



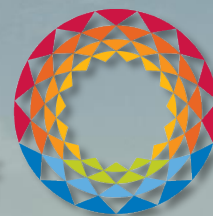
City of
Kelowna

Southwest Mission Sector

Council Workshop – May 1st, 2017

Outline

- ▶ Planning Background
- ▶ Current Conditions
- ▶ Future Growth



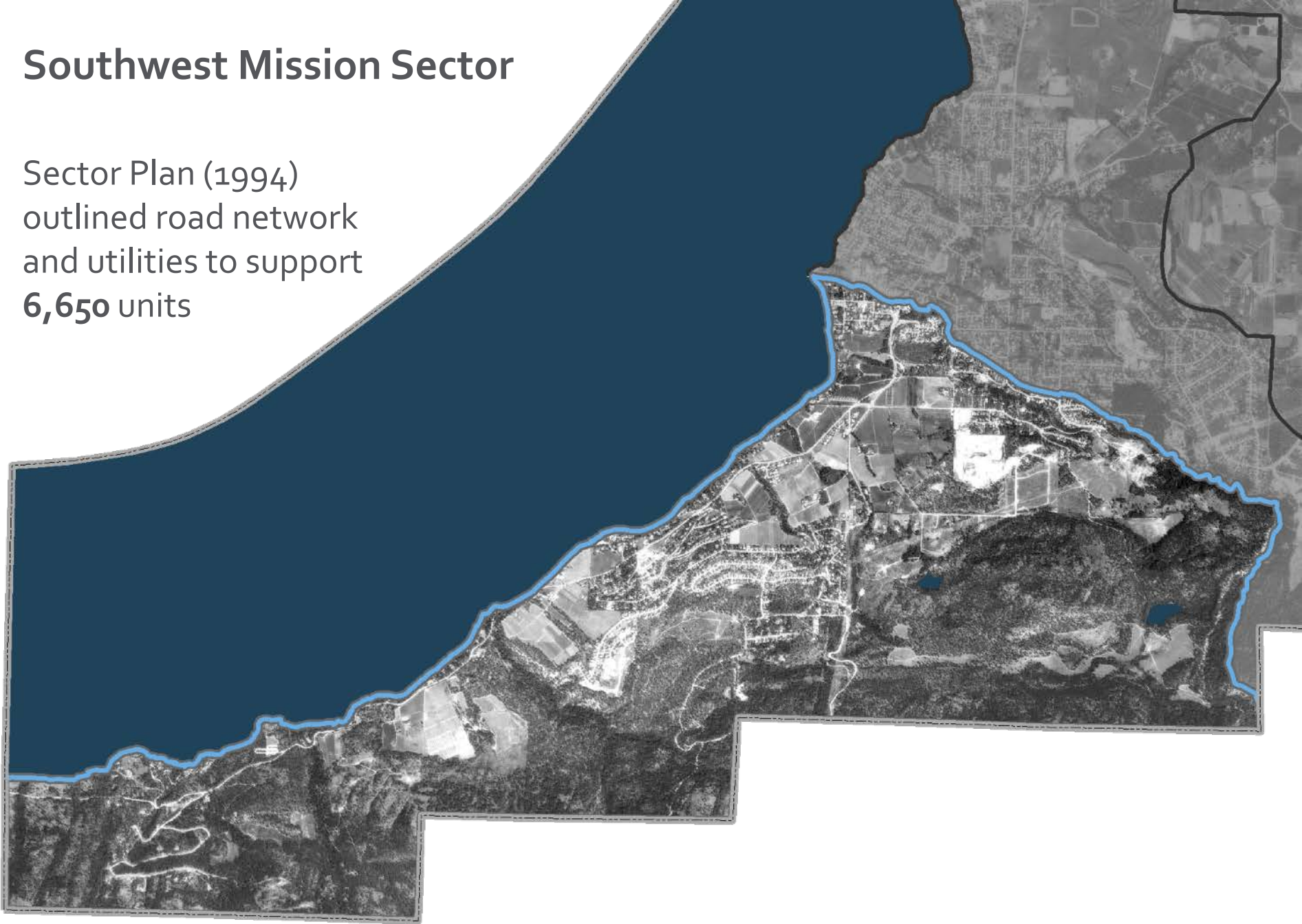
City of
Kelowna

Background



Southwest Mission Sector

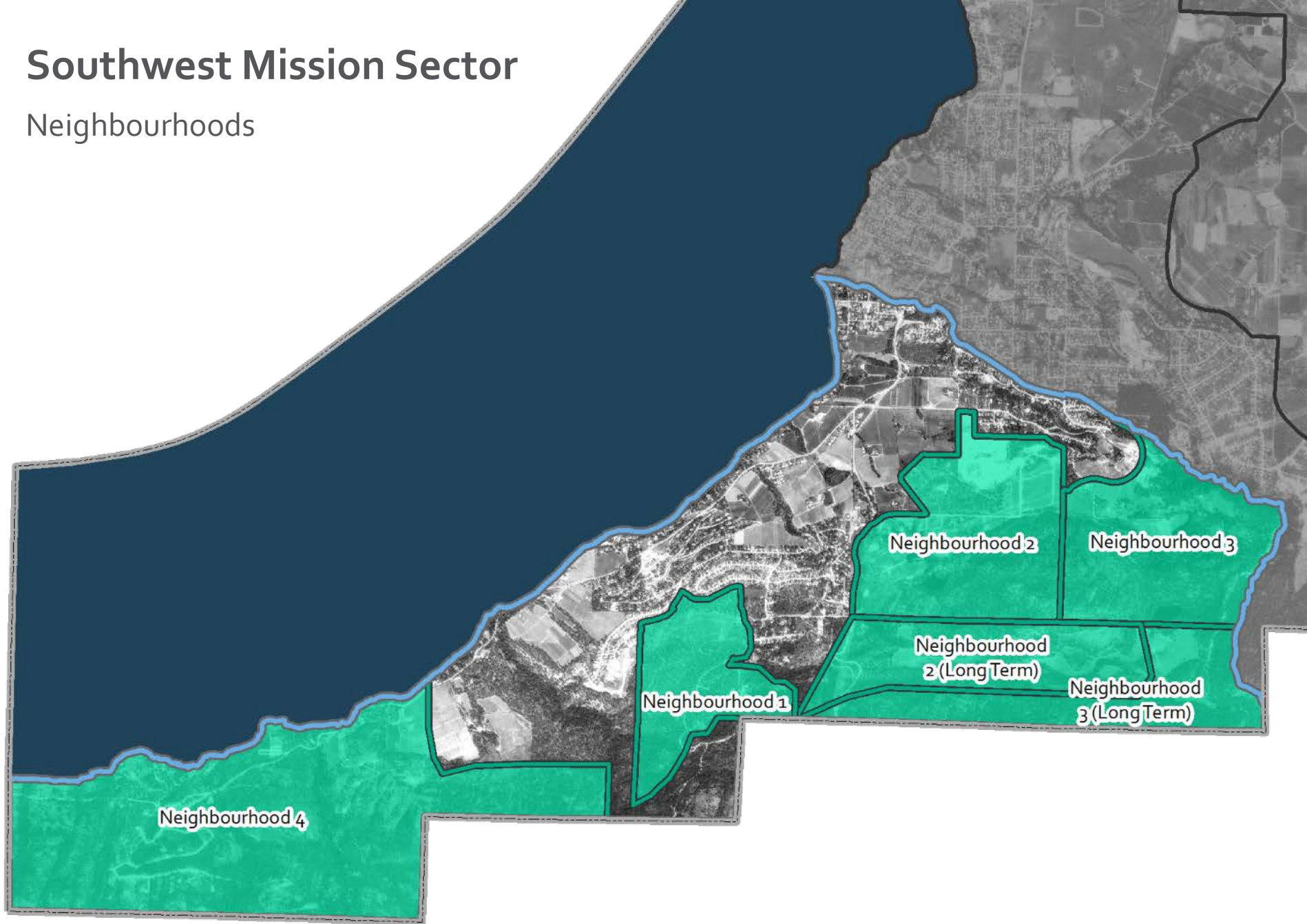
Sector Plan (1994)
outlined road network
and utilities to support
6,650 units



