

Glenn Highway: Airport Heights to Parks Highway Rehabilitation and Incident Management Accommodations

Kinney Engineering, LLC

Project No: 001656/CFHWY00545 & 0A16056/CFHWY01033

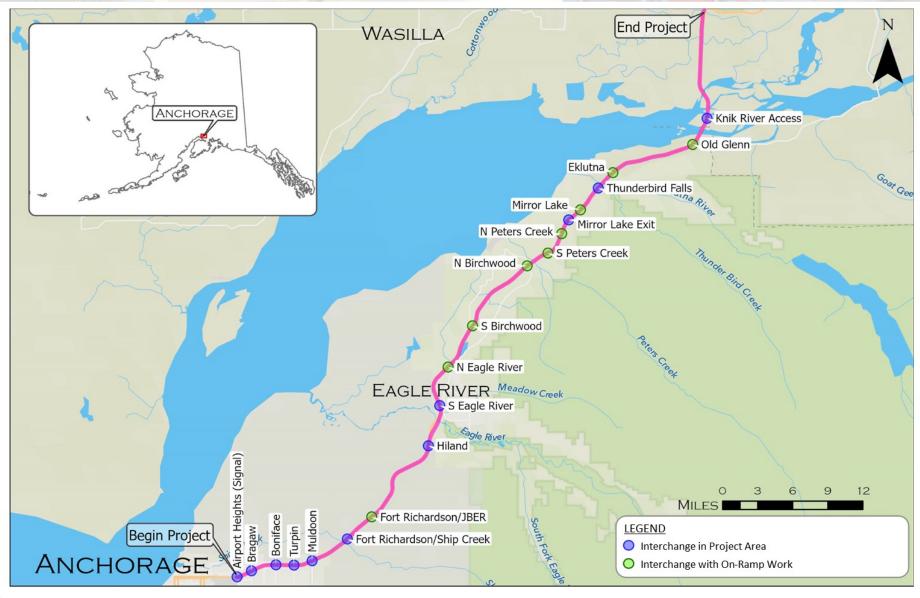
November 2024

Project Team

- Department of Transportation & Public Facilities
 - Chris Bentz, PE Project Manager
- Kinney Engineering
 - Art Johnson, PE Project Manager
 - Will Webb, PE, PTOE Project Engineer
 - Joann Mitchell, PE Public Involvement
- And many, many others



Project Area





Corridor History

- Continuous upgrades since the 1950s
- High Traffic Volumes
 - 60,000 vehicles per day (Muldoon to JBER)
 - 26,600 vehicles per day (Parks Interchange)
- Last repaved in 2017-2019



Integrated Corridor Management Study

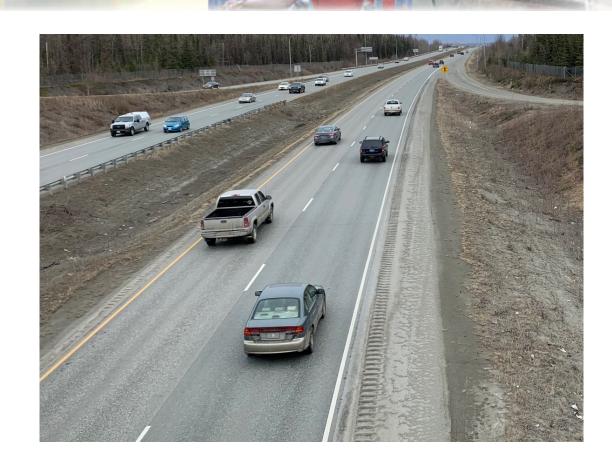
"Implement an integrated, multimodal system on the Glenn Highway corridor that improves safety and mobility, enhances efficiency and convenience of travel and supports local, regional, and state transportation objectives"

- 30 strategies supporting 4 goals.
 - 3 High-Priority Safety strategies are underway
 - Freeway On-Ramp Upgrades
 - Hiland Road Interchange Improvements
 - Artillery Road Interchange Improvements
- Incident Management Plan



Project Scope

- 3R
 - Resurface
 - Restoration
 - Rehabilitation
- Extend Service Life
- Pavement Evaluation
- Culvert Evaluation
- Capacity Analysis
- Safety Analysis with Cost Effective Solutions





Findings

- Pavement
 - Pavement base layers generally 30-50 years old
 - Primary issue is Rutting
- Drainage and Hydrology
 - Culvert Inspection
 - Fish Passage
 - Capacity





