

LONG TIMBER REPLACEMENT SCHEMES—SCOTLAND

Client

Network Rail

Services

Principal Designer

Completion date

February 2023

Region, Location

Beauly— WCK, 302/023 (7/10 timbers)

Achanalt - KYL, 303/040 (9/18 timbers)

Lairds—ECN4, 090/261 (4/8 timbers)

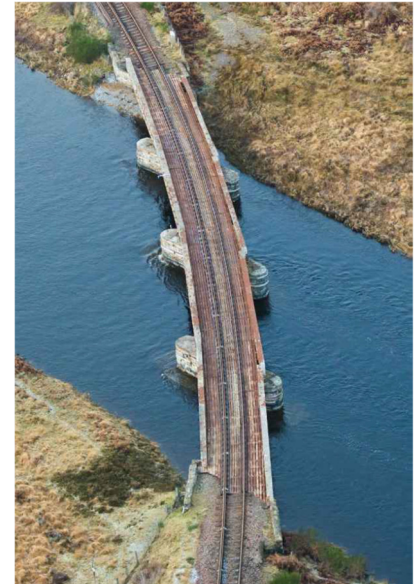
RBA were commissioned in September 2022 to develop a civils and track design works for Longitudinal Timber replacement package for 3no. Structures in Scotland, including the delivery of compliant Track Form A/B designs and associated Civils Documents to NR/L2/CIV/003 Issue 7:

Construction phase dates were prebooked, giving a tight design programme. Our team planned and managed the possession planning and site stage to allow site topo and visual surveys to take place, this gave the design engineers vital information about the existing arrangements allowing new compliant design proposals to be drafted.

Weekly progress/planning meetings allowed designers, contractors and clients to be in consistent dialogue, allowing any design or construction issues to be discussed and resolved timeously.

In total 20no. Life expired timbers were successfully designed and replaced throughout the three structures, It was not within the project remit to replace every long timber on each of the structures, which resulted in some restrictions when it came to full compliant design and tie ins, however new baseplates were able to be repositioned into compliant locations integrating new timbers with existing.

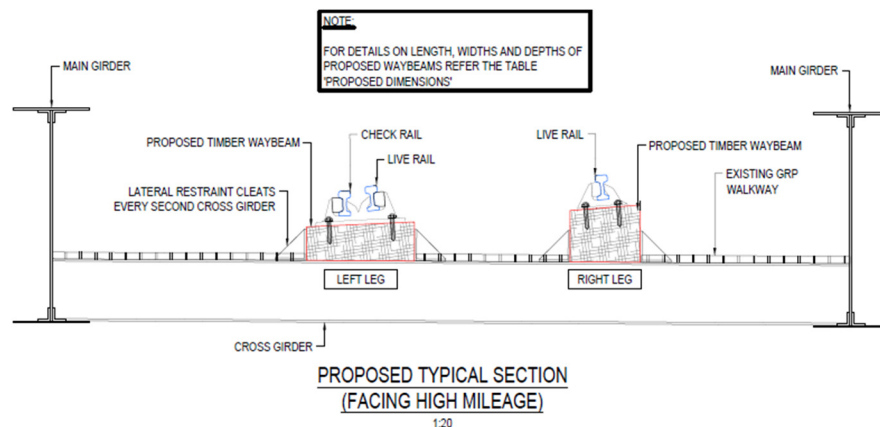
All works were completed successfully within the available site times with effective collaboration between the construction and design teams to implement solutions efficiently where any unforeseen issues arose, allowing works to continue as planned within the tight design/construction timescales.



Achanalt Viaduct:- 9/18no.



Lairds :- 4/8no. Timbers replaced



Achanalt 303/040: - Design Detail Section of Timber replacement

Design Snapshot;

- Topographical Survey
- Site Condition Surveys
- Track Form A/B's
- Civils Technical AFC drawings
- Steelwork inspection
- Timber specification
- Packing / Notching design