City of Kelowna

Southwest Mission Sector

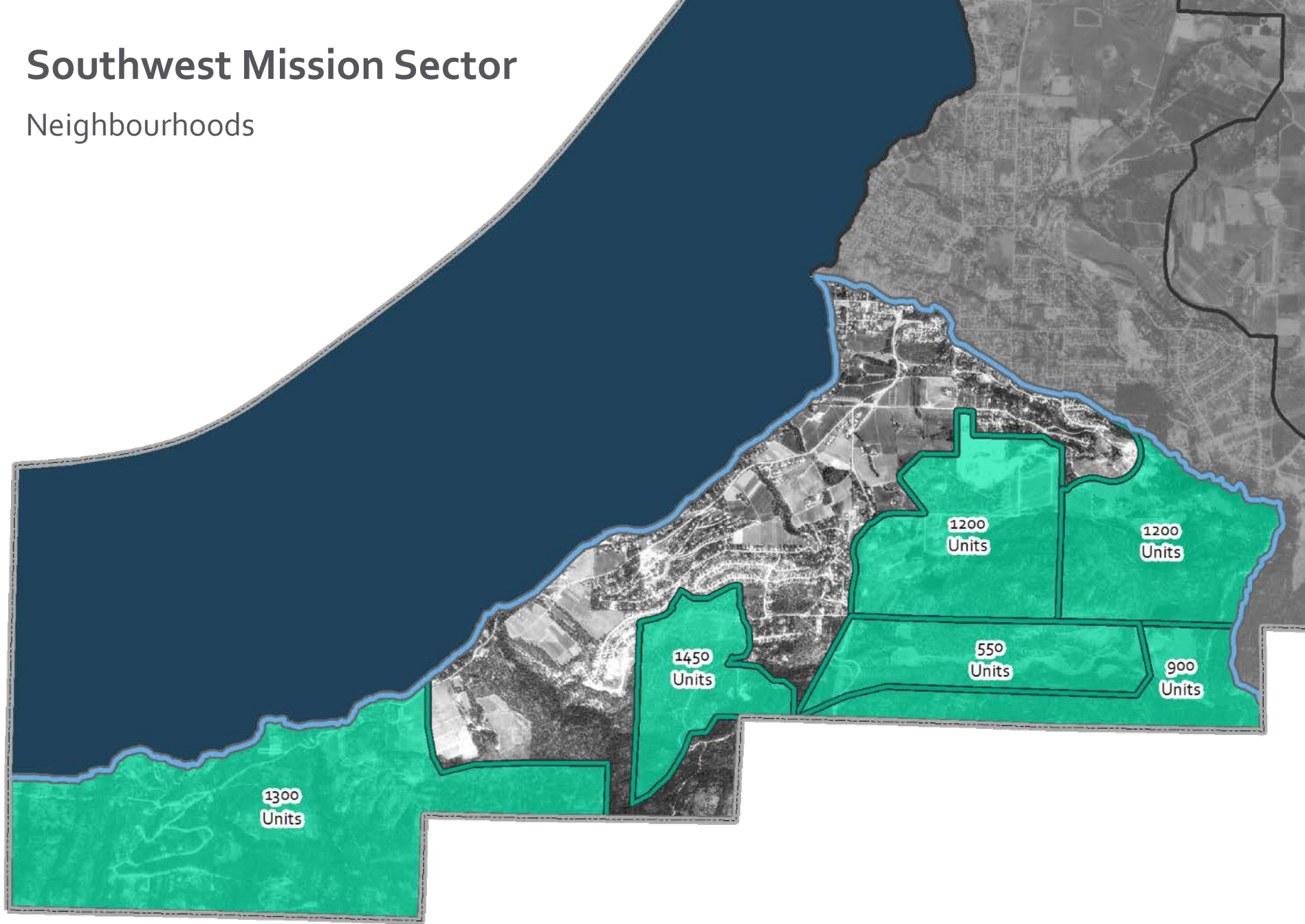
Neighbourhoods



City of Kelowna

Southwest Mission Sector

Neighbourhoods

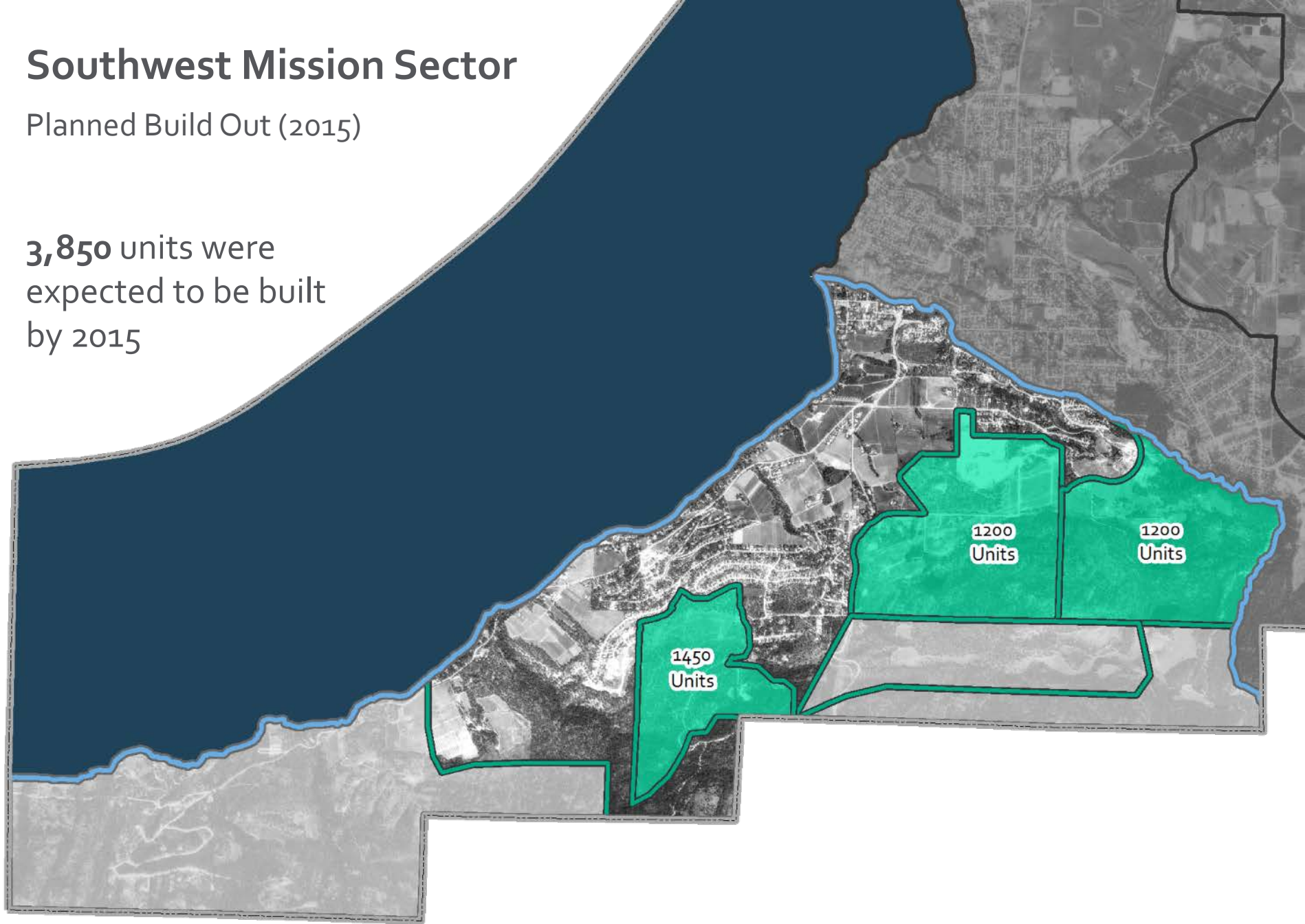


City of Kelowna

Southwest Mission Sector

Planned Build Out (2015)

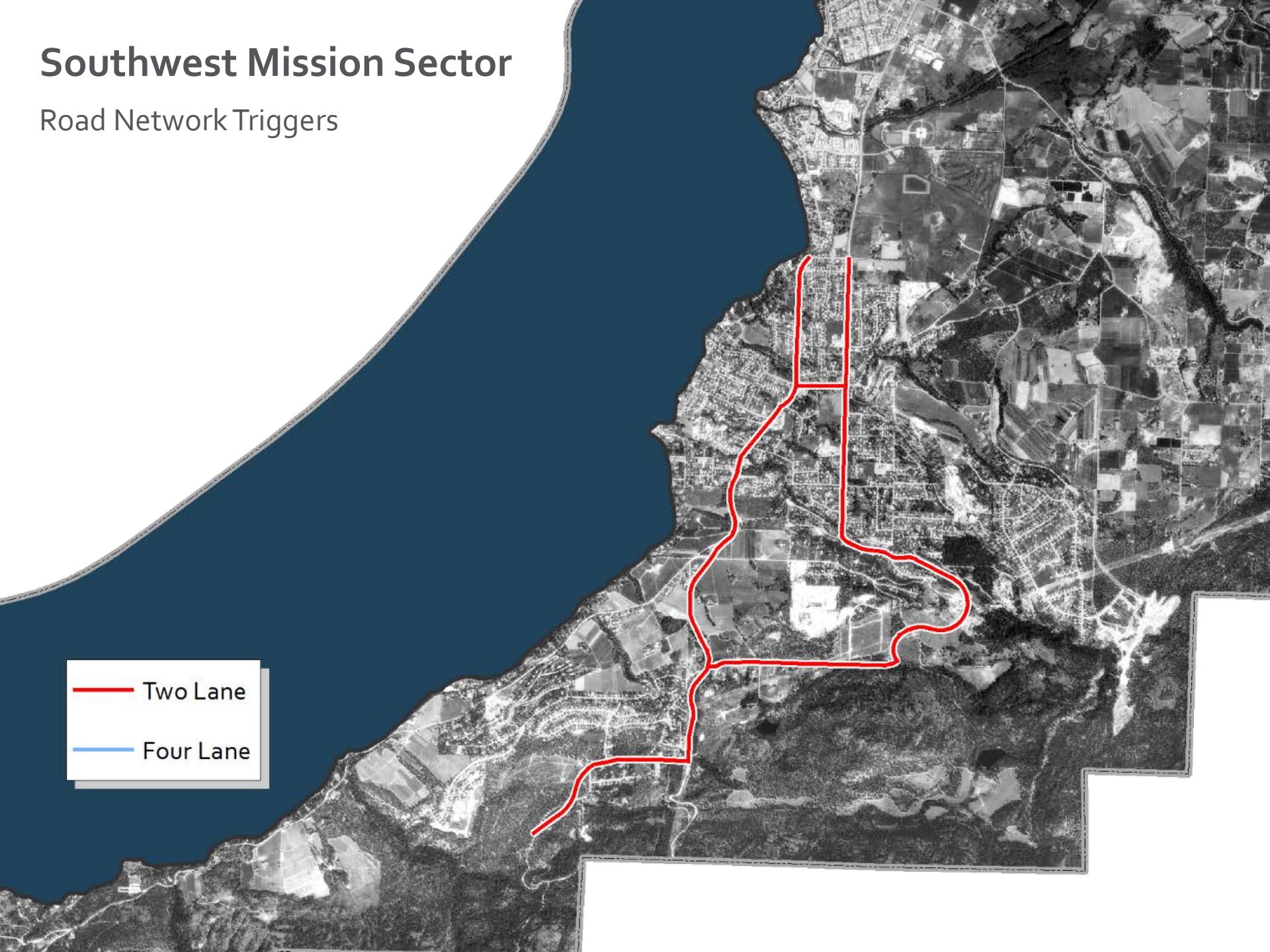
3,850 units were
expected to be built
by 2015