Findings

- Safety
 - Locations near JBER, South Birchwood, South Peters Creek, south of Muldoon have elevated crash rates
 - Most locations meet design standards
 - Southbound Muldoon Curve has non-standard grading
- Capacity Based on the Integrated Corridor Management Study Findings
 - 15 on-ramps would benefit from merge capacity improvements
 - Hiland Road and Artillery Road interchange improvements are proceeding as separate projects

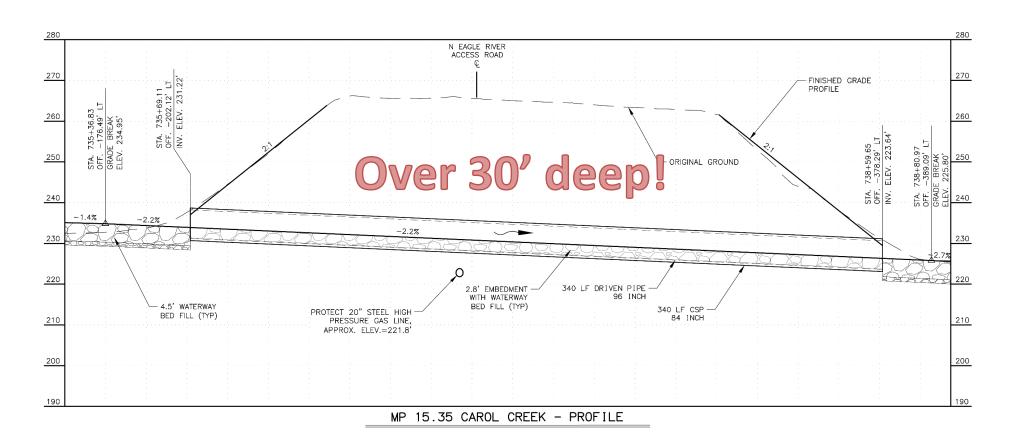


- Repave Mainline,
 Shoulders, select Ramps
- Re-grade curve south of Muldoon
- Spot Path Repaving



