



Committee of the Whole

June 1, 2021

8:30 a.m.

Virtual – Via Zoom

Agenda

1. Approval of Agenda

2. Approval of Minutes

- a. Committee of the Whole Minutes, May 4, 2021

3. Presentations

- a. Physician Community Navigator (via Judy Rafuse)

4. Public Input / Question Period

PLEASE NOTE:

- Public Participation is limited to 30 minutes
- Each Person is limited to 3 minutes and may return to speak once, for 1 minute, if time permits within the total 30-minute period
- Questions or comments are to be directed to the Chair
- Comments and questions that relate to personnel, current or potential litigation issues, or planning issues for which a public hearing has already occurred, but no decision has been made by Council, will not be answered.

5. Committee Reports (Internal)

- a. Planning Advisory Committee

6. Staff Reports for Discussion

- a. RFD 034-2021: Street Naming West End Lands



- b. RFD 033-2021: Indemnification and Legal Assistance Policy
- c. Info Report: AT and Mobility
- d. Info Report: Web Development Update

7. CAO Report

8. Committee Reports (External)

- a. Valley Waste Resource Management (VWRM)
- b. Kings Transit Authority (KTA)
- c. Wolfville Business Development Corporation (WBDC)
- d. Kings Point-to-Point (KPPT)

9. Public Input / Question Period

10. Adjournment to In-Camera Meeting under *section 22(2)(e) Of the Municipal Government Act.*

- a. Contract Negotiation

11. Adjournment of In-Camera Meeting

12. Regular Meeting Reconvened

13. Regular Meeting Adjourned

COMMITTEE UPDATE

Title: Planning Advisory Committee
Date: May 6, 2021
Department: Committee of the Whole – June 2021



- Councillor Madeira-Voss began the meeting as Chair as Deputy Mayor Proudfoot was a few minutes late.
- Director Lake presented information around the Mobility plan. There has been a lot of communication to different committees as well as the community and with the Province. Devin asked for feedback on the Network Planning and advised there is more development required around the intersection portions (page 41 – which are the black boxes) especially surrounding accessibility. It was noted that the Blue Route was the Provincial bike trails such as Harvest Trail and the railways which the Province would like to connect in with the Town to promote tourism throughout the Town.
- A lengthy discussion ensued with recommendations and comments from the committee, all noted by Director Lake.
- Director Lake advised the costing is being completed so the information can be brought forward as part of the Capital Budget and Council can make the necessary decisions. There will be further consultation it is just what frame will be put around it.
- Lindsay Slade introduced herself to the committee.
- There is still work being completed on a Climate Action plan and this is intended to go to Council in the fall. More information will be brought to the Committee in June
- Director Lake provided a quick update on the current active development projects/submissions.
- Director Lake provided an overview of the process and development in the East End Comprehensive Development District. The two large East End parcels are essentially frozen for development to determine where roads, parks etc., are going to go. This was done to learn from the failings of the West End process. Director Lake noted there would be community consultations. This information will be brought to Council on May 18th.
- There is a report resulting from the Housing presentation and discussion and will be brought to the Committee in June. It will focus on the MPS and LUB policies/regulations existing and any gaps. It will also focus on the Housing Commission work (legislative changes).
- The next meeting is planned for June 10, 2021 – 4:00 p.m.

REQUEST FOR DECISION 034-2021

Title: West End Street Naming
Date: 2021-06-01
Department: Planning and Development



SUMMARY

West End Lands Street Naming

The West End Development will be ramping up this spring and the first phase of construction includes a new street that will connect Hillcrest Avenue to Stirling Avenue. This street needs to be named as per Street Naming Policy No. 610-004. The other new Street (not extending the existing streets Hillcrest and Stirling) can also be named. These streets are shown on the map below.

WEST END LANDS DEVELOPMENT CONCEPT PLAN



As per our Street Naming policy – the Historical Society has provided recommendations (see details attached) including: WW1 matron Jessie Brown Jaggard; Nova Scotia’s unlikely war hero Mona Parsons; Bob Stead; Long time MP George Nowlan; and Kipawo for consideration by Council.

DRAFT MOTION:

THAT COUNCIL APPROVE NAMING THE NEW STREETS IN THE WEST END DEVELOPMENT, IDENTIFIED IN THIS REPORT, AS RECOMMENDED BY THE HISTORICAL SOCIETY AND IN ACCORDANCE WITH STREET NAMING POLICY NO. 610-004 AS “STEAD WAY” AND _____. (TBD by Council from options provided).

REQUEST FOR DECISION 034-2021

Title: West End Street Naming
Date: 2021-06-01
Department: Planning and Development



1) CAO COMMENTS

The CAO supports the recommendations of staff.

2) LEGISLATIVE AUTHORITY

New streets in the Town of Wolfville are to be named in accordance with Street Naming [Policy No. 610-004](#).

3) STAFF RECOMMENDATION

Staff recommend that Council approve naming the streets identified using the recommended names from the Historical Society, as per the Street Naming Policy. “Stead Way” was recommended for the Connection between Hillcrest and Stirling, running along the new neighborhood park. A recommendation for the other street was not provided but options included for Council’s consideration.

It should be noted that the focus for Council should be on a selection and Staff can work on a final name that would include street, avenue, way, drive, etc.

4) REFERENCES AND ATTACHMENTS

1. Street Naming [Policy No. 610-004](#)
2. Historical Society Email and Recommendations
3. West End Concept Plan (higher resolution)

5) DISCUSSION

The first phase of the West End Development will be ramping up this spring/summer and the Developers’ will soon be ready for the Town to accept new streets.

The Town’s Street Naming [Policy No. 610-004](#) requires that the Historical Society be contacted and asked to provide recommendations and a rationale/background (see attached). The names included in the attachment from the Historical Society are: WW1 matron Jessie Brown Jaggard; Nova Scotia’s unlikely war hero Mona Parsons; Bob Stead; Long time MP George Nowlan; and Kipawo.

The use of “Stead Way” for Bob Stead is recommended for the cross street between Hillcrest and Stirling. Options are provided for the other street running North-South parallel to Hillcrest and Stirling.

The focus for Council should be on the 2 names and we can look at the use of avenue, drive, street, way, etc once selections made. Depending on the intended housing types in Phase 3, another street may be named in the future (TBD).

REQUEST FOR DECISION 034-2021

Title: West End Street Naming

Date: 2021-06-01

Department: Planning and Development



6) REFERENCES TO COUNCIL STRATEGIC PLAN AND TOWN REPORTS

See Street Naming Policy.

7) COMMUNICATION REQUIREMENTS

- Town GIS Department
- Public Works Department
- West End Developers

8) ALTERNATIVES

- That Council select one of the other names provided from the Historical Society as the street name.
- That Council send the request back to the Historical Society for other name suggestions.



POLICY

Street Naming

Street Naming	
Policy Number: 610-004	Supersedes Policy Number: Not Applicable
Effective Date: 2002-01-01	Approval By Council (Motion Number): 13-01-02

1.0 Purpose

To establish a process that the Town will use for the naming of streets.

2.0 Scope

This Policy is applicable for the Town Council of Wolfville when considering the naming of streets.

3.0 References

3.1 Nova Scotia Municipal Government Act (MGA)

4.0 Definitions

4.1 **Council** means the Town Council of the Town of Wolfville.

4.2 **Director** means the Director of Planning Services.

4.3 **Society** means the Wolfville Historical Society.

5.0 Policy

5.1 When the need arises for the naming of street the following process will be followed:

- The Director will communicate the request to the Society and invite them to provide their recommendation of a suitable name based on the background information details provided.
- The Society will provide their choice with a detail history and information in support of their recommendation.
- In making its recommendation the Society will consider the following:
 - Names of former Mayors of the Town
 - Names of families and or individuals of importance to the Town
 - Names of areas or landmarks of significance
 - Former street names.



