Whittier Branch Tunnel
Road-Rail Surface Maintenance

Background
From 1941 to 1943, the U.S. Army built a rail spur from Portage to Whittier as a key supply link for the World War II effort. Army engineer Anton Anderson led the construction. The resulting Whittier Branch includes a one-mile tunnel through Begich Peak and a 2.5-mile tunnel through Maynard Mountain.

Over time, after the war, Whittier’s economy developed as a gateway to Prince William Sound. The community’s ice-free port and proximity to Anchorage offers an essential link to support freight, fishing and cruising industries, as well as boating and other outdoor recreation.

Increasing transportation demands led to a decision to modify the tunnel to accommodate both rail and vehicle traffic. Construction began in 1998 and the tunnel opened to shared traffic in 2000. Named for the original spur engineer, the Anton Anderson Memorial Tunnel is the longest combined rail-and-highway tunnel in North America.

Project Scope
For the entire length of the Anton Anderson Memorial Tunnel, construction crews will remove asphalt from the rail flangeways (the space between the rail and concrete panels), replacing it with new rubber strips. The project will also maintain the surface profile of the concrete panels. Construction crews will use pump trucks to inject material underneath the concrete panels to fill voids and to lift panels to an even height.

Purpose and Need
The tunnel surface is maintained regularly. Periodically, more in-depth surface rehabilitation is needed to ensure this transportation infrastructure remains a safe, enduring asset.

Replacing asphalt with rubber in the rail flangeways will allow Alaska Railroad crews to more quickly perform routine maintenance, such as track inspection and general repair to rails and hardware. Faster maintenance will decrease traffic delays due to down time. Maintaining an even, supported concrete surface will prevent panels from rocking, shifting and cracking under the weight of a train, thus improving transportation safety and efficiency.

Project Status
• Project planning was accomplished in 2020, in coordination with the Alaska Department of Transportation & Public Facilities (ADOT&PF).
• Project construction work was bid in early 2021, with the contract awarded to Granite Construction.
**PROJECT FACTS**

- Construction will occur from March 8 to April 30, 2021, prior to the expanded summer tunnel operating hours. Work will take place at night to minimize traffic disruption. The tunnel will close two hours earlier than regularly scheduled during weekdays, Monday through Friday. Weekend tunnel operating hours will not be impacted.

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**Cost and Funding**

The project budget is approximately $3 million, funded by a Federal Highway Administration (FHWA) grant through the ADOT&PF.

**More Information**

Email questions to Public.Comment@akrr.com.

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**Replacing asphalt with rubber along rail flangeways**

- **Above:** Asphalt in the rail flangeways is broken up before removal.
- **Right:** Flangeways are cleaned before the rubber infill is installed, as depicted in the photo at far right.

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**Maintaining an even, supported surface profile for concrete panels**

- **Left:** An example of a dip in a concrete panel that requires repair.
- **Above:** A graphical explanation of how dips and voids in concrete panels are filled and patched to ensure a surface profile that is even and at the correct height.