Strathcona Neighbourhood Renewal

Draft Concept Design

Tonight is for you. Learn everything you can. Share all your ideas.



What is Neighbourhood Renewal?

Creating a design with you for your neighbourhood.

What's included:

- New neighbourhood roads (excludes Whyte Avenue, 99 Street, Calgary Trail and Gateway Boulevard)
- New sidewalks to replace existing
- New sidewalks where they are missing, where possible
- New streetlights

What could also be included:

 Enhancements to pedestrian crossings, park spaces, paths, connections, bike infrastructure, etc.



Your Role in the Creation of the Renewal Design

Share your local knowledge:

- What's working
- What's not working
- What needs improvement
- What is desired for the future

Your neighbourhood design will guide its evolution beginning with the replacement of road surfaces, sidewalks and street lights.

New infrastructure will be in place for the next 30 to 50 years. Let's get it right!



Tonight You Can

- Learn about neighbourhood renewal
- Learn about the public engagement process and what we heard to date
- Review the draft concept design and provide input
- Ask questions of the project team



Public Engagement Opportunities

Visit the table maps, ask questions of the project team, and share your feedback about the proposed concept plan for:

- Measures that reduce speed and shortcutting
- Bike routes and facility types
- Sidewalks and pedestrian intersection safety
- Open and park spaces
- 30km/hr Council motion



Public Engagement Opportunities

There are many opportunities for you to provide your views and share input during the project phases.

Since January we've heard from residents, the business community, area stakeholders and organizations to help inform the draft concept design.

At every project phase, we continue to listen and learn.

Vision, Issues & Concerns

January-February 2018

Community Newsletter

Neighbourhood Visioning Survey

Concept Options

March-April 2018

Options

Neighbourhood

Survey - Options

Ideas and Options Workshop

Public Engagement Event

Draft
Concept
We are Here

May-August 2018

Public Engagement Event – Draft Design

Neighbourhood Survey – Draft Design

Community Outreach

Final Concept

September 2018

Concept Plan Refinement

Construction

May 2019-2021

Pre-Construction Communication

Construction Starts



Open and Park Spaces

WHAT WE HEARD	WHAT WE CONSIDERED	WHAT IS PROPOSED IN THE DRAFT CONCEPT DESIGN
Trees are very valued within the community and should be protected	Areas where trees were missing in Strathcona	New tree plantings along 86 Avenue
There is a lack of park spaces east of 99 Street for residents to gather	Current land ownership of open spaces within neighbourhood	Proposed parklet east of 99 Street
There is community support for additional community gardens in the neighbourhood	Opportunities to coordinate with other City departments for planning and funding for open spaces redevelopment	New community garden location identified
Existing parks need improvements and better maintenance	Review of existing usage and improvements that align with current and future programming	Proposed improvements to Tubby Bateman Park and Fred A. Morie Park
Improvements to End of Steel Park are needed along with redevelopment of the parking lot east of the farmer's market	Alignment with Plan Whyte project for improvements	Improvements to pedestrian connections and safety are currently under review with the Plan Whyte project
Walking and biking improvements to the railway corridor are desired	Current land ownership of open spaces within neighbourhood	The railway corridor is not owned by the City
Need for additional bike parking, benches and seating throughout the neighbourhood		This will be considered at the next stage of design once pedestrian and bike corridors are confirmed

See images of the proposed concepts on the following boards.



Open and Park Spaces









LEGEND



PROPOSED NEW SIDEWALKS



PROPOSED TREE

EXISTING TREE



EXISTING PLANTING

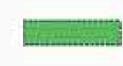


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Open and Park Spaces



EXISTING PARKS & OPEN SPACES



RECOMMENDED PARKS & OPEN SPACE IMPROVEMENTS



OPEN SPACE DIRECTION (FOR FURTHER REVIEW)

RECOMMENDED IMPROVEMENTS

FRED & MORE PAR

Add aidevalles/connection

28 STHEET

80 AVENUE New tree plantings along 86 Avenue

COMMUNITY GARDENS

New location for a community garden identified on 97th Avenue west of Calgary Teal

TUBBY BAYEMAN FARI

(FOR FURTHER REVIEW)

END OF STEEL PARK

Alignment is needed with the Plan Whyte project for improvements at End of Steel Parl Improvements to pedestrian corrections and askely are currently under review with Plan Whyte.

