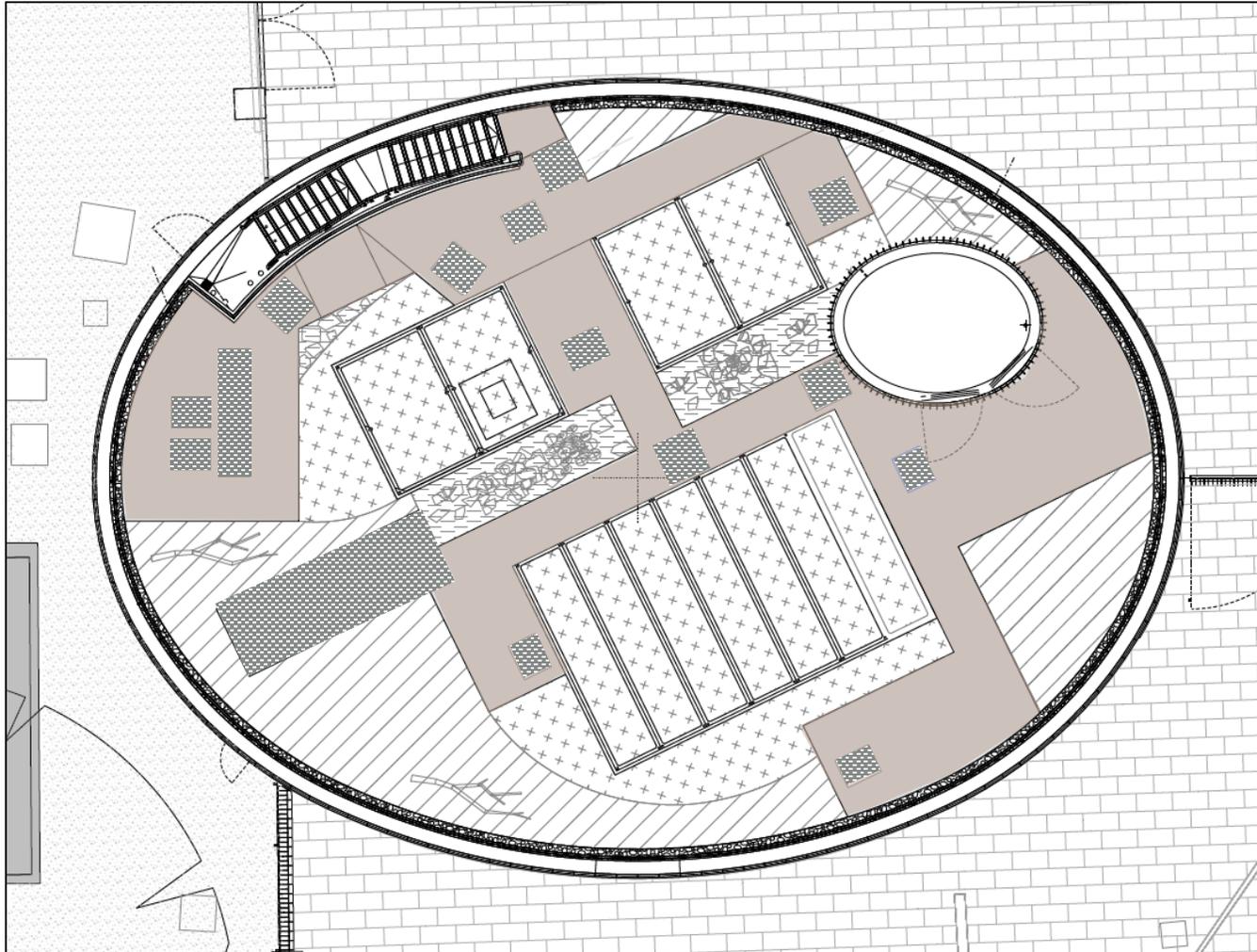
Landscape and Habitat Features



	Flat basking rocks		Undressed sandstone cobbles		Log Pile
					
	Felled Deadwood		Lined Scrape Feature		Gravel
					

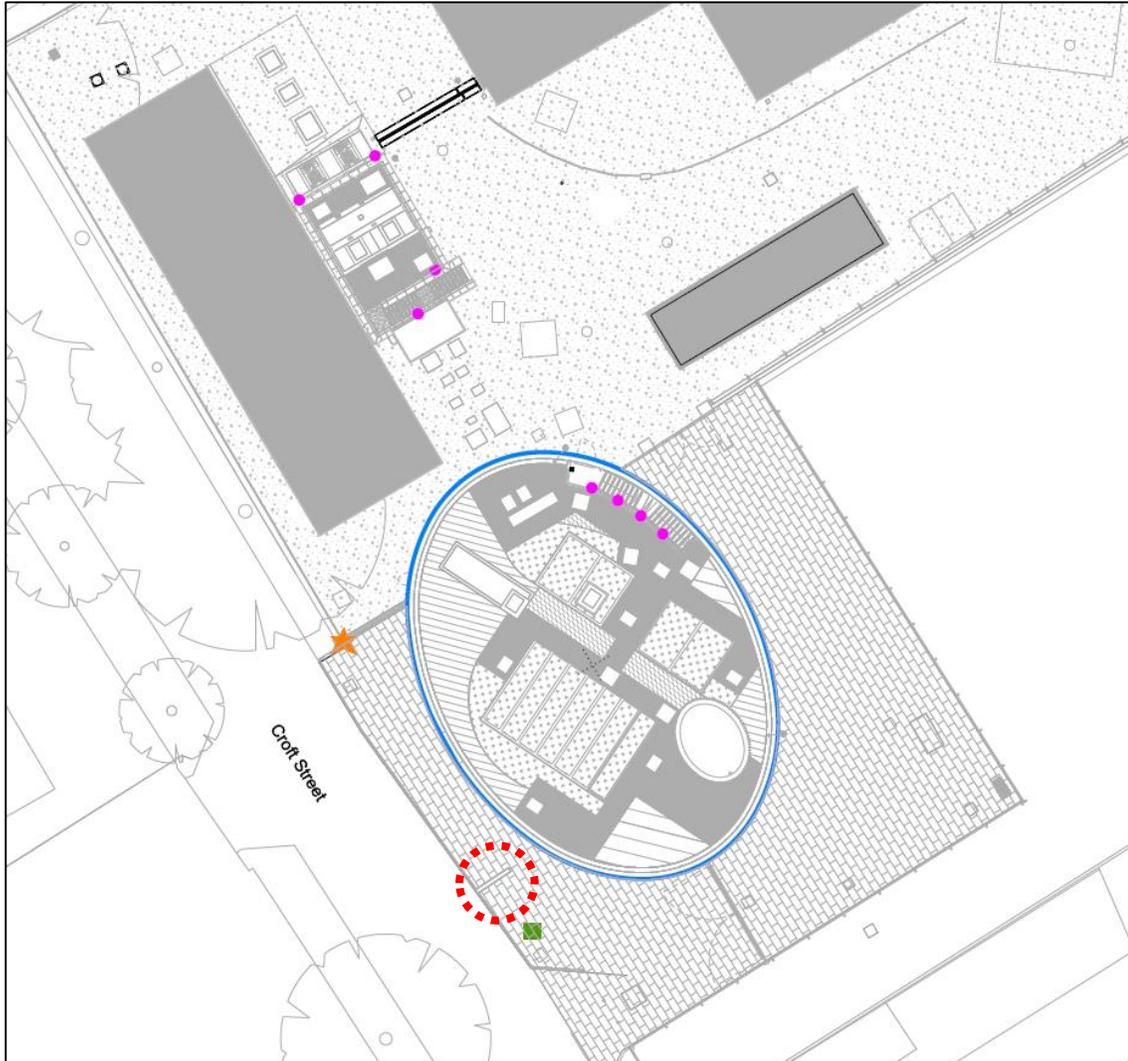
Landscaping Works EARPS5

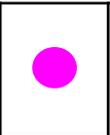
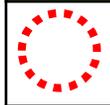
Hard Landscaping – Shaft roof and surrounding paving



Landscaping Works EARPS5, EARPS10

Hard Landscaping – Lighting, signage and wayfinding



	Bronze Plaque		Lighting		Artwork Interpretative Signage
	Marker Stone reinstatement				

An ecclesiastical boundary between St Paul Deptford and St Mary Rotherhithe which was located in the vehicular crossover serving Nos. 64-72 Croft Street will be reinstated in the same location



Bronze signature plaque is 600x600mm and to be installed flush with pavement level. The content of the plaque is to show the Tideway logo and explain the scheme in a succinct manner



Specification of Accesses EARPS8

Operational and Maintenance Accesses

- A new permanent access from Croft Street and widened accesses from Chilton Grove and Yeoman Street are proposed.
- These accesses have been designed and coordinated for the future maintenance of the shaft and interception chamber to accommodate the swept paths of large vehicles and cranes.



