

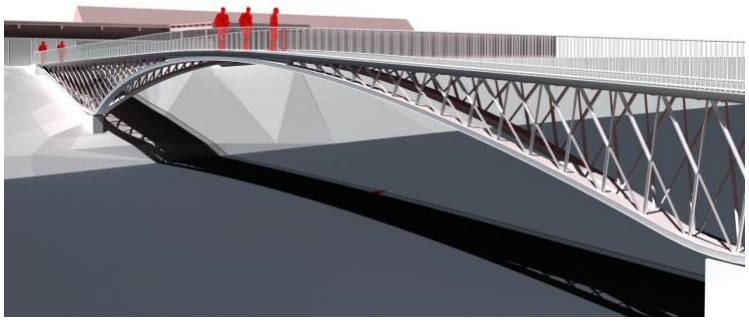
Migneaux Footbridge

Location : Poissy - Ile des Migneaux
Architect : Knight Architects
Client : GPSEO (Communauté urbaine Grand Paris Seine & Oise)
Scope : Design and construction monitoring
Date : 2024-ongoing

The future pedestrian footbridge will cross the arm of the Seine at the Île des Migneaux in Poissy. The new crossing will provide step-free access dedicated solely to the Migneaux swimming pool, located on the island.

Given the difficult site access and poor ground conditions, the proposed structural solution remains very similar to the existing structure. An arch made up of two cantilevers, each with two supports, transfers only vertical “push-pull” forces to the foundations.

The proposed structure is a three-span arch, with successive spans of 8 m, 42 m and 8 m. The main arch sits within the visual corridor framed by the densely planted riverbanks, giving it a clear and legible form, while the two side spans are partly hidden by vegetation.



The footbridge is designed to blend into the landscape and natural setting of the Île des Migneaux. The arch form makes use of the height available between the deck and the bank, creating a slender and structurally efficient structure while keeping the navigation clearance beneath it free, at 6.8 m high by 11 m wide. Structurally, it works as two steel girders fixed at the banks and continuous at midspan, allowing great slenderness at the centre while maintaining the same clearance as the existing footbridge. The two girders are inclined and meet at the two supports closest to the water, giving the footbridge torsional stiffness.

While access on the north bank is directly at grade, access on the south bank is either by a staircase in line with the footbridge or by a ramp with accessible gradients and a resting point overlooking the landscape. This path winds through a densely planted garden before reaching the entrance gate on Avenue Émile Zola.