RAIL LINE / STREETCAR ROUTE

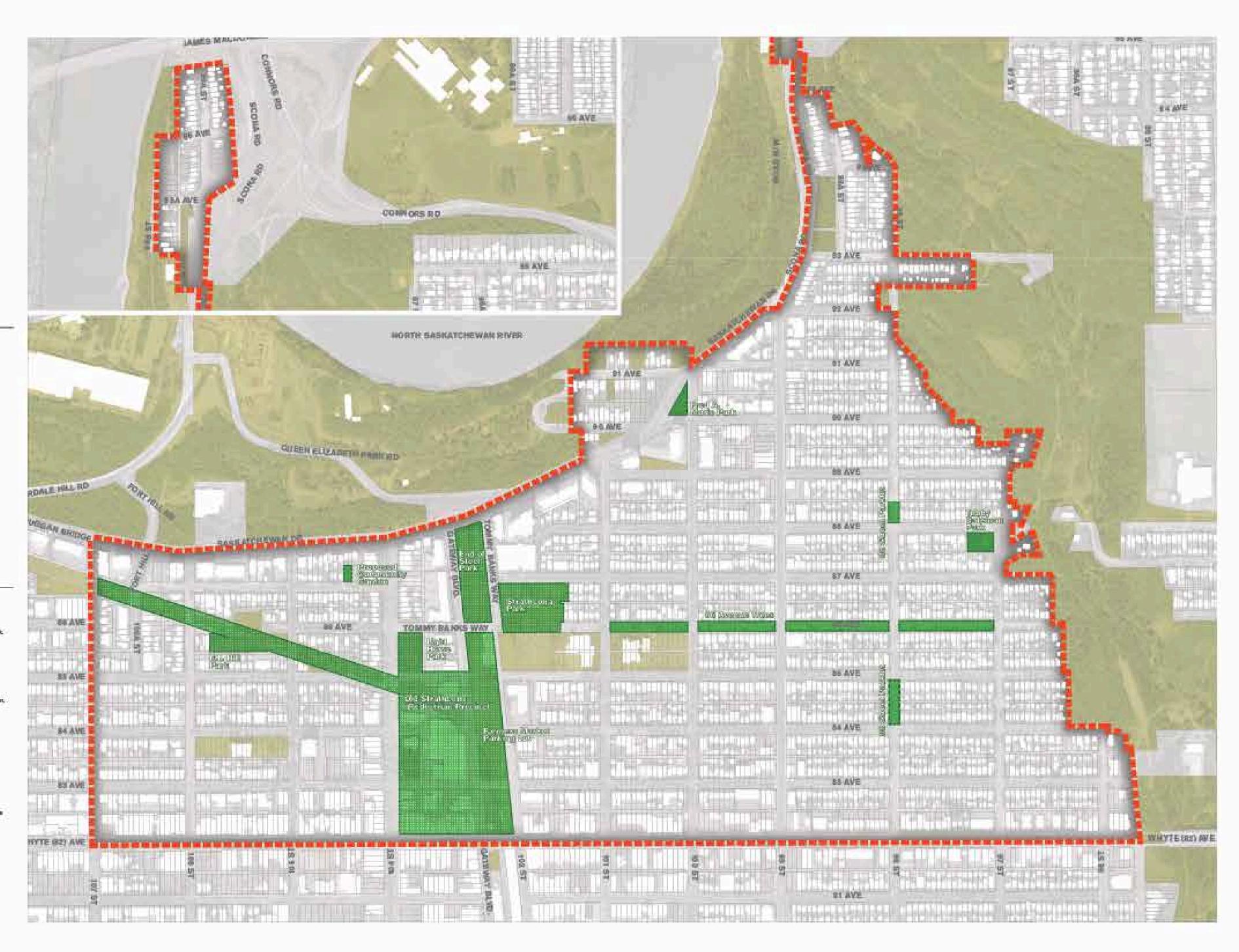
Walking and biking improvements to the tailway consider are desired. The nailway consider is not owned by the City and is therefore not included on the chaft concept plan.

FARMERSI MARKET PARKING LOT

Redevelopment and better utleation of the land for the parking let is desired. Improvements to peclestrian connections and safety are currently under review with the Plan Whyte project

GENERAL NEIGHBOURHOOD

There is a need for additional bike parking, benches and seating throughout the neighbourhood. This will be considered at the next stage of design once pedestrian and bike considers are confirmed.



Boulevard Trees

What We Heard

 Trees are valued in this community; where possible keep trees and prevent damage

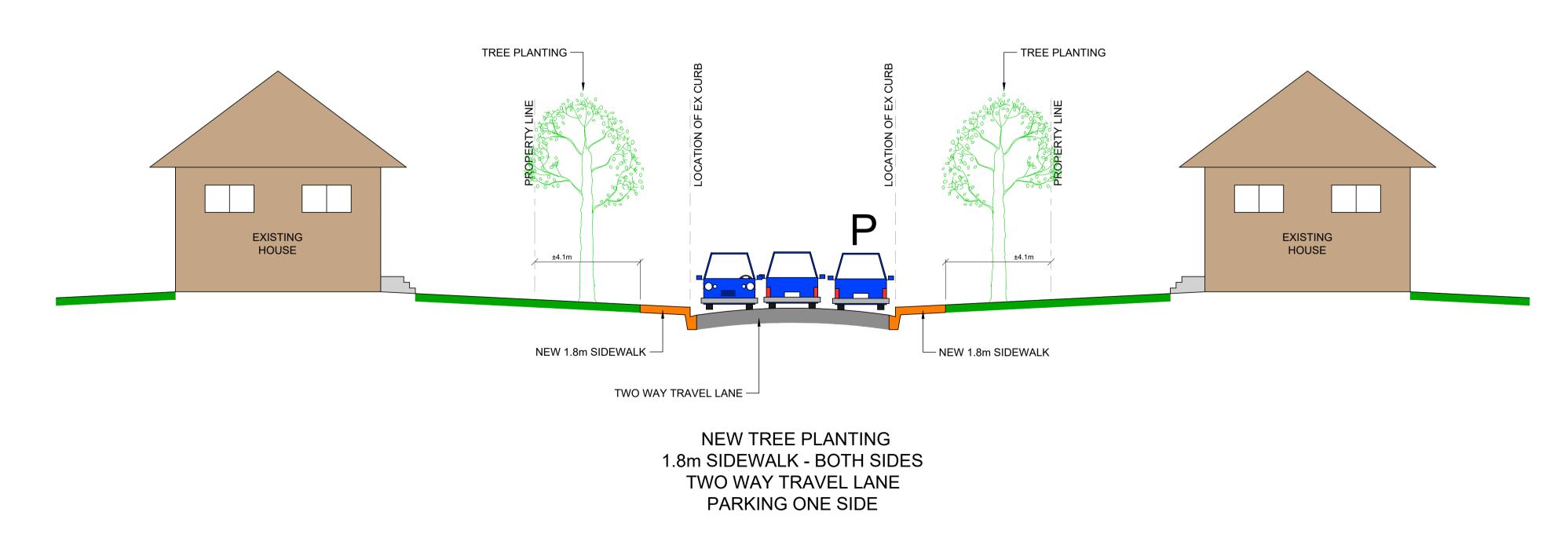
In some circumstances trees may need to be removed:

- to make space for sidewalks, on-street parking and loading zones
- where the tree is not in good health condition

In the event a tree is removed, the tree's value will be reinvested as new planting in the neighbourhood.