Proposed Submission Timeline

Schedule 3 Submission	Timeframe
Draft submission	June 2022
Comment Period and Consultation on Draft (4 weeks)	July 2022
Formal Submission (8 weeks)	September 2022
Decision	November 2022

How to view application documents and comment on the application

- Visit the London Borough of Lewisham website - <https://lewisham.gov.uk/myservices/planning>
- Navigate to the '[Find and comment on planning applications](#)' page and search using the application reference. This will be emailed to the Tideway mailing list once available.



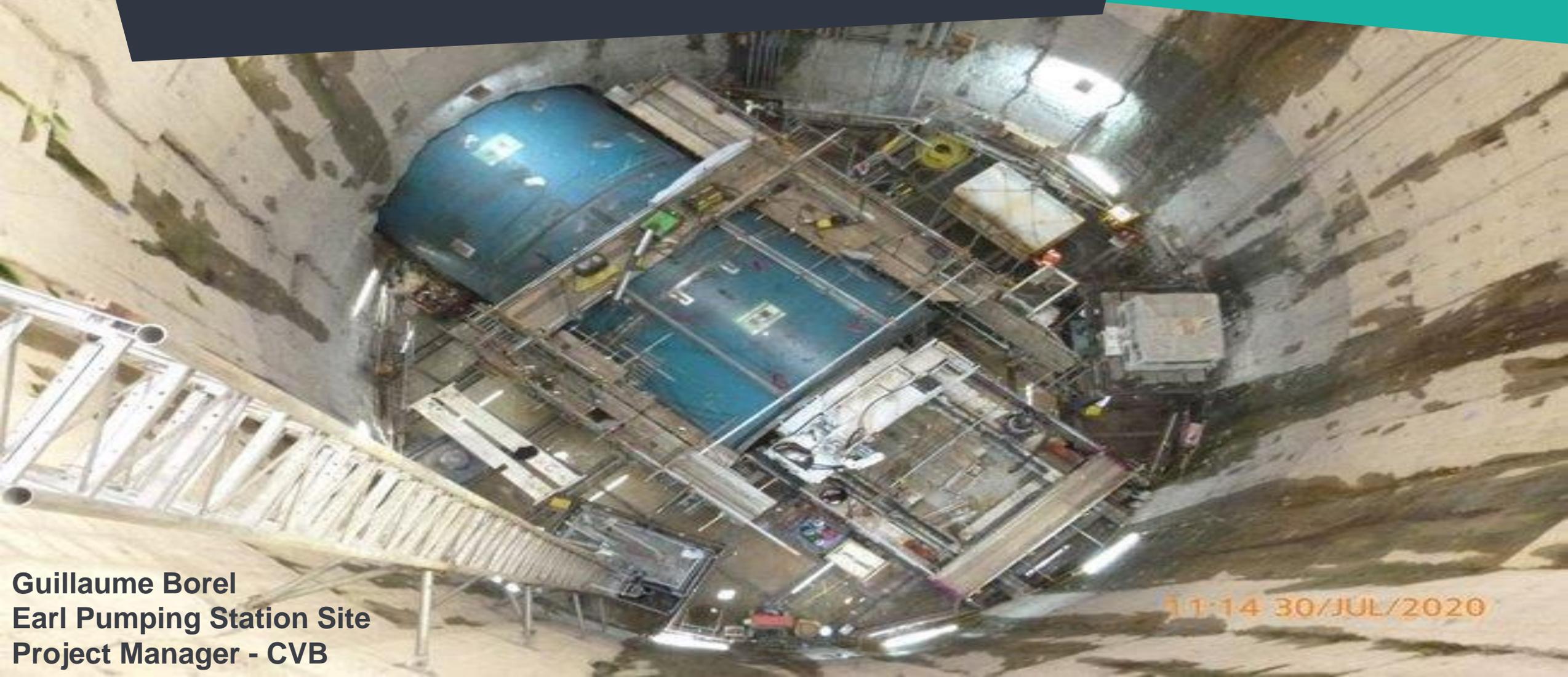
QUESTIONS

CONSTRUCTION UPDATE

December 2021 to June 2022



Tideway



Guillaume Borel
Earl Pumping Station Site
Project Manager - CVB

11:14 30/JUL/2020

CONSTRUCTION UPDATE

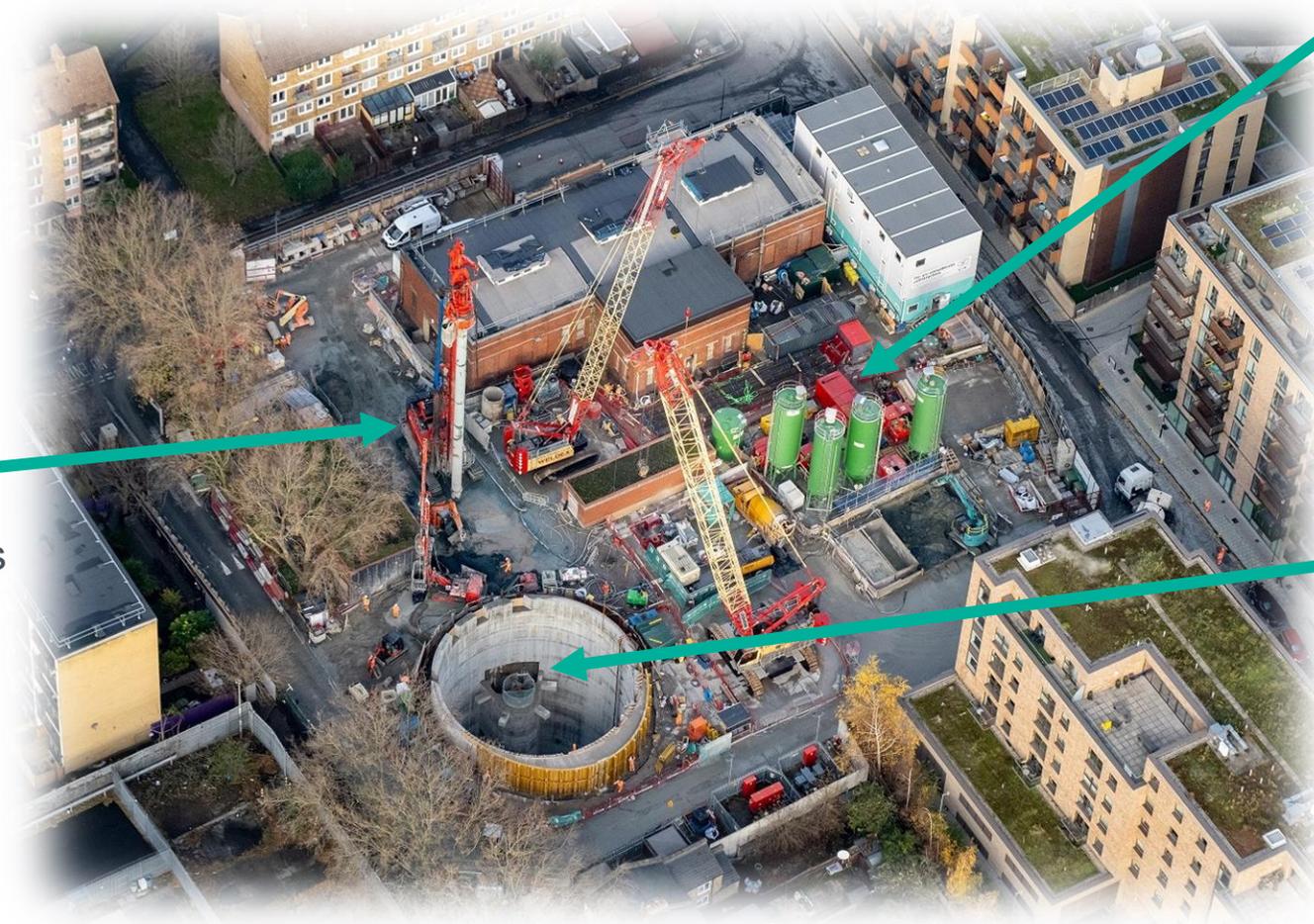
December 2021 to June 2022



Tideway

Combined Sewer Overflow (CSO)

- Jet grouting completed
- Secant/ATU piles completed
- Tension piles completed
- Piezometers, pump test wells and extensometers installed
- Pump test completed
- Excavation and capping beam works started



