

Replace Bridge 147.5

Project Scope

The Alaska Railroad (ARRC) will replace an aging pony truss style bridge that spans the North Channel of the Knik River at ARRC milepost 147.5. The project replaces the seven-span open deck bridge with a new five-span ballast deck bridge.

The existing bridge is comprised of five 125-foot pony truss bridge spans and two 26-foot I-beam spans, one on either end. The new bridge is comprised of three 125-foot through-plate girder spans and two 26-foot ballast deck spans, one on either end.

Purpose and Need

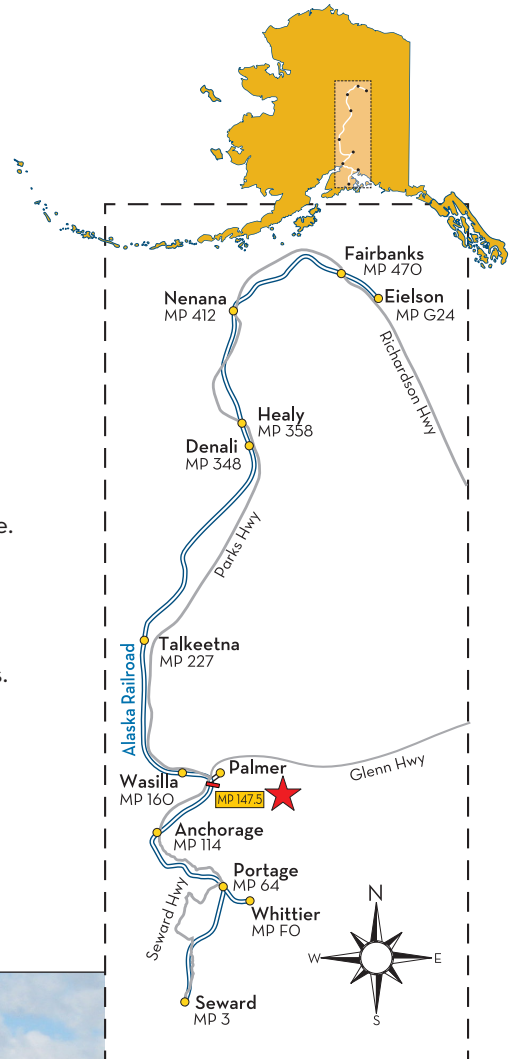
Originally used during the post World War II reconstruction efforts, pony truss bridges are approaching the end of their useful life. Accordingly, the Alaska Railroad will pursue replacement system-wide over the next few years.

Replacement helps to ensure railroad infrastructure can meet current and future demands for passenger and freight rail business.

The current bridge is considerably longer than needed. A shorter replacement reduces construction and maintenance cost.

Project Status

- Project studies, environmental review, design and permitting were completed in 2018.



The pony truss bridge at ARRC milepost 147.5 spans the North Channel of the Knik River.

PROJECT FACTS

- Locally sourced aggregate material was hauled to the site during fall 2018.
- Anchorage-based Brice, Inc. was awarded the contract to demolish the old bridge and construct the new bridge. Construction began the last quarter of 2018 and will continue into first quarter of 2019.

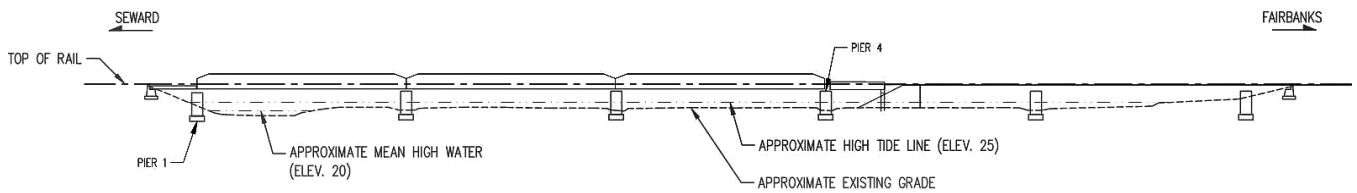
- Project completion is estimated by the end of the second quarter of 2019.

Cost and Funding

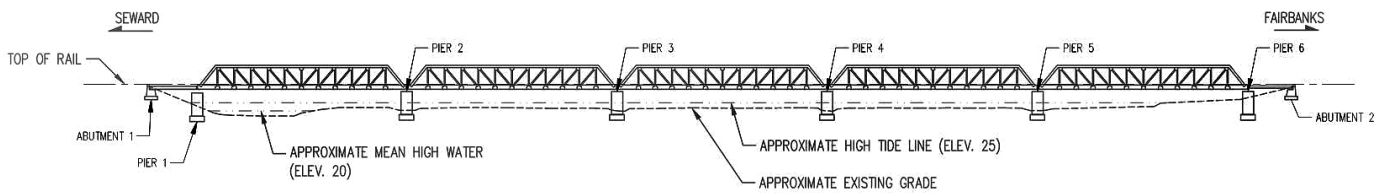
The \$5.65 million project is funded 100% by the Alaska Railroad.



Aerial shows bridge proximity to the Glenn Highway. Right: side view of the bridge deck.



Replacement Bridge Profile



Existing Bridge Profile