



Thames Tideway Sewer – West (UK) Waterproofing

Country	United Kingdom
Type	Sewer
Client	Tideway (Bazalgette Tunnel Limited)
Main Contractor	BMB Joint Venture (BAM Nuttall Limited, Morgan Sindall Construction and Infrastructure Limited & Balfour Beatty Group Limited)
Execution of the work	Renesco UK Ltd.
Designer	Aecom, Arup, Atkins, Mott MacDonald, OTB® Jacobs
Construction Period	2021 – 2022

Project Description

The 25km tunnel beneath London, the 'super sewer', will run from the Acton Storm Tanks in West London to the Lee Tunnel at Abbey Mills in East London, with most of the tunnel being under the River Thames. The flow from over 30 combined sewer overflows (CSOs) will be diverted from the sewerage network into the main tunnel, where it will flow by gravity to the existing Lee Tunnel. From there it will run to the Tideway Pumping Station, to be pumped to Beckton sewage treatment works. The main tunnel construction uses Tunnel Boring Machines (TBMs). Additional works will intercept the CSOs and connect them to the main tunnel.

The seven-kilometer West section of the project stretches across seven sites from Acton in West London to Wandsworth in Southwest London.

Scope of Service

Supply & Installation of waterproofing sheet membrane system under pressurized water conditions at Carnwath Road Riverside (CARRR) for the connection tunnel to the Main Tunnel B (MNTLB), parallel to ongoing works at Dormay Street (DRMST) & King George's Park (KNGGP) & Hammersmith Pumping Station (HAMPS) & Barn Elms (BAREL) & Acton Storm tank for joining water barriers and serve Injection works.

- Sheet waterproofing, PVC-P, 2mm & Anchor Installation for the Connection Tunnel
- 1'200g/sqm PP protection geotextile
- PVC-P water barriers, 500/30/6
- Contact grouting injection tubes
- Supply & Installation of BA anchors
- Termination at TBM segments and pre-cast-concrete-elements
- Vulcanization/ Jointing of elastomer (rubber) based waterstops, FAE 50, FM 350
- Thermal Welding/ Jointing of PVC- based waterstops
- Grouting/ Injection works with PU and acrylic resin



1. Tideway West/ Carnwath Road Riverside (CARRR)
2. Vulcanization of elastomer waterstop at Hammersmith-HAMPS
3. Grouting/ Injection Works