Other

- Silos and plant removed upon CSO geotechnical works completion

Shaft

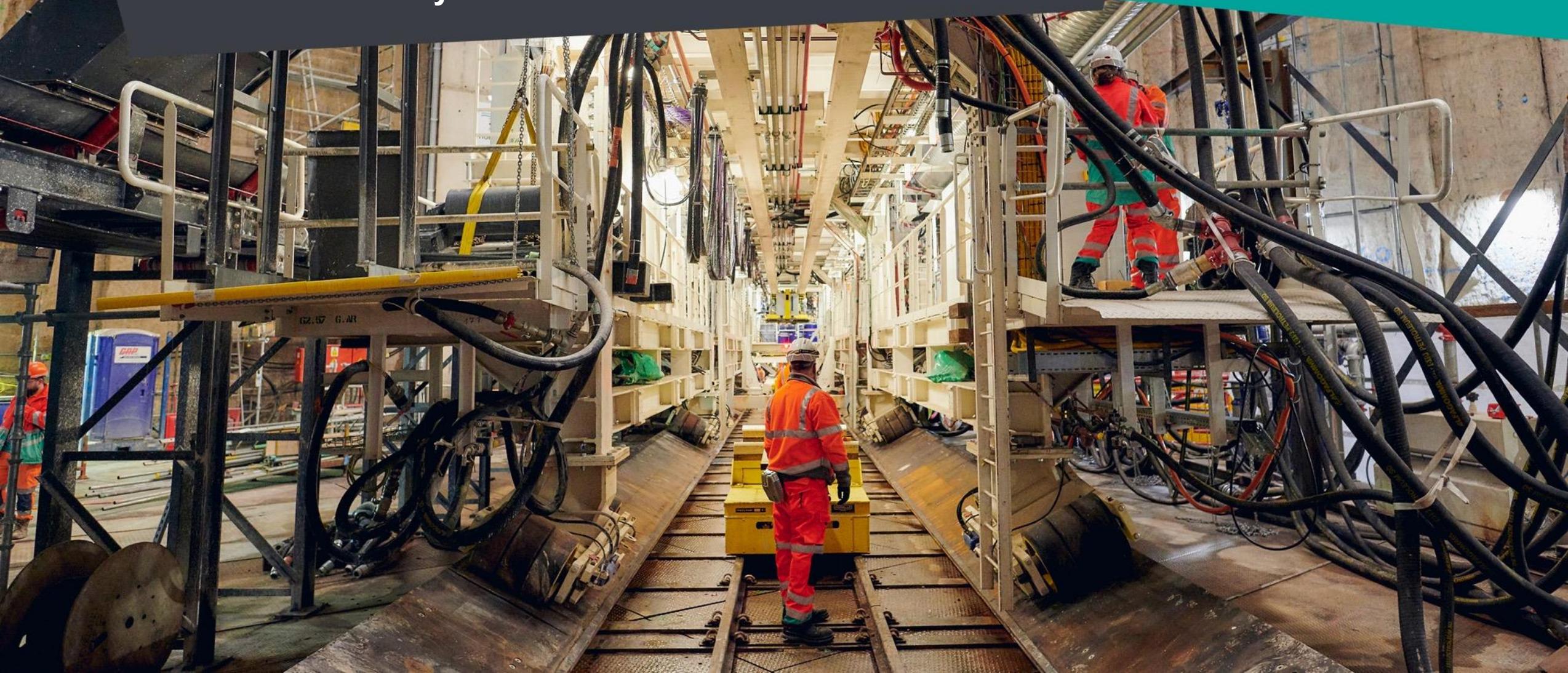
- Water temporary fill (flooding) removed
- Enclosure wall completed
- Intermediate landing completed
- Concrete temporary plug removed
- Internal walls started
- Vortex drop tube installed
- Tunnel segments removal started

WHAT IS COMING NEXT?

June 2022 and beyond...