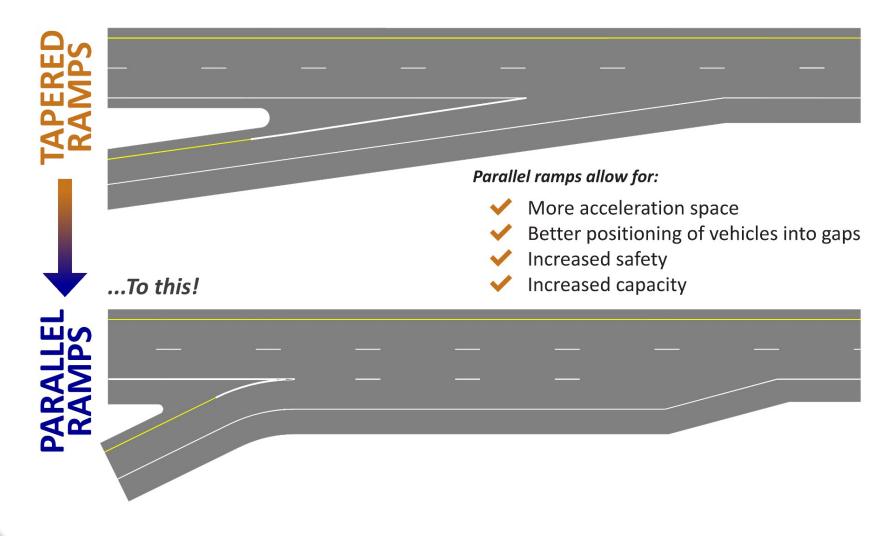


Culvert Work – Spot Repairs, Replacements, Upgrades



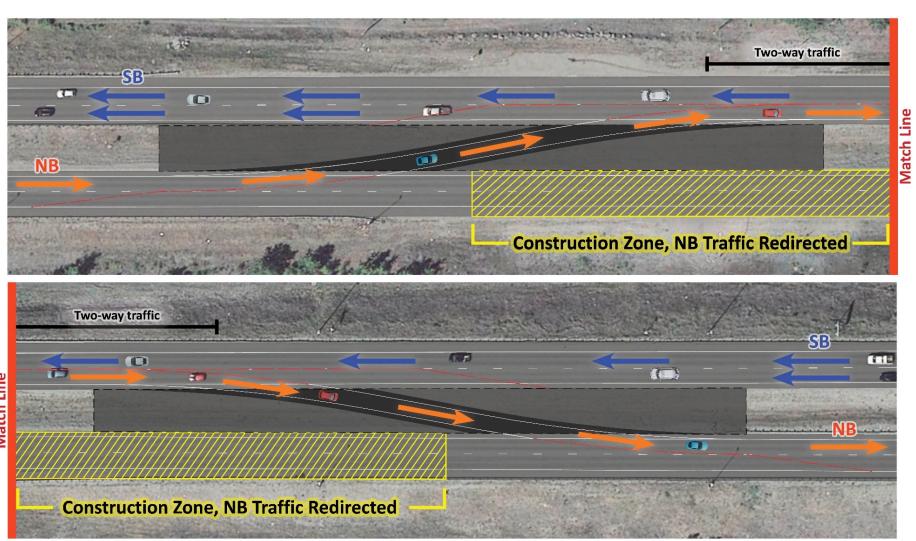


On-Ramps – Parallel Acceleration Lanes at 15 Locations

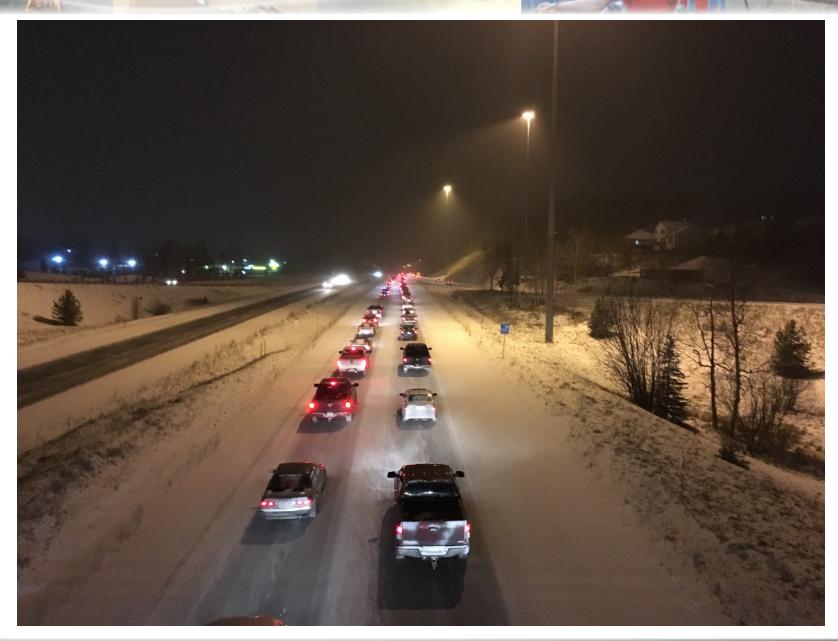




Median Cross-overs

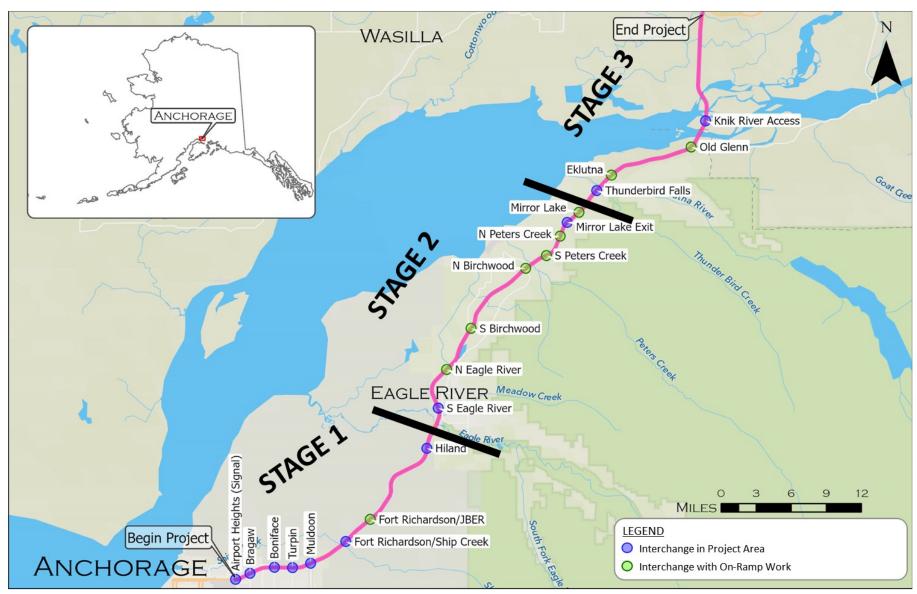


Getting it Built





Project Staging Plan





Project Schedule