POLICY

- The Society's recommendation will be forwarded to Council with an attached Request for Decision for Council's consideration and decision.

5.2 Minor Adjustments:

- Council on the recommendation of the Director may make minor changes to existing street names as deemed appropriate.

CAO

March 10, 2016

Date

Amanda Brown

From: bar kais <kaiserhallett@yahoo.ca>
Sent: May 17, 2021 5:07 PM
To: Devin Lake
Subject: Street names
Attachments: Street Name Recommendations May '21.docx

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Devin --

Attached is background information for the recommendations that the WHS board of directors have made to the Town.

The names are in no particular order, although I think it's fair to say that the board felt it was time to honour the name of Bob Stead, and was of the opinion that "Stead Way" had a nice ring to it...

Regards,

Martin

Wolfville Historical Society

Street Name Recommendations : Background

May, 2021

WW1 matron Jessie Brown Jaggard

Not long ago Canada's ambassador to Greece laid a wreath to mark the 100th anniversary of the Gallipoli campaign and for the nurses who served and died in that segment of a long and deadly war.

Jessie Brown Jaggard is one of the names we read every Nov. 11, but her Wolfville connections were unknown until recently. She was born in Wolfville in 1873. Her father, MLA John L. Brown, built what is now Alumni Hall.

She graduated from the Seminary before training at Massachusetts General Hospital. She went on to become superintendent of a hospital near Philadelphia, married and had a son.

Four months after enlisting as a nursing sister, Jaggard succumbed to dysentery on Lemnos Island and died in 1915 with her 17-year-old son's photo in her hand.

Nova Scotia's unlikely war hero Mona Parsons

Mona Parsons was the only Canadian female civilian imprisoned by the Nazis in the Occupied Netherlands during World War II. She was found guilty of treason for helping downed Allied airmen escape to England. Upon appeal her death sentence was commuted to life at hard labour.

After a harrowing escape in March 1945, a chance encounter with the North Nova Scotia Highlanders three weeks later brought her to safety.

Parsons' wartime efforts garnered citations after the war from British Air Chief Marshall Lord Arthur Tedder, and from US General Dwight D. Eisenhower, but she was only recognized in Canada in 2017 with a sculpture at the Wolfville Post Office.

Parsons, actor, nurse, resistance fighter, was born in Middleton in 1901 and died in Wolfville in 1976

Bob Stead

Bob Stead, who served as mayor and a councillor in Wolfville for more than 20 years, died in 2014.

During his time in office Wolfville was the first municipality in Canada to ban smoking in vehicles when a child is present. He also opposed the use of non-commercial pesticides, which led to provincial legislation.

A Prince Edward Islander, who adopted Nova Scotia and the Annapolis Valley as home, he was the director of admissions at Acadia University. He always had the needs of students front and centre and as elected councillor and mayor, made Wolfville a leader amongst communities ensuring the well-being of citizens came first.

Long time MP George Nowlan

George Clyde Nowlan, 1898 – 1965, was an MP from 1948 - 1965 and a cabinet minister. He served as finance minister under John Diefenbaker.

In addition to serving as an MP, Nowlan was a soldier in the Canadian Expeditionary Force during WWI. After the war ended, he returned to the Annapolis Valley and attended Acadia, then studied law.

Nowlan was an MLA in the Nova Scotia Legislature in the 1920s, and was always known for his reputation as a hard worker, according to Wikipedia.

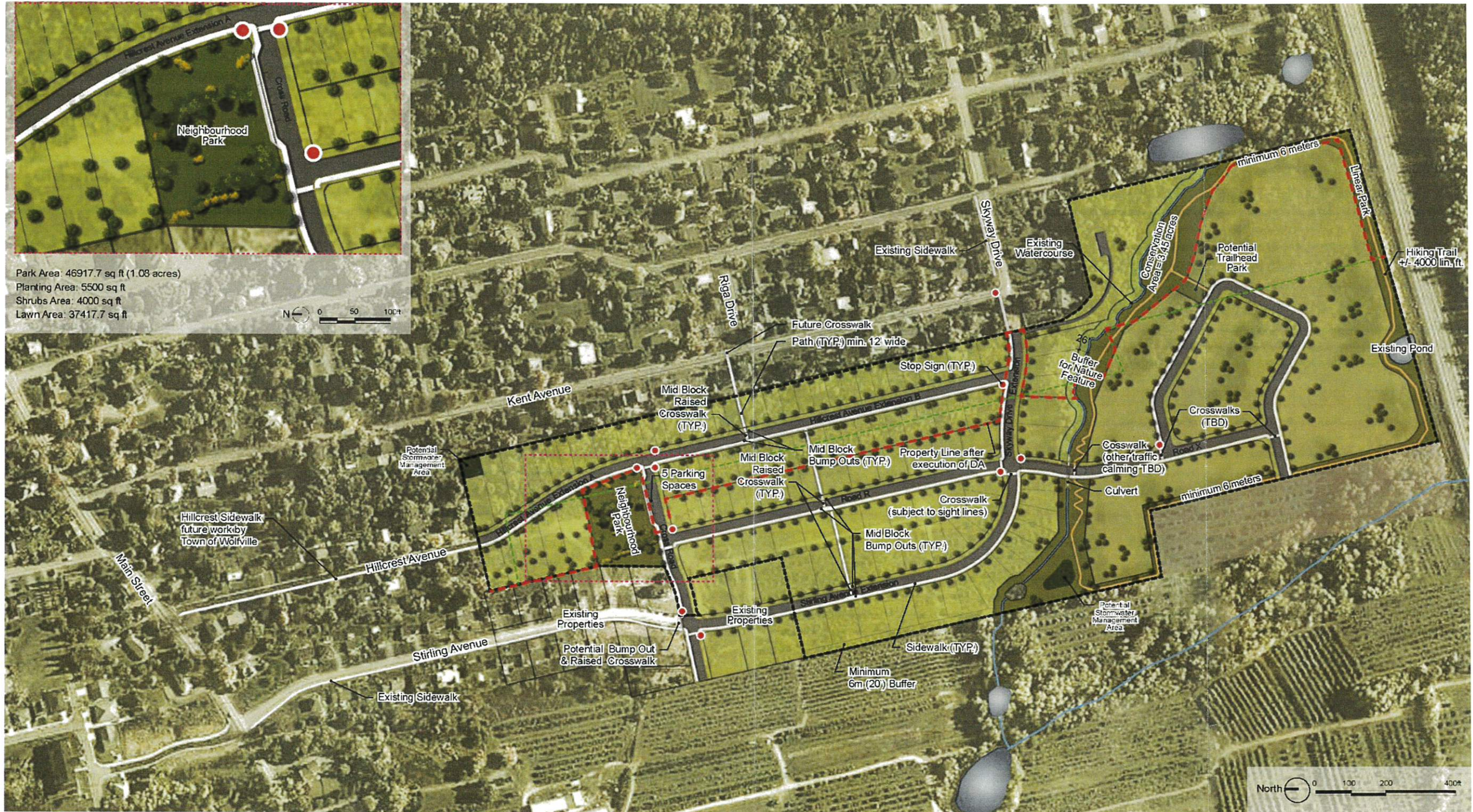
Kipawo

The MV Kipawo is an historic Canadian passenger and freight ferry built to operate in the Bay of Fundy. It also served in Newfoundland and inspired the creation of a theatre company. It was the 33rd and last ferry to provide service across the Minas Passage, a service provided since the Acadian era. The Kipawo was launched in 1924 and commissioned into service by the Dominion Atlantic Railway in 1926. The name comes from the first two letters of the three ports the Kipawo served: Kingsport, Parrsboro and Wolfville. The ferry was requisitioned by Royal Canadian Navy during WWII, later used as a tour boat.

The vessel was purchased in 1981 by the Kipawo Heritage Society of Wolfville and returned to Minas Basin in 1982. It was purchased by the Town of Parrsboro and remains in use while in drydock by the Ships Company Theatre.