Tideway

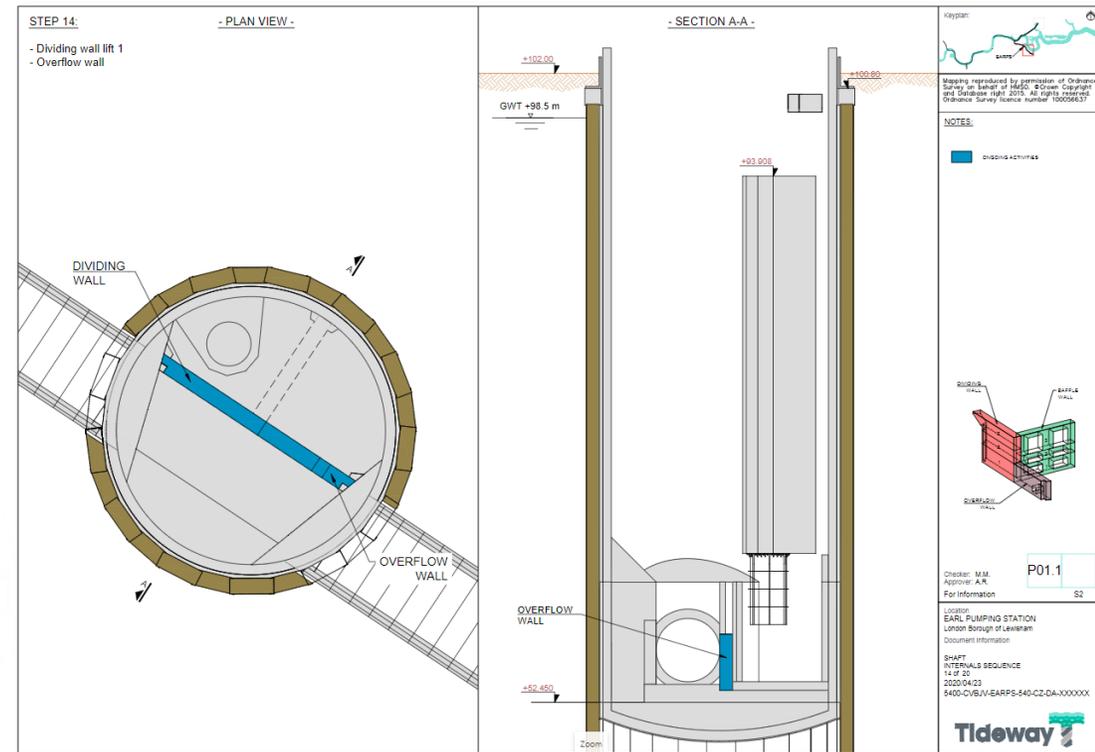
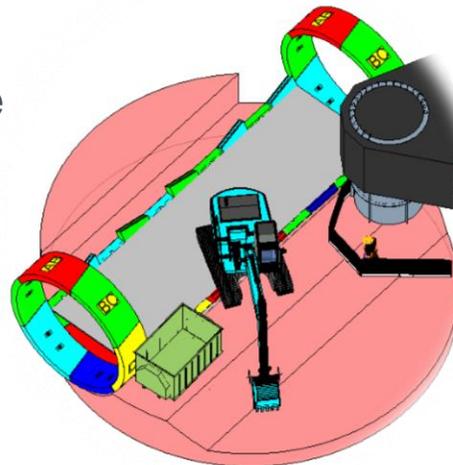


SHAFT WORKS



Tideway

- Tunnel boring being completed, we are now removing tunnel segments at the bottom the shaft
- We will have then to pause any activity on the shaft to allow tunnel secondary lining activities to take place, crossing the bottom of the shaft.
- Once tunnel secondary lining is complete, tentatively by the end of the year, we would be in position to resume and complete all the internal structures at the bottom of the shaft.