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Road Network Triggers



— Two Lane

— Four Lane

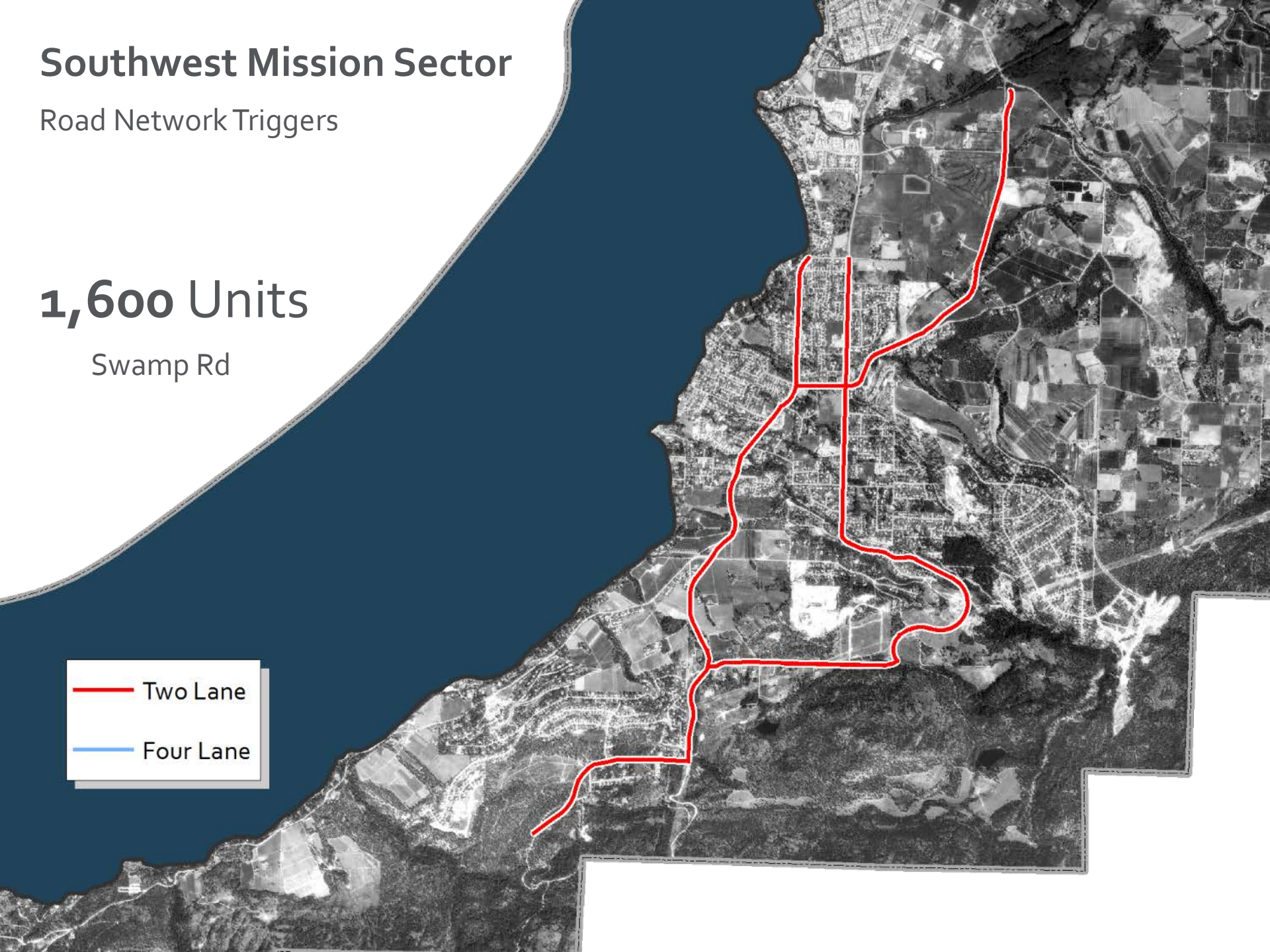
Southwest Mission Sector

Road Network Triggers

1,600 Units

Swamp Rd

— Two Lane
— Four Lane



Southwest Mission Sector

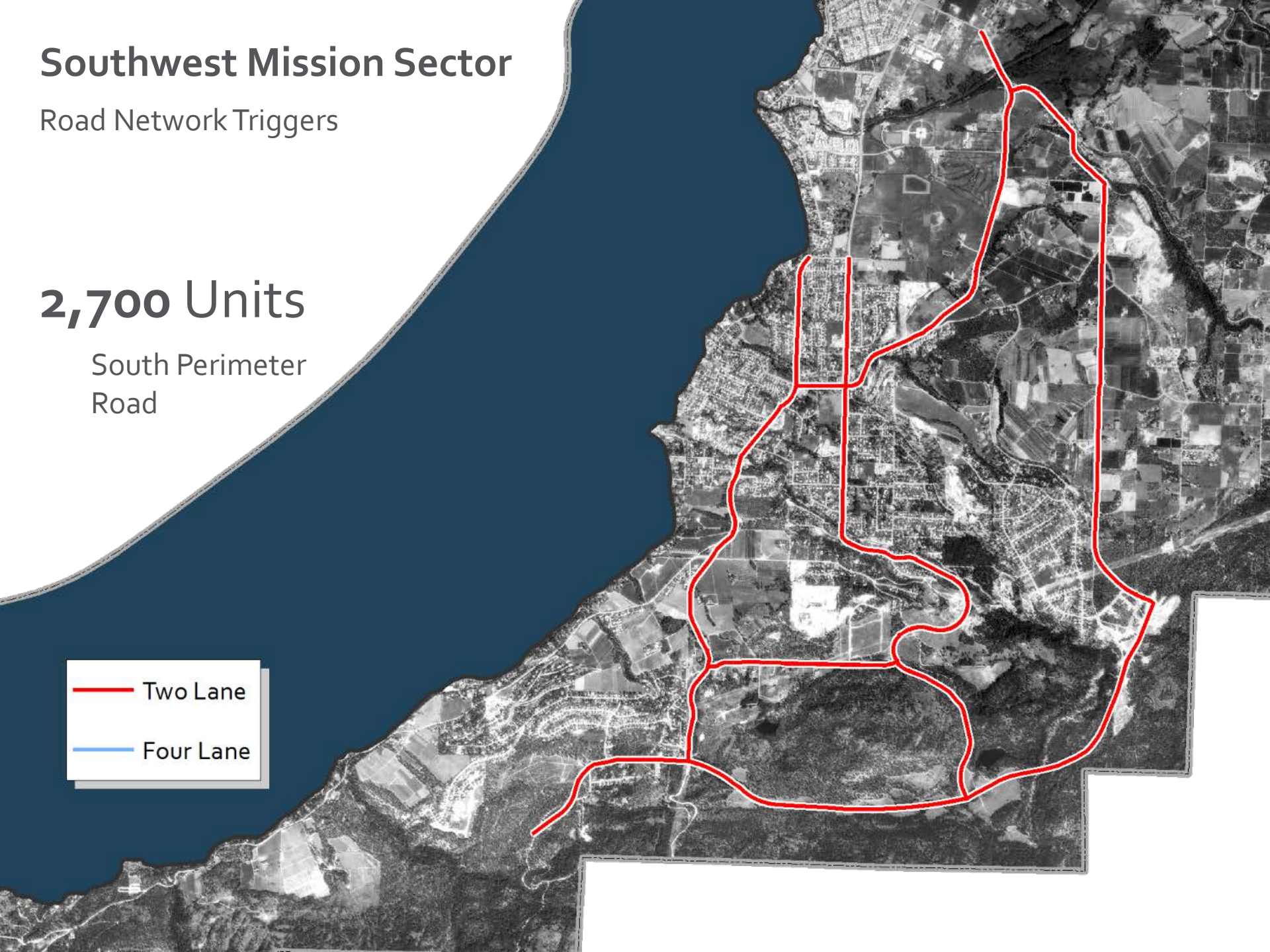
Road Network Triggers

2,700 Units

South Perimeter
Road

— Two Lane

— Four Lane



Southwest Mission Sector

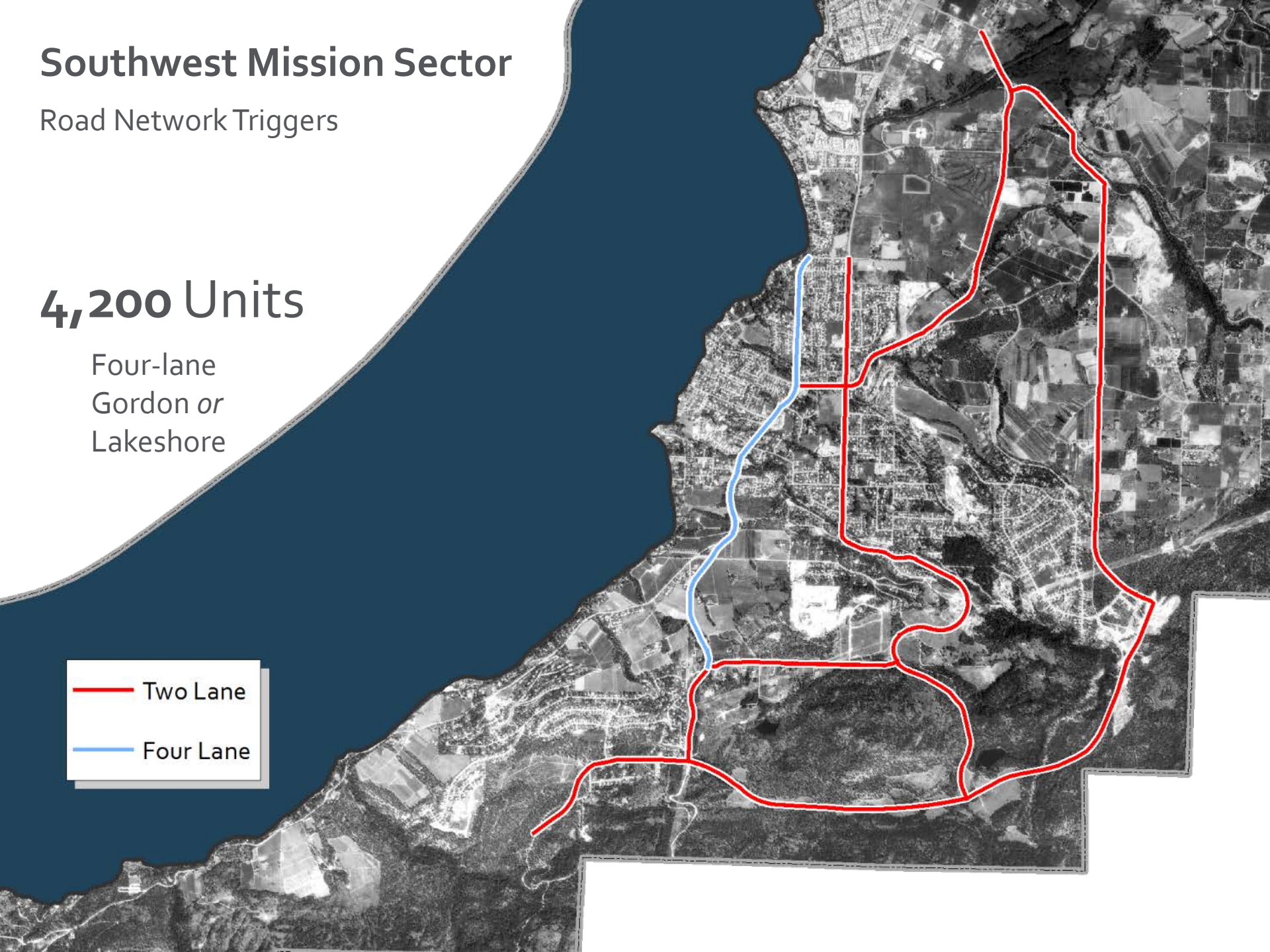
Road Network Triggers

4,200 Units

Four-lane
Gordon or
Lakeshore

— Two Lane

— Four Lane



Southwest Mission Sector

2006



City of Kelowna

Lakeshore Rd

- ▶ Added to 1995 DCC Program as four-lanes (Barnaby to Old Meadows)
