

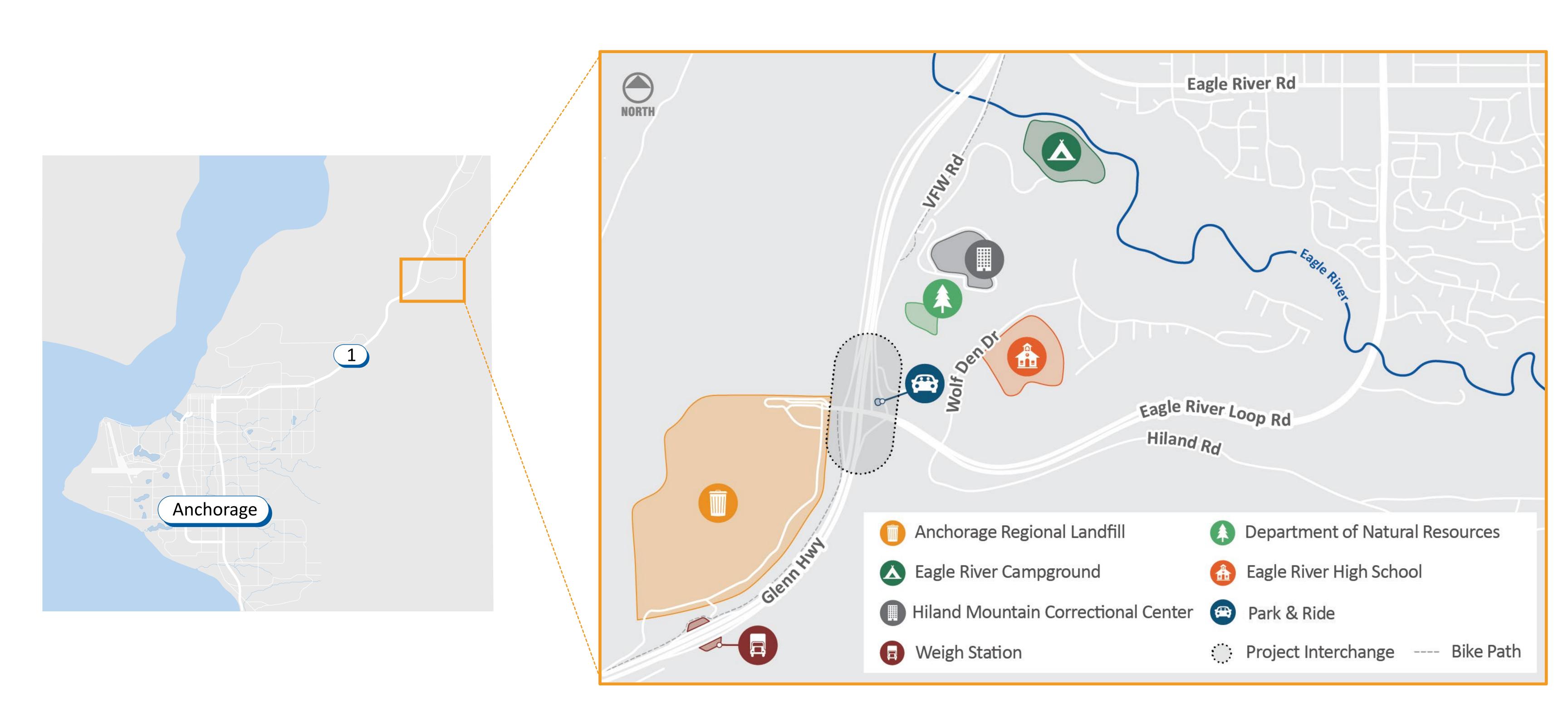
Welcome to the Glenn Highway & Hiland Road Interchange

Open House No. 1

January 23, 2025

Project Area





Project Purpose & Objectives





Purpose

- Improve Operations
- Improve Capacity
- Improve Safety for Motorized and Non-Motorized Users



Objectives

- Queuing Issues Mitigation
- Enhance Highway Merging
- Bridge Preservation

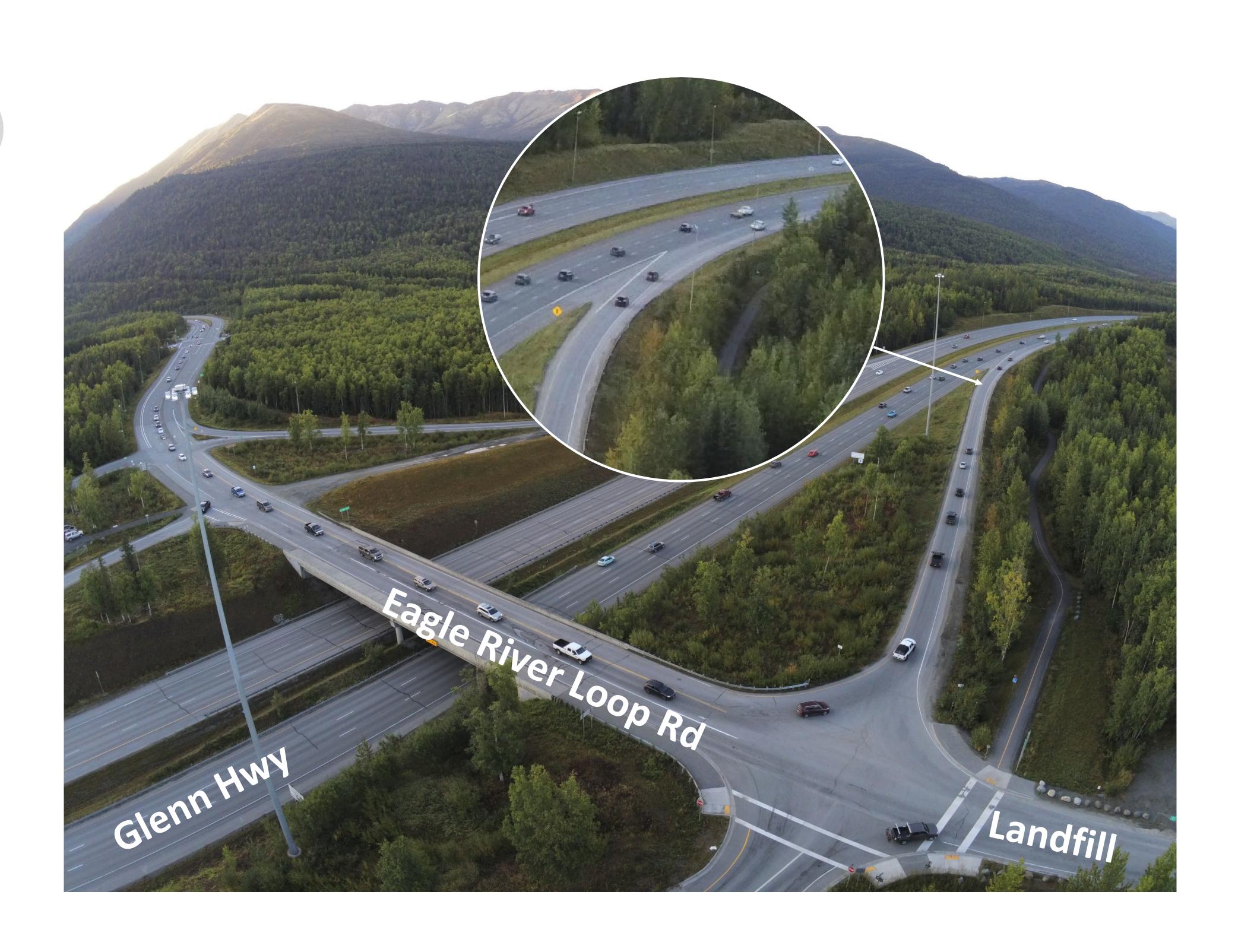
Existing Conditions - Traffic





Southbound On-ramp Merge:

- Tapered merge not current design practice
- Operates near capacity during a.m.
 peak
- Number of vehicles entering Glenn Highway constrained by upstream conditions:
 - Single entrance lane
 - Tight turn



Existing Conditions - Traffic







Westbound lane imbalance at signal causes:

Long westbound left-turn morning queues can be seen as far as Briggs Bridge (1.9 miles)



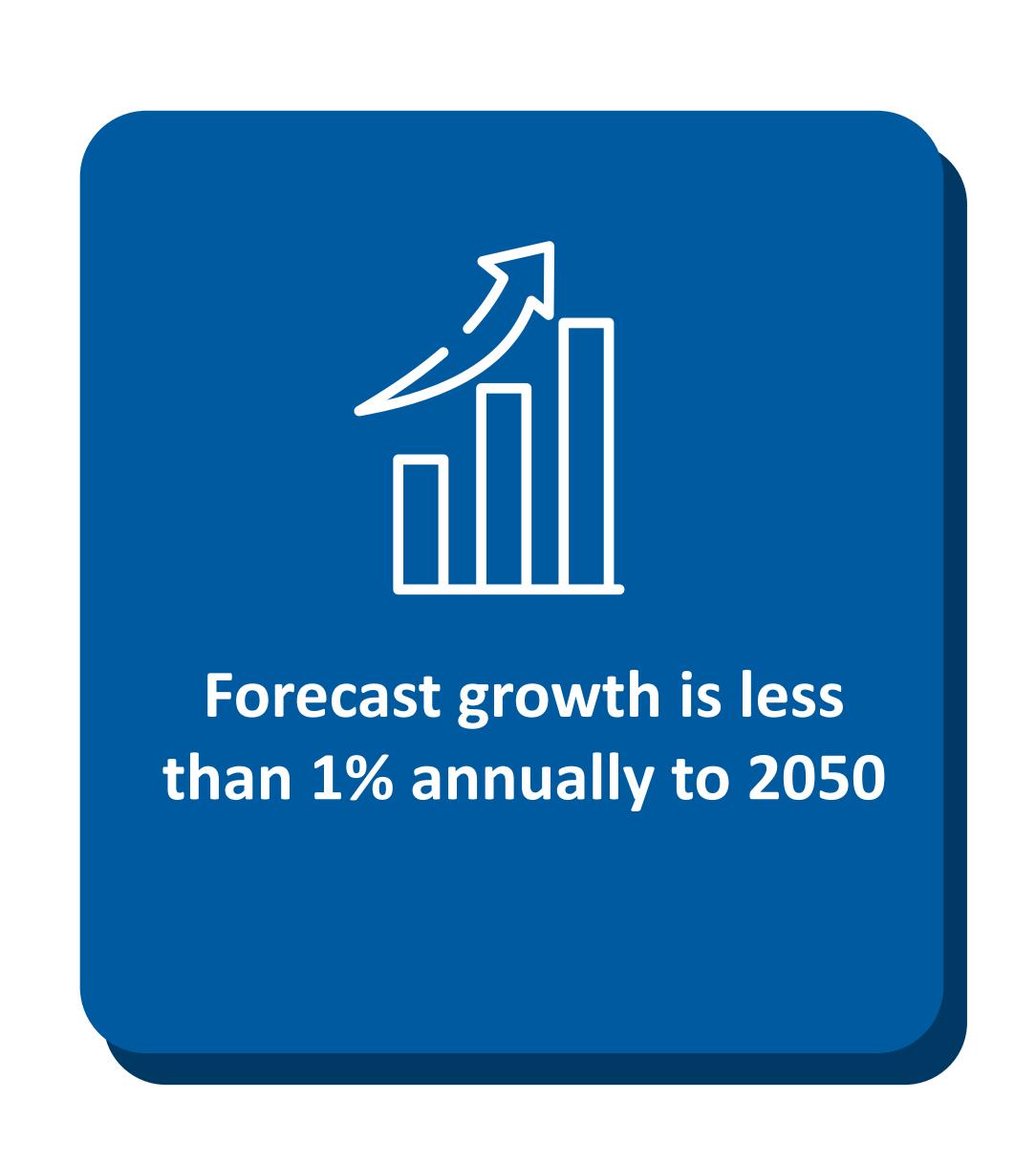
Rolling queue entering southbound on-ramp causes:

Insufficient gaps in the a.m. peak at ramp terminal intersections and VFW Road



No Build 2050







Alternative Constraints





The existing bridge must be retained & integrated into proposed solutions



Non-motorized and transit facilities must be maintained or enhanced



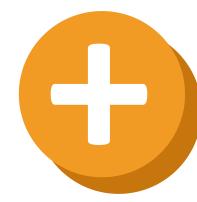
Solutions must address each of the traffic operational issues during the morning peak

- Balanced lane volumes on Eagle River Loop Road
- Increase capacity for westbound to southbound vehicles
- Increase southbound entrance ramp capacity



