



transportation

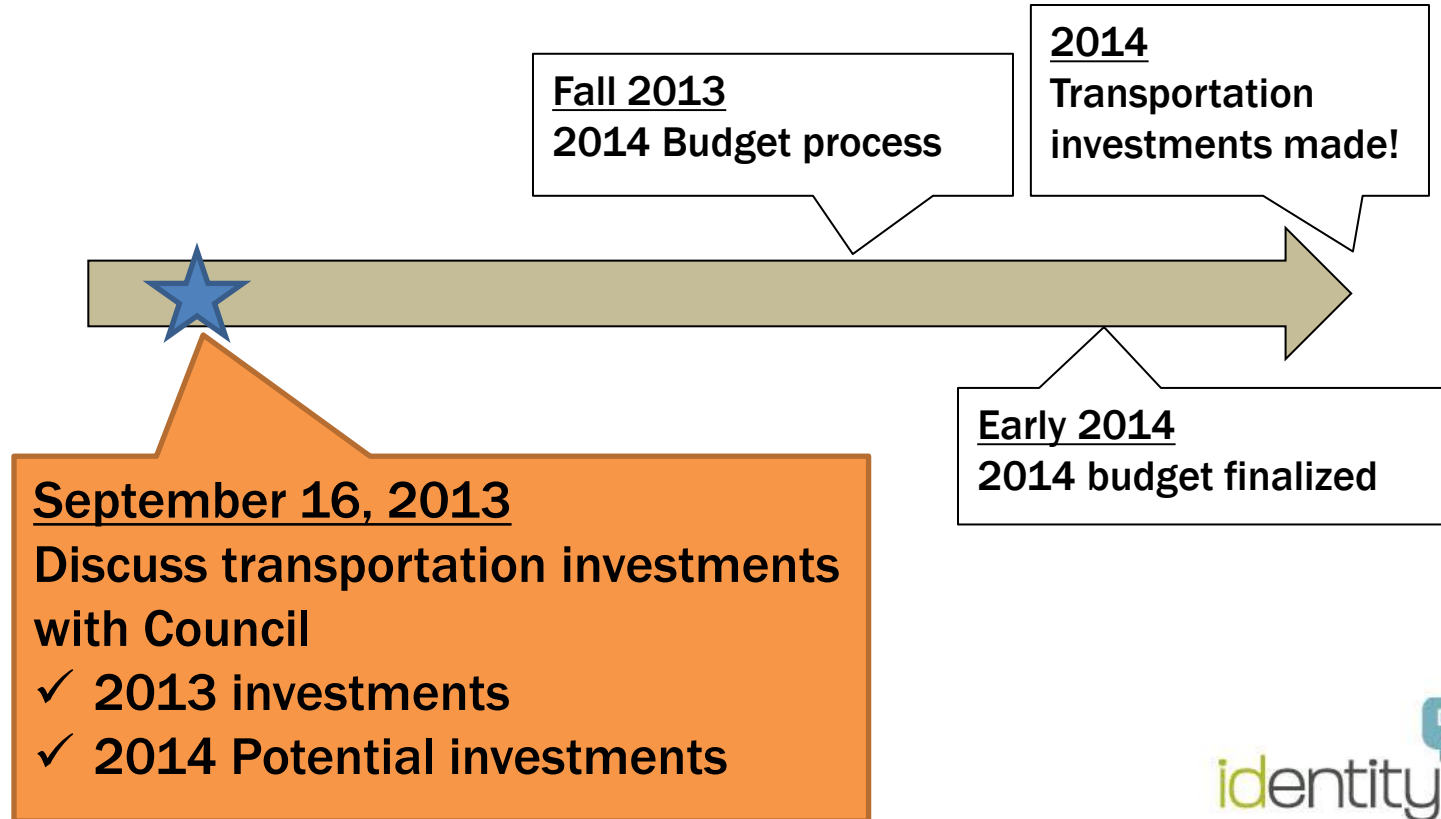
# Transportation Investments

September 16, 2013

# Process

Based on **Transportation Plan** approved July 2012

✓ Annual review of projects by Council





# Agenda

<p>Presentation and Discussion of 2013 Investments</p>	<p>7:00 – 7:45 pm</p>
<p>Presentation and Discussion of Possible 2014 Initiatives</p>	<p>7:45 – 9:00 pm</p>





