

A90 Burnshot Bridge

Progress Update No 9

8 March 2018

Introduction

This note provides an update to Progress Update No 8.

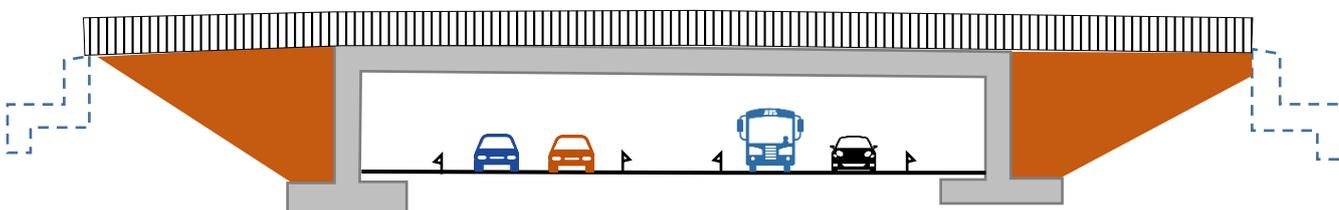
New Burnshot Bridge

Following a meeting of the Full Council on 22nd February, the proposed 2018/19 capital budget which includes for the construction of the bridge, was approved.

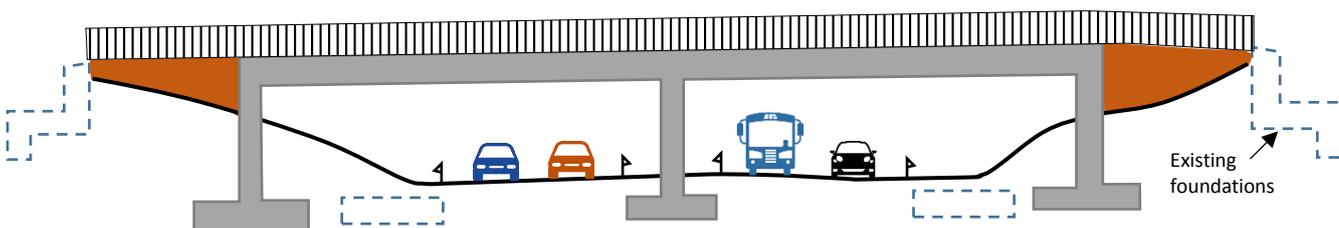
The first stage of the stakeholder consultation process has now ended. A number of organisations commented on the proposals. The main outcome of the consultation was that further consideration must be given to how pedestrians and cyclists will access the shared-use space, and how it links into the existing infrastructure. As a result, we will now engage further with our Active Travel team, to consider the feedback received, and to finalise the road layout over the bridge (lane and footpath widths, etc). This process has already started, and it is expected that some relevant stakeholders will be asked for further input on a revised proposal.

Our consultant, AECOM, have now completed a feasibility report detailing the most appropriate structural forms for the bridge. They used the results of the geotechnical desk study, topographical survey and ecological survey to determine the types of bridge which are most appropriate for the site. These are:

- A single-span bridge with steel beams and a concrete deck.
- A 2-span bridge with a pier or columns located in the central reservation, utilising either:
 - Steel beams with a concrete deck, or
 - Concrete beams with a concrete deck



Schematic layout of single span bridge



Schematic layout of 2- span bridge

In arriving at these options, various constraints were considered, including aesthetics, buildability, durability, cost and maintenance requirements. Additionally, the existing service bridge, existing road alignment and old bridge foundations impact on the new bridge design. Various other structural forms were investigated but discounted. A significant re-alignment of the bridge was also discounted, as, whilst it would simplify construction and maintenance, the negative effects on the surrounding junction alignment would negate any cost savings.

The Contractor, Balfour Beatty is now pricing these proposed options, and considering the disruption each will cause during construction. Once this information is received and the road layout over the bridge has been finalised, the Council will decide on the final solution and progress the procurement and contract documentation.

Next Steps

Once the form of the bridge is chosen and the road layout is decided on, the process will be as follows:

1. With the assistance of our consultant AECOM, the Council will develop a specification for the new structure
2. This information will be used to tender for the detailed design of the bridge. Subject to a price being agreed, a contract will be entered into with the Contractor.
3. A site investigation including boreholes and trial pits will be completed to confirm the foundation solution.
4. Subject to agreeing a price, Balfour Beatty will be appointed to undertake the construction of the new bridge.

Timescales

Initial commencement estimates had assumed Autumn 2018 as the start date for construction. Since the approval of the budget, the Structures team have been approached to consider the improvement of cycle access to the National Cycle Network as part of the project. The feasibility of this is being assessed and any impact on timescales will be notified accordingly

Speed Limit Alterations

In the interests of improved safety for all road users, it is proposed to reduce the speed limit around Burnshot Bridge, typically to 40mph. This proposal affects the A90 Queensferry Road, Burnshot Road, and various other local roads near Kirkliston. A map is attached which details the extents of the proposed changes.

Footpath / cycleway

Construction of the new footpath/cycleway along the Northbound slip road is almost complete and on schedule to open in early March. Outstanding items are the installation of a new Burnshot Junction sign, white-lining work and pedestrian signage.

Temporary service bridge

Proposals for protecting cabling has been developed and presented to Scottish Power. If Scottish Power are agreeable, it may be possible to open the temporary service bridge to pedestrian traffic.