WEST END LANDS DEVELOPMENT CONCEPT PLAN

SCHEDULE "B" – Conceptual Master Plan



REQUEST FOR DECISION 033-2021

Title: Indemnification and Legal Assistance

Date: 2021-05-18

Department: Office of the CAO



SUMMARY

Indemnification and Legal Assistance

The Town of Wolfville has drafted policy that seeks to enable the provision of legal assistance to Council members and staff in situations where they might be drawn into a legal action based on duties performed in good faith or, in situations where protection from harassment may be warranted.

Currently, both staff and members of Town Council have indemnification coverage through our insurance provider, but there is nothing available to assist staff or members of Council if they are impacted by harassment from external parties.

The Indemnification and Legal Assistance Policy will allow the Town, through direction of Council, to respond in a timely and measured way, when and if there is a need.

Council is also being asked to consider enrolling in the Employee Assistance Plan to allow for the provision of additional assistance, including mental health supports, if there is a need.

DRAFT MOTION:

That Council approve the draft Indemnification and Legal Assistance Policy as presented.

That Council approve the enrollment of Council members in the Employee Assistance Plan at a cost of \$3.62 per member, per month.

REQUEST FOR DECISION 033-2021

Title: Indemnification and Legal Assistance

Date: 2021-05-18

Department: Office of the CAO



1) CAO COMMENTS

The CAO supports the recommendations of staff.

2) LEGISLATIVE AUTHORITY

1. Nova Scotia *Municipal Government Act* (MGA)
2. Nova Scotia *Municipal Conflict of Interest Act* (MCIA)

3) STAFF RECOMMENDATION

Staff recommend the adoption of the draft Indemnification and Legal Assistance Policy

4) REFERENCES AND ATTACHMENTS

- Draft Indemnification and Legal Assistance Policy

5) DISCUSSION

Jurisdictional scan

A jurisdictional scan has shown that policy has been created for indemnification coverage in other municipalities, for example, in the Region of Queens Municipality (Oct. 2013) and it is worth noting that the Business Development Association is also covered by this policy. In Annapolis County (July 2017), there is a similar indemnification policy, which grants the CAO authority to make the decision for coverage.

Outside of Nova Scotia, the City of Toronto's policy was also reviewed, and used as a basis for the draft policy now before Council because of its specific indemnification coverage provided to members of Council. While the City of Toronto policy does not mention harassment, assistance may be provided for members of Council in cases of defamation (*Indemnification Policy for Members of Council*, July 2008). For legal assistance in cases not covered by indemnification insurance, a decision is made by Executive Committee and Council with a value limit of \$25,000.

While indemnification coverage is becoming a more of standard provision, with or without specific policy, legal assistance, in the case of harassment of Council members, is not yet common and no provision of legal assistance for such occurrences showed-up in a jurisdictional scan.

Council members are not "employees"

The Town of Wolfville has, since 2008, provided a workplace free from harassment and discrimination as per Policy 130-021, but members of Council are not covered by this policy because they are **not** deemed

REQUEST FOR DECISION 033-2021

Title: Indemnification and Legal Assistance

Date: 2021-05-18

Department: Office of the CAO



“employees,” nor is the Town considered their “workplace.” This is consistent across both the Province and the Country.

Policy considerations

This policy supports the Town in formalising the provision of indemnification coverage for Town employees and Council members (representatives) against claims that may arise from the good faith performance of their duties. Insurance currently covers this provision, but the policy clarifies use.

This policy will also provide legal assistance for both employees and members of Council if they choose to defend against harassment. **Legal assistance can include legal advice, letters, mediation, and litigation.** The inclusion of members of Council in this policy recognises the need to provide additional supports to Council members fulfilling their duties at a time when the harassment of public officials is becoming more common.

Members of Council are currently without protections of traditional workplace harassment coverage, so this policy allows Wolfville to take a bold step in providing legal assistance as needed to members of Council. As noted, no other policy providing this specific coverage could be found through a jurisdictional scan.

Because insurance does not provide coverage, there is a suggested limit of **\$20,000** and staff recommend keeping the process at the Council level, which is provided for in the presented policy.

It should be further noted that insurance coverage is not currently available to provide a defense against harassment so the total amount would come from the Town’s operational budget. Additionally, it should be noted that while Council maintains the ability to make determinations under the Policy, precedent will be set if this Policy is adopted, and Council grants this coverage to an employee or Councillor.

Based on discussion at Council, the cost of adding benefits for members of Council are noted below:

EAP is \$3.15 + 15% HST (\$3.62 total) monthly per councillor, fully paid by the Town.

For health and dental, 60% would be paid by the Town and 40% paid by the employee. There is no HST on these benefits.

	Single Coverage	Family Coverage
Health	143.04	340.50
Dental	41.18	106.25

6) FINANCIAL IMPLICATIONS

REQUEST FOR DECISION 033-2021

Title: Indemnification and Legal Assistance

Date: 2021-05-18

Department: Office of the CAO



Where applicable, Indemnification is covered through the Town's insurance at this time.

Should this policy be adopted, in the event an employee or representative becomes a victim of harassment or discrimination and decides to retain counsel independently to institute legal proceedings against the perpetrator(s), Council may provide direction that said employees or representative may be reimbursed for legal expenses to a maximum of **\$20,000** where reimbursement of funds is warranted upon consideration of all the circumstances.

The Town Council may, in its sole discretion, put such limits and/or terms upon the reimbursement as it deems fit.

7) REFERENCES TO COUNCIL STRATEGIC PLAN AND TOWN REPORTS

- **Social Equity:**

It is both fair and reasonable for members of staff and Council, acting in good faith, to be provided with indemnification coverage. Additionally, by taking a proactive stance to support staff and members of Council against harassment through the provision of legal assistance, this policy ensures equal support and protection through the removal of personal financial burden to both employees and members of Council.

- **Community Wellness:**

Supporting both staff and members of Council with indemnification protection builds trust in the team that operates and governs the Town of Wolfville by placing a focus on our commitment to act in good faith. With the added provision of legal assistance for any member of Council or staff experiencing harassment, the Town of Wolfville will be able to mitigate the impact and harms of harassment.

8) COMMUNICATION REQUIREMENTS

Internal communications will include a review of how staff and members of Council can report incidents.

9) ALTERNATIVES

To not adopt the draft Indemnification and Legal Assistance Policy, or to adopt it with changes. Changes could include such sections as the upper dollar limit of support.

Indemnification and Legal Assistance Policy

1.0 Purpose

To establish a Policy that permits the Town to provide indemnification to Town employees and representatives for liabilities arising out of the good faith performance of their duties for the Town.

The Town of Wolfville is committed to:

- Promoting an environment in which its employees and representatives may perform their duties without concern of civil or criminal liabilities arising from the good faith performance of those duties
- Protecting the Town's interests in relation to potential or actual liability arising from the acts or omissions of an employee or representative
- Providing an environment in which its employees and representatives are protected from discrimination and/or harassment

2.0 Scope

This policy is applicable to all Town employees and representatives. This policy does not apply to allegations or complaints of discrimination or harassment by a Town employee or representative against another Town employee or representative.

3.0 References

- 3.1 *Nova Scotia Municipal Government Act (MGA)*
- 3.2 *Nova Scotia Municipal Conflict of Interest Act (MCIA)*

4.0 Definitions

4.1 EMPLOYEE OR REPRESENTATIVE

All direct employees of the Town as well as all Town Council members.

4.2 DUTIES

The employee's work as defined within their respective job description and/or other tasks or actions that are authorized by the employee's manager/supervisor. The representative's actions in carrying out their mandate as authorized by Bylaw, Policy, Resolution or otherwise under the MGA.

4.3 GOOD FAITH

The carrying out of one's duties which are performed honestly, openly and without malice or ulterior motive, even if the performance is done negligently or results from an error in judgment.