WHAT IS PROPOSED IN THE DRAFT CONCEPT

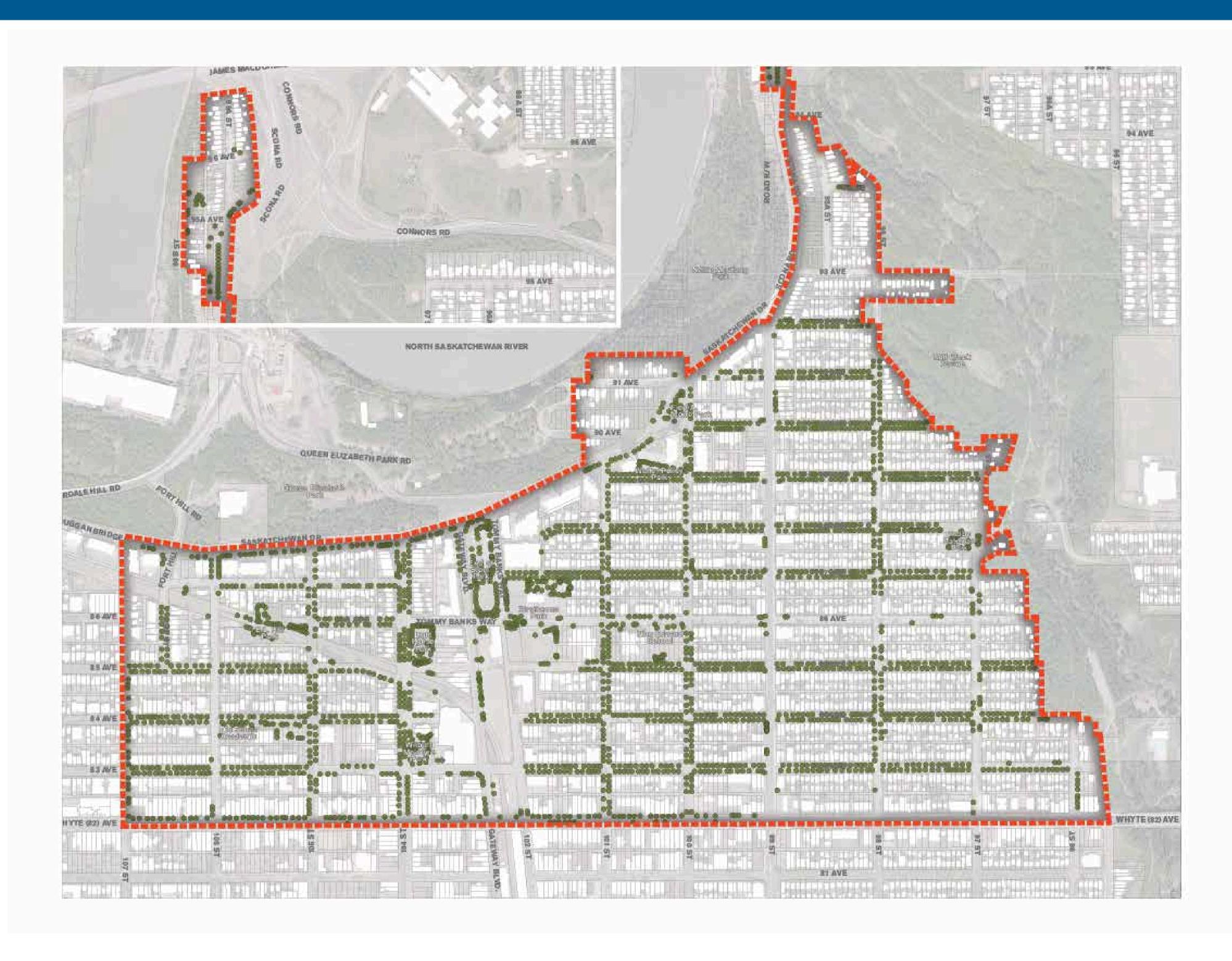
86 Avenue has been identified as a location for new plantings – the image below shows the location of the new plantings.





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Existing Trees



Sidewalks – Existing and Missing Links

WHAT WE HEARD	WHAT WE CONSIDERED	WHAT IS PROPOSED IN THE DRAFT CONCEPT DESIGN
 Concern over poor condition of existing sidewalks Need to improve overall accessibility of the neighbourhood Need to add missing sidewalk connections to improve pedestrian flow through the neighbourhood When asked about trade-off considerations needed to make room for missing sidewalks, the following in order of preference was heard: Turn the street into a one-way for cars Sidewalk on one side only Remove on-street parking Remove boulevard trees 	 PROPOSED SIDEWALKS - these are sidewalks that will be added. Considerations for the decision are: Complete a connection to schools Improve access to destinations Improve circulation through neighbourhood Improve pedestrian safety POSSIBLE SIDEWALKS - these are sections that are under review. Additional considerations need more time to investigate. These considerations are: Conflicts with trees / power poles / hydrants Appropriate on-street slope / grade Impact to street parking NO SIDEWALK - these are sections where a decision has been made to not include a missing section of sidewalk. The following considerations were used to inform this decision: Conflicts with trees / power poles / hydrants Steep slopes that require stabilization Cost / benefit of additional sidewalk 	The draft concept design shows 3 options for sidewalks that are missing: • Locations of Proposed Sidewalks – these are sidewalks that will be added. • Locations of Possible Sidewalks – these are sections that are under review. • Locations of No Sidewalk Additions— these are sections where a decision has been made to not include a missing section of sidewalk.

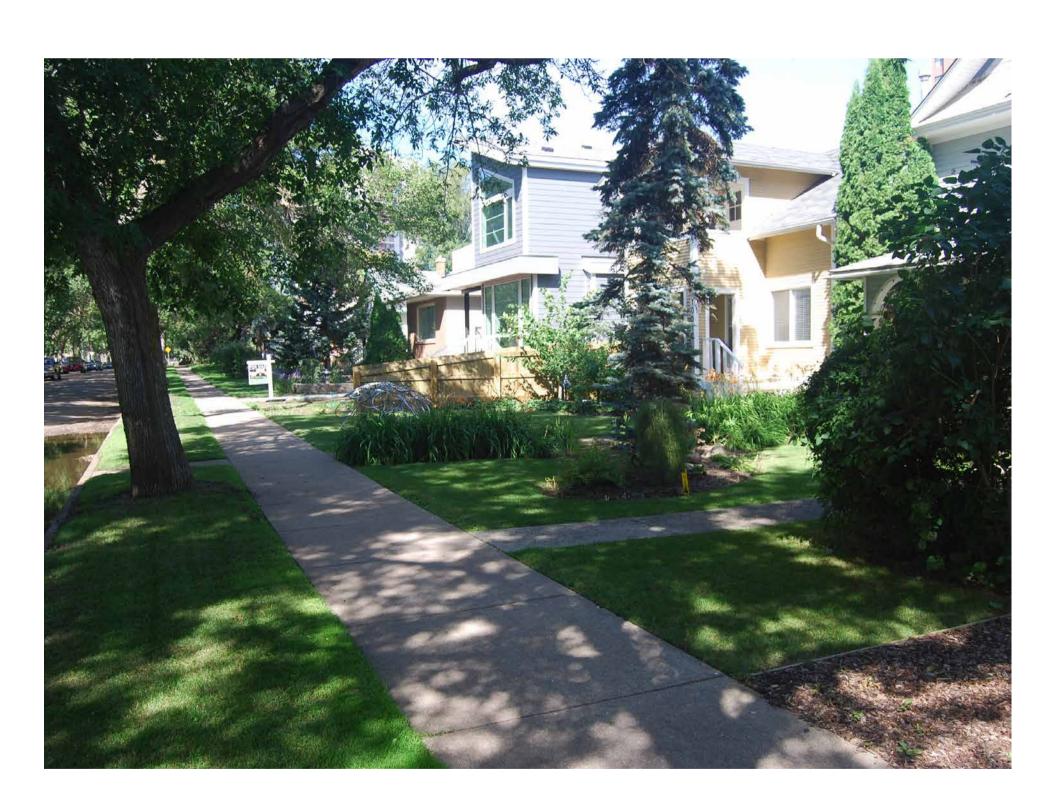
See images of the sidewalk design options on the following boards.



