



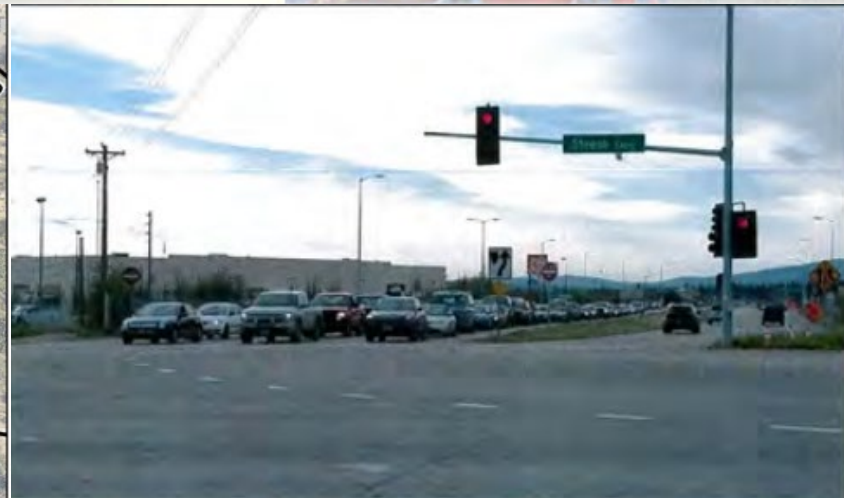
# Alaska Department of Transportation & Public Facilities

## Steese Expressway/Johansen Expressway Interchange Planning Commission Work Session

July 26, 2022

Our mission is to *Keep Alaska Moving* through service and infrastructure.

# Project Overview



**Purpose:** Enhance motorized and non-motorized mobility and user safety at the Steese/Johansen Expressway intersection and within the influence area of the intersection.

## Need:

- Excessive delay
- High profile ped/bike crashes between 2005 & 2014
- Critical node for commercial traffic heading to the North Slope

# Previous Effort

The Steese and Johansen Expressways intersection is ranked in the top 10 for entering vehicle volume in Fairbanks.

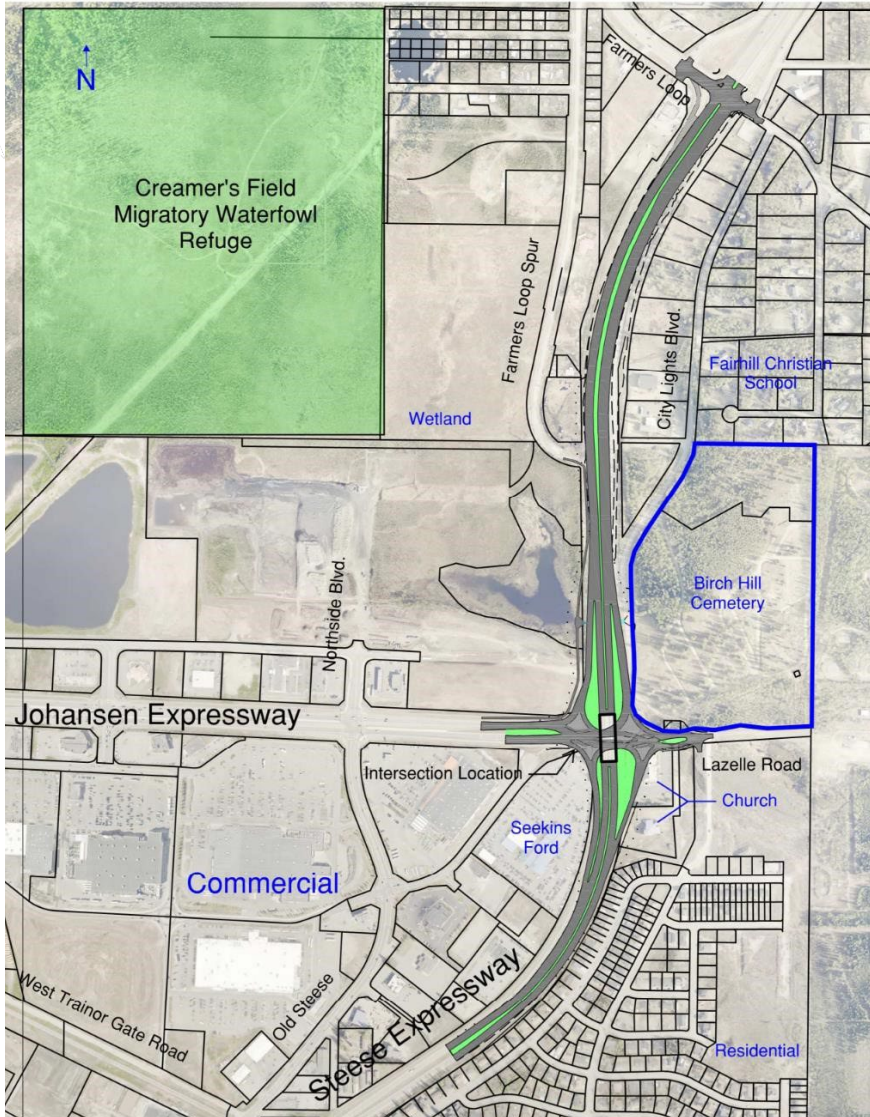
Alternatives considered:

- A. No Build
- B. Conventional Intersection
- C. Synchronized Split-Phased Intersection
- D. Partial Displaced Left-Turn Intersection
- E. Old Steese to Farmers Loop Connection\*
- F. Eastbound Left-Turn Flyover
- G. Tight Diamond/ Diverging Diamond Interchange
- H. Echelon Interchange
- I. Pedestrian Overpass\*

\* These were considered in conjunction with other intersection improvements.

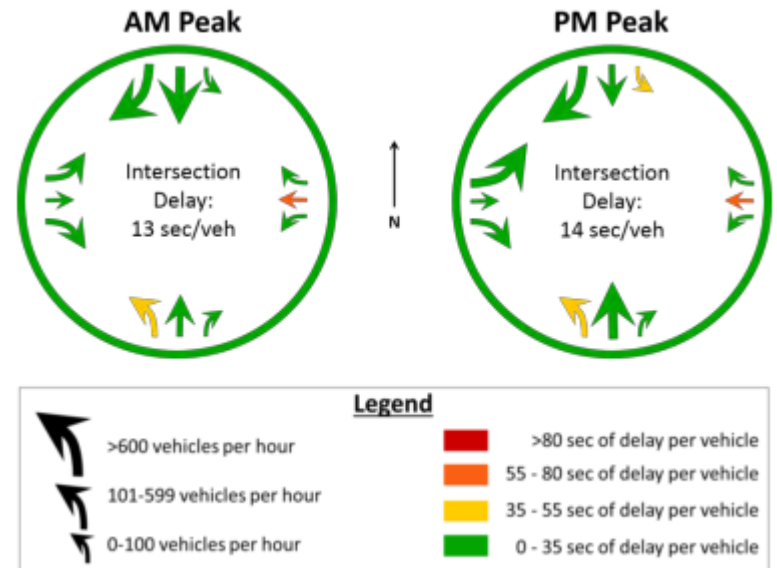


# Project Overview



The Diverging Diamond Interchange (DDI) is the preferred build alternative because it will:

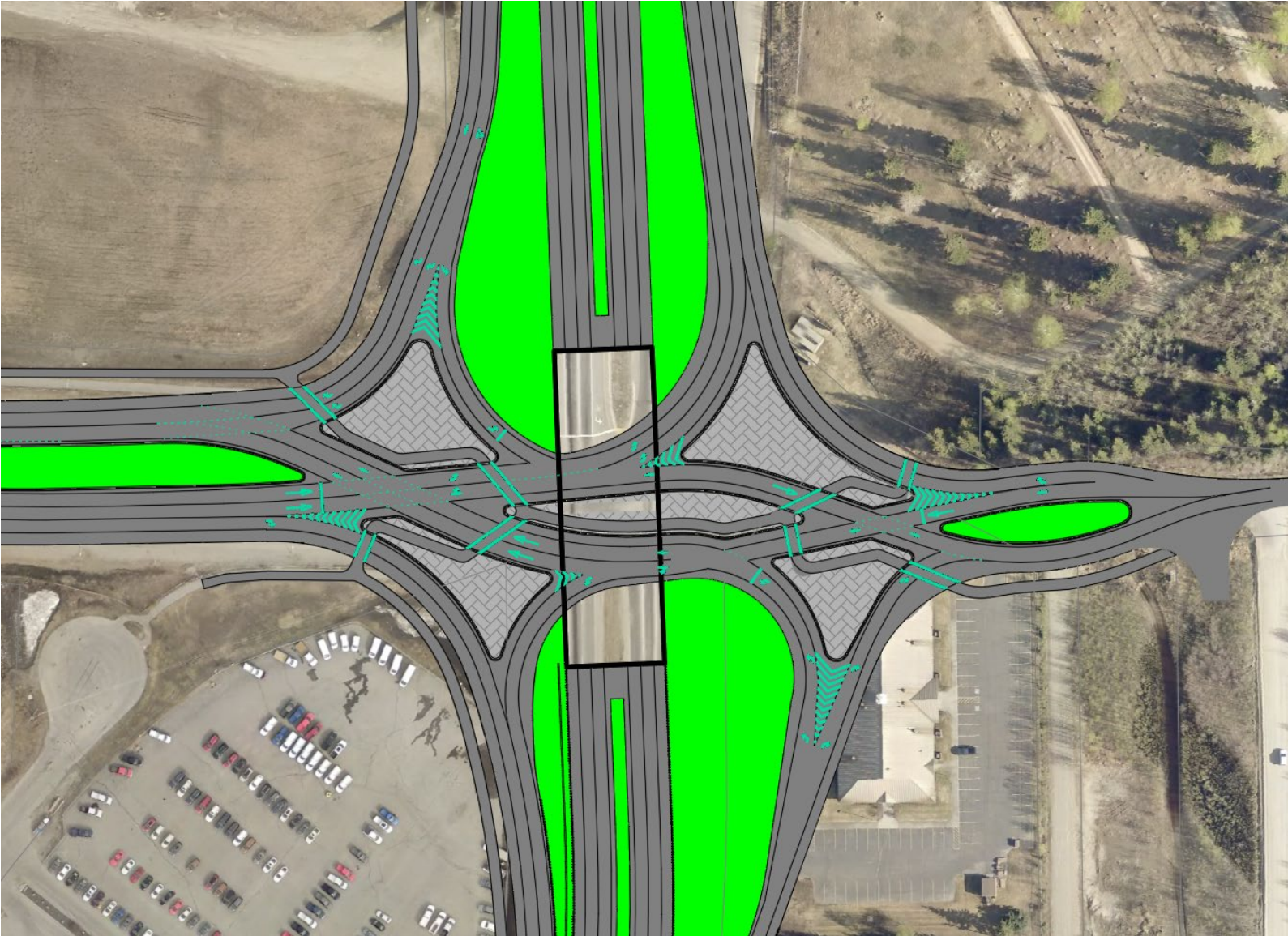
- Move vehicles better.
- Enhance local bicycle/pedestrian routes.
- Provide long term congestion and safety relief.