SB Ramp - Double Left





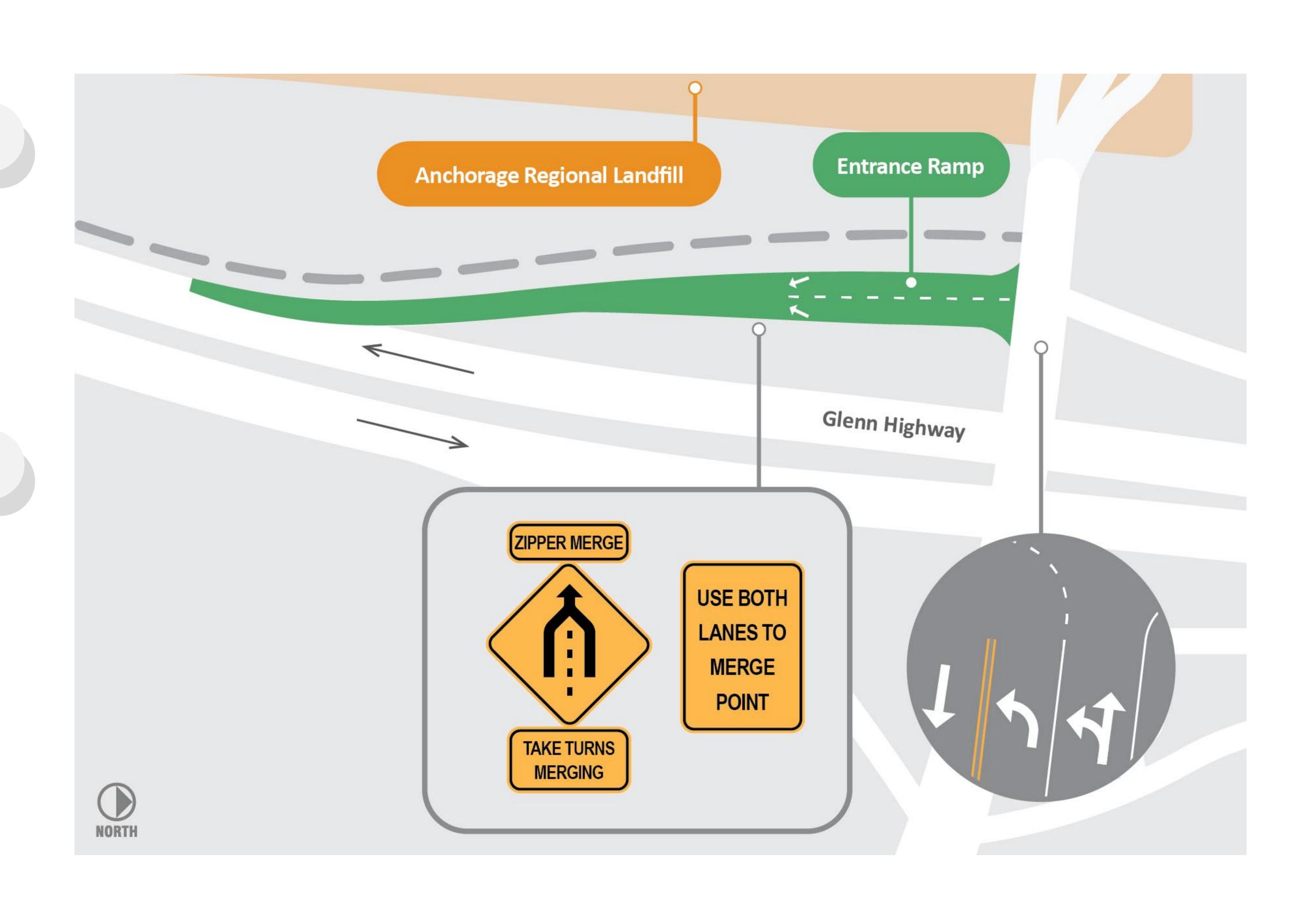
Positive

- Low impacts; ROW,
 Utility, Schedule
- Low cost



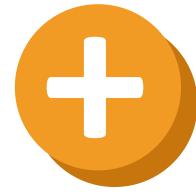
Negatives

- Does not fix operational deficiencies at other intersections
- Not favorable to truck operations



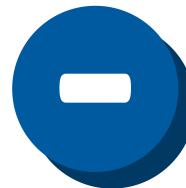
SB Ramp - Dual Loop Ramp





Positives

- ERLR traffic heading to Anchorage has no conflicts
- Grade separated pedestrian tunnel



Negatives

- Operations and safety for users on east side of interchange are not improved
- Major utility relocations
- Multiple full and partial acquisitions from JBER and MOA
- Major schedule and budget impacts



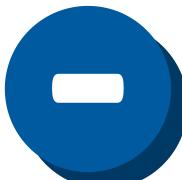
Divergabout





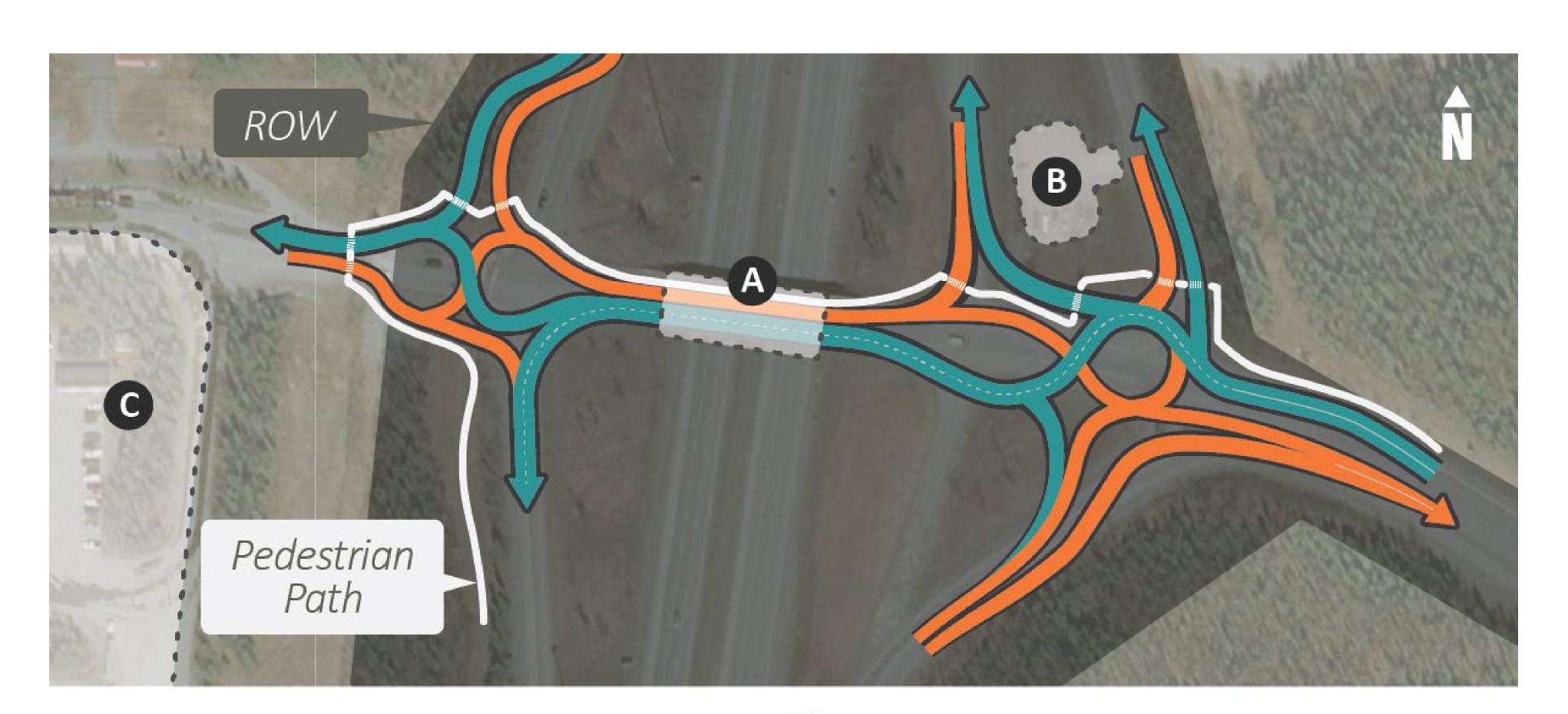
Positives

- Improves interchange operations and performance
- Pedestrian facilities have refuges and single lane crossings.
- Reduces or eliminates high-cost utility impacts



Negatives

- Small partial ROW impact at MOA Regional Landfill entrance
- First Diverging Diamond with
 Roundabout intersections in Alaska



- Eastbound Traffic Flow
- Westbound Traffic Flow
- A Existing Bridge Remains
- B Park & Ride
- C Anchorage Regional Landfill