Missing Sidewalks – 2 Potential Designs

BOULEVARD WALK

Boulevard sidewalks are the current City standard. They are the preferred design and will be incorporated where possible. In some locations, there may be select tree removal required to accommodate.



Example of Boulevard Walk

ADJACENT TO ROADWAY

Locations where a boulevard walk will not fit will receive a sidewalk adjacent to the roadway. These locations will require roadway space and where it is not possible to convert the road to one-way, parking will be removed.



Example of Walk Adjacent to Roadway

The cost to construct a sidewalk where they are currently missing is 100% funded by the City.

The cost to replace existing sidewalks is cost-shared between property owners and the City according to local improvement policy C433D.



Bike Routes and Facilities



WHAT WE HEARD	WHAT WE CONSIDERED	WHAT IS PROPOSED IN THE DRAFT CONCEPT DESIGN
Route Selection in order of preference: North / South Connection 1. 100 Street 2. 98 Street 3. 97 Street	 Available space on road was considered along with other design element requirements such as missing sidewalk connections Alignment with the City's proposed southside bike network Connections to desired destination areas and existing bike lanes 	 87 Avenue/Tommy Banks Way/86 Avenue/106 Street Facility options being reviewed: Option A - Two-way protected bike facility Option B - Bike boulevard/shared road
East / West Connection 1. 87 Avenue 2. 86 Avenue 3. 89 Avenue	 Locations of existing signals to cross 99 Street Why 86 Avenue (east of Gateway) was not selected: No room on road to accommodate separated facility and two-way traffic required for access to community park spaces 	98 Street Facility design chosen: • Bike boulevard/shared road
Facility Type in order of preference: 1. Protected Bike Lane 2. Bike Boulevard 3. Raised Bike Lane Trade-offs for Facilty Type in order of preference:	 Traffic congestion around school Why 97 Street was not selected: Available space is required to add missing sidewalks Why 89 Avenue was not selected: Better avenue connections to existing bike network and school along 87 Ave 	 Decision to add missing sidewalks along 98 Street reduced space available on road to accommodate a separated bike facility 100 Street Facility options being reviewed: Option A – Two-way protected bike facility Option B – Bike boulevard/shared road
 Turn road into one-way for cars Remove on-street parking Remove boulevard trees 	ROUTE SELECTION: Consideration given to safety, accommodation of year round biking, space available	

See images of the options on the following boards.

Bike Routes and Facilities: 87 Avenue Options



87 Avenue/Tommy Banks Way/86 Avenue to 106 Street

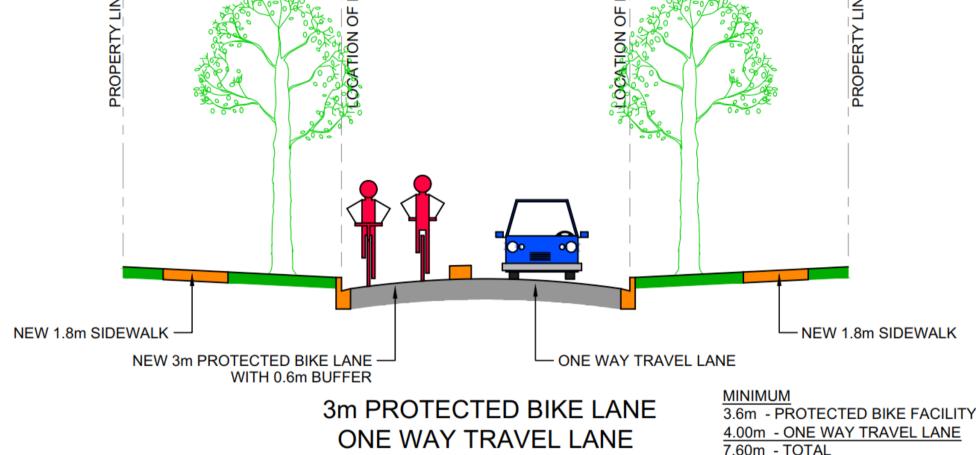
Option A – Protected Bike Facility

- Two-way protected bike traffic (concrete barrier)
- One-way vehicle traffic on the avenue: westbound
- Two-way traffic will be maintained on Tommy Banks Way
- No parking on either side of the avenue
- Additional signage to support bike facility along route
- Loading zones to be identified along the route (may require tree removals)
- Locations for bike connections between 87 Avenue and school site to be identified