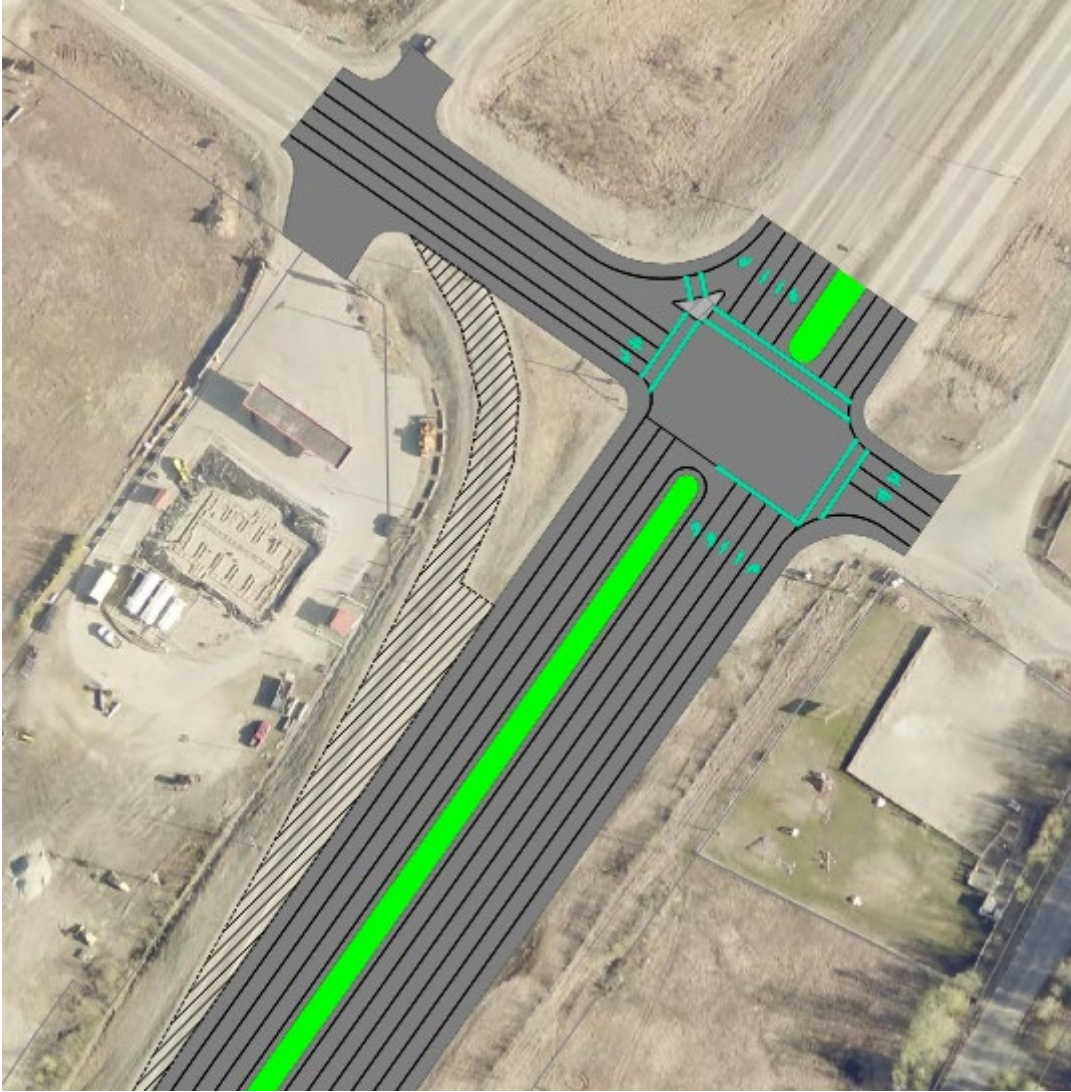
**Vehicle Delay**



# Project Overview - DDI



# Farmer's