







This elegant design brings together past, present and future. Hi-tech materials and forms work together with traditional elements to create a unique link that connects two areas with different and strong personalities; modernism and innovation in Nine Elms versus classicism in Pimlico.

Form, function and structural efficiency are combined in an innovative, elegant and attractive solution that meets all the challenges proposed in the Project

Pseudo-elliptical ramps (just below grade 5%) for pedestrians and bicycles solve the problem of navigation vertical clearance the while offering a comfortable slope even for cyclists. Their shape provides nice views with a continuously changing perspective of the opposite banks and the river. They are complemented with stairs and lifts at both sides, thus giving an easier access to people with reduced mobility. Versatility is sought: the bridge harmoniously integrates quick commuters and relaxed wanderers. The ensemble of the ramps and stairs conforms an interesting space at each landing point of the bridge; on the North side, an access from the park, absolutely respectful with the strong character of the old part of the city; on the South side, a modern square, envisaged as an open air meeting point, prepared to welcome new spontaneous activities and to offer a leisure place to rest and relax.

The antisymmetric layout of the bridge facilitates the connection with the ramps and generates a continuity line for the flow of pedestrians and cyclists. In addition, the 9m width deck allows enough space for comfortable use by both groups. In order to enhance and optimize the functionality of the bridge, bike lanes are designed to be variable in width depending on the time of the day. This is performed through led signalisation. As the smart bridge it is intended to be, its hand-rail is topped with a flat surface provided with digital displays to have access to information regarding activities and scheduled events. From this strategic sightseeing spot, one can enjoy views of new London's waterfront.

An innovative suspension structural scheme is chosen in order to minimize the bridge deck depth, thus reducing slopes at the ramps. Only two supports (180m apart!) are conceived, leaving more than 150m for navigation even during construction. The suggestive curved layout of the bridge leads to an eccentric suspension of the deck from a unique main cable, which results in a visually attractive, exciting and original solution. This suspension generates torque moments which in turn are compensated by the effect of radial cables placed at the hand-rail level. Therefore, these radial cables structurally work only because of the curvature in plan of the bridge!

Pavement in technological wood gives warmth and softness while being durable thanks to its technological treatment. Furthermore, combination of the cables with the white coating of the structure provides an elegant and modern structure that reflects water movements and enhances brightness.

Resembling the old sail boats navigating the Thames, our suspension bridge proposal for Nine Elms-Pimlico Bridge seeks to be an iconic landmark for this new cosmopolitan district.