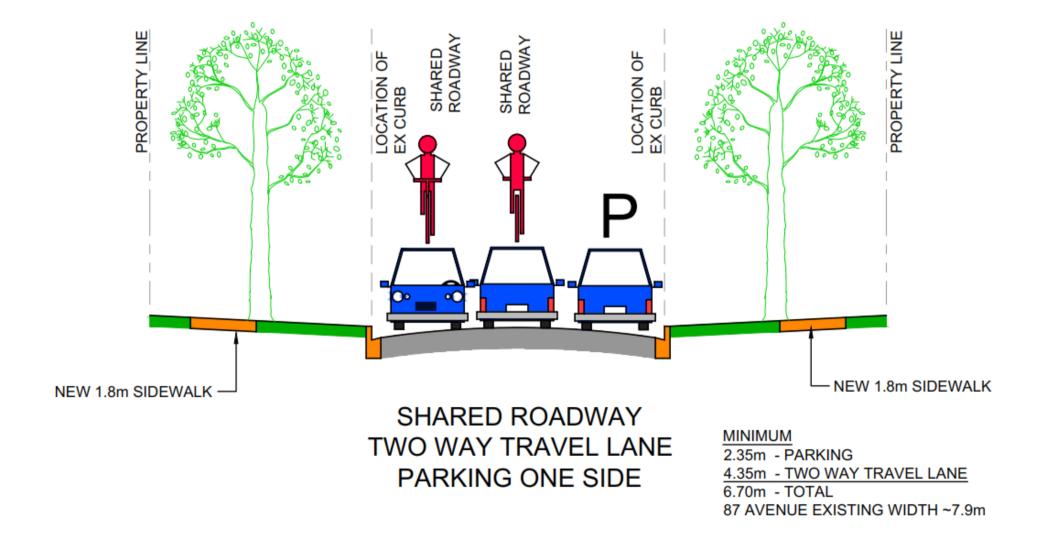
SHARE

Option B - Bike Boulevard/Shared Road

- Shared road with paint on road and added signage to support bike lane
- Two-way bike traffic (shared with vehicles)
- Two-way vehicle traffic (shared with bikes)
- Parking maintained where it exists today
- Complimented with draft traffic calming measures proposed



NO PARKING 87 AVENUE EXISTING WIDTH ~7.9m





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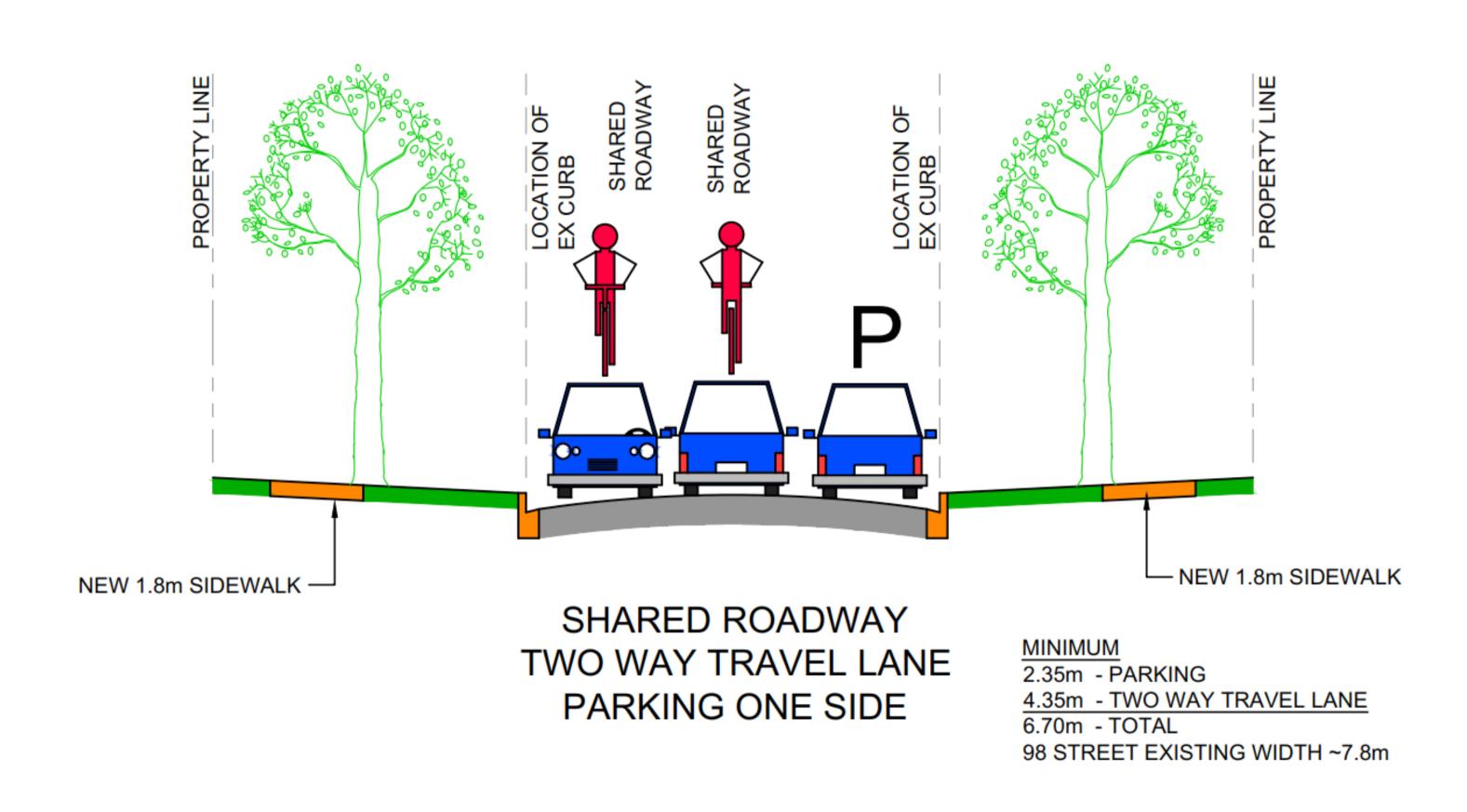
Bike Routes and Facilities: 98 Street

Bike Boulevard / Shared Road

ONLY OPTION PROPOSED

- Two-way bike traffic (shared with vehicles)
- Two-way vehicle traffic (shared with bikes)
- Missing sidewalks added, where possible
- Parking maintained on west side