# Transportation Section Work

## PLANNING

## ENGINEERING

## TRAFFIC OPS

Long range plans

Traffic calming

Signals

Policy

Local issues

Maintain visibility

Area studies

School liaison

Permits

Committees

Capacity analysis

Traffic counts

Research

Traffic control changes

Work orders

Communications

Development reviews

Signs and markings

Grant applications

Construction

Parking restrictions

Major projects

Road safety projects

Asset management

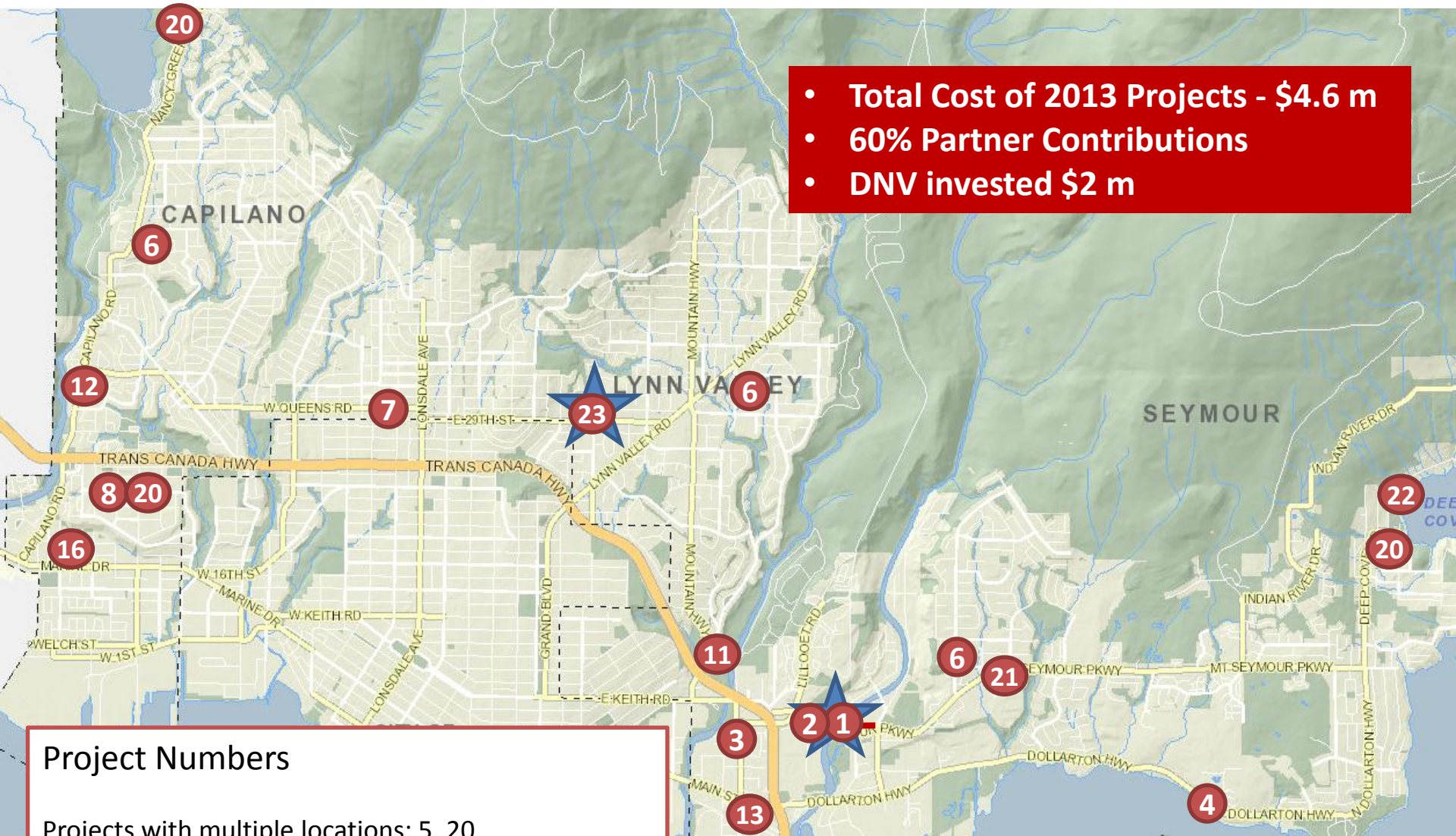


## Examples of 2013 planning work

- **Network and property requirement plans:**
  - Lower Capilano ✓
  - Lynn Valley ✓
  - Maplewood (draft reviewed)
  - Edgemont (not started yet)
- **Lower Lynn Interchanges (MOTI)**
- **Phibbs Exchange (TransLink)**
- **Marine Drive**
  - transportation + streetscape design
- **Street Naming**
- **Development Review**

# 2013 Investments

- Total Cost of 2013 Projects - \$4.6 m
- 60% Partner Contributions
- DNV invested \$2 m



## Project Numbers

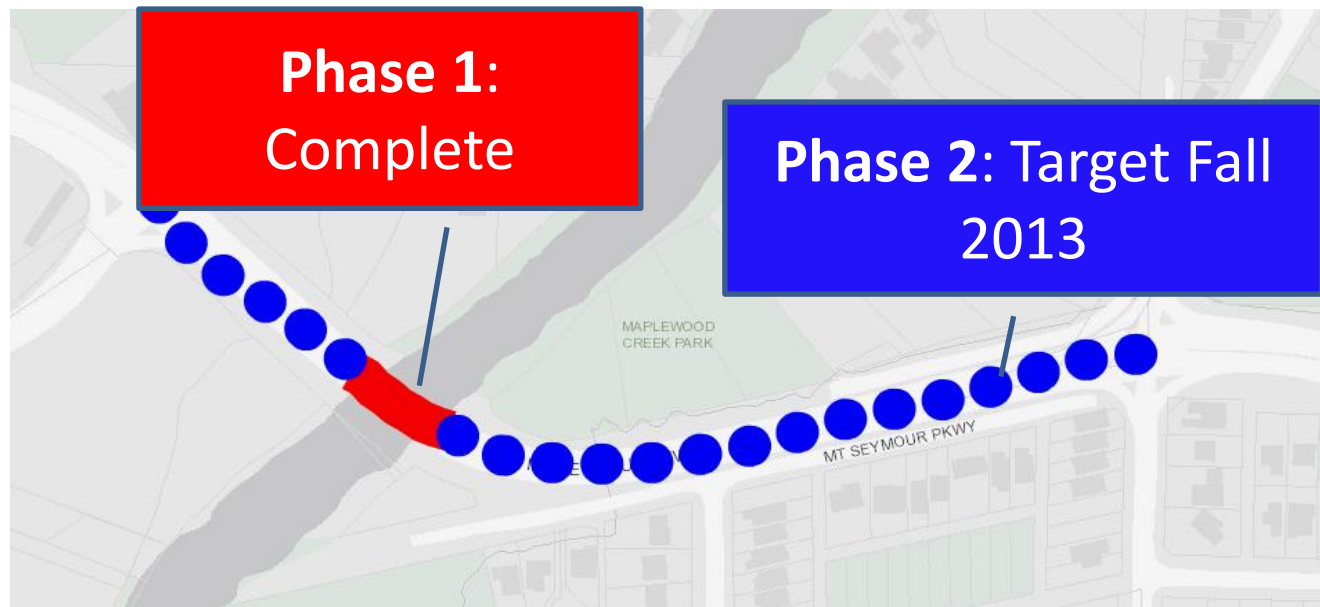
Projects with multiple locations: 5, 20

District-wide projects: 9, 10, 14, 15, 17, 18, 19



# Mount Seymour Parkway: Widening for Bike Lanes

- Phase 1 (bridge widening) complete
- Phase 2 (road widening) approved for 2013, but not started yet



# Mount Seymour Parkway: Widening for Bike Lanes

Staff finalizing Phase 2 funding:

- Grant issues
- Additional cost to avoid encroaching onto Squamish Reserve
- Need for ‘gateway’ landscaping