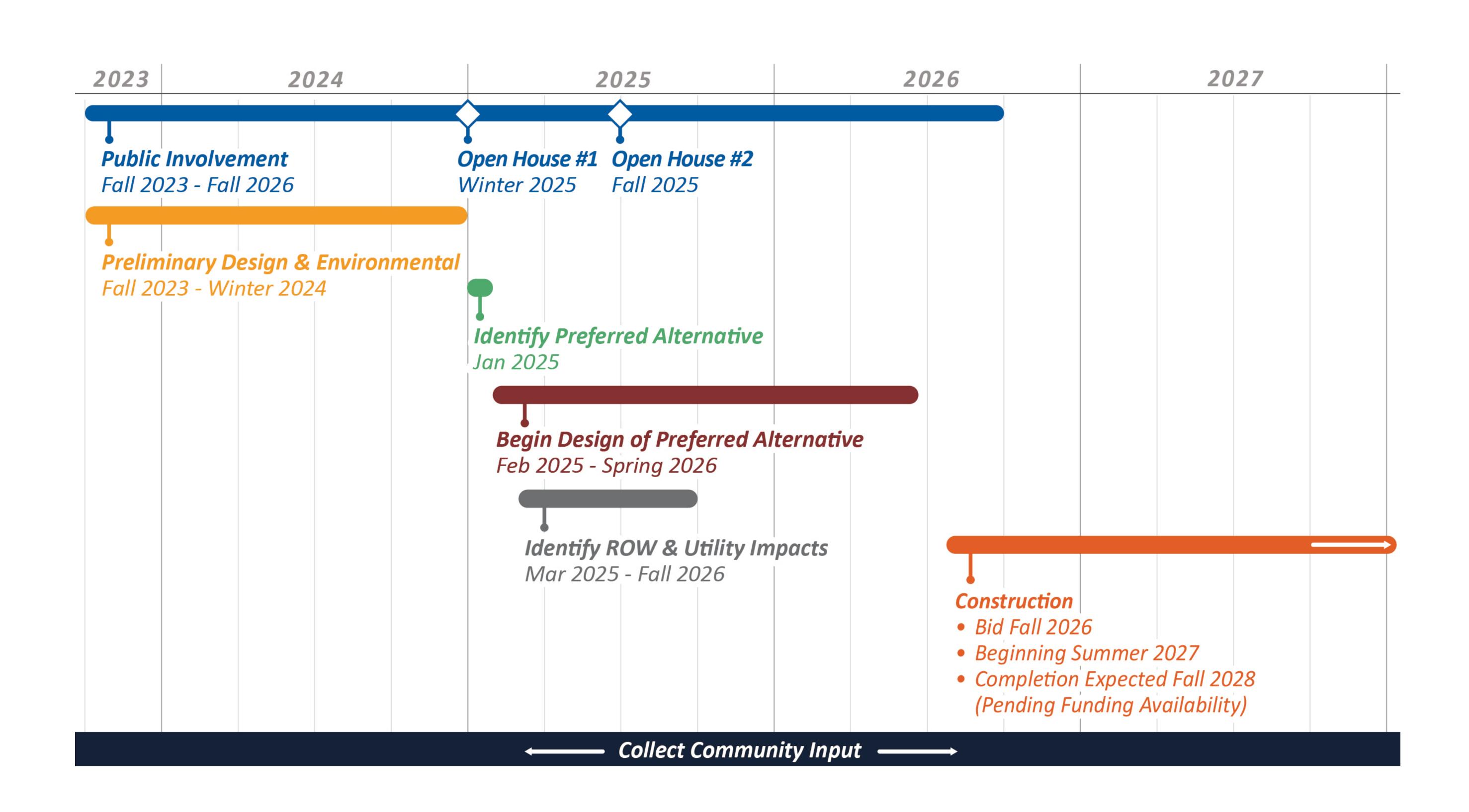
Comparative Assessment



	No Build	Double Left	Loop Ramp	Divergabout
Operations & Capacity				
Lane Utilization	8			
West Terminal Intersection				
East Terminal Intersection				
ERLR/Wolf Den Intersection				
Truck Operations				
Safety Performance				
Motorized				
Non-Motorized				
Impacts				
ROW Impacts			8	
Utility Impacts				
Environmental Impacts				
Schedule Impacts				
Capital Cost				