Bike Boulevard Cross Section





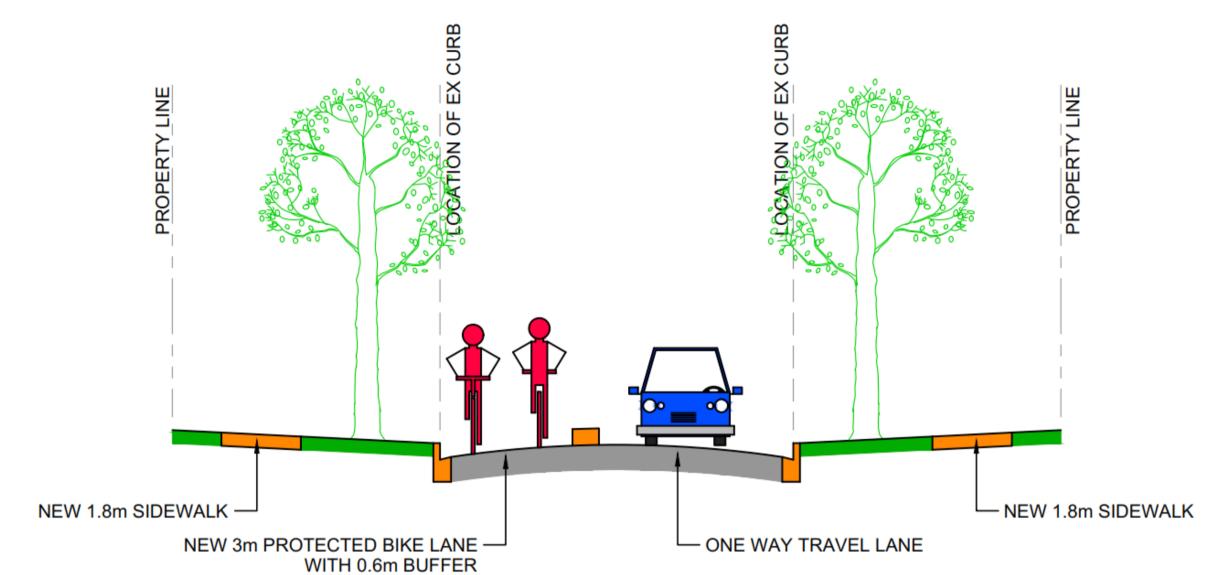
Bike Routes and Facilities: 100 Street

Option A – Protected Bike Facility

- Two-way protected bike traffic (concrete barrier)
- One-way vehicle traffic on Street: northbound
- No parking on either side of the avenue
- Additional signage to support bike facility along route
- Loading zones to be identified along the route (may require tree removals)

Option B - Bike Boulevard/Shared Road

- Shared road with paint on road and added signage to support bike lane
- Two-way bike traffic (shared with vehicles)
- Two-way vehicle traffic (shared with bikes)
- Parking maintained where it exists today
- Complimented with draft traffic calming measures proposed



3m PROTECTED BIKE LANE ONE WAY TRAVEL LANE NO PARKING

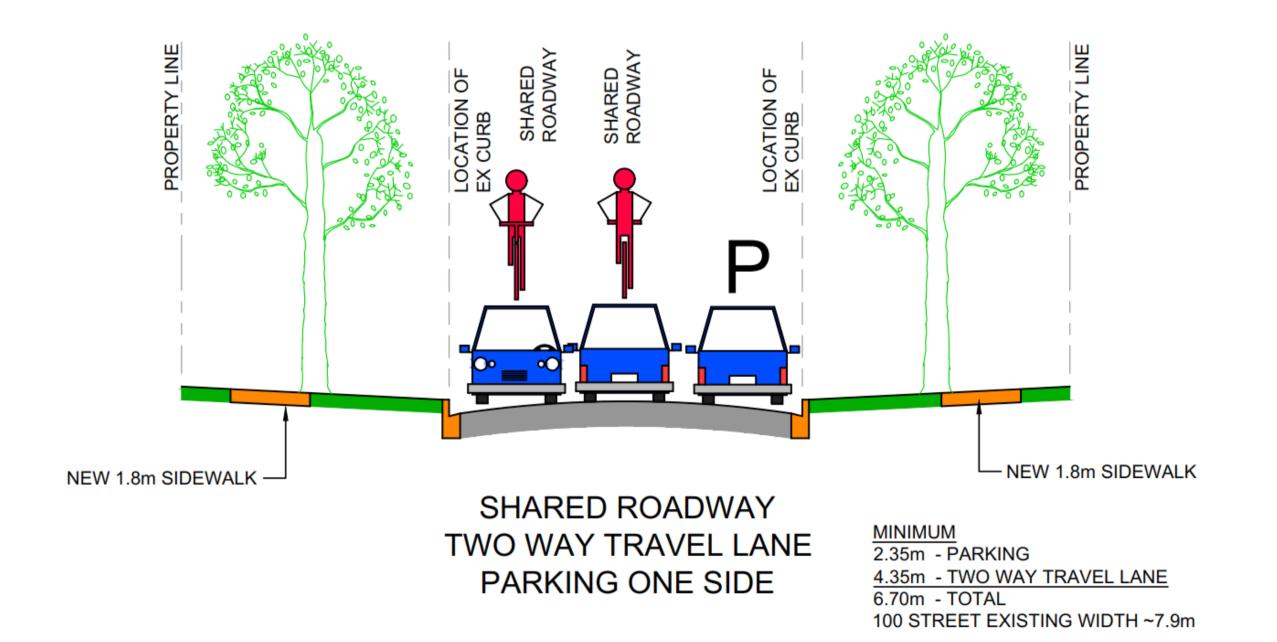
MINIMUM

3.6m - PROTECTED BIKE FACILITY

4.00m - ONE WAY TRAVEL LANE

7.60m - TOTAL

100 STREET EXISTING WIDTH ~7.9m





Pedestrian / Intersection Safety on Residential Roads



WHAT WE HEARD	WHAT WE CONSIDERED	WHAT IS PROPOSED IN THE DRAFT CONCEPT DESIGN
 Desire shorter crossing distances at intersections Low visibility at intersections due to parked cars close to intersections Desire improved crossing safety 	 Traffic measures and specific locations that enhance pedestrian crossings Resident level of comfort with traffic measures Prioritizing enhancements near school and park areas to ensure safety in areas where pedestrian demand is high Impacts of proposed bike facilities and park spaces Cumulative impacts to emergency services, waste management, and school buses 	This plan proposes traffic calming measures at key locations that work together effectively as a system for pedestrian and intersection safety. This system includes: Curb extensions that will: shorten crossing distances for pedestrians improve sight lines for pedestrians by preventing vehicles from parking too close to intersections slow vehicle traffic through intersections Raised crosswalks that will: improve awareness of the pedestrian crossing improve access for pedestrians with limited mobility slow vehicle traffic through intersections