 - ▶ To be built after 1,600 units in Neighbourhoods 1 and 2
- ▶ Changed to a three-lane cross section in 2011 DCC Update

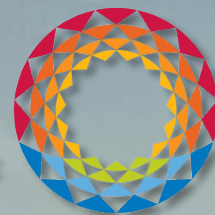
Three Lanes Vs. Four



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South Perimeter Rd

- ▶ Per Sector Plan, to be built after 2,700 units
- ▶ Scheduled for 2010-2015 in 2009 Servicing Plan
- ▶ Deferred until 2025-2030 in 2011 DCC Update
- ▶ Accelerated by Council in 2012



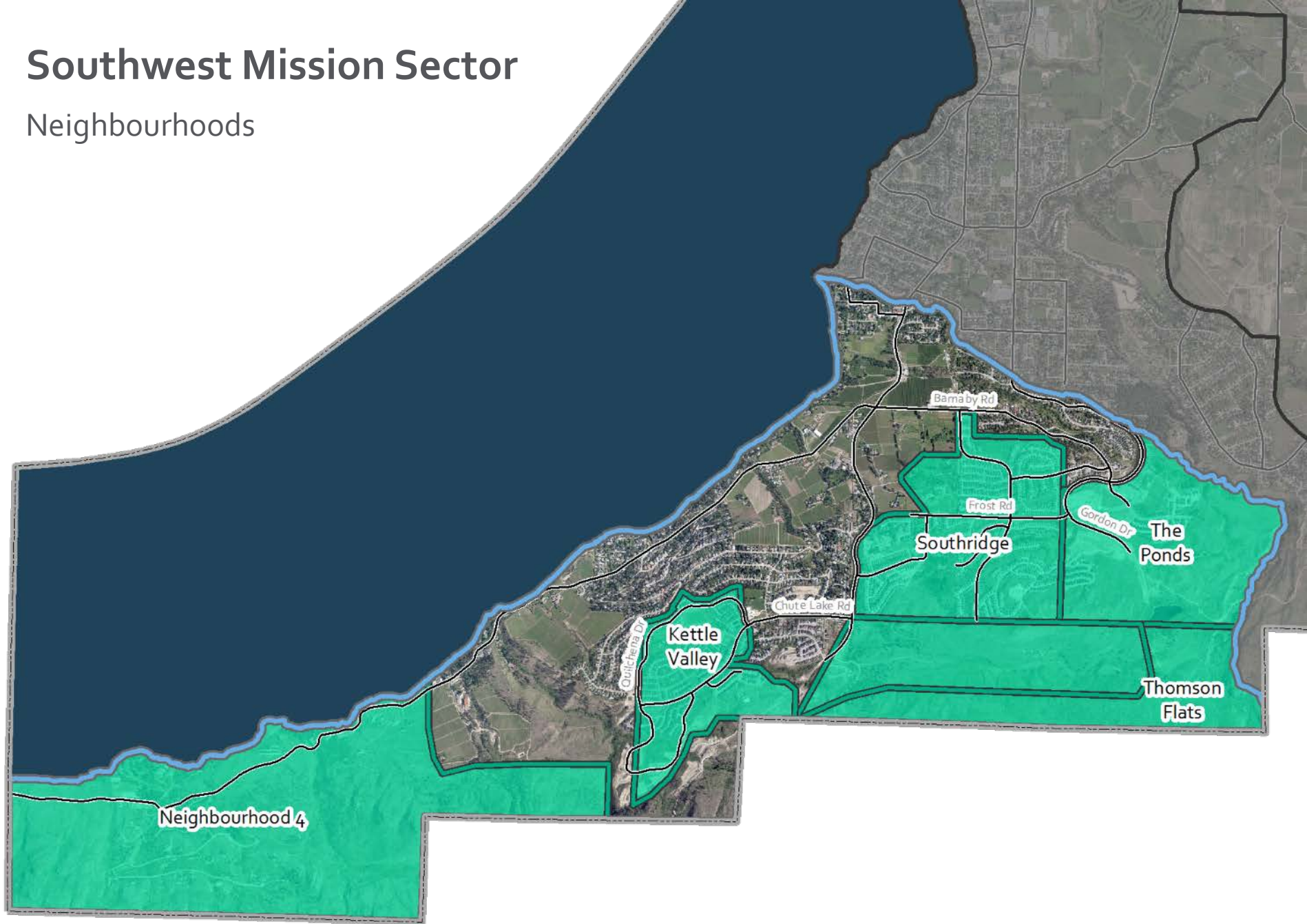
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Current Conditions



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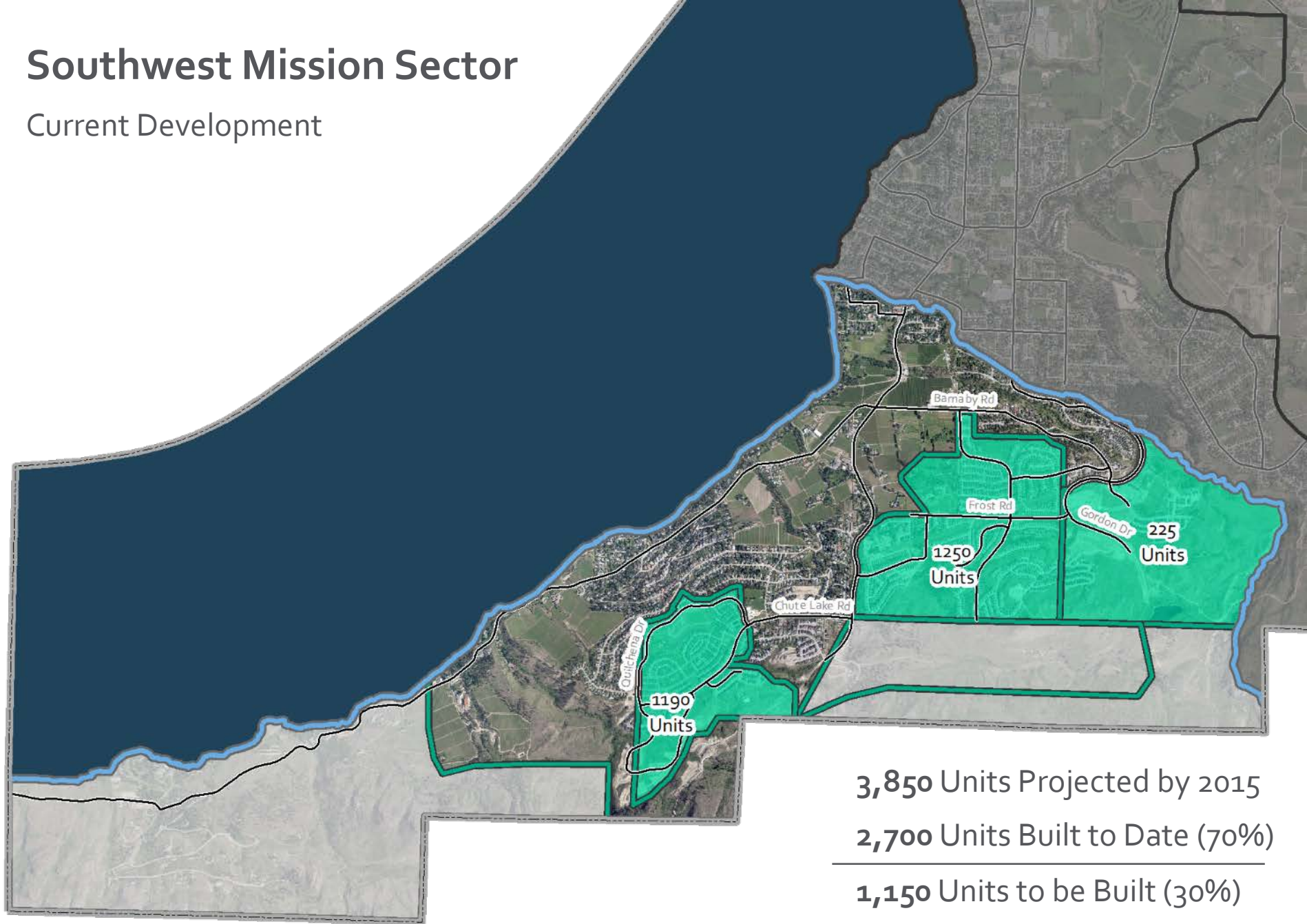
Neighbourhoods