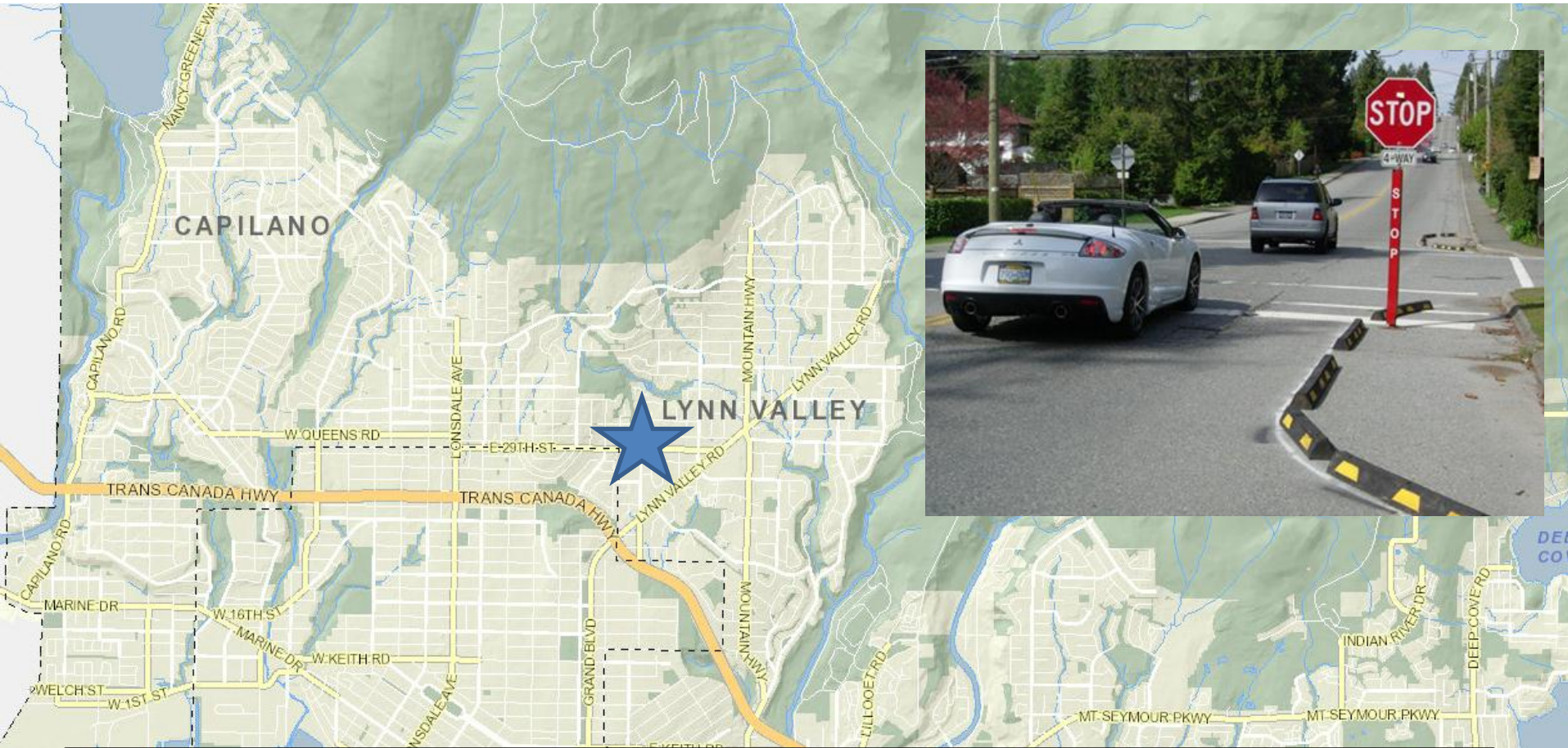


## ORIGINAL TOTAL BUDGET (\$Millions)

External	2.2
Internal	1.0
<b>TOTAL</b>	<b>3.2</b>



# 29<sup>th</sup> Street and William Avenue



Approved by Council as part of **Boundary Kirkstone Traffic Calming Project**.  
Capital funding is approved.  
Council requested project be put hold in 2012.  
Could be done with sidewalk.



# Speed Reader Boards (9)

1<sup>st</sup> one on Capilano Road

Five more installed on:

- Dollarton Highway
- Mount Seymour Parkway (2)  
Lillooet Road
- Capilano Road (south of Montroyal)

Three more planned:

- Mountain Highway near 16<sup>th</sup> Street
- Lonsdale Avenue near Carisbrooke Road
- Additional board to move

Preliminary: speeds down 5-6 km/hr

Supplemented by portable trailer





# Comments?

# Transportation Plan: Five-Year Priorities

## District-Wide

- Spirit Trail
- Safe routes to school
- Pedestrian crossings
- Bike routes through re-paving
- Transit supportive improvements

## Lynn Valley

- Safety improvement (1)
- Sidewalks (4)
- Bike routes (2)
- Transit stop improvements

## Lower Lynn

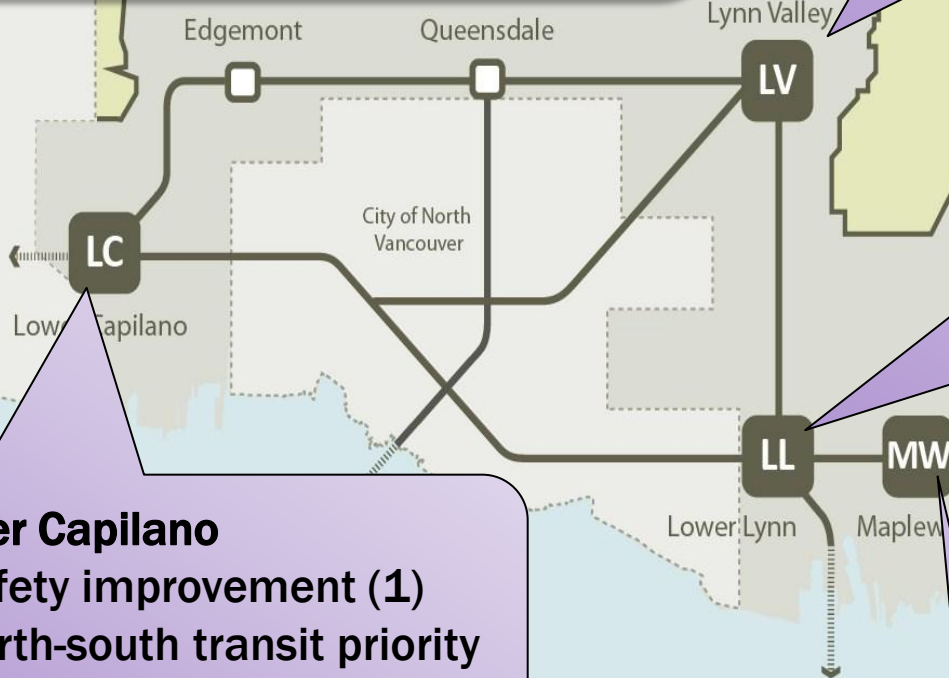
- Highway 1 Interchanges
- North Service Road
- Keith Road and Bridge
- Spirit Trail bridge
- Sidewalks (1)
- Bike routes (3)
- Phibbs Exchange