Loop Changes

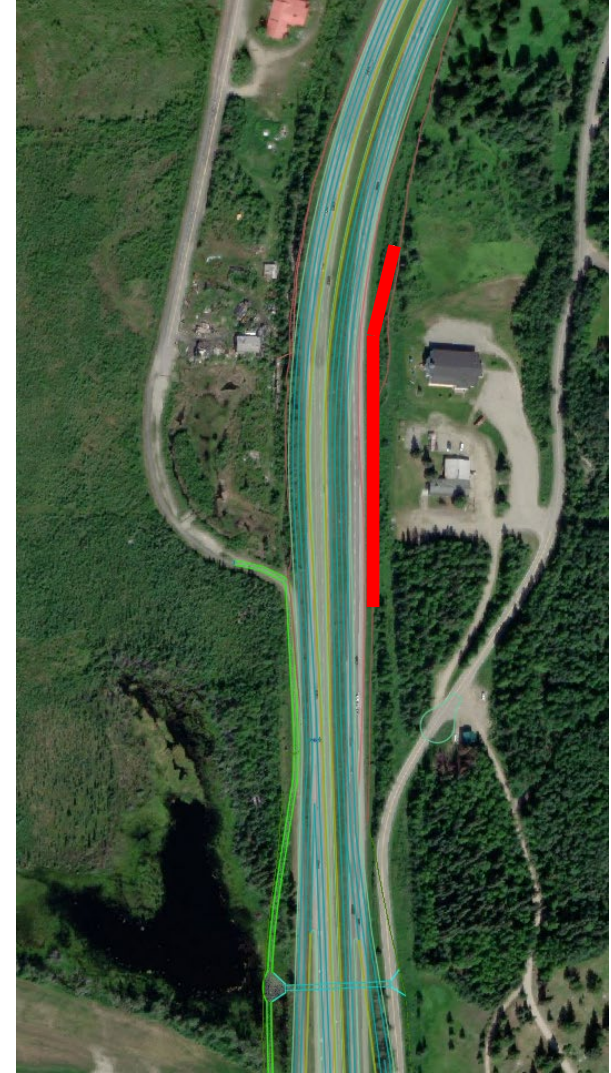
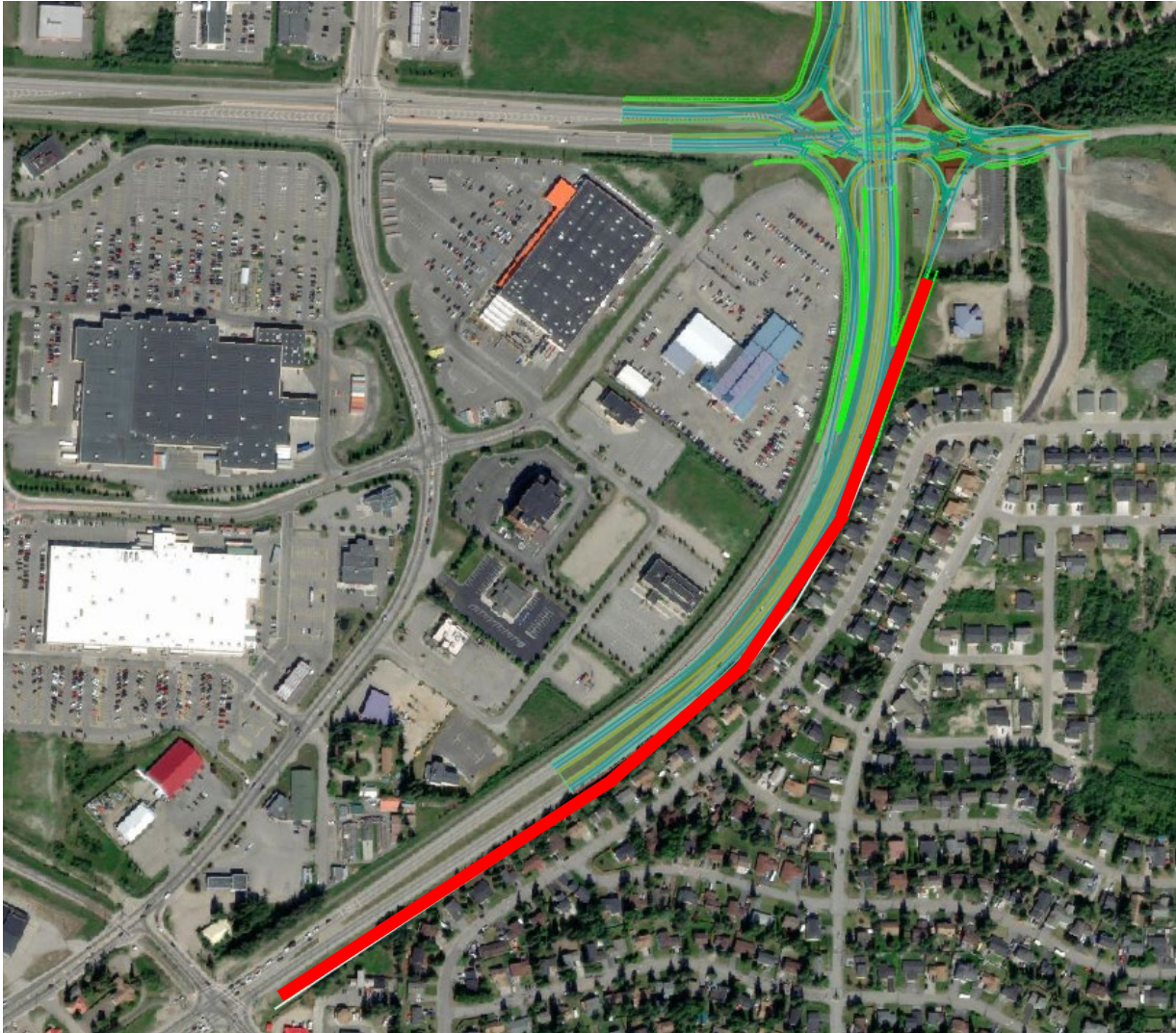