4.4 INDEMNIFICATION

Compensation to or on behalf of an employee or representative for legal fees and/or financial losses incurred by them in respect of civil, criminal or administrative actions or proceedings to which they become a party as a result of carrying out their duties.

4.5 HARASSMENT OR DISCRIMINATION

This Policy only applies to harassment or discrimination perpetrated by non-Town employees or representatives. Harassment includes criminal harassment, sexual harassment as defined under the Nova Scotia *Human Rights Act* (HRA) and conduct prohibited under the Nova Scotia *Intimate Images and Cyber-protection Act*. Discrimination means discrimination as defined under the HRA.

4.6 LEGAL ASSISTANCE

The provision of legal representation and advice by the Town or another approved outside legal counsel.

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5.0 Policy

5.1 CRITERIA

Employees or representatives who meet all of the following criteria may be eligible for indemnification and/or legal assistance:

- the employee or representative's actions or omissions at issue were within the scope of their duties and authority
- the employee or representative acted in good faith
- if applicable, the employee or representative reasonably believed that their conduct at issue was lawful
- if applicable, the employee or representative became a victim of harassment or discrimination in connection with their role with the Town or the carrying out of their duties.

5.2 NOTIFICATION AND DETERMINATION OF ELIGIBILITY

In order to be eligible for indemnification and/or legal assistance, employees or representatives must inform the Town CAO at the earliest opportunity after experiencing discrimination of harassment or becoming aware of any alleged act or omission arising during the course of their duties that may give rise to the need for legal counsel or to a claim against them or the Town. In the case of a claim against the employee or representative, the notification must include details identifying:

- Relevant and related events
- A description of the incident / event
- A list of persons who are directly involved and/or potential witnesses
- Details regarding charges (or accusations) against the employee
- Any actions taken to correct the situation

The CAO will inform Town Council. The Town Council shall, on an *in camera* basis, determine whether the employee or representative meets the requirements of this policy for indemnification and/or legal assistance, whether indemnification and/or legal assistance will be provided, and if so, the terms of the indemnification and/or legal assistance. In the event a member of Council is the party seeking indemnification and/or legal assistance, the provisions of the MCIA shall be observed.

5.3 PROVISION OF LEGAL ASSISTANCE

Employees and representatives may be eligible to receive legal assistance under certain circumstances, which include the following:

- They are charged with a criminal or provincial offence
- They may be subject to a penalty, including an administrative penalty.
- They are sued or threatened with a civil action
- They are required to be a witness at a trial as a result of a work-related duty
- They are required to appear before a judicial inquiry or other inquests
- They are interviewed by the police or other authorities in circumstances that may lead to charges against the Town
- They are subject to disciplinary proceedings of their professional organization for issues related to professional conduct during the course of their duties
- They are a victim of harassment or discrimination

If legal assistance is to be provided, the Town solicitor or approved legal counsel for the Town will normally provide such assistance.

If the provision of outside counsel is approved in accordance with this Policy, conditions regarding payment such as maximum reimbursement will be determined by Town Council on an *in camera* basis.

Employees and representatives are responsible for cooperating with assigned legal counsel.

Employee or representatives who are approved for legal assistance in accordance with this Policy may choose to obtain outside legal counsel at their own discretion and at their own expense. If an employee or representative wishes to decline representation by the Town, a written confirmation must be submitted.

The Town shall have conduct of any proceedings for which legal assistance has been provided under this policy.

The Town reserves the right to recover any indemnification or other costs by way of subrogation or other avenues.

Any decision to provide indemnification to an employee under this policy does not preclude a department from taking disciplinary or administrative action against the employee or representative if appropriate.

5.4 REIMBURSEMENT

In the event an employee or representative becomes a victim of harassment or discrimination and decides to retain counsel independently to institute legal proceedings against the perpetrator(s), upon the approval of Council acting *in camera*, employees or representatives may be reimbursed for legal expenses to a maximum of \$20,000 where reimbursement of funds is warranted upon consideration of all the circumstances.

The Town Council may, in its sole discretion, put such limits and/or terms upon the reimbursement provided in this section 5.4 as it deems fit.

5.5 CONTRAVENTION OF THE MCIA

No indemnification or legal assistance will be provided to an employee or representative in respect of an allegation that they contravened the MCIA.

INFORMATION REPORT

Title: Active Transportation and Mobility Update

Date: 2021-06-01

Department: Planning & Development



SUMMARY

Active Transportation and Mobility Update

The work on better understanding our Active Transportation opportunities and broader mobility options is ongoing and will help to inform annual budget discussions.

This report is meant to provide Council information/education and an opportunity for discussion around Active Transportation and Mobility in the Town – work-to-date and next steps. It is important that Staff, Council and the Community (Business and Residents) are aligned as much as possible in these efforts as we move forward.

The envisioned outcomes of this report and discussion are:

- Overview of what has been done and where we're going
- Discussion of different opportunities and priority areas
- Indication or thoughts from Council on direction we're going

This report will be accompanied by a Staff presentation to help facilitate discussion.

INFORMATION REPORT

Title: Active Transportation and Mobility Update

Date: 2021-06-01

Department: Planning & Development



1) CAO COMMENTS

For information purposes.

2) REFERENCES AND ATTACHMENTS

1. All-Ages-Abilities (AAA) NACTO Guidance
2. BNS Network Analysis Report
3. Network Overview (ICIP application)
4. [Inventory of Active Transportation-related data](#): Link to GIS tool being used by internal Staff group (initial version/work-in-progress)

3) DISCUSSION

Initiation

The work being discussed began in the spring of 2020 with the previous Council; however, Active Transportation is a key priority of both the current Council and the Town's Municipal Planning Strategy. Improved Active Transportation has long been an aspirational priority of the community.

As part of this work, Staff had been working with the NS Department of Energy and Mines on their interest in funding meaningful Active Transportation infrastructure (see ICIP application attached). Our 2021-22 Operating budget includes network analysis and costing that is being supported by the province (\$20,000). This report outlines the next steps of this work and how this can aid in Council's budget deliberations. The attached ICIP funding application accelerated this work and provides additional background.

All-Ages-and-Abilities (Accessibility)

Attached is an overview from NACTO on building more accessible infrastructure. Staff are using this as guidance as we continue with this work. The approach is complementary to the Town's Accessibility Plan (Access by Design) and aspirations for improved equity by providing more viable mobility options.

The ongoing work proposes that we would have a network that is built to a higher standard/level of service (AAA guidance) but we would also have other trails, paths, parks etc that would still exist as part of the overall Town network of parks and trails.

Network Analysis and Committee Discussions

Bicycle Nova Scotia has been engaged in this work and have provided capacity by working with Staff on consulting the community and completing a Network Analysis Report (attached).

INFORMATION REPORT

Title: Active Transportation and Mobility Update

Date: 2021-06-01

Department: Planning & Development



This network analysis has been reviewed and discussed at both the Environmental Sustainability Committee (ESC) and the Planning Advisory Committee (PAC) and we continue to look at this with a recently formed cross-departmental internal working group.

The Environmental Sustainability Committee discussed short-term projects (e.g. Highland) and how that plays into this work; the Bike Boulevard proposed on Kent Avenue and connections to the new West End development; how we should show all the other trails along with the higher-service-level (AAA) network – along with Parks and other destinations; discussion around budget trade-offs and operationalizing this type of infrastructure. Overall, the ESC were in support of moving forward and comfortable with the network proposed.

The Planning Advisory Committee discussed school bus routing; elementary and high school commutes; drinking and driving; availability of bikes and access; the Kings County AT plan; safety, comfort and AAA; micro transit and King's transit connections to this; sidewalks and walking – the fact that this work is for all users, shared pathways; having the overall trails and pathways included; east-west connections; sidewalk improvements; link with ongoing crosswalk work; investment trade-offs with a limited budget; the importance of communications and highlighting the co-benefits of this type of investment; public consultation and next steps. Overall, the PAC were in support of moving forward and comfortable with the network proposed.

