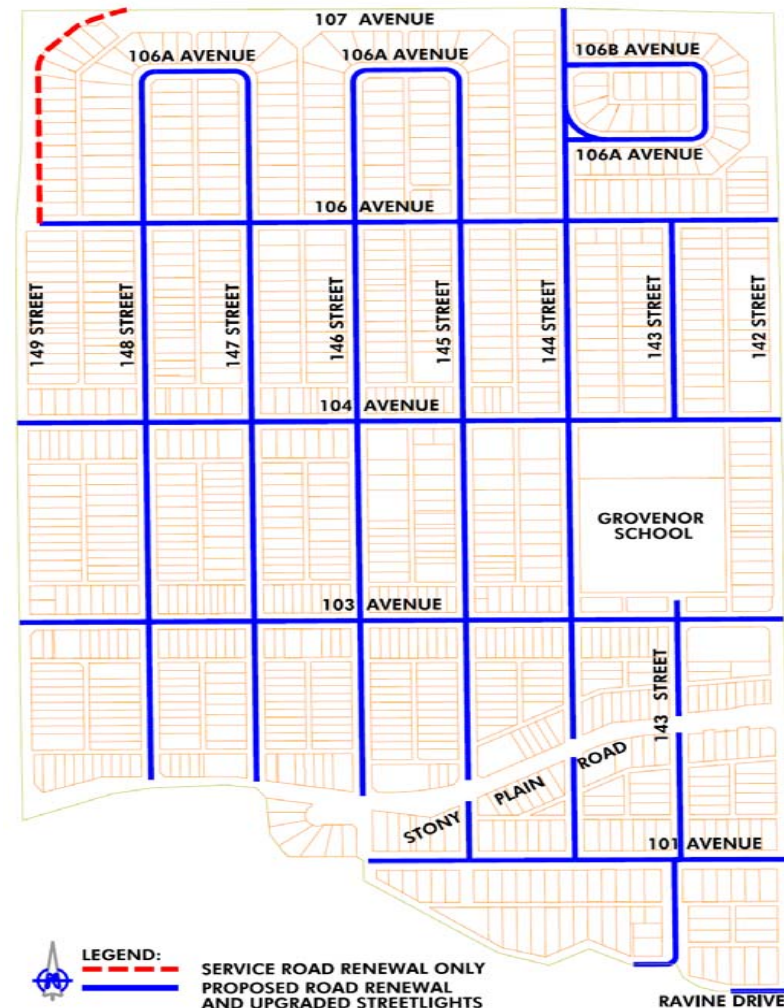


GROVENOR NEIGHBOURHOOD RENEWAL PROGRAM



Condition & Reconstruction Scope

- Age: +50 years (1957-66)
- Pavement: Poor condition
- Concrete: Poor/Fair condition
- Surface works \$17 Million (conceptual)
- Includes replacement of pavement, sidewalk, curb and gutter, street lighting
- Does NOT include alleys or arterial roadways



Design Considerations

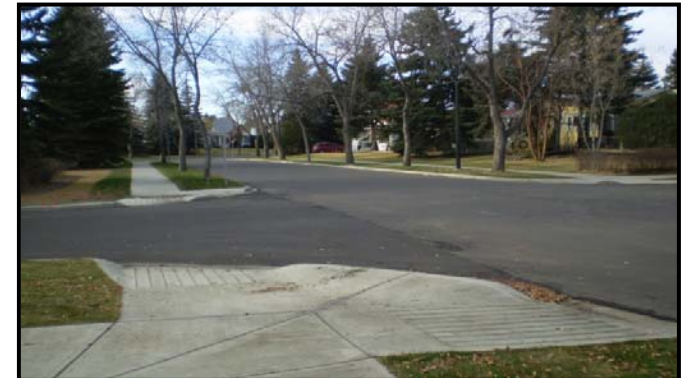
Active Modes

- Addressing accessibility issues by providing new sidewalk/trail connections



Intersections

- Adding curb ramps, improving curb radius, and improving the overall operation



Design Considerations

Road Width

- Where possible, roads are sized to current standards
Collector = 11.5 m
Local = 9.0 m