## Lower Capilano

- Safety improvement (1)
- North-south transit priority
- Bike routes (2)

## Maplewood

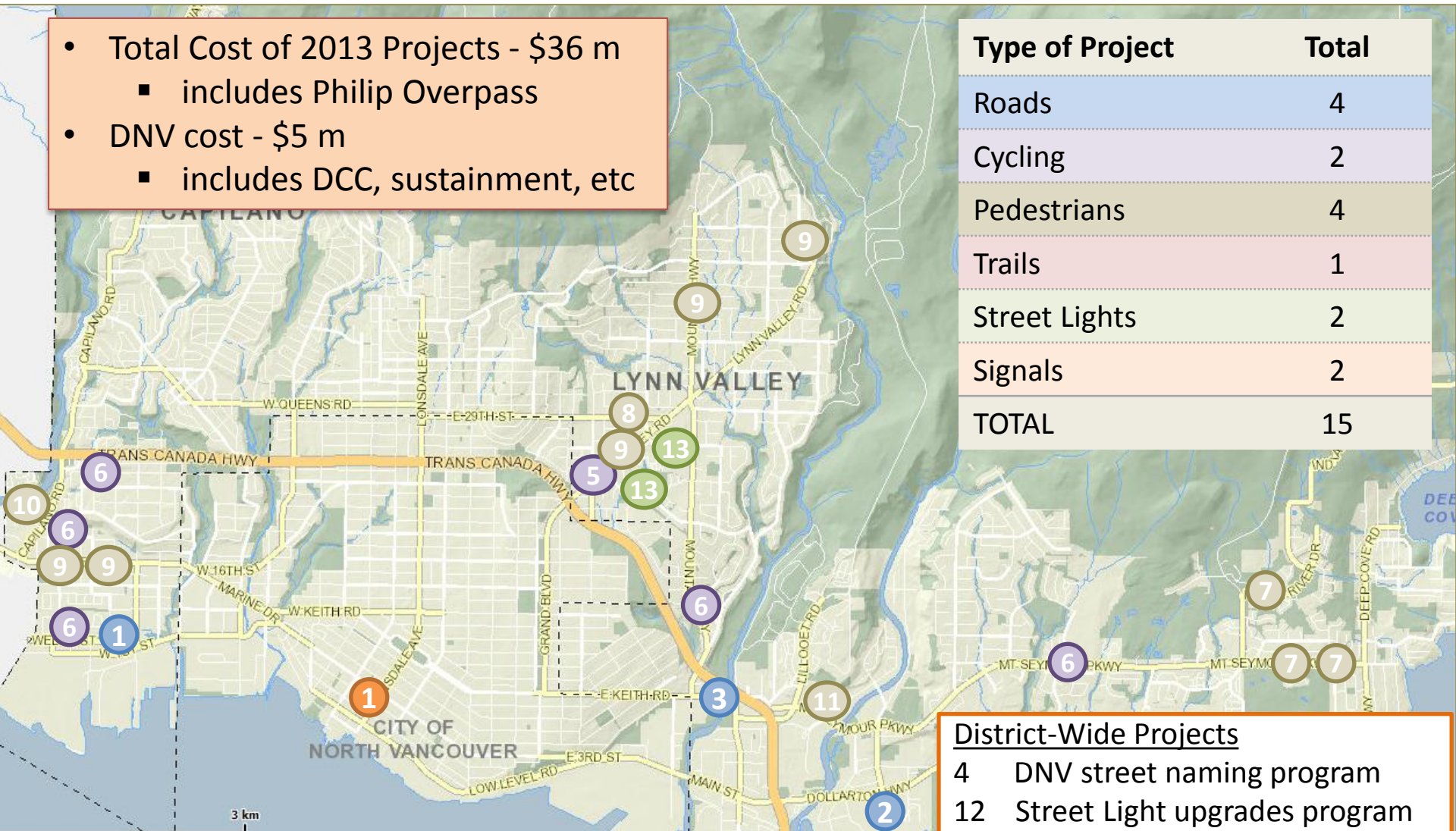
- Safety improvement (1)
- Bike route (1)
- Transit stop improvements
- Barrow-Spicer connector



# Proposed 2014 Capital Investments

- Total Cost of 2013 Projects - \$36 m
  - includes Philip Overpass
- DNV cost - \$5 m
  - includes DCC, sustainment, etc