Community Engagement

Various forms of public engagement have been used to get to this point for Council. Surveys, meeting with committees and groups (WBDC, PAC, ESC, Accessibility Committee, etc), direct outreach to stakeholders (schools) and various small group or 1v1 conversations.

Public consultation will continue on this effort as we move forward. As we build our new website and add tools to better engage we will have the opportunity to better share information. As Covid-19 restrictions lessen we will also have the opportunity to better engage in-person. The work that is ongoing will also filter into the Town's budget process where a lengthy and deliberate process is built-in and community engagement encouraged.

Highland Avenue

Staff are working closely with consultants to integrate the upcoming capital investment on Highland Avenue into the overall network and vision for safe and comfortable AT infrastructure. Highland Avenue is a key north-south corridor largely zoned for medium density residential, connecting from higher density housing, runs along the University, connects with the Elementary School and other downtown destinations.

Other Mobility Options

INFORMATION REPORT

Title: Active Transportation and Mobility Update

Date: 2021-06-01

Department: Planning & Development



Staff are pursuing funding for a micro transit feasibility in the Town. Staff will provide an update when more information becomes available on this. The role of Kings Transit and other providers will be important to how viable the Town having improved mobility choices is.

Next steps

Staff are meeting regularly as a cross-departmental working group to move this forward. Regular updates will be provided to Council. The next steps in the coming months will include:

- Public GIS-based mapping tools to improve our ability to analyze the overall network (all trails and parks included) and receive ideas.
- Functional layout plans and a final report that can guide capital investment decision-making over the long-term.
- A package that can provide investment-readiness and Council support for future grant funding opportunities.
- Opportunity to integrate the Town's short-term street infrastructure investment in Highland Avenue as a key north-south corridor between the University, Elementary School, Downtown and other destinations.

4) REFERENCES TO COUNCIL STRATEGIC PLAN AND TOWN REPORTS

Clear 'Mobility' directions have been established in the Council's:

- [Municipal Planning Strategy](#) (see 'Mobility' Section)
- [Council Strategic Plan / Town Capital and Operations Plan](#)



Designing for All Ages & Abilities

Contextual Guidance for
High-Comfort Bicycle Facilities



National Association of
City Transportation Officials

December 2017

Streets that are safe and comfortable for All Ages & Abilities bicycling are critical for urban mobility.

NACTO cities are leading the way in designing streets that are truly safe and inviting for bicyclists of All Ages & Abilities and attract wide ridership. This guidance—developed by practitioners from cities across North America—builds on NACTO's *Urban Bikeway Design Guide* and sets an **All Ages & Abilities** criteria for selecting and implementing bike facilities. Building bicycle infrastructure that meets this criteria is an essential strategy for cities seeking to improve traffic safety,¹ reduce congestion,² improve air quality and public health,³ provide better and more equitable access to jobs and opportunities,⁴ and bolster local economies.⁵

This All Ages & Abilities facility selection guidance is designed to be used in a wide variety of urban street types. It considers contextual factors such as vehicular speeds and volumes, operational uses, and observed sources of bicycling stress. In doing so, it allows planners and engineers to determine when, where, and how to best combine traffic calming tools, like speed reduction and volume management, with roadway design changes, like full lane separation, to reduce traffic fatalities and increase cycling rates and rider comfort.

The All Ages & Abilities criteria is a national and international best practice that should be adopted for all bicycle facility design and network implementation; lesser accommodation should require additional justification. Along with a problem-solving approach to street design, the All Ages & Abilities benchmark should be applied across a city's entire bicycle network to grow bicycling as a safe, equitable mode for the majority of people.

All Ages & Abilities Bike Facilities are ...

Safe

More people will bicycle when they have safe places to ride, and more riders mean safer streets. Among seven NACTO cities that grew the lane mileage of their bikeway networks 50% between 2007–2014, ridership more than doubled while risk of death and serious injury to people biking was halved.⁶ Better bicycle facilities are directly correlated with increased safety for people walking and driving as well. Data from New York City showed that adding protected bike lanes to streets reduced injury crashes for all road users by 40% over four years.⁷

Comfortable

Bikeways that provide comfortable, low-stress bicycling conditions can achieve widespread growth in mode share. Among adults in the US, only 6–10% of people generally feel comfortable riding in mixed traffic or painted bike lanes.⁸ However, nearly two-thirds of the adult population may be interested in riding more often, given better places to ride, and as many as 81% of those would ride in protected bike lanes.⁹ Bikeways that eliminate stress will attract traditionally under-represented bicyclists, including women, children, and seniors.

Equitable

High-quality bikeways expand opportunities to ride and encourage safe riding. Poor or inadequate infrastructure—which has disproportionately impacted low-income communities and communities of color—forces people bicycling to choose between feeling safe and following the rules of the road, and induces wrong-way and sidewalk riding. Where street design provides safe places to ride and manages motor vehicle driver behavior, unsafe bicycling decisions disappear,¹¹ making ordinary riding safe and legal and reaching more riders.



SE Mill Street, PORTLAND
(photo credit: Portland Bureau of Transportation)

Who is the “All Ages & Abilities” User?

To achieve growth in bicycling, bikeway design needs to meet the needs of a broader set of potential bicyclists. Many existing bicycle facility designs exclude most people who might otherwise ride, traditionally favoring very confident riders, who tend to be adult men. When selecting a bikeway design strategy, identify potential design users in keeping with both network goals and the potential to broaden the bicycling user base of a specific street.



Children

School-age children are an essential cycling demographic but face unique risks because they are smaller and thus less visible from the driver's seat than adults, and often have less ability to detect risks or negotiate conflicts.



Seniors

People aged 65 and over are the fastest growing population group in the US, and the only group with a growing number of car-free households.¹² Seniors can make more trips and have increased mobility if safe riding networks are available. Bikeways need to serve people with lower visual acuity and slower riding speeds.



Women

Women are consistently under-represented as a share of total bicyclists, but the share of women riding increases in correlation to better riding facilities.¹³ Concerns about personal safety including and beyond traffic stress are often relevant. Safety in numbers has additional significance for female bicyclists.



People Riding Bike Share

Bike share systems have greatly expanded the number and diversity of urban bicycle trips, with over 28 million US trips in 2016.¹⁴ Riders often use bike share to link to other transit, or make spontaneous or one-way trips, placing a premium on comfortable and easily understandable bike infrastructure. Bike share users range widely in stress tolerance, but overwhelmingly prefer to ride in high-quality bikeways. All Ages & Abilities networks are essential to bike share system viability.



People of Color

While Black and Latinx bicyclists make up a rapidly growing segment of the riding population, a recent study found that fewer than 20% of adult Black and Latinx bicyclists and non-bicyclists feel comfortable in conventional bicycle lanes; fear of exposure to theft or assault or being a target for enforcement were cited as barriers to bicycling.¹⁵ Long-standing dis-investment in street infrastructure means that these riders are disproportionately likely to be killed by a car than their white counterparts.¹⁶



Low-Income Riders

Low-income bicyclists make up half of all Census-reported commuter bicyclists, relying extensively on bicycles for basic transportation needs like getting to work.¹⁷ In addition, basic infrastructure is often deficient in low-income neighborhoods, exacerbating safety concerns. An All Ages & Abilities bikeway is often needed to bring safe conditions to the major streets these bicyclists already use on a daily basis.



People with Disabilities

People with disabilities may use adaptive bicycles including tricycles and recumbent handcycles, which often operate at lower speeds, are lower to the ground, or have a wider envelope than other bicycles. High-comfort bicycling conditions provide mobility, health, and independence, often with a higher standard for bike infrastructure needed.



