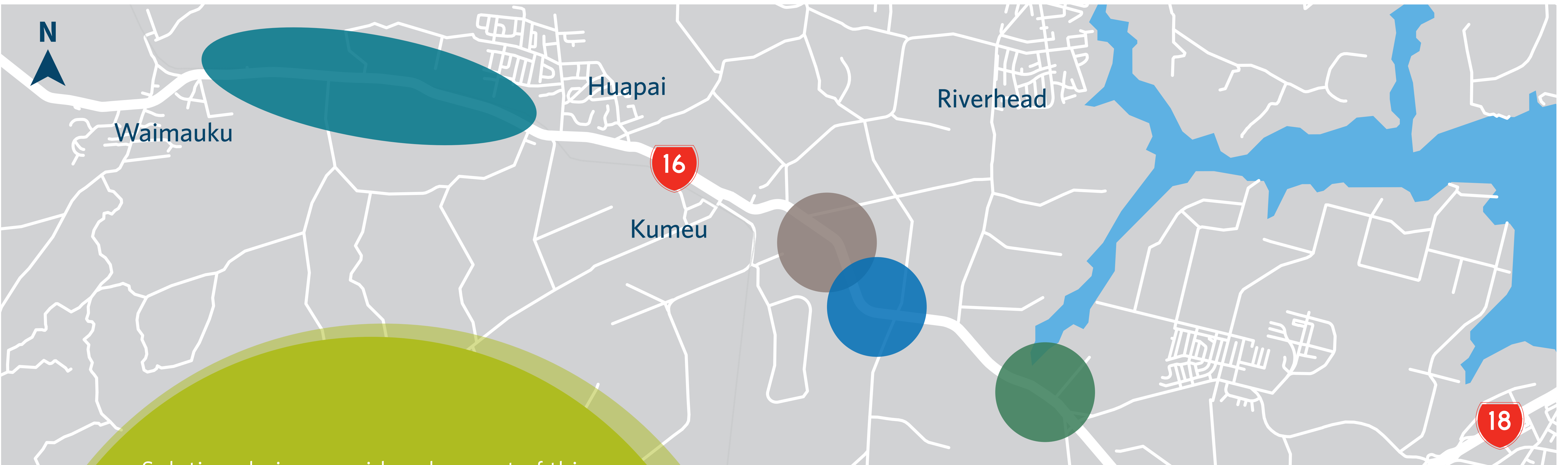


Efficiency upgrades



Solutions being considered as part of this project focus on short term improvements (the next 10 - 15 years), ahead of other longer term projects that will be delivered over the next few decades.

The design of efficiency upgrades are driven by traffic volumes and engineering design constraints.

As a result, most of the efficiency upgrades are focused on the stretch between the Brigham Creek Roundabout and Coatesville - Riverhead Highway. However, some of the safety solutions being considered for the other stretches will also have efficiency benefits.

Brigham Creek roundabout to Coatesville - Riverhead Highway

On this stretch, the efficiency improvements being considered include:

- Providing four lanes
- Providing an additional eastbound lane or
- Improving the existing passing lane
- Improving the Coatesville - Riverhead Highway intersection

The design is constrained by:

- The design of the Coatesville - Riverhead Highway intersection
- The predicted traffic volumes along this section of the corridor

46,100 vehicles per day by 2026



Huapai to Waimauku

On this stretch, solutions being considered which would improve efficiency include:

- Right-turn bays, and/or
- Wider shoulders

The design is constrained by:

- How it connects with the existing 60km/hr road design at Kumeu and Waimauku townships
- The narrow bridge over the culvert by Foster Road
- The high number of accessways

16,250 vehicles per day by 2026



Taupaki roundabout to Kumeu

On this stretch, improvements being considered which would improve efficiency include:

- Providing an additional eastbound lane.

The design is constrained by:

- The number of lanes at the Taupaki Roundabout
- The bridge over the river into Kumeu
- How the design connects with the existing 60km/hr road design at Kumeu township

25,350 vehicles per day by 2026



Coatesville - Riverhead highway to Taupaki roundabout

On this stretch, solutions being considered which would improve efficiency include:

- Providing four lanes
- Providing additional westbound lane

The design is constrained by:

- The number of lanes at the Coatesville - Riverhead Highway intersection and the Taupaki Roundabout

35,700 vehicles per day by 2026



Note: Traffic volumes are predicted volumes