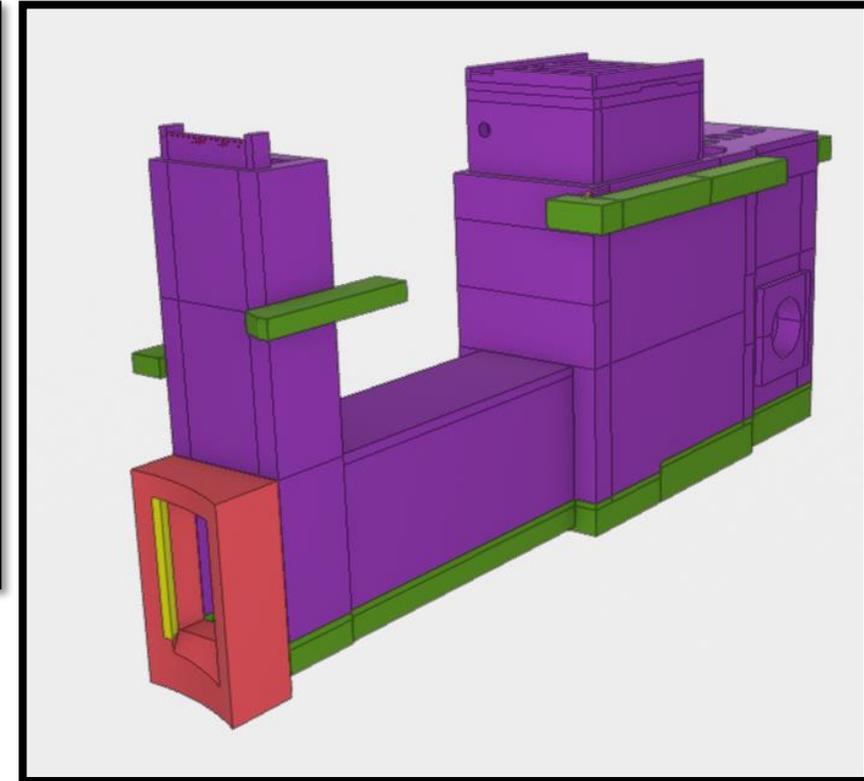
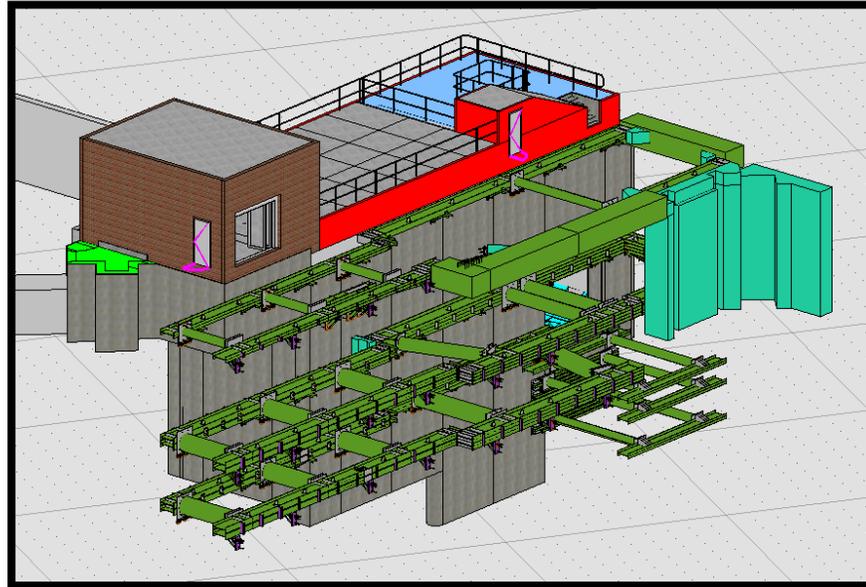


COMBINED SEWER OVERFLOW



Tideway

- We have started the excavation and the capping beam on top of the piles around the excavation.
- We will continue the excavation staggering with the installation of the required propping.
- Once the excavation is complete, we will continue by the end of the year with the concrete base wall and the first concrete walls.



THE NEXT NINE MONTHS...



Tideway

Programme Overview	2022												2023					
	June		July		August		September		October		November		December		January		February	
Shaft backfilling/segments removal	Green	Green																
Shaft invert removal												Green	Green					
Shaft internals														Green	Green	Green	Green	Green
CSO dewatering, excavation/propping	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue								
CSO structure works											Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue



Standard Working Hours

Extended Working Hours

(08:00 - 18:00) Monday to Friday
(08:00 - 13:00) Saturday

(18:00 - 20:00) Monday to Friday
(13:00 - 17:00) Saturday

AND BEYOND



Tideway

Programme Overview	2022			2023				2024	
	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CSO Geotechnical works									
CSO Civils works									
Shaft remaining internal and upper works									
Mechanical/Electrical/Instrumentation works									
Systems testing and commissioning									
Architectural and landscaping works									

ENVIRONMENT



Tideway



Matthew Gardiner, Environment Manager, CVB

NOISE & AIR QUALITY



Tideway



Month	Noise	Air Quality
	S61 Exceedances	24h PM ₁₀ Exceedance
Dec 21	0	0
Jan 22	0	0
Feb 22	0	0
Mar 22	0	0

NOISE MITIGATION



Tideway

Key methods for reducing noise on site:

- Planning construction works methodologies with noise impacts as a key consideration (Section 61 consent)
- Monitoring noise across site to identify exceptional noise sources
- Screening static plant where possible
- Screening known loud activities where possible (concrete breaking, floor sawing etc)
- Sourcing / developing low noise plant and equipment where possible
- Shutting down plant and equipment when not in use
- Off site fabrication of construction elements where possible
- Use mains electricity to power equipment where practicable
- Alternative concrete cutting techniques used to reduce noise when breaking



MITIGATION



Tideway



MITIGATION - making a claim if affected by Tideway's work



Who do I go to for advice?