Curb Type

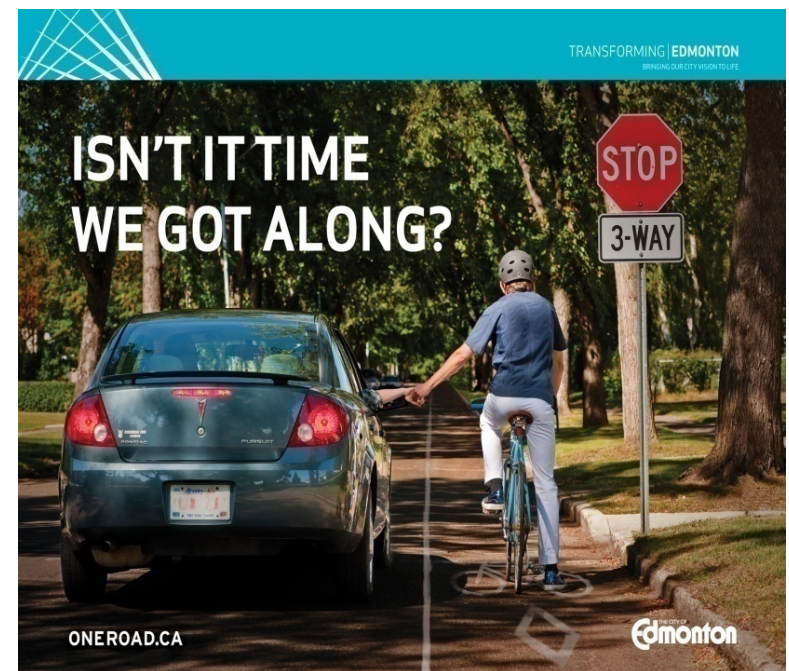
- Roll face curb
- Straight face curb



Active Transportation

Improve infrastructure

- **Sidewalks:** In residential neighbourhoods, ensure accessibility to all bus stops and provide a sidewalk on at least one side of the street.
- **Bicycle routes:** Use the Bicycle Transportation Plan to implement bike lanes, shared-use lanes and shared-use pathways.



Active Transportation

New sidewalk:

- 149 St service road from 107 Ave to 106 Ave
 - Reduces road width from 6.7 m to 6 m
 - Two-Way changed to one-way



Active Transportation

New sidewalk:

- Connection from existing sidewalk to new curb ramp



Active Transportation

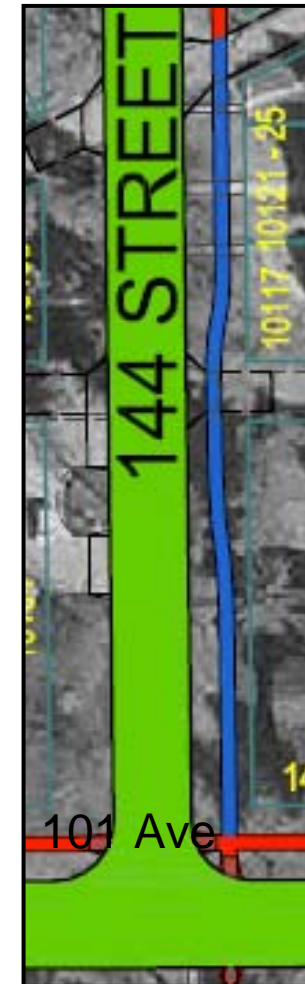
New sidewalk:

- South side of 104 Ave from 146 St to 142 St



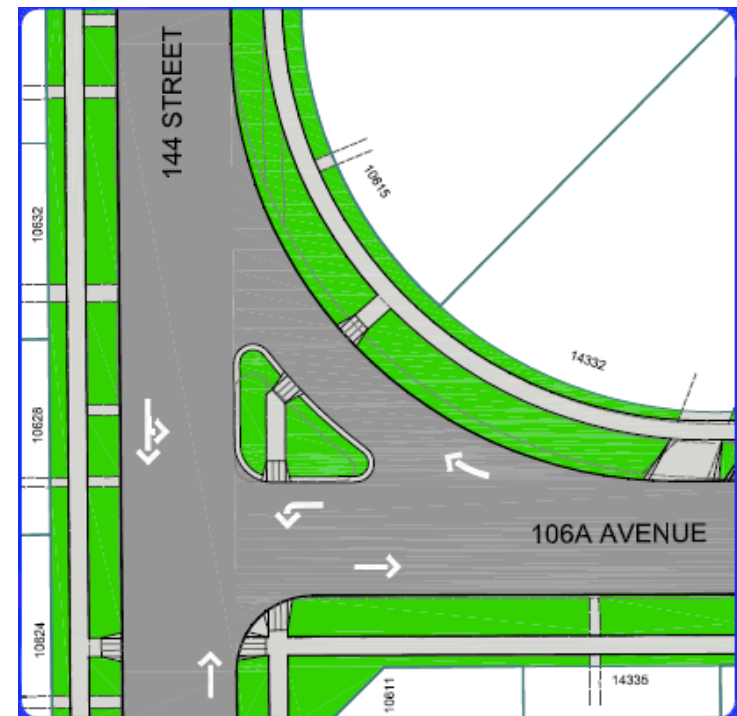
Active Transportation

- East side of 144 St from south of the alley connection to 101 Ave
- North side of 101 Ave from Ravine Point to 145 St



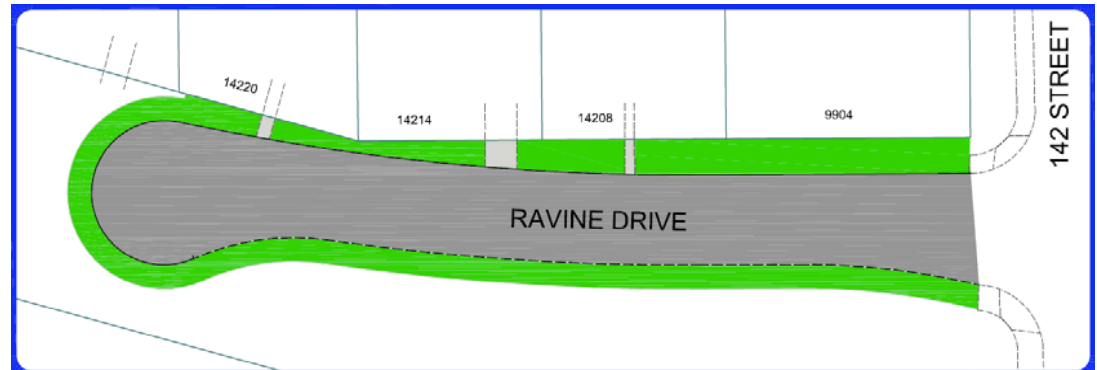
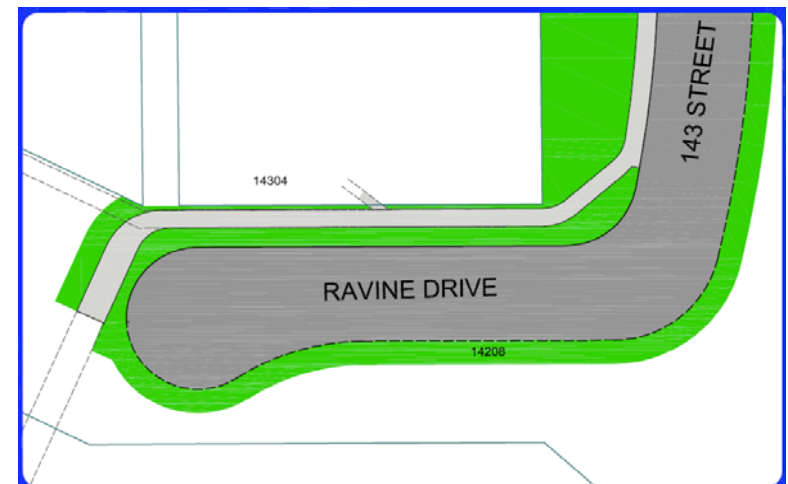
Intersection Improvements

- Island at 144 St and 106A Ave
 - Larger island and right turning lane width reduced
 - Improve sightlines for vehicles
 - Improve intersection operation
 - Reduce pedestrian crossing distance



Road Upgrades

- Urbanization of Ravine Drive
 - Reconstruction of road and constructing curb and gutter
 - West of 143 St and 142 St south of 101 Ave



Curb Design

- Straight face curb
 - Collector roadways
 - Bus routes
 - School areas
 - Park areas
- Roll faced curbs
 - Local roadways





(Photos Taken by J.Nicholls: 2010)

Streetlight Design Standards

Neighbourhood streetlight system

- Upgraded to energy efficient LED lighting, the new City standard for streetlights.



Construction Staging

- Staged over two years (2013-14)
- Ultimate staging dependant on weather conditions, coordination with utilities, and unforeseen design and construction issues.
- To create minimal disturbance for students, construction activities around the schools will be scheduled during the summer months.