# Farmer's Loop Connection



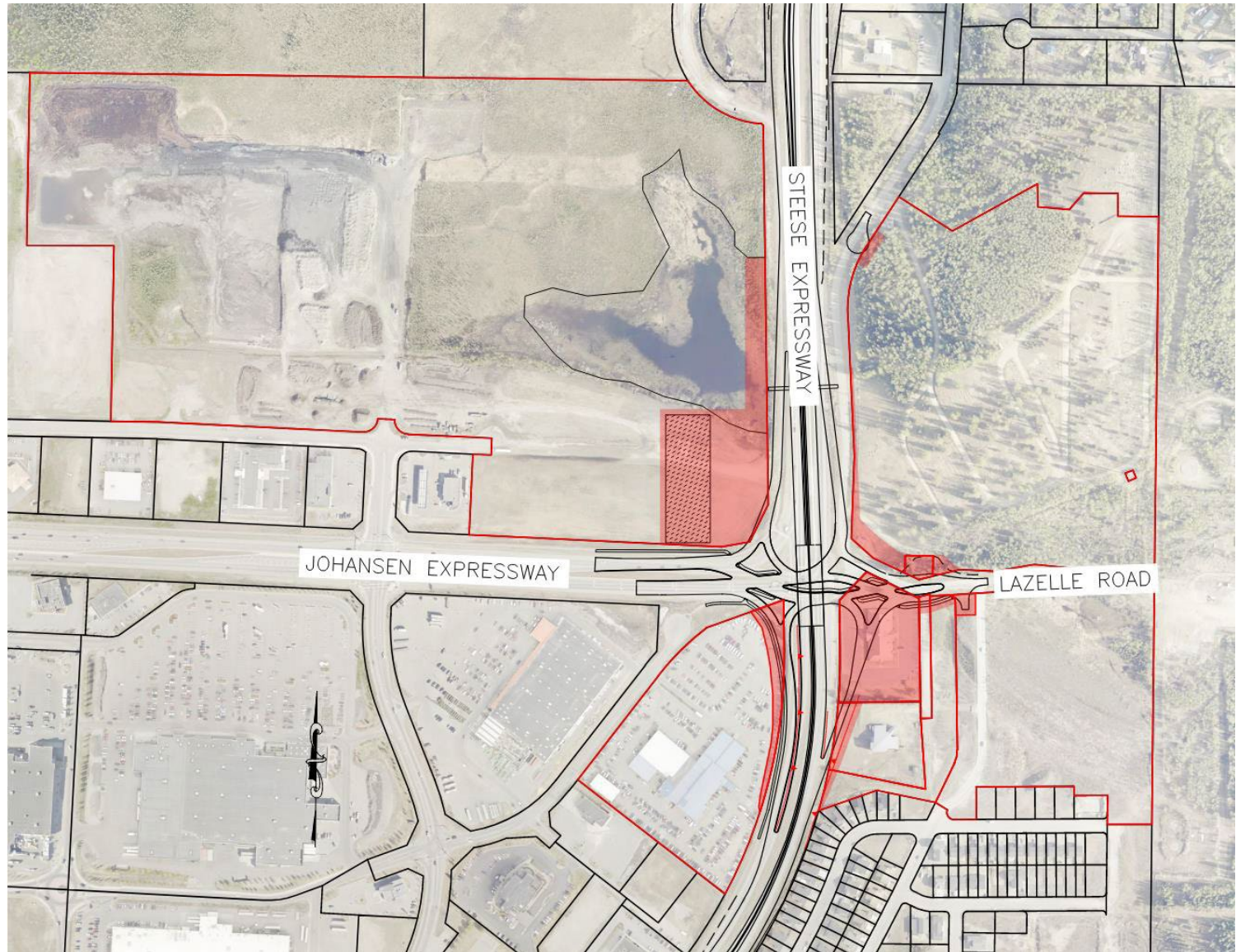
- Manage traffic during construction
- Permanent bike connection
- Still evaluating options to avoid impacts to residents

# Noise Impacts





# Right-of-Way Impacts



# Schedule & Costs

	Diverging Diamond Interchange	Farmers Loop Connection
Construction Year	2025 (Target)	2024 (Target)
Design Cost Estimate	\$5.5M	\$0.5M
Right-of-Way & Utilities Cost Estimate	\$4M	\$1M
Construction Cost Estimate	\$60M	\$10M
Total Cost Estimate	\$69.5M	\$11.5M

Cost estimates are rough order of magnitude level at this time.

# What's Next?



**Detailed Design**

**Right-of-Way Activities**

**Construction (2024/2026)**

**DDI Design Optimization Memo**  
(Jan 2022)

**Design Study Report**  
(complete July 2022)

**75% Design Review**

**Appraisals**

**Negotiations & Acquisitions**

**Farmers Loop Temporary  
Connection & Utilities**

**Interchange Construction**

# Contact Information

## Stay Informed!

### Project Manager Contact



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### Project Website



<https://dot.alaska.gov/nreq/steese-johansen/>

For individuals requiring TTY communications, please contact Alaska Relay at 7-1-1 or 1-800-770-8973.