People Moving Goods or Cargo

Bicycles and tricycles outfitted to carry multiple passengers or cargo, or bicycles pulling trailers, increase the types of trips that can be made by bike, and are not well accommodated by bicycle facilities designed to minimal standards.



Confident Cyclists

The small percentage of the bicycling population who are very experienced and comfortable riding in mixed motor vehicle traffic conditions are also accommodated by, and often prefer, All Ages & Abilities facilities, though they may still choose to ride in mixed traffic.

Choosing an All Ages & Abilities Bicycle Facility

This chart provides guidance in choosing a bikeway design that can create an All Ages & Abilities bicycling environment, based on a street's basic design and motor vehicle traffic conditions such as vehicle speed and volume. This chart should be applied as part of a flexible, results-oriented design process on each street, alongside robust analysis of local bicycling conditions as discussed in the remainder of this document.

Users of this guidance should recognize that, in some cases, a bicycle facility may fall short of the All Ages & Abilities criteria but still substantively reduce traffic stress. Jurisdictions should not use an inability to meet the All Ages & Abilities criteria as reason to avoid implementing a bikeway, and should not prohibit the construction of facilities that do not meet the criteria.

Contextual Guidance for Selecting All Ages & Abilities Bikeways						
Roadway Context				All Ages & Abilities Bicycle Facility		
Target Motor Vehicle Speed*	Target Max. Motor Vehicle Volume (ADT)	Motor Vehicle Lanes	Key Operational Considerations			
Any		Any	Any of the following: high curbside activity, frequent buses, motor vehicle congestion, or turning conflicts [‡]	Protected Bicycle Lane		
< 10 mph	Less relevant	No centerline, or single lane one-way	Pedestrians share the roadway	Shared Street		
≤ 20 mph	≤ 1,000 – 2,000			Single lane each direction, or single lane one-way	Low curbside activity, or low congestion pressure	Bicycle Boulevard
≤ 25 mph	≤ 500 – 1,500	Multiple lanes per direction	Low curbside activity, or low congestion pressure			Conventional or Buffered Bicycle Lane, or Protected Bicycle Lane
	≤ 1,500 – 3,000					Buffered or Protected Bicycle Lane
	≤ 3,000 – 6,000			Protected Bicycle Lane		
Greater than 26 mph [†]	Greater than 6,000	Multiple lanes per direction	Low curbside activity, or low congestion pressure	Protected Bicycle Lane		
	≤ 6,000			Protected Bicycle Lane, or Reduce Speed		
	Greater than 6,000	Any	Any	Any	Protected Bicycle Lane, or Bicycle Path	
High-speed limited access roadways, natural corridors, or geographic edge conditions with limited conflicts		Any	High pedestrian volume	Bike Path with Separate Walkway or Protected Bicycle Lane		
			Low pedestrian volume	Shared-Use Path or Protected Bicycle Lane		

* While posted or 85th percentile motor vehicle speed are commonly used design speed targets, 95th percentile speed captures high-end speeding, which causes greater stress to bicyclists and more frequent passing events. Setting target speed based on this threshold results in a higher level of bicycling comfort for the full range of riders.

[†] Setting 25 mph as a motor vehicle speed threshold for providing protected bikeways is consistent with many cities' traffic safety and Vision Zero policies. However, some cities use a 30 mph posted speed as a threshold for protected bikeways, consistent with providing Level of Traffic Stress level 2 (LTS 2) that can effectively reduce stress and accommodate more types of riders.¹⁸

[‡] Operational factors that lead to bikeway conflicts are reasons to provide protected bike lanes regardless of motor vehicle speed and volume.

The All Ages & Abilities Design Toolbox

Five major types of bikeway provide for most bike network needs, based on the contextual guidance on page 4. This list is organized from more to less shared operation with automobiles. Each facility type is appropriate as an All Ages & Abilities bikeway in relevant street contexts. The NACTO *Urban Bikeway Design Guide* provides detailed guidance on bikeway facilities.



Argyle Street, CHICAGO
(photo credit: Chicago DOT)

Low-Speed Shared Streets allow bicyclists to comfortably operate across the entire roadway. Shared streets target very low operating speeds for all users, typically no greater than 10 mph. The volume of people walking and bicycling should be much greater than vehicle volume to maintain comfort. Issues for bicycling in shared environments arise from conflicts with people walking, who may be expected at any point across the street's width. Materials and street edges must be appropriate for bicycling; materials are often varied to delineate road space, but any seams or low mountable curbs must be designed to avoid creating fall hazards for bicyclists.



SE Taylor Street, PORTLAND
(photo credit: Greg Raisman)

Bicycle Boulevards (or neighborhood greenways) provide continuous comfortable bicycle routes through the local street network. Bike Boulevards are characterized by slow motor vehicle speeds and low volumes. Sometimes these are present by the very nature of the street and its function (e.g. narrow streets with no major destinations), but sometimes design work is needed, such as adding traffic calming elements, filtering most motor vehicle traffic off, and/or prioritizing bicycles at major and minor street intersections. In this way, bicycling is made comfortable across the entire roadway. Directional markings and wayfinding signage provide riders with intuitive, coherent routing.



Laurier Avenue E, MONTRÉAL
(photo credit: Dylan Passmore)

Buffered & Conventional Bicycle Lanes provide organized space for bicycling, and are often part of street reconfiguration projects that improve safety and comfort for all users. Bicycle lanes are an important tool to improve comfort and safety on streets where the number of passing events is too high for comfortable mixed-traffic bicycling, but where curbside activity, heavy vehicles, and lane invasion are not significant sources of conflict. Buffered bike lanes are almost always higher comfort than conventional bike lanes. In many cases, cross-sections with room for buffered bicycle lanes also have room for protected bicycle lanes.



Dunsmuir Street, VANCOUVER
(photo credit: Paul Kreuger via Flickr)

Protected Bicycle Lanes (also known as Separated Bike Lanes or Cycle Tracks) use a combination of horizontal separation (buffer distance) and vertical separation (e.g. flex posts, parked cars, or curbs) to protect people bicycling from motor vehicle traffic. The combination of lateral buffer distance and vertical separation elements (such as flexible delineators, curbs or height differences, or vehicle parking) can ameliorate most of the stressors of on-street bicycling. The robustness of bikeway separation often scales relative to adjacent traffic stress.



Cultural Trail, INDIANAPOLIS
(photo credit: Green Lanes Project)

Shared-Use & Bicycle Paths have in many cities served as the early spines of an All Ages & Abilities network. Paths can provide a continuous corridor, but usually do not take riders to their destinations. High pedestrian volumes, driveways, obtrusive bollards, sharp geometry, and crossings all degrade bicycling comfort, but often require long project timelines to eliminate. To become useful for transportation, paths work best when connected to an on-street network that meets the same high benchmark of rider comfort, and design provides bicycle-friendly geometry. Ideally, bicycles should be separated from pedestrians where significant volume of either mode is present, but where space limitations exist, multi-use paths are still valuable.

Motor Vehicle Speed & Volume Increase Stress

Whether or not people will bicycle is heavily influenced by the stresses they encounter on their trip. These stressors impact their actual physical safety and their perceived comfort level.

For all roadways and bike facilities, two of the biggest causes of stress are vehicular traffic speed and volume. These factors are inversely related to comfort and safety; even small increases in either factor can quickly increase stress and potentially increase injury risk.¹⁹ The stresses created by speed are compounded by vehicular volume, and vice versa.