For personal assistance contact our Helpdesk: 08000 30 80 80 or helpdesk@tideway.london

For independent advice contact Independent Advisory Service (IAS) Helpline: 0800 917 8845 or info@tidewayias.co.uk

How do I submit my claim?

The Helpdesk can submit your claim to the Independent Compensation Panel (ICP) on your behalf, or you can submit your claim direct to the ICP: admin@tidewayicp.london

You can download the claim form from the Tideway website:

www.tideway.london/help-advice/compensation-information/Independent-Compensation-Panel

LEGACY AND COMMUNITY INVESTMENT



Tideway



#SKILLSLONDON
@TIDEWAYLONDON

UPDATING LONDON'S VICTORIAN SEWERAGE NETWORK

London's sewerage system was designed by Sir Joseph Bazalgette in the 1860s, for a population of four million people. While the Victorian sewers are in excellent working condition, they struggle to cope with the demands of a growing population.

Just a small drizzle can cause them to discharge sewage into the River Thames from Combined Sewage Overflow (CSO) discharge points along the river.

In 2014, 62 million tonnes of sewage overflowed into the river. If we didn't do anything, this would only get worse, with London's population expected to reach 10 million by 2050.

We have a duty to clean-up the Thames for future generations - to enhance its recreational use, to protect the environment and to boost the river economy.



A CSO discharge point at night

The solution
Three separate schemes have been developed to address sewage overflows into the river:

- A £675m investment to improve London's five principal sewerage works.
- The Lee Tunnel - the deepest tunnel in London will deal with the largest combined sewer overflow point at Abbey Mills Pumping Station, which discharges into the River Lee.
- The Thames Tideway Tunnel will deal with the 34 most polluting combined sewer overflows along the River Thames between west and east London.



Thames Tideway Tunnel
The Thames Tideway Tunnel is a 25 kilometre interception, storage and transfer tunnel running up to 65 metres below the river from west to east London. It will be 7.2 metres in diameter and have a capacity of 1.6 million cubic metres.

The route for the main tunnel generally follows the River Thames from west to east London, where it will connect to Thames Water's Lee Tunnel and transfer sewage to Beckton Sewage Treatment Works.

London | 08000 30 80 80 | info@tideway.london

@TidewayLondon

Tideway East staff have been continuing our CVB commitment to volunteering...

- The Ahoy Centre charity in Deptford supports disadvantaged children and adults through water sport
- Tideway staff took part in 5 km indoor rowing and a 5 km walk as part of the **AHOY5KMay** challenge
- Staff from the Deptford site did a 5 km Run as well



STEM Activities

- Volunteers joined Tideway partner charity London Youth Rowing to support pupils as part of their Life Skills programme, on and off the water
- Tideway teams will be taking part in the Oarsome Challenge to raise funds for London Youth Rowing on 7th July



Greenwich-Tideway received thanks from the **Creekside Education Trust in Deptford** for a STEM session delivered to year 7 students from the borough

- Tideway East have been collaborating with charity 15billionebp for their Building Opportunities and Skills Seminars (BOSS Day) school events. Staff delivered several sessions to 14 and 15 year olds on CV writing, interviews, presentations and identifying skills for the workplace
- The Tideway Environmental team also collaborated on a new environment jobs theme for their World of Work programme for primary school children



Volunteering & Fundraising

- Staff took part in another Thames 21 foreshore clean up, this time Putney MP Fleur Anderson was in attendance supporting the Thames 21 Citizen Science project to stop wet wipes being flushed down toilets.
- Construction Superintendent Bryan Williams walked from Twickenham to excel to mark the start of Construction Week. Construction Sport Foundation have raised £4356,00 of their £5k target as of 14 June
- The first intrepid member of staff, Pierre-Edouard, has announced he will be running the London Marathon this Autumn, raising funds for the Wellchild charity
- Tideway east sites raised over £400 through bake sales for Lighthouse Club - The Construction Industry Charity that supports bereaved families and raises mental health awareness



CONTACT DETAILS



- If you do have any questions or enquiries, please contact the Tideway Helpdesk:
- Telephone: **0800 030 80 80**
- Email: **Helpdesk@Tideway.London**

THANK YOU



RECONNECTING LONDON WITH THE RIVER THAMES

[#SuperSewer](#)

www.tideway.london