Schedule and Next Steps





Project Contacts





Galen Jones, PE Project Manager



Kelly Kilpatrick, PE
Project Manager

Morgan McCammon
Public Involvement

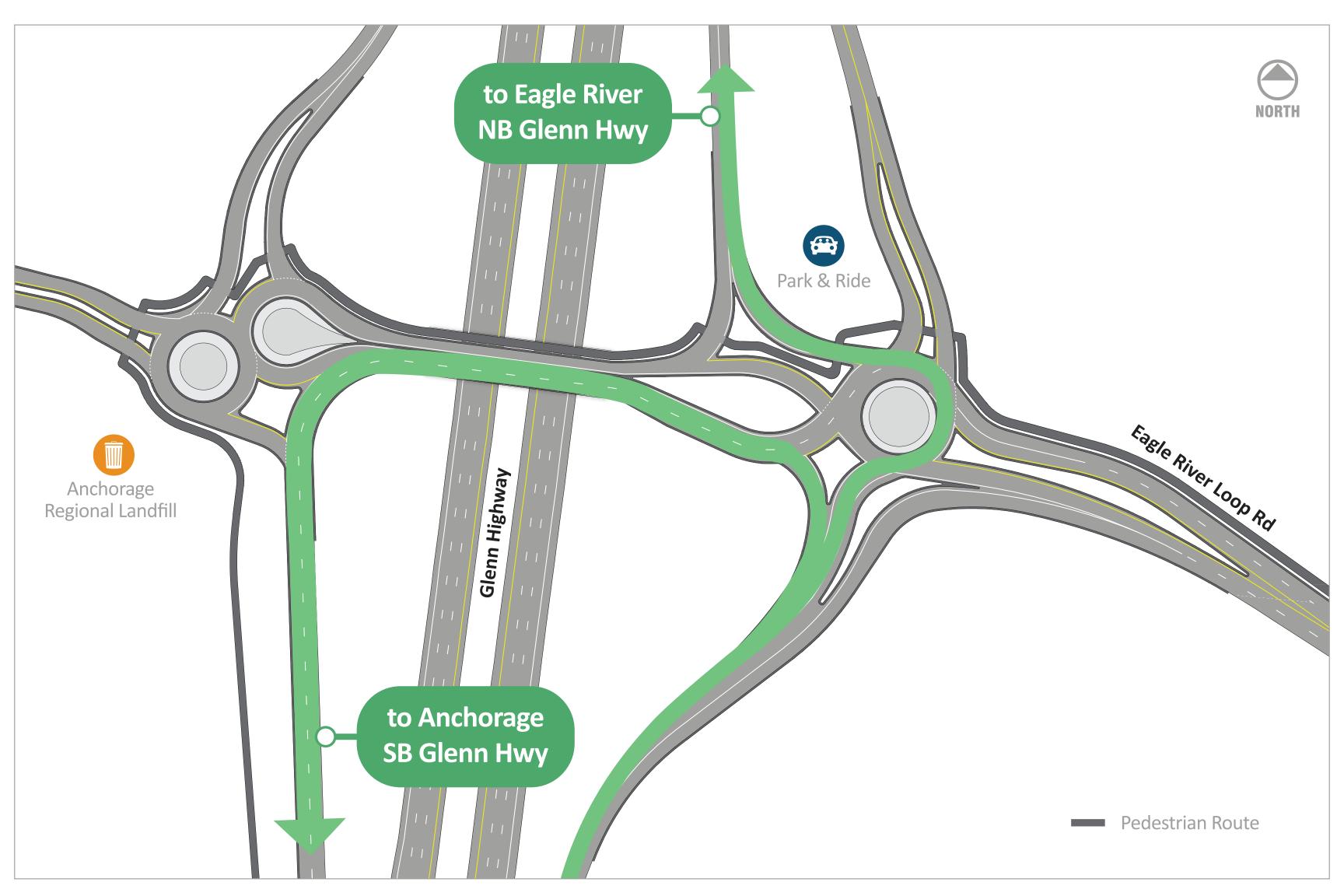


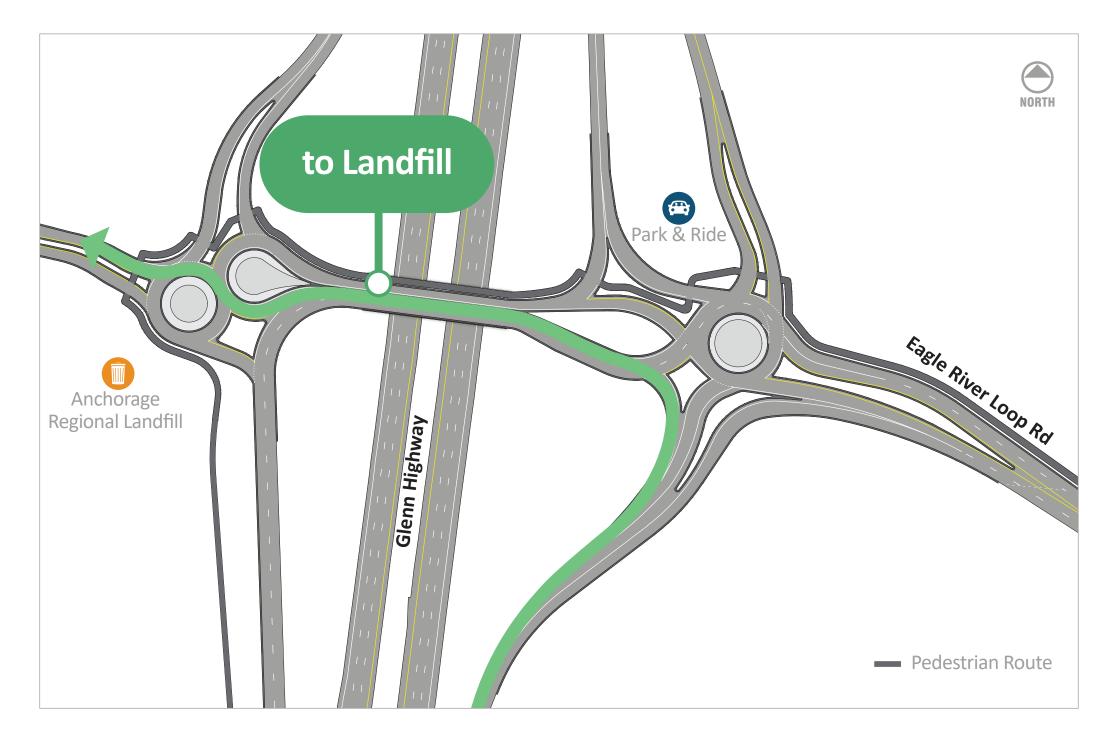