Slower or less confident bicyclists experience "near misses"—or non-injury incidents that cause stress—much more frequently per trip than faster riders, which can contribute to discouraging people from riding who would otherwise do so.²⁰

SPEED

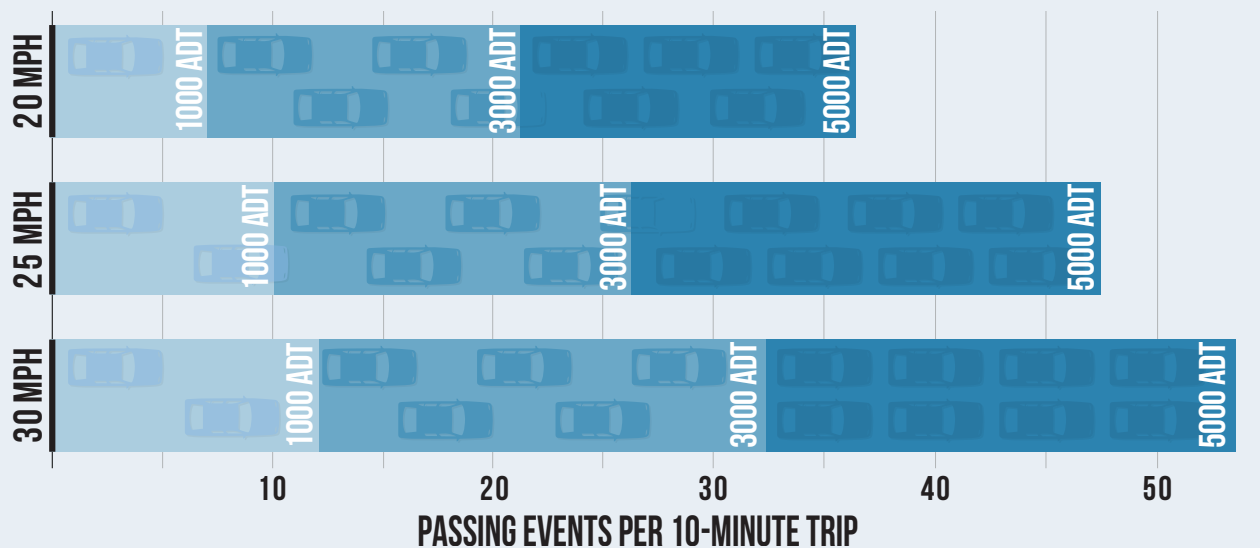
High motor vehicle speeds and speeding introduce significant risk to all road users, narrowing driver sight cones, increasing stopping distance, and increasing injury severity and likelihood of fatality when crashes occur.²¹ Most people are not comfortable riding a bicycle immediately next to motor vehicles driving at speeds over 25 mph. Conventional bike lanes are almost always (with rare exceptions) inadequate to provide an All Ages & Abilities facility in such conditions.

VOLUME

When vehicular volumes and speeds are low, most people feel most comfortable bicycling in the shared roadway as they are able to maintain steady paths and riding speeds with limited pressure to move over for passing motor vehicles. However, as motor vehicle volume increases past 1,000 – 2,000 vehicles per day (or roughly 50 vehicles in the peak direction per peak hour), most people biking will only feel comfortable if vehicle speeds are kept below 20 mph.

Conflicts Increase with Speed & Volume

This chart illustrates the number of passing events (at increasing motor vehicle average speed and volume) experienced over a 10-minute period by a bicyclist riding 10 mph. As motor vehicle speed and volume increase, they magnify the frequency of stressful events for people bicycling.



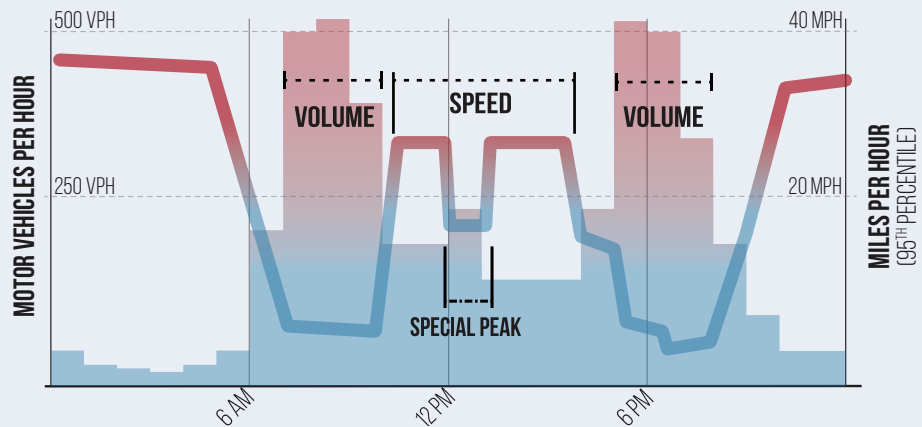
Motor Vehicle Speed and Volume Amplify One Another as They Increase

The frequency at which a person bicycling is passed by motor vehicles is one of the most useful indicators of the level of stress of a roadway or bike facility. Passing events increase with speed and volume, decreasing rider comfort and safety. Where car traffic is routinely above 20 mph, or where traffic volume is higher than 50 vehicles per direction per hour, pressure on bicyclists from motor vehicles attempting to pass degrades comfort for bicycling and increases risk.

- » **At speeds of 20 mph**, streets where daily motor vehicle volume exceeds 1,000 – 2,000 vehicles, frequent passing events make shared roadway riding more stressful and will deter many users.
- » **Between 20 and 25 mph**, comfort breaks down more quickly, especially when motor vehicle volume exceeds 1,000 – 1,500 ADT. When motor vehicle speeds routinely exceed 25 mph, shared lane markings and signage are not sufficient to create comfortable bicycling conditions.
- » **Motor vehicle speeds 30 mph or greater** reduce safety for all street users and are generally not appropriate in places with human activity.
- » **Where motor vehicle speeds exceed 35 mph**, it is usually impossible to provide safe or comfortable bicycle conditions without full bikeway separation.

Sources of Stress Change Throughout the Day

Large fluctuations in motor vehicle traffic volume between morning, mid-day, afternoon, and nighttime result in radically different bicycling conditions on the same street throughout the day. The example at right shows a street with roughly 500 vehicles per direction per hour during the peak. While queuing stress occurs at peak times, low off-peak volume results in dangerously high motor vehicle speeds.



Peak vs. Off-Peak

The variation in speed and volume conditions between peak and off-peak hours can manifest as two distinct issues that decrease comfort and safety.

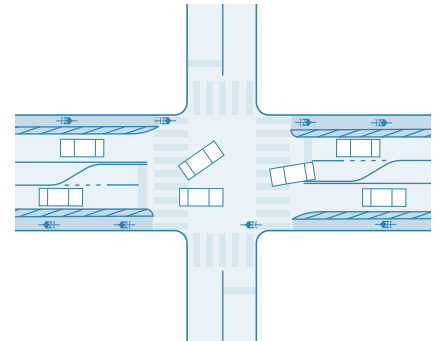
- » **During high-volume peak periods**, motor vehicle queuing prevents comfortable mixed-traffic operation and increases the likelihood of bicycle lane incursions, unless physical separation is present.
- » **During off-peak periods**, speeds can rise quickly, especially on wide and multi-lane streets, unless the street's design and operations specifically discourage speeding. Streets with very low off-peak volumes that also see little speeding, including many small neighborhood streets, may indicate All Ages & Abilities conditions if peak volumes are managed effectively.
- » **Special Peaks** occur on streets that experience intensive peak activity periods. Schools have multiple short windows of time where pedestrian and motor vehicle activity are intense at exactly the time and place where the appeal of All Ages & Abilities bicycling is most sensitive. Downtown cores and retail streets experience intensive commercial freight activity throughout the day including at off-peak times, adding importance to the creation of protected bike lanes.

Changing the Street: Design, Operation, Networks

Not every solution that helps to create safe and comfortable bicycling conditions will be a geometric design. Creating a network of high-comfort bicycle facilities that meet the All Ages & Abilities criteria requires leveraging the full suite of design, operational, and network strategies to transform streets. Strategies can be implemented incrementally to address sources of stress and conflict, change demand for access and movement, and ultimately transform streets for all users by continuously increasing comfort and creating more opportunities to make more trips by bicycle.