City of Kelowna

Southwest Mission Sector

Current Development



3,850 Units Projected by 2015

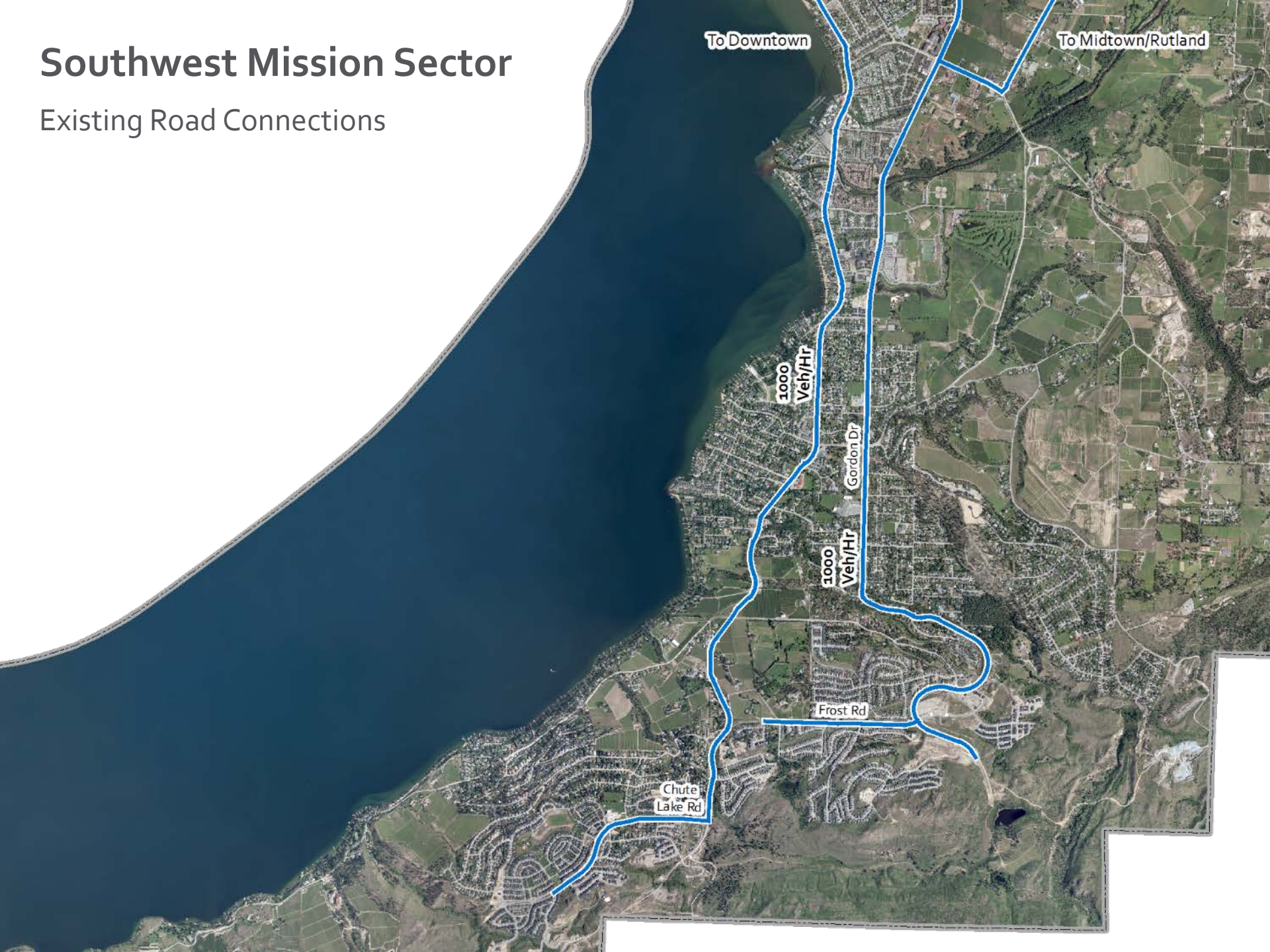
2,700 Units Built to Date (70%)

1,150 Units to be Built (30%)

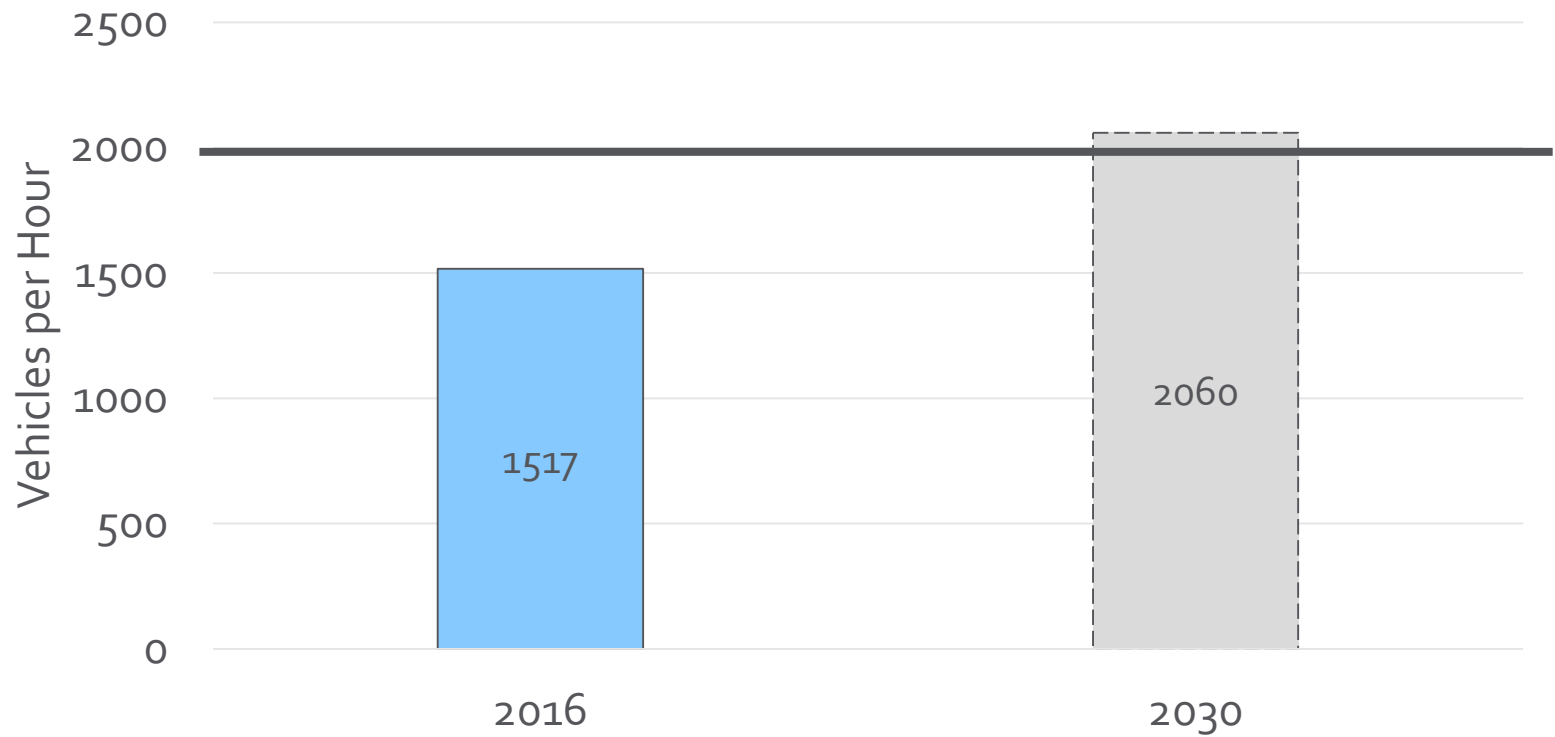
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Southwest Mission Sector