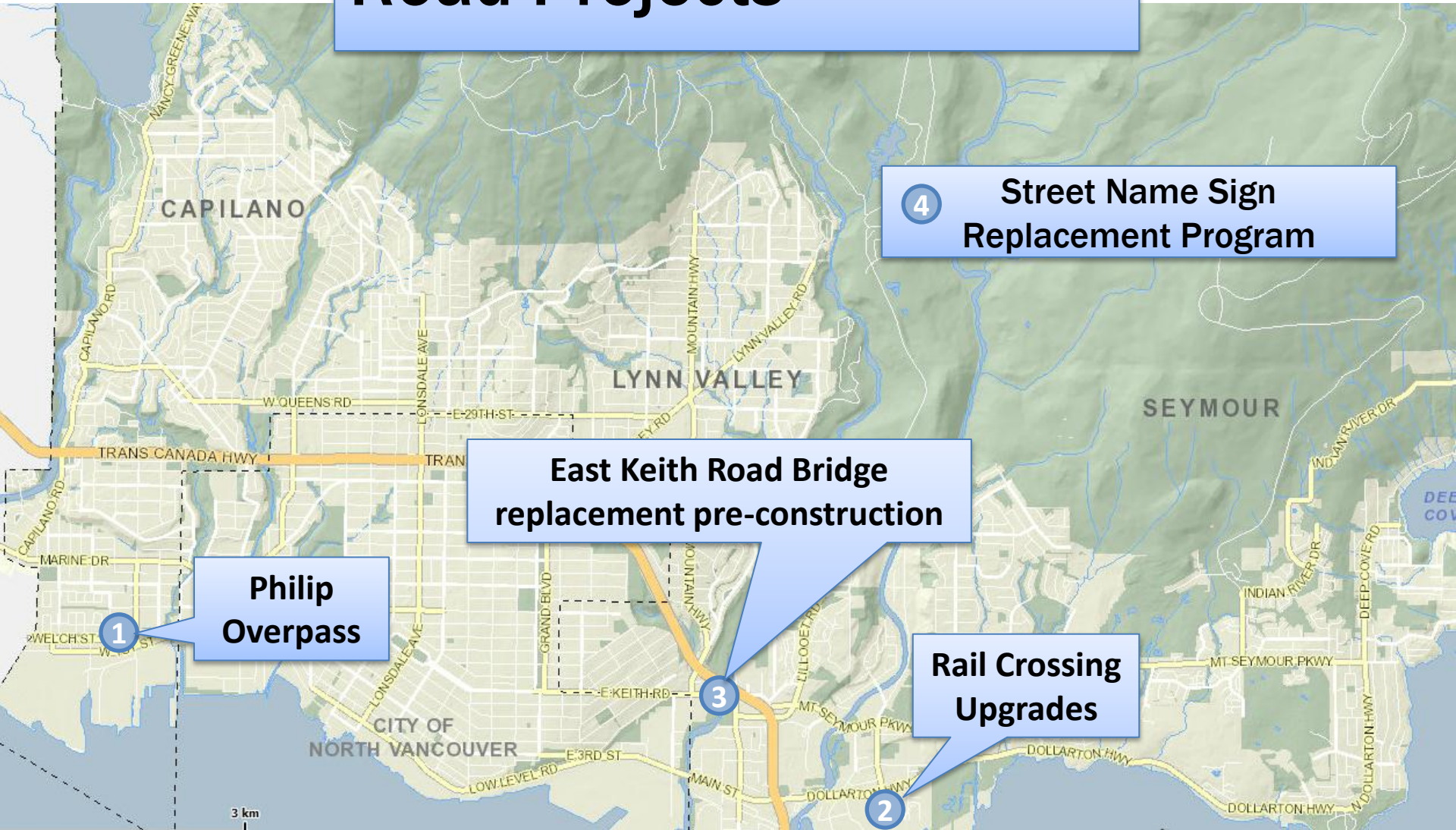
Type of Project	Total
Roads	4
Cycling	2
Pedestrians	4
Trails	1
Street Lights	2
Signals	2
<b>TOTAL</b>	<b>15</b>



## District-Wide Projects

- 4 DNV street naming program
- 12 Street Light upgrades program
- 14 Traffic signal infrastructure
- 15 Signal software system

# Road Projects



**1**  
**Philip  
Overpass**

**3**  
**East Keith Road Bridge  
replacement pre-construction**

**2**  
**Rail Crossing  
Upgrades**

**4**  
**Street Name Sign  
Replacement Program**



# Rail Safety

- Four crossings in Seymour Industrial area
- Supplements Philip overpass & CNV improvements (consulting study done)
- Clearing brush/vegetation
- Signage and pavement markings





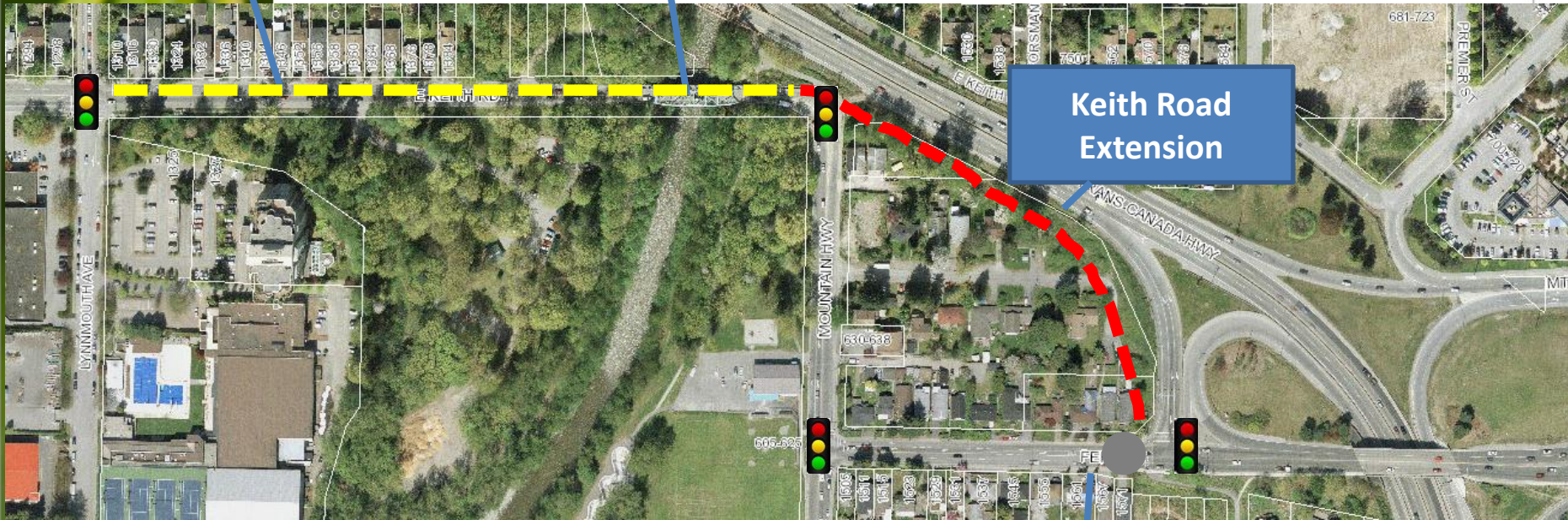
# East Keith Road

Keith Road  
Widening to  
match

New 4-Lane  
Keith Bridge

Keith Road  
Extension

Fern Street cul-de-sac  
Local Traffic Only





# Keith Road Coordination

## 2013

- Bridge design start
- Extension starts

## 2014

- Extension Open
- Utilities moved
- Land finalized

**Target 2015  
to replace  
bridge**





# Bridge and Road Design underway...

## Factors to consider in final concept selection:

- Impacted trees
- Fish habitat
- High voltage lines
- Cost to build
- Cost to maintain
- Traffic delays
- Bridgman Park changes
- Trail experience
- Aesthetics



