Guildford Design Awards 2023 Submission Guildford Walnut Bridge Project

Address of the scheme

Walnut Bridge, Bedford Road, Guildford, Surrey, GU1 4SJ

Category of Project

Public Realm including soft (landscape) and/or hard works

Name of the Client

Guildford Borough Council

Architect, Design Consultants or Artist

Knight Architects

Key Contact

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Brief Description of the Project Including key features of the design

The Walnut Footbridge improves a vital east-west connection within the town masterplan, increasing capacity for pedestrians and cyclists travelling between the railway station and the town centre.

The existing bridge crossing the River Wey did not meet the current user demand and was particularly impractical for cyclists. The route from the station was set back behind the building facade line of Walnut Tree Close, which made it difficult to find, and created a potential security hazard at night. The new bridge offers greater visibility and an improved user experience for all.

Designed by Knight Architects, the bridge features an understated, modern aesthetic which has been developed to deliberately contrast with that of the historic neighbouring Billings printworks buildings to protect the clarity of their 19th century character. The simple beam is aligned to promote clear wayfinding across the river and designed to maximise headroom below.

The bridge provides a 4m-wide shared use deck, with steps down to the towpath level to give a direct connection to the River Wey. This unique feature of the urban realm is a significant asset to the scheme. As such, the bridge is designed to enhance the user experience below it, and to address key views along the river corridor. Here, pedestrians and river users will see the feature soffit - the 'forgotten elevation' of many bridges. The simple yet unique arrangement of the

structural ribs provides interest to users passing underneath the bridge, and offers a clean, well-detailed surface which promotes a high-quality urban realm along the river's edge.

The inclined surface of the outer creased edge beam catches the light, creating a slender elevation across the river. Sat atop, the parapet is formed of a regular array of vertical plates which provide solidity on oblique views and transparency in elevational views. The outer geometry of the parapet posts interpolates a subtle crease which adds visual interest as it undulates across the length of the bridge.

On the bridge, low level handrail lighting will provide an even wash of light over the deck to illuminate the pedestrian and cycle ways and the faces of oncoming users. As the river is a sensitive ecological corridor, light spill from the bridge and wider site is minimised.

Surrounding the structure itself, the eastern access and the descent to Bedford Plaza is defined by land ownership constraints. These inspired a 'pocket place' combining steps, seats, and planters along the ramp sides, with tall lighting totems and carefully co-ordinated brickwork.

The scheme combines a simple yet elegant bridge structure with co-ordinated approaches. In doing so, the Walnut Footbridge not only provides critical active-mobility connectivity across the river, but through careful detailing and a recognition of surrounding viewpoints, it contributes positively to the sensitive urban realm which it now forms a part of.

Photographs of the completed project



Image 1. Walnut Bridge with extender ramp at night



Image 2. Steps coming off the ramp on Bedford Plaza



Image 3. Structural Ribs



Image 4. View of the bridge from the River Wey towpath

Further images showing the fabrication of the new structure: <u>Walnut Footbridge - In Progress - Bridges - Knight Architects</u>

Plans, Sections and Elevations

Find attached to the submission separately