Existing Road Connections



Morning Peak Traffic out of Southwest Mission



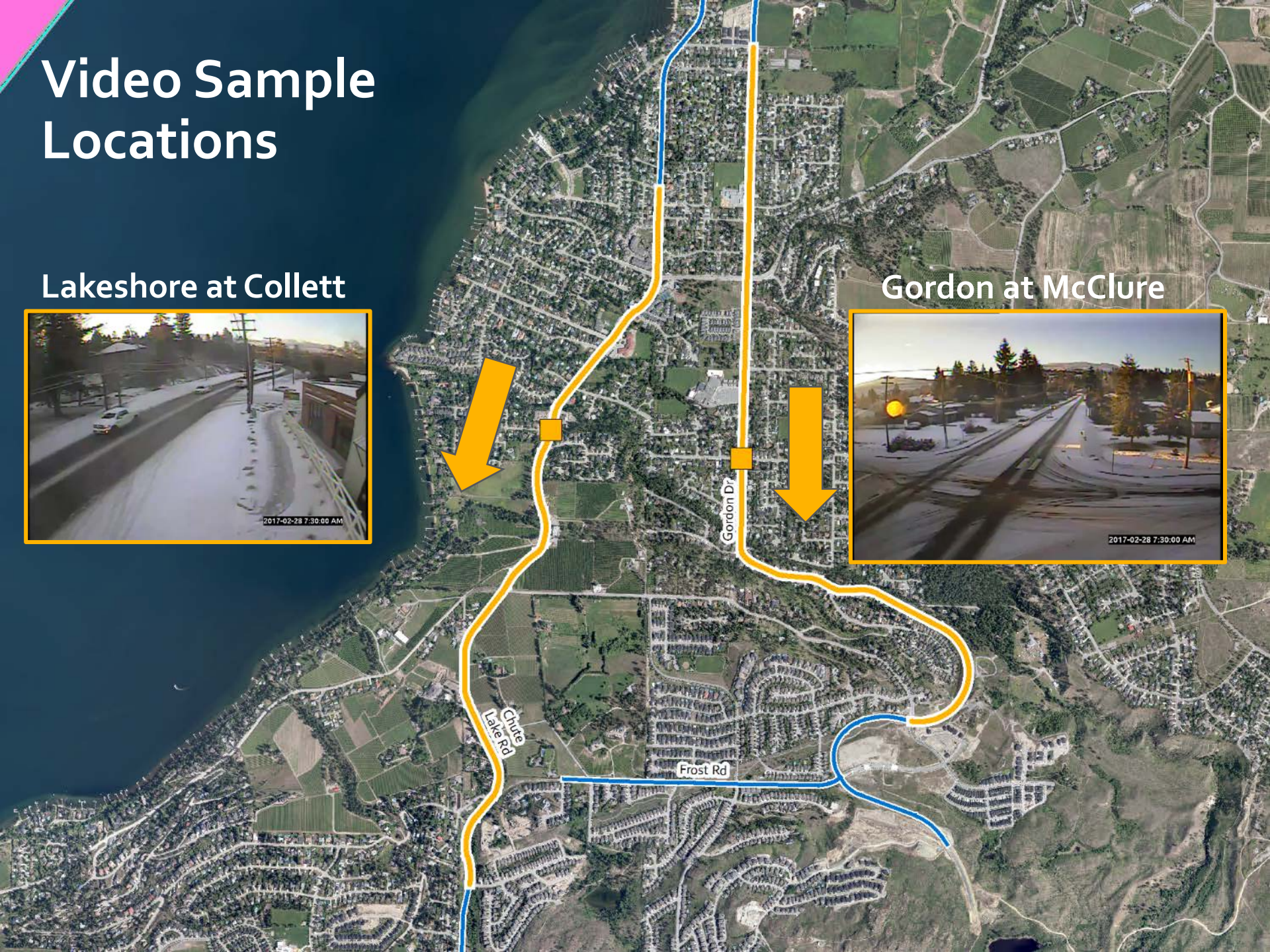
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Video Sample Locations

Lakeshore at Collett



Gordon at McClure



Early Morning – 7:30am

Lakeshore

Travel time (South Crest - Kensington)

~5 min

No Delay



Gordon

Travel time (Steele – Old Meadows)

~5 min

No Delay



Early Morning – 8:00am

Lakeshore

Travel time (South Crest - Kensington)

~8 min

+3 min



Gordon

Travel time (Steele – Old Meadows)

~5 min

No Delay



Morning Peak – 8:15am

Lakeshore

Travel time (South Crest - Kensington)

~13 min

+8 min



Gordon

Travel time (Steele – Old Meadows)

~7 min

+2 min



Morning Peak – 8:45am

Lakeshore

Travel time (South Crest - Kensington)

~7 min

+2 min



Gordon

Travel time (Steele – Old Meadows)

~5 min

No Delay



Midday – 1pm

Lakeshore

Travel time (South Crest - Kensington)

~5 min

No Delay



Gordon

Travel time (Steele – Old Meadows)

~5 min

No Delay



Afternoon Peak – 3:20pm

Lakeshore

Travel time (Kensington – South Crest)

~5 min

No Delay



Gordon

Travel time (Old Meadows - Steele)

~5 min

No Delay



Gordon and Lakeshore

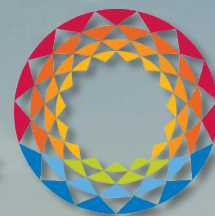
- ▶ Traffic is concentrated in time and space.
 - ▶ Schools and some operational issues, but that is not the structural problem
- ▶ Longest observed delay:
 - ▶ Lakeshore ~8 to 10 min
 - ▶ Gordon ~2 to 3 min

Both roads have excess capacity 23 hours per day

Can we **guarantee** that every person can drive everywhere at any time **with no delay** ?

“Building more roads to prevent congestion is like a fat man loosening his belt to prevent obesity” – Lewis Mumford





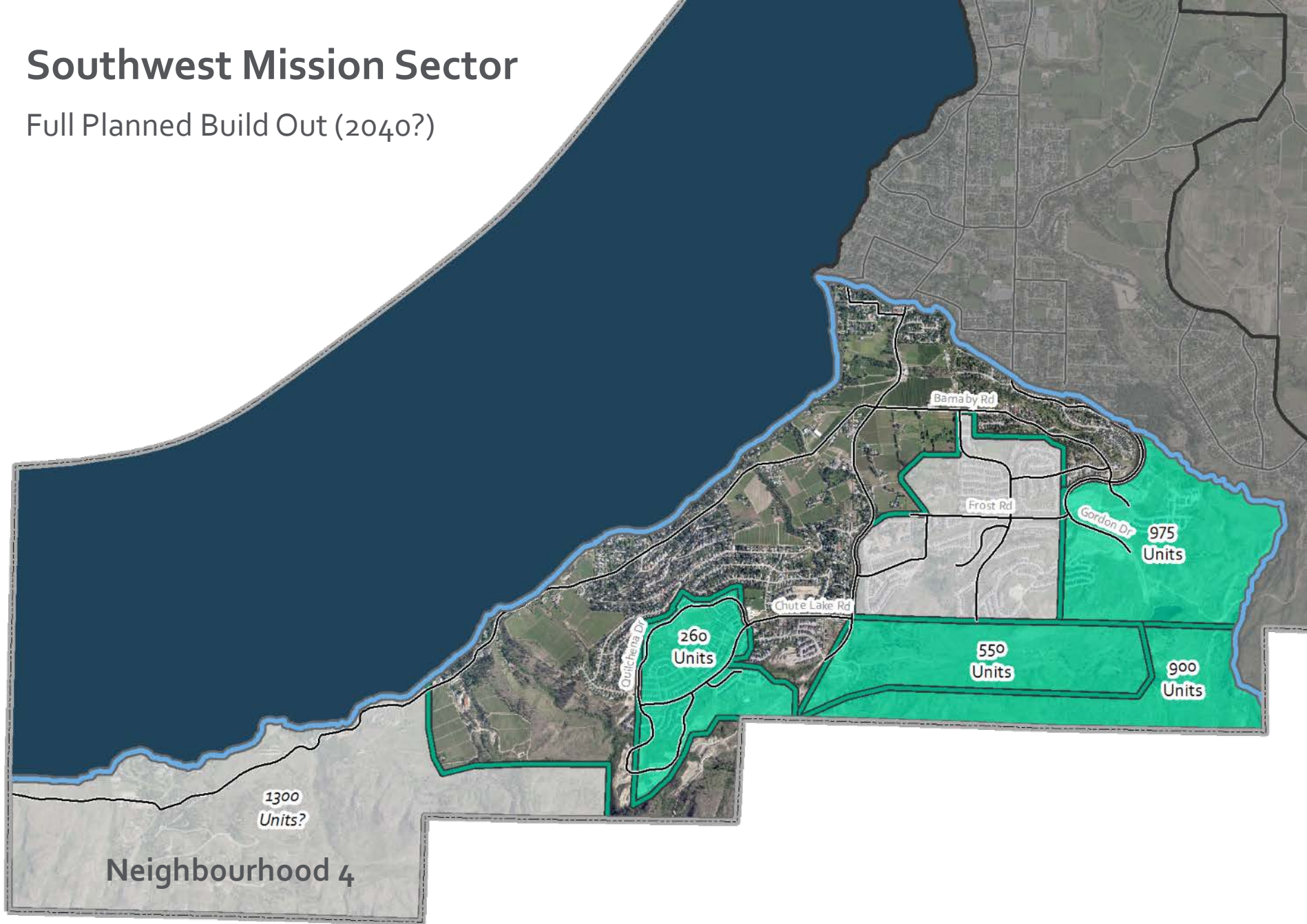
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Future Growth



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Full Planned Build Out (2040?)