## **NEXT:**

**Public announcement - soon**  
**Council Workshop - October**  
**Open House - November**

# Cycling Projects

**Ridgewood Drive:  
signs and markings**

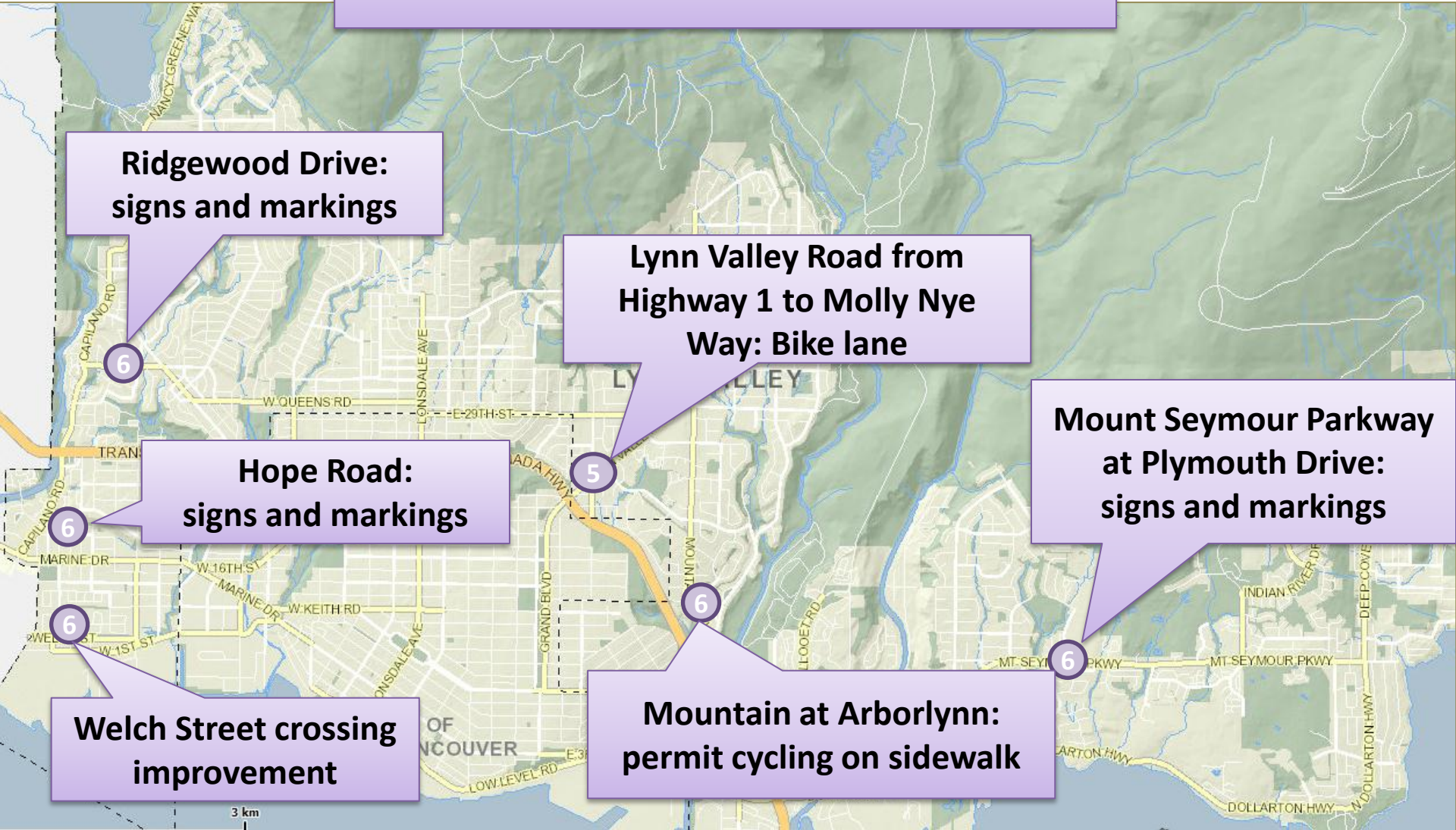
**Lynn Valley Road from  
Highway 1 to Molly Nye  
Way: Bike lane**