Change Design

Design strategies change the cross-section of a street in order to provide bike lanes, buffered bike lanes, protected bike lanes, or other dedicated bicycle infrastructure. Creating dedicated space for bicycling— either by reducing the number of motor vehicle lanes or their width—usually does not involve substantial changes to motor vehicle volume or the types of vehicles that can use a street, and has substantial benefits for the safety of all street users. 4-to-3 and 4-to-2-lane (with left turn pocket) conversions are widely used, and many other street redesigns apply the same basic principle of organizing movements and modes into dedicated space to improve the efficiency of each space.



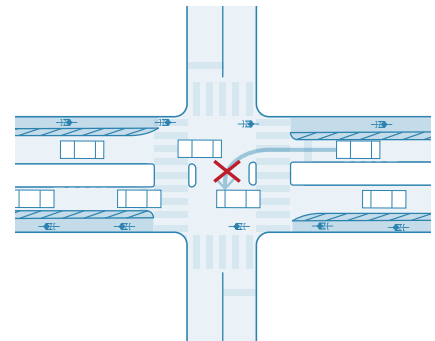
Examples:

- Repurpose Motor Vehicle Lane
- Convert from Buffered to Protected Bike Lane

Change Operation

Operational changes—such as speed reduction, signalization and other conflict management, and proactive curbside management—improve bicycling conditions by reducing the level of traffic stress on a street. Operational strategies make streets more predictable, efficient, and safe without necessarily changing the street’s cross-section or the types of vehicles allowed.

On all facility types, reducing motor vehicle speeds to 20 – 25 mph is a core operational strategy for improving bicycle comfort and meeting the All Ages & Abilities criteria. In addition, reducing speeds can also make it easier to enact other safety changes, such as changes to intersection geometry, signalization, turn lanes, and turn restrictions. Since operational changes do not impact what types of vehicles can use the street, they usually do not require significant planning beyond the street itself, and are often the easiest type of change to implement.



Examples:

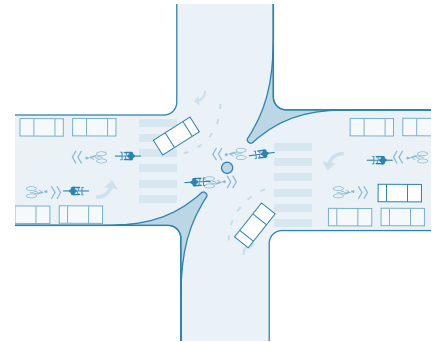
- Signal Separation of Conflicting Movements
- Low-Speed Signal Progression

Change the Network

Diverting motor vehicle traffic from a street, changing travel direction, (dis)allowing specific types of curbside access, and making other changes to the role of a street in the motor vehicle network are powerful ways to create All Ages & Abilities bicycling conditions. Such network changes allow the street to be transformed into a comfortable bicycling environment without requiring dedicated space.

Bicycle boulevards and shared streets, in particular, often rely on network changes to create the low-speed, very low-volume conditions necessary for cyclists to feel safe and comfortable. Prohibiting through-traffic (requiring all motor vehicles to turn off the street at each intersection), either through physical diverters or signage, is an effective strategy for reducing speed and volume.

Changes to the motor vehicle network can open up opportunities for better bikeway designs. For example, converting a high volume or high speed street from two-way to one-way or removing all curbside parking can provide space for a protected bike lane.



Examples:

- **Bicycle Boulevard**
- **Time-of-Day Regulations**



Ames Street, CAMBRIDGE
(photo credit: People for Bikes)

Low-Speed, Low-Volume Roadways Can Be Shared

See the Urban Bikeway Design Guide for detailed guidance on Bicycle Boulevards, Conventional Bike Lanes, Buffered Bike Lanes, and Left Side Bike Lanes.

Bicycle Boulevards & Shared Streets

Bicycle boulevards and shared streets place bicycle and motor vehicle traffic in the same space at the same time. These facilities meet the All Ages & Abilities criteria when motor vehicle volumes and speeds are so low that most people bicycling have few, if any, interactions with passing motor vehicles.

What to do:

- » **Use both peak-hour volume and off-peak speed** to determine whether a shared roadway can serve as an All Ages & Abilities bike facility. High peak period volumes or high off-peak speeds create a high-stress bicycling environment. These sources of stress can be addressed through speed management or volume management, or may indicate the need for a separated bicycle facility.
- » **Set a 20 – 25 mph target speed (10 mph on shared streets)** for motor vehicles in the majority of urban street contexts. Use the 95th percentile motor vehicle speed, along with the overall speed profile of motor vehicle traffic, to determine whether high outlying speeds exist, since even small numbers of motor vehicles traveling at high speeds can degrade the comfort of people bicycling on shared roadways.
- » **Manage motor vehicle speeds** through operational and network tools such as speed humps, pinchpoints, and neighborhood traffic circles.
- » **Reduce motor vehicle volume** by constructing diverters, prohibiting through traffic, or removing parking. The All Ages & Abilities condition is likely to be reached below approximately 1,000 – 1,500 vehicles per day or approximately 50 vehicles per hour per direction.
- » **Use time-of-day analyses** to match regulations or access restrictions to demand. Commercial setting can also work with bike boulevards if stressors are managed. Prioritize delivery and freight access off-peak, or allow only transit and bikes at peak periods.



SE Ankeny Street Bike Boulevard, PORTLAND
(photo credit: NACTO)



Brookline Street, CAMBRIDGE
(photo credit: City of Cambridge)

Conventional & Buffered Bicycle Lanes

Conventional and buffered bike lanes on urban streets delineate space for bicyclists but provide no physical separation between people bicycling and driving. With on-street parking, they also place the bicycle between parked vehicles and moving motor vehicles. Since bicyclists must enter the motor vehicle lane to avoid conflict with turning vehicles, parking maneuvers, double parking or curbside loading, or open doors, it is important for passing events to be minimized.

What to do:

- » **Set target speeds at or below 25 mph.** Speeds of 20 – 25 mph improve comfort and allow drivers to more easily react when bicyclists need to move into the motor vehicle lane. Use strategies such as lower progression speed and shorter signal cycle lengths to reduce the incentive for drivers to speed, and reduce top-end speeding incidents.
- » **Discourage motor vehicle through-movement to reduce volumes.** Lower motor vehicle volumes reduce the number of passing events. Depending upon the presence and intensity of other operational stressors, an All Ages & Abilities condition may be reached below approximately 3,000 – 6,000 vehicles per day, or approximately 300 to 400 vehicles per hour.
- » **Reduce curbside conflicts**, especially freight, loading, and bus pull-outs (see page 15). Carefully manage loading activity and parking demand. On one-way streets with transit activity, move the bike lane or buffered bike lane to the left side of the street to alleviate intersection and curbside conflicts. On streets with heavy curbside use but low motor vehicle volume, consider moving truck traffic or curbside loading to other streets.
- » **Address intersection conflicts** through motor vehicle turn prohibitions, access management, and signal phasing strategies. Due to the likelihood of both left- and right-turning conflicts from bi-directional motor vehicle traffic, use the same motor vehicle volume threshold on two-way streets as on one-way streets.
- » **Increase buffer distance** where traffic characteristics adjacent to the bike lane decrease comfort, including large vehicles or curbside parking. Where adjacent sources of stress are present, a buffered bike lane can improve comfort by increasing shy distance between bikes and motor vehicles. Where multiple motor vehicle lanes, moderate truck and large vehicle volumes, or frequent transit indicate that most bicyclists will need more separation to be comfortable.

Separate Bicyclists When Speed & Volume are High

Protected Bicycle Lanes

Protected bike lanes (including raised bikeways) create All Ages & Abilities conditions by using physical separation to create a consistently exclusive, designated bicycling space. The physical protection offered by protected bike lanes means that they can often meet the All Ages & Abilities criteria even in higher speed, high volume, or unpredictable conditions