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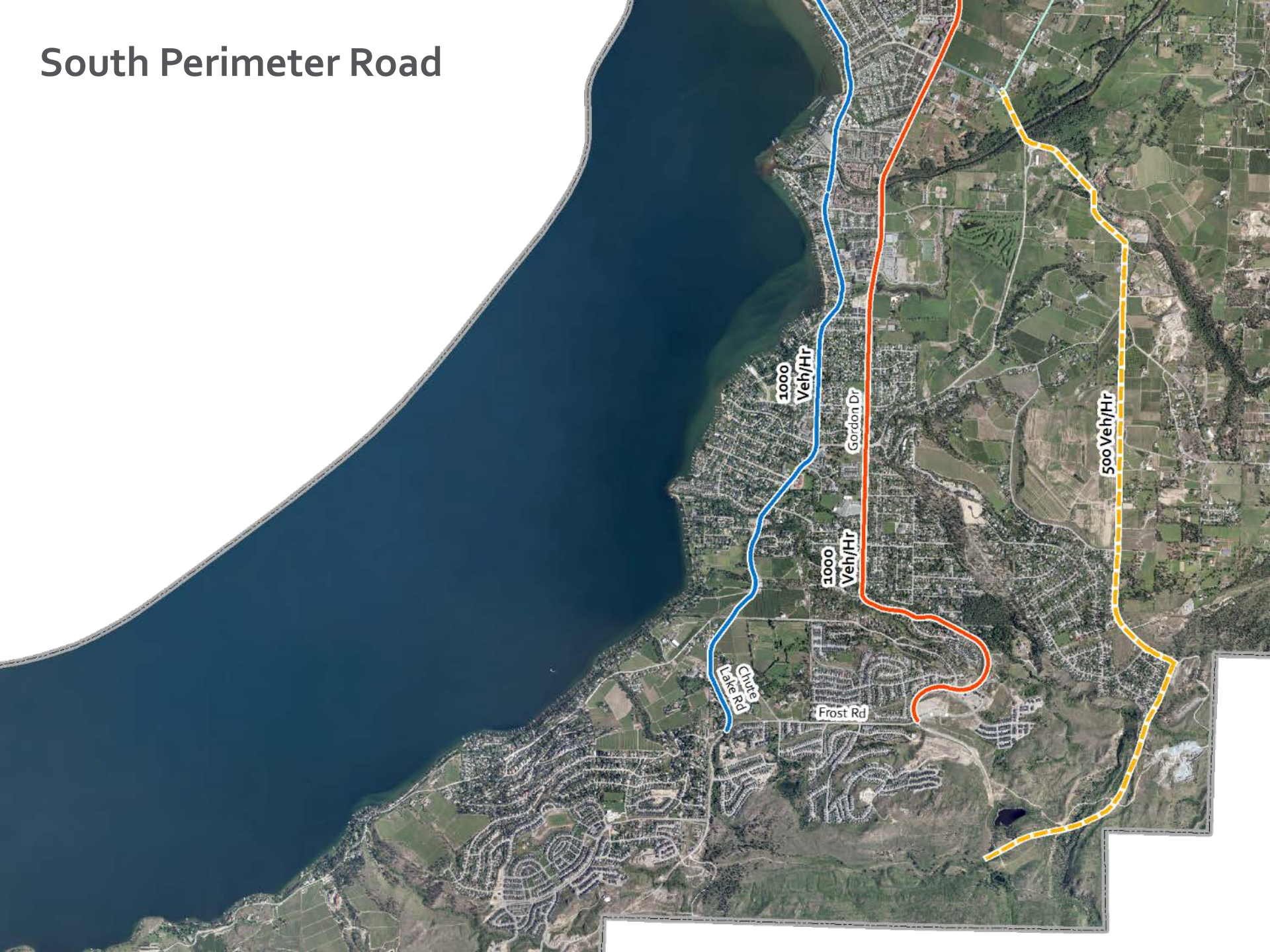
Future Growth

- ▶ Development yields to date are below original forecasts
- ▶ Thomson Flats ASP underway
- ▶ Significant barriers for development in Neighbourhood 4