**Mount Seymour Parkway  
at Plymouth Drive:  
signs and markings**

**Hope Road:  
signs and markings**

**Mountain at Arborlynn:  
permit cycling on sidewalk**

**Welch Street crossing  
improvement**



# Pedestrians and Trails

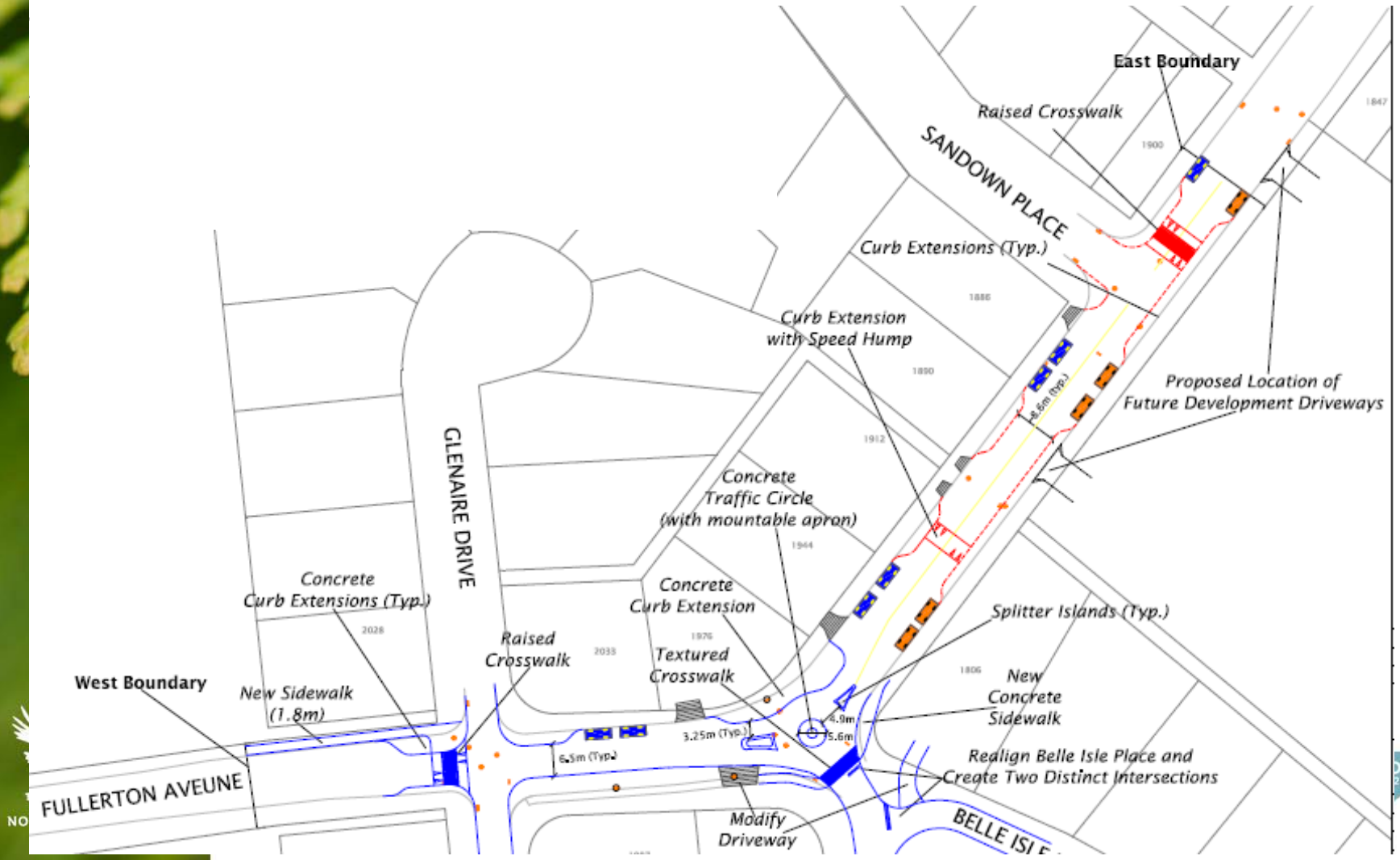




# Fullerton Traffic Calming

- **Public input**
  - **118 letters sent**
  - **Supported by 25/31 residents**
  - **No official response from Woodcroft**
- **Total Cost \$225K**
  - **\$90K proposed by development**
  - **\$135K unfunded**

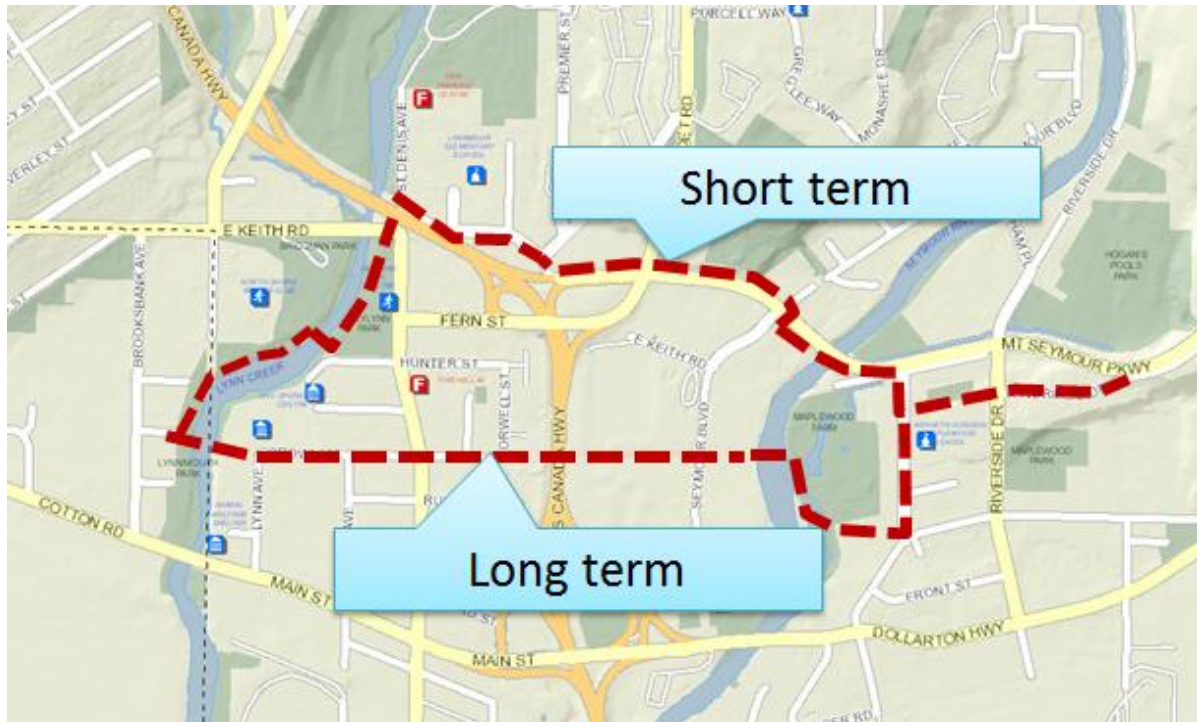
# Fullerton Traffic Calming Plan





# Spirit Trail Central Section

- Council requested route review
- Study looked at four route options
- Expect northern routes preferred





## Route being selected based on....

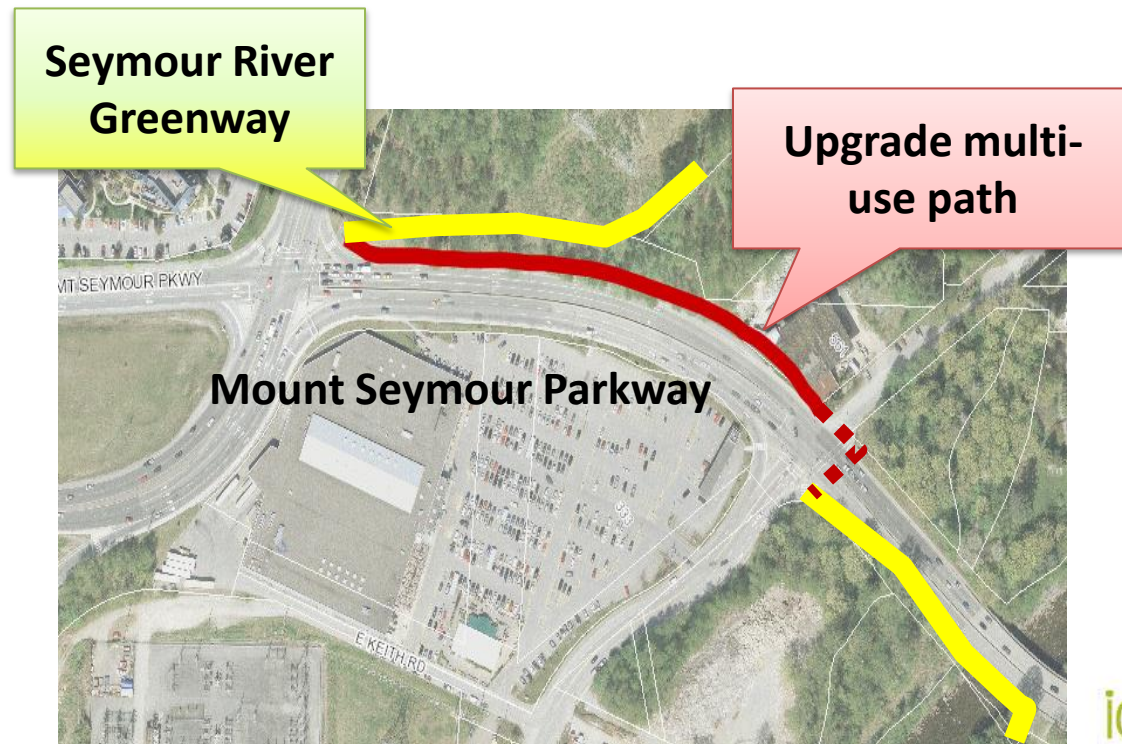
- ✓ Accessible (flat)
- ✓ Connects to existing bike and pedestrian routes
- ✓ Compatible with OCP plans
- ✓ Lowest Cost
- ✓ Pleasant Experience
- ✓ Minimize impact to wildlife and natural systems
- ✓ Near Destinations and Amenities
- ✓ Safe from Traffic

Report being prepared for  
Council adoption.



# Spirit Trail Central Section

- Seeking Council adoption of revised route in 2013
- project recommended for 2014 is part of Seymour River Greenway

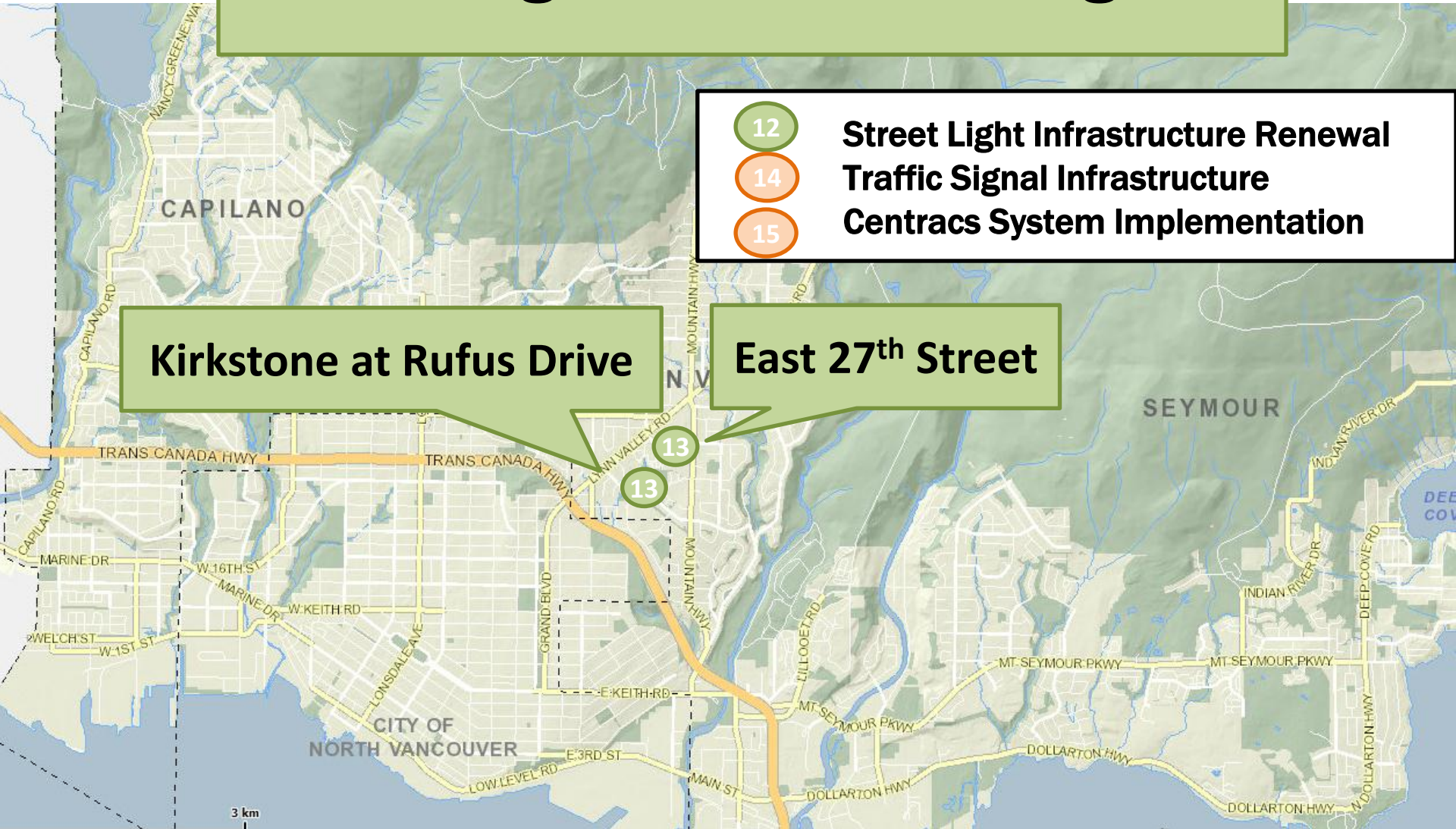


# Street Lights and Traffic Signals

- 12 Street Light Infrastructure Renewal
- 14 Traffic Signal Infrastructure
- 15 Centrac System Implementation

Kirkstone at Rufus Drive

East 27<sup>th</sup> Street





## Other Possible 2014 Activities

- Community education partnerships
- School safety study (1 or 2 new schools)
- Deep Cove parking and circulation study
- Parking wayfinding study
- Review of transportation data
- Upper Mountain Highway – before/after parking study
- Bus shelter contract renewal



# Comments and Summary