Project Website: www.Glenn-Hiland.com

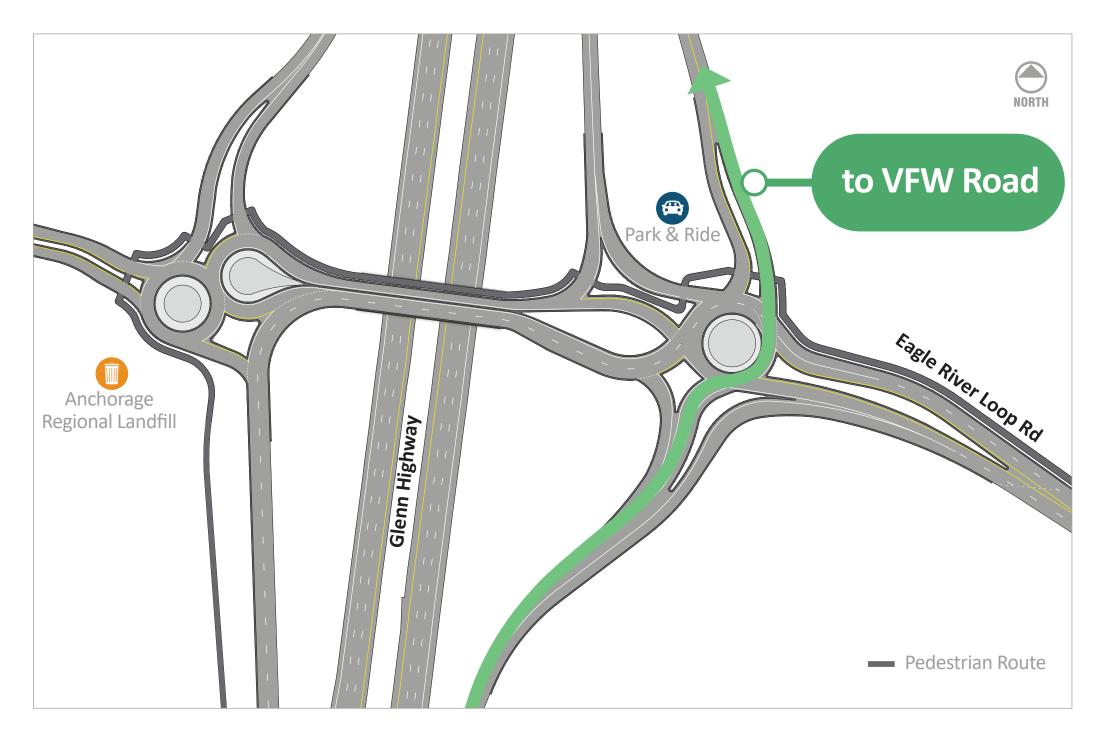


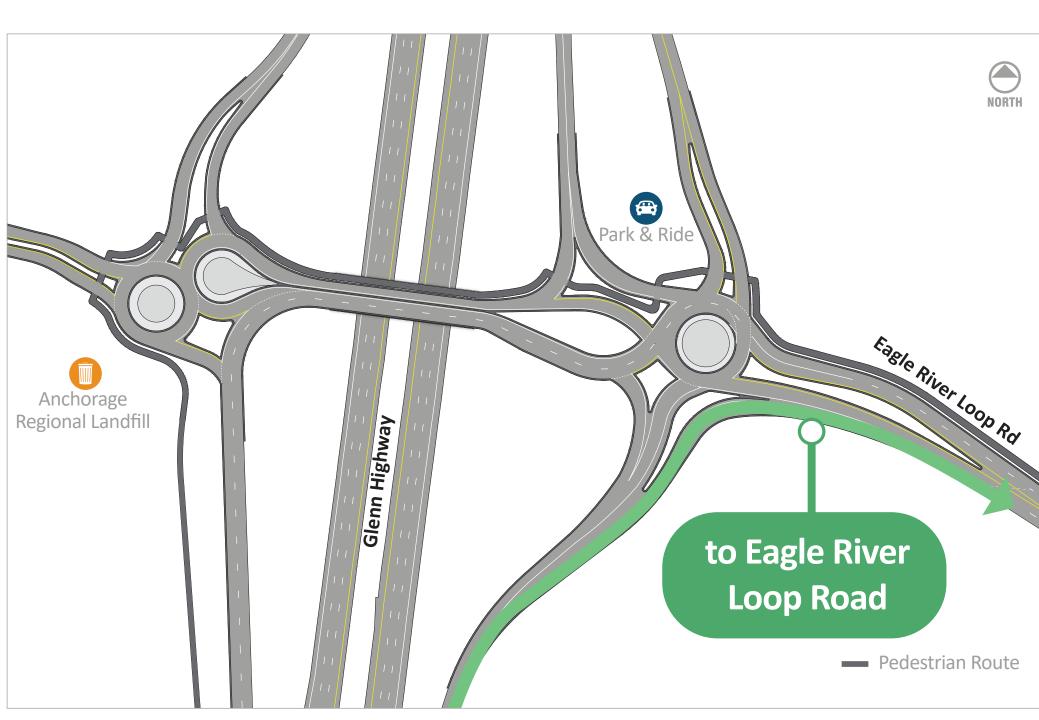
Project Email:
Glenn-Hiland@dowl.com

Turn Movements From Northbound Glenn Highway

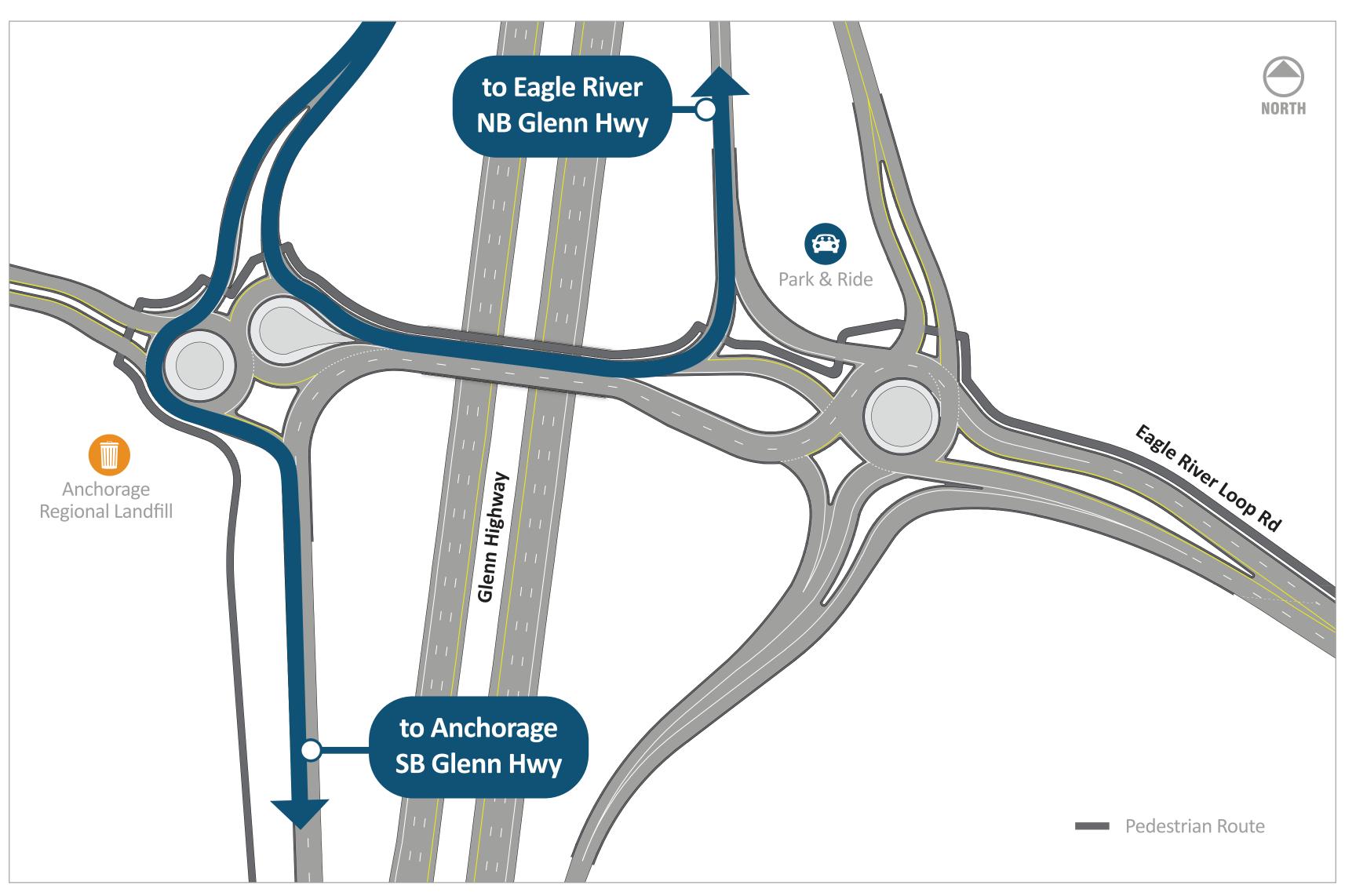




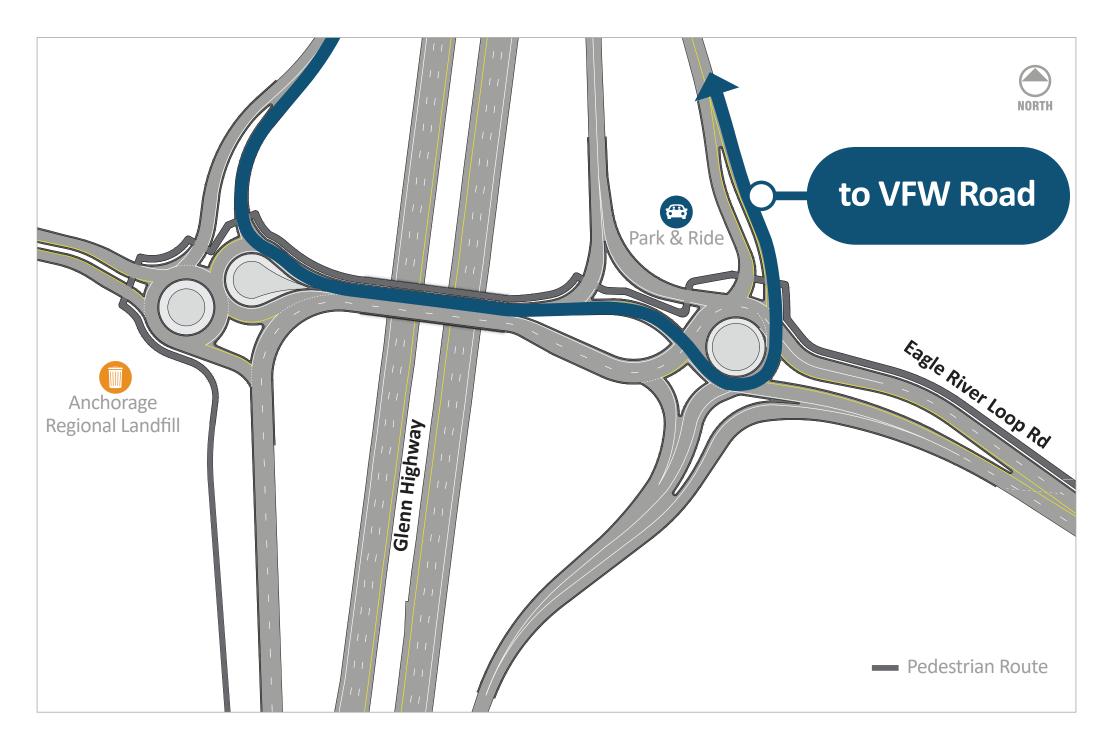


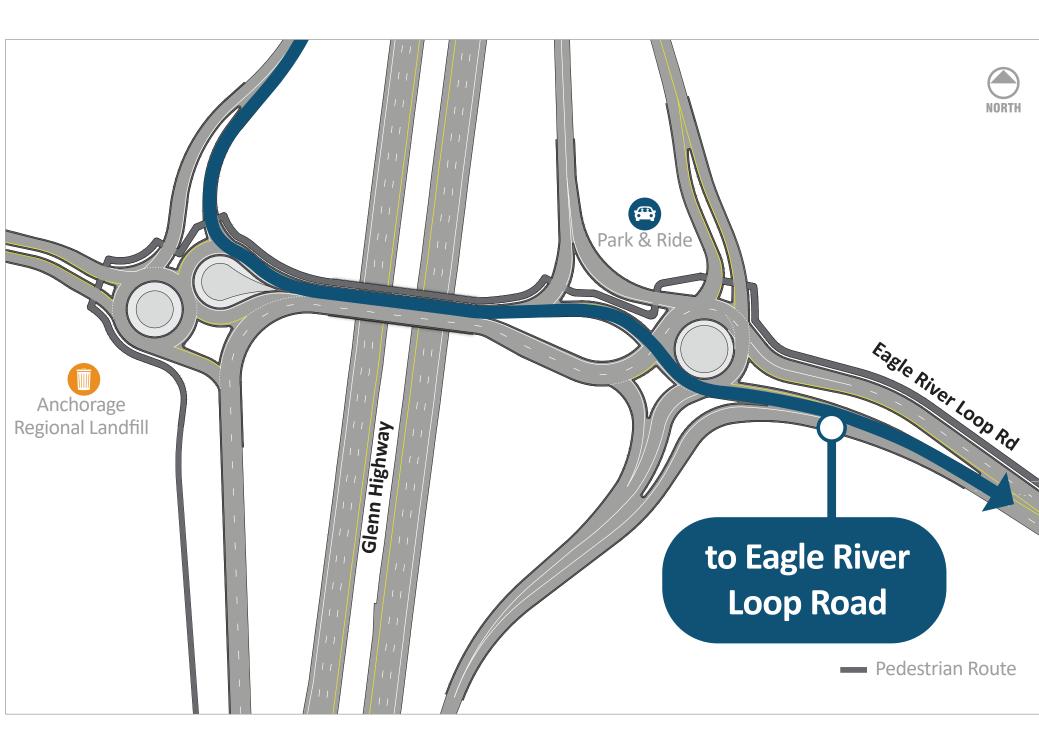


Turn Movements From Southbound Glenn Highway

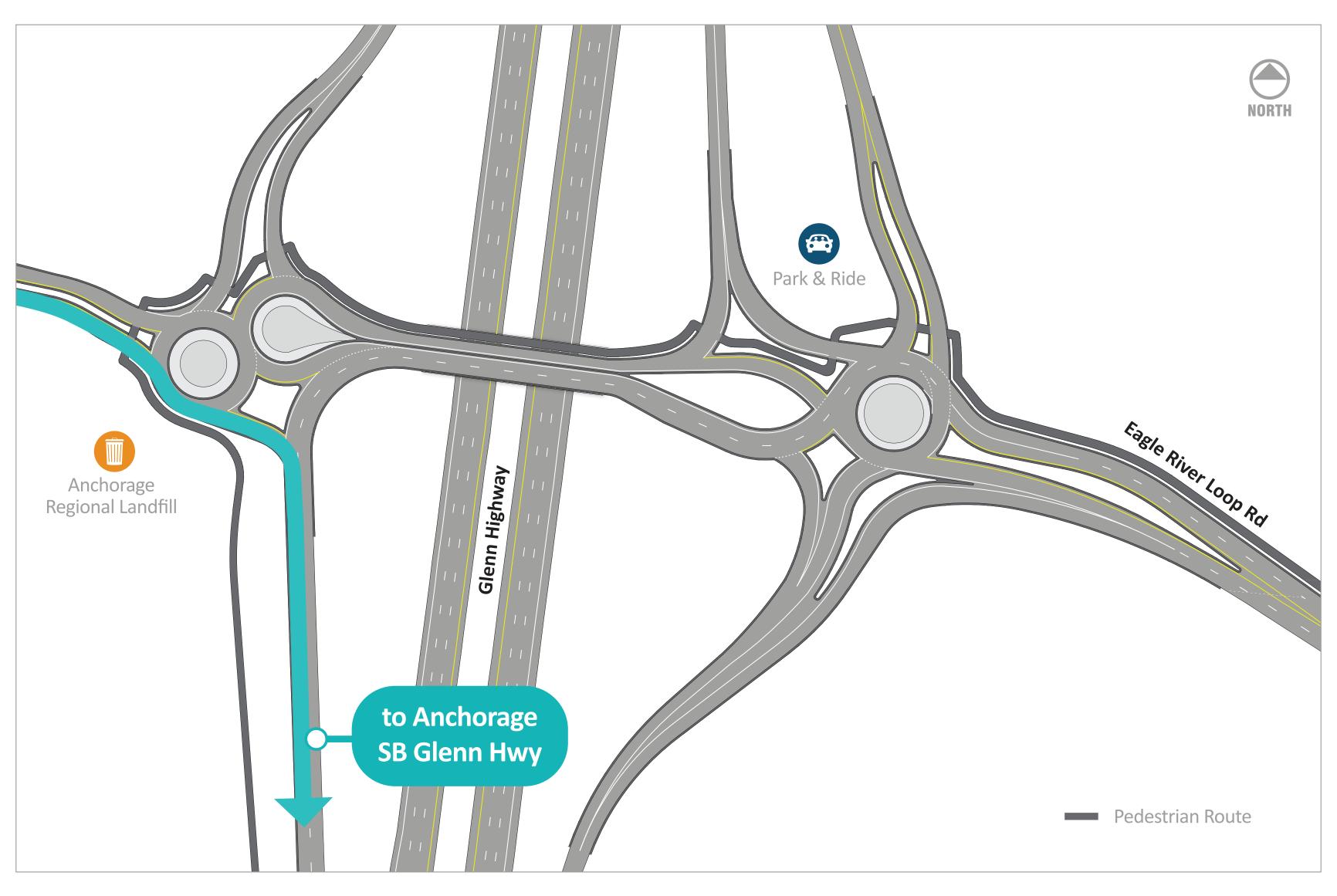


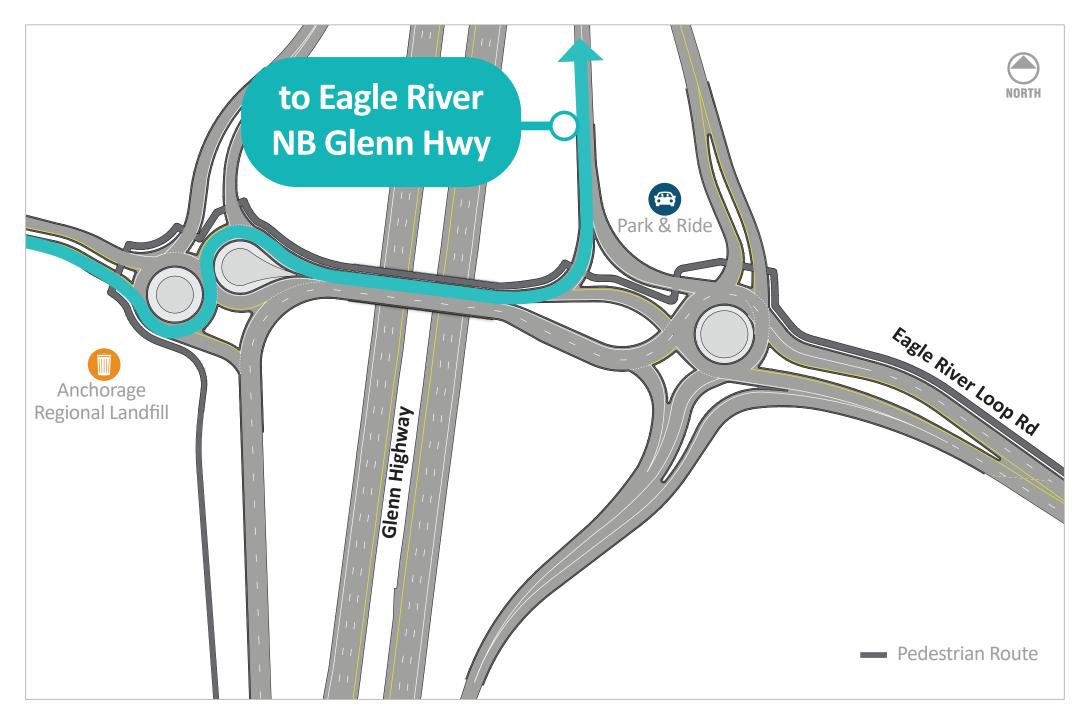


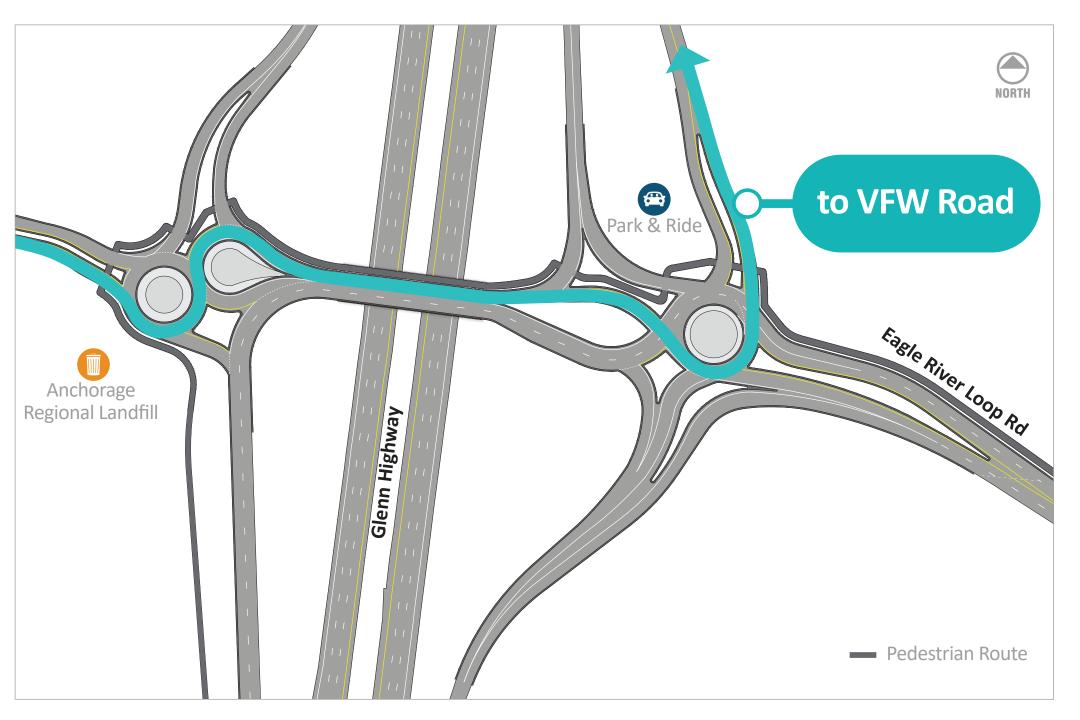


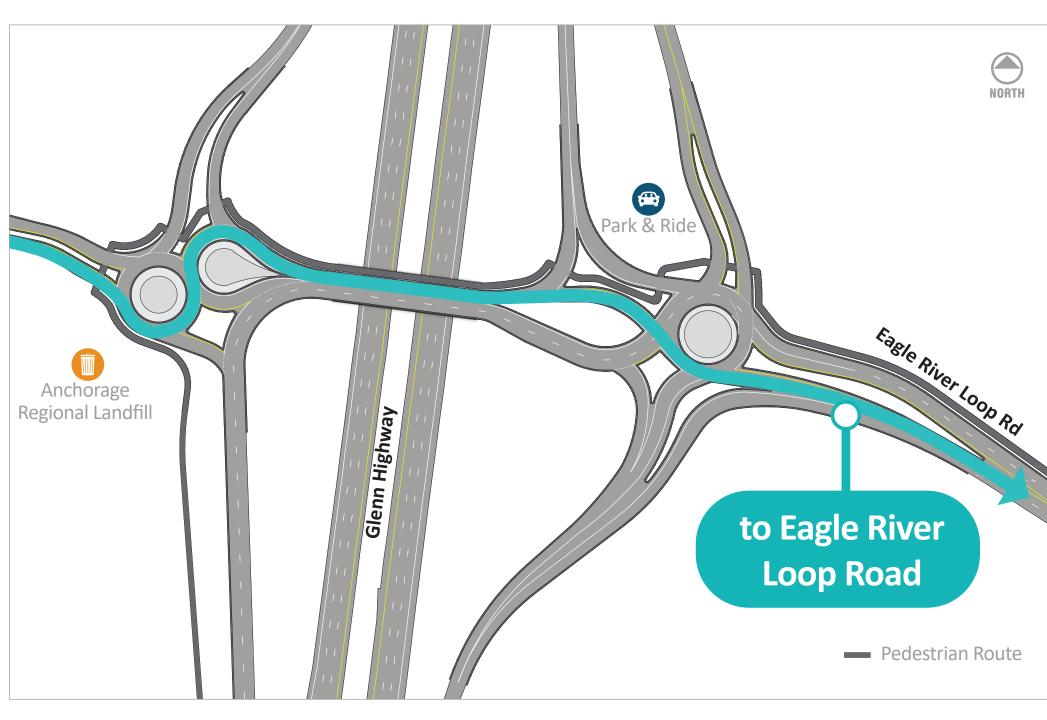


Turn Movements From Anchorage Regional Landfill









Turn Movements From Eagle River Loop Road