Future Road Network



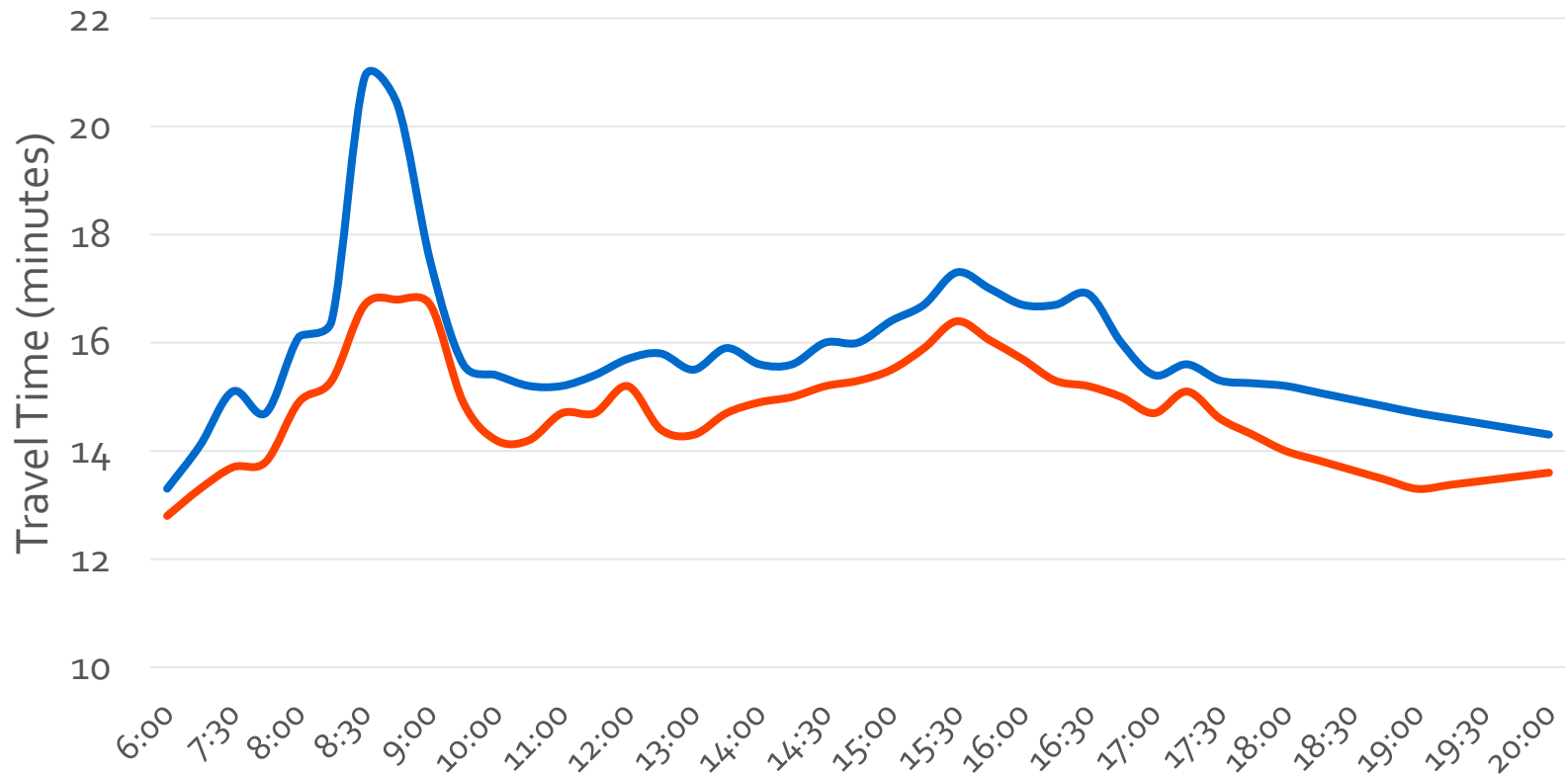
South Perimeter Road



South Perimeter Road



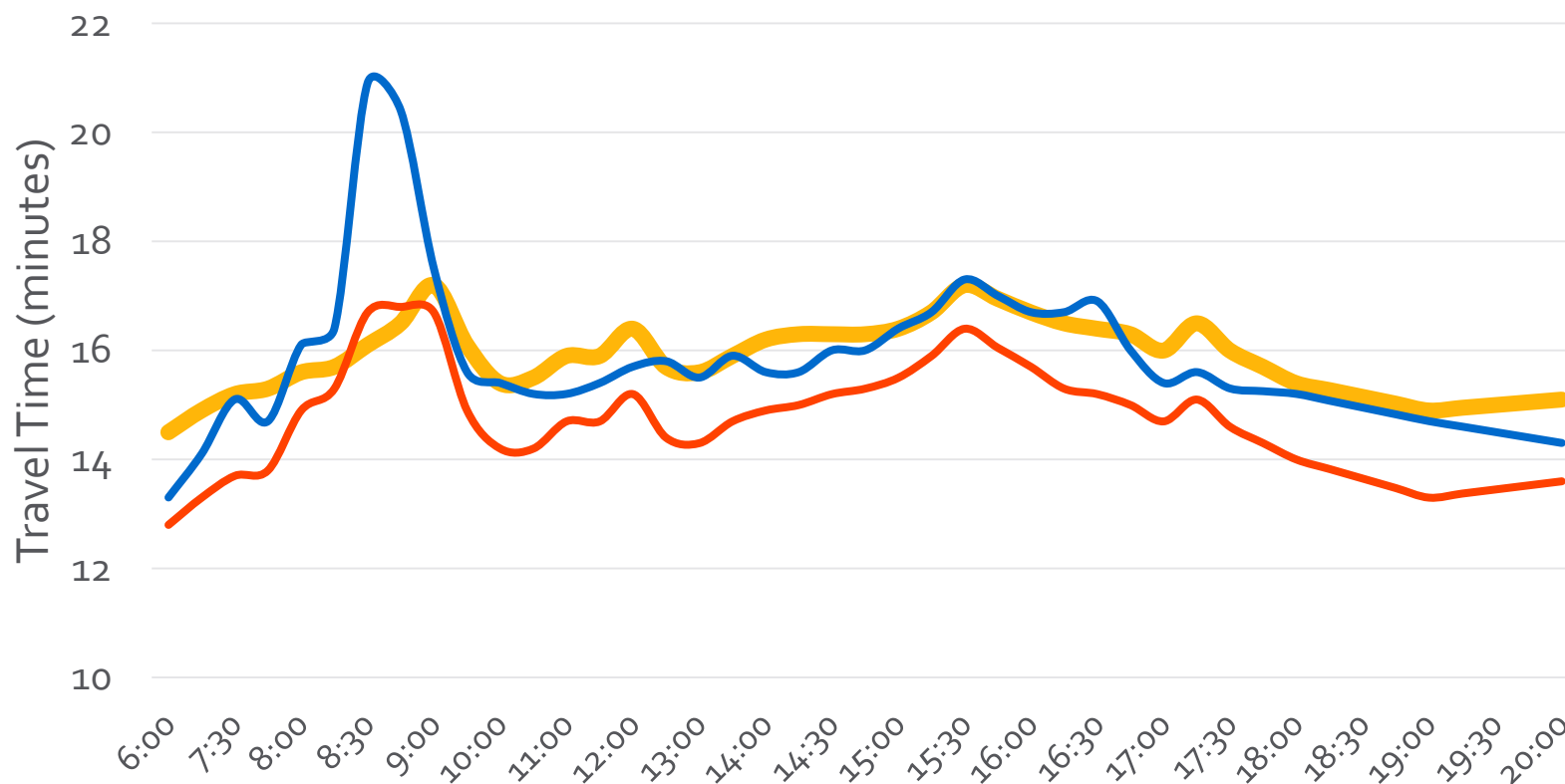
Current Travel Times



Upper Mission to Highway 97 on — Lakeshore — Gordon

City of **Kelowna**

Estimated Travel Time on SPR



Upper Mission to Highway 97 on SPR-Gordon Lakeshore Gordon

City of Kelowna

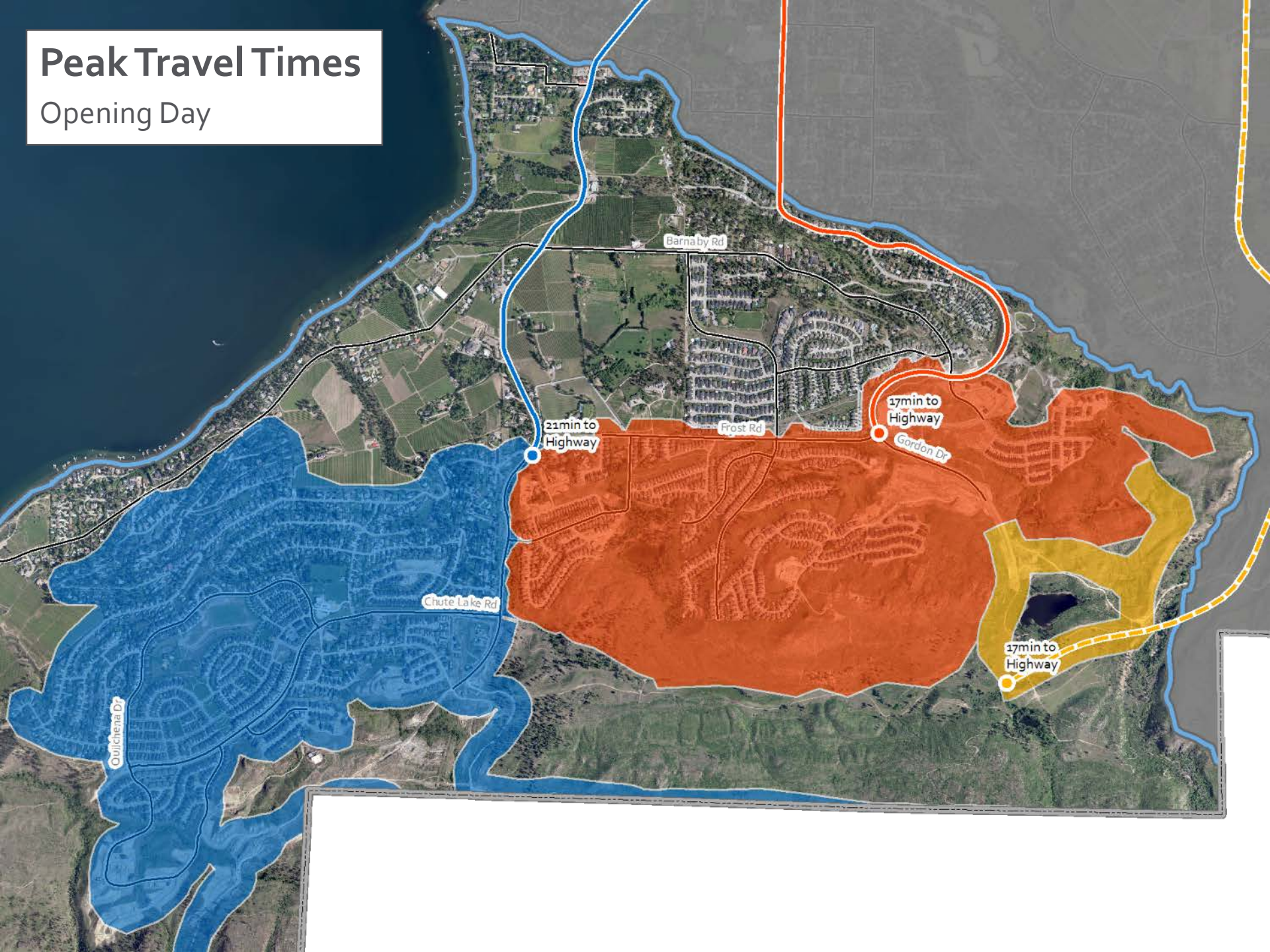
Peak Travel Times

Opening Day



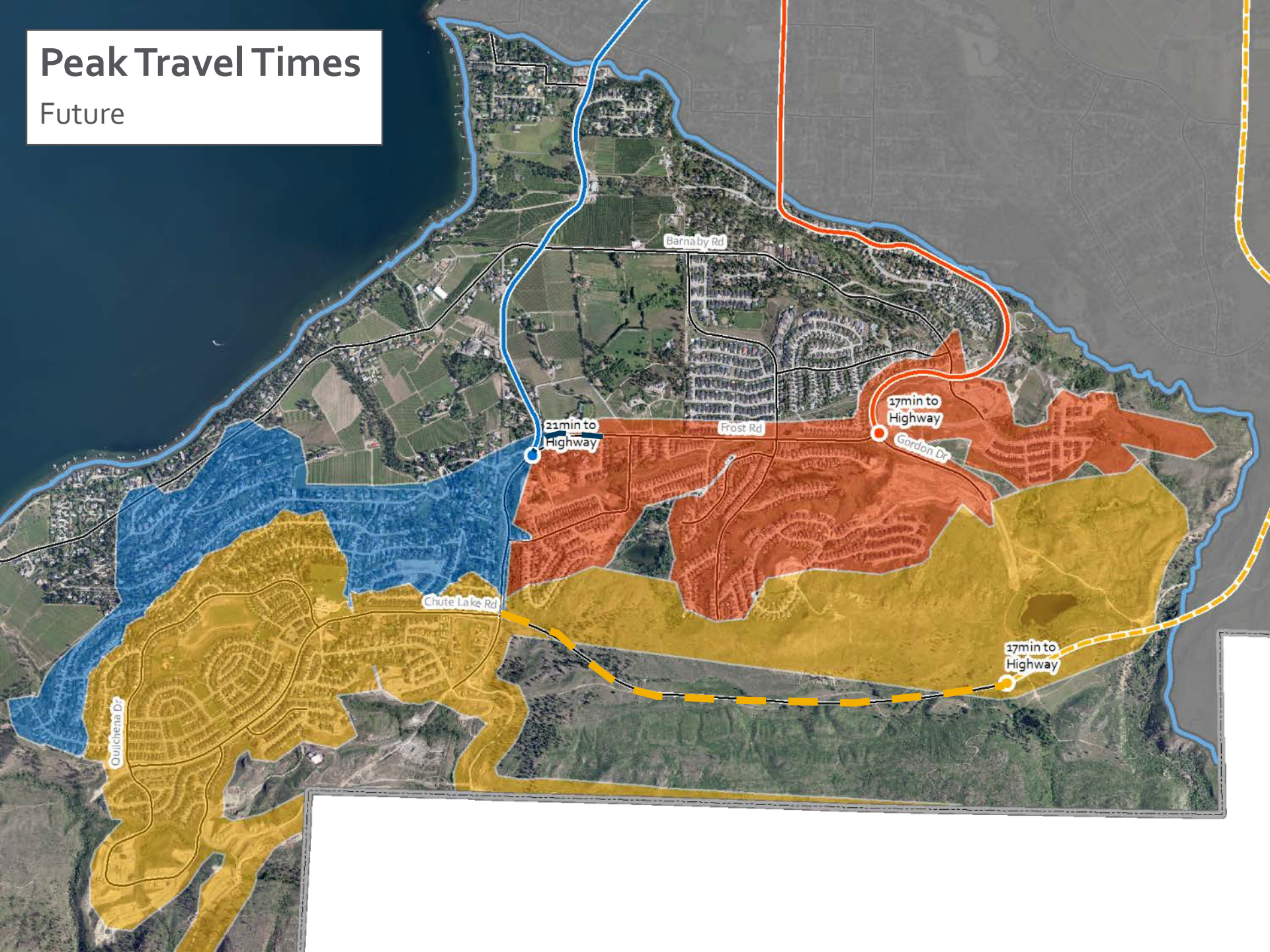
Peak Travel Times

Opening Day



Peak Travel Times

Future

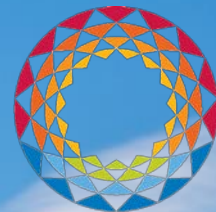


South Perimeter Road

- ▶ Initial benefits limited to the Ponds area
- ▶ Travel times on SPR are competitive when Lakeshore and Gordon are congested
- ▶ Wider benefits expected with connection to Chute Lake

Next steps

- ▶ Structural planning of the areas as part of the City's Transportation Master Plan
- ▶ Continue working on traffic operational efficiencies
 - ▶ School District
 - ▶ Technology
 - ▶ Traffic management
- ▶ Manage expectations
 - ▶ There will be a level of congestion at peaks
 - ▶ We can't guarantee free flow speeds at all times



City of
Kelowna

Questions?