Traffic Calming – Reducing Speeding and Shortcutting

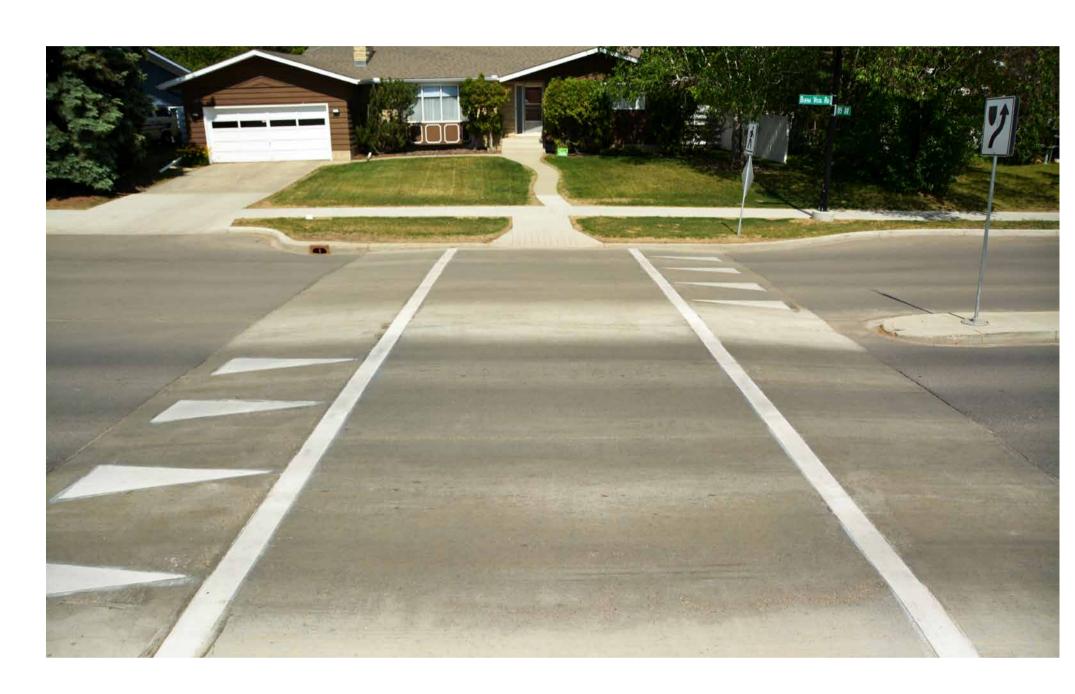
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WHAT WE HEARD	WHAT WE CONSIDERED	WHAT IS PROPOSED IN THE DRAFT CONCEPT DESIGN
 Speeding and shortcutting are issues throughout the neighbourhood Residents indicated that they are most comfortable with the following traffic measures: raised crosswalks raised intersections mini roundabouts curb extensions one-way roads raised medians Residents indicated that they are less comfortable with the following traffic measures: full road closures diagonal diverters right-in/right-out islands chicanes speed humps When evaluating possible solutions, pedestrian comfort, slowing vehicle traffic, and cyclist comfort were identified as the three most important aspects to consider	 Locations and measures that work together as a system to reduce speed and shortcutting over a larger area. It is often not feasible or necessary to install traffic calming measures at every location Minimal diversion of traffic to other roads Resident level of comfort with traffic measures and identified locations of high concern Traffic measures and locations that slow vehicle traffic and also enhance pedestrian crossings Traffic calming measures in school and park areas Placement of other design elements such as the proposed bike routes and open spaces Potential impacts to residents such as: noise and vibrations, driving time and parking Potential impacts to services such as: road maintenance, emergency services, waste management, and school buses Traffic measures that balanced benefits with complexity of design and cost 	Proposed traffic calming measures at key locations that work together effectively as a system. This system includes: Curb extensions that will: slow vehicle traffic through the intersection improve sight lines by preventing vehicles from parking too close to the intersection shorten crossing distances for pedestrians Raised crosswalks that will: slow vehicle traffic through the crosswalk improve driver awareness of the pedestrian crossing ease access for pedestrians with limited mobility Raised median through an intersection that will: reduce shortcutting traffic on 98 Street maintain access for walking and biking remove parking along the length of the median There is flexibility to adjust the traffic calming plan based on community feedback, with the following exceptions: traffic calming measures will be incorporated around schools shared bike route design may include traffic calming measures as required constructibility – ensuring we can build it Any shared road bike facility may include traffic calming measures, as required

Proposed Traffic Calming Measures RAISED CROSSWALKS

Edmonton

- Slows vehicle traffic through the crosswalk
- Improves awareness of the pedestrian crossing
- Eases access for pedestrians with limited mobility
- May cause braking and accelerating traffic noise





Shown on the map at the following intersections:

- 97 Street and 85 Avenue
 (North and South Approach)
- 97 Street and 87 Avenue
 (South and West Approach)
- 98 Street and 88 Avenue (East and West Approach)
- 98 Street and 89 Avenue (East and West Approach)
- 100 Street and 85 Avenue (North Approach)
- 100 Street and 86 Avenue (West Approach)
- 101 Street and 85 Avenue (North and West Approach)

Proposed Traffic Calming Measures RAISED MEDIAN THROUGH AN INTERSECTION

Edmonton

- Reduces shortcutting traffic
- Maintains access for pedestrians and cyclists
- Removes parking along the length of the median
- Forces right turn for the north and south directions and eliminates left turns for east and west movements
- Potential diversion of traffic to other roads



Shown on map at the following intersection:

• 98 Street and 84 Avenue

Proposed Traffic Calming Measures CURB EXTENSIONS

Edmonton

- Slows vehicle traffic through the intersection
- Shortens crossing distances for pedestrians
- Improves sight lines by preventing vehicles from parking too close to the intersection
- May require loss of a couple of parking spaces at the intersection
- Cyclists will have to 'take the lane' to navigate around them





Shown on the map at the following intersections:

- 97 Street and 84 Avenue
- 97 Street and 86 Avenue
- 99 Street and 84 Avenue
- 99 Street and 85 Avenue
- 99 Street and 86 Avenue
- 99 Street and 88 Avenue
- 99 Street and 89 Avenue
- 99 Street and 90 Avenue
- 99 Street and 91 Avenue
- 99 Street and 92 Avenue
- 100 Street and 86 Avenue
- 101 Street and 84 Avenue
- 101 Street and 85 Avenue
- 101 Street and 86 Avenue
- 101 Street and 88 Avenue
- 101 Street and Saskatchewan Drive
- 105 Street and 84 Avenue
- 105 Street and 87 Avenue
- Saskatchewan Drive and 90 Avenue

Edmonton

What We Would Like Your Input On:

How do you think the proposed traffic calming plan and its traffic measures **will impact** the Strathcona community?

WHAT ARE ANY POSITIVE IMPACTS?	
WHAT ARE ANY NEGATIVE IMPACTS?	
WHAT WOULD YOU CHANGE? (Be location specific if possible)	



30 km/h Council Motion – April 24, 2018

"That the Strathcona neighbourhood reconstruction be designed to a 30 km/h speed standard, subject to support from the community."

To understand community support for this motion, we are asking the public to gather knowledge on what each option means and provide their input on each of the following:

OPTION A: Design for 30km/h

OPTION B: Posted Speed Limit to 30km/h

OPTION C: Speed limit remains at 50km/h

Option A - 30 km/h Design Speed

- Posted speed limit of 30 km/h (legal requirement)
- Speed limit signage at every intersection in neighbourhood
- Traffic measures at every intersection in the neighbourhood
- Additional traffic measures within each block (every 40–60m)
- Increased traffic signage and pavement marking

Note: If City's default neighbourhood speed changes from 50 km to 30 km then signage can be removed Please see sketch on next board that shows what 30 km/h design speed may include



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Option A: Design for 30 km/h











Option A: Design for 30 km/h – Mid Block Measures

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Designing for 30km/h will require additional traffic measures within each block (mid-block or every 40-60m, 131-197ft)

OPTIONS FOR MID BLOCK MEASURE	BENEFITS	TRADE OFFS	EXAMPLE
Chicanes	 Localized speed reduction May also discourage shortcutting May provide opportunity for landscaping or bike parking 	 Loss of some on-street parking Bikes must 'take the lane' to navigate around the feature Potential diversion of traffic to other roads 	
Speed Hump	 Localized speed reduction May reduce traffic volumes 	 May require removal of some on-street parking Discomfort for transit passengers May cause braking and accelerating traffic noise Potential diversion of traffic to other roads 	
Raised Median	 Localized speed reduction Acts as a pedestrian refuge when located at a pedestrian crossing 	Loss of on-street parking along the length of the median	
Raised Median through Intersection	 Traffic volume and shortcutting reduction Creates a pedestrian refuge in the intersection Potential reduction in number/severity of collisions 	 Loss of on-street parking along the length of the median Less convenient access for residents and visitors Potential diversion of traffic to other roads 	



Option A: Design for 30 km/h – Intersection Measures

Edmonton

Designing for 30km/h will require additional traffic measures at each intersection in the neighbourhood

INTERSECTION MEASURES	BENEFITS	TRADE OFFS	EXAMPLE
Curb Extensions	 Localized speed reduction Reduced crossing distance for pedestrians Improved visibility for drivers and pedestrians Opportunities for landscaping 	 May require removal of some on-street parking Bikes must 'take the lane' to navigate around 	
Raised Crosswalk	 Localized speed reduction Improved driver awareness of the pedestrian crossing Pedestrians using mobility aids may be able to cross more easily May also reduce traffic volumes when used in combination 	 Discomfort for transit passengers May cause braking and accelerating traffic noise Potential diversion of traffic to other roads 	
Raised Intersection	 Localized speed reduction May also reduce traffic volumes Improved driver awareness of pedestrian crossing Pedestrians using mobility aids may be able to cross more easily 	 Discomfort for transit passengers May cause braking and accelerating traffic noise Potential diversion of traffic to other roads 	(STOP)

Option B and C

Option B – Posted Speed Limit to 30km/h

- Speed limit signage at every intersection in neighbourhood
- Traffic calming measures implemented according to draft concept design
- No designated design speed, goal remains to slow traffic throughout the neighbourhood

Option C - Speed limit remains at 50km/h

- Traffic calming measures implemented according to draft concept design
- No change to posted speed limit
- No designated design speed, goal remains to slow traffic throughout the neighbourhood



Neighbourhood Renewal Project Vision and Guiding Principles

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The vision was prepared by Strathcona residents and the Project Team:

Strathcona is a welcoming, inclusive and vibrant neighbourhood designed to safely and conveniently connect a diverse mix of residents and visitors to the local businesses and services, festivals, parks, and public spaces in all seasons.

Strathcona's design encourages walking and biking in the community. Strathcona is known for its unique historic character and natural beauty, and the design will preserve these qualities.

Strathcona enjoys safe, attractive and inviting public spaces that strengthen our sense of community.

GUIDING PRINCIPLES

- 1. To prioritize cycle and pedestrian spaces, and connections to all neighbourhood amenities, following Vision Zero principles, while considering the needs of vehicle users.
- 2. To provide infrastructure, street crossings and public spaces that are accessible and safe for all ages and mobility levels, and in all seasons.
- 3. To enhance/establish public spaces and parks that provide opportunities for community gathering, recreation, resting spaces and public events.
- 4. To incorporate design elements that reflect, protect and preserve the neighbourhood's history and natural elements.
- 5. To design safe, user–friendly roadways and intersections that reduce vehicle speeds and discourage shortcutting.
- 6. To provide residents and visitors with convenient access to buildings on residential streets.



What Comes Next?

Next Steps in the Engagement and Design Process:

- Coordinate localized engagements for detailed design
- Continue to gather resident and stakeholder feedback on draft design July & August
- Internal review of proposed concept design with City departments such as Emergency Services, Parks and Roads
 Operations and Maintenance, etc.
- Finalize concept design based on public input and further investigation
- Share final concept design with residents and stakeholders September
- Confirm funding for overall project
- Share what we heard and draft concepts with other City departments to follow up on items not being implemented as part of the Neighbourhood Renewal such as signalling



Coordination with Other City Projects and Departments:

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- Saskatchewan Drive Rehabilitation Project Team
- Southside Bike Routes
- Traffic Safety intersections and crossings along 104 Street, 99 Street, Whyte Avenue
- Plan Whyte project farmers' market parking lot and End of Steel Park
- Saskatchewan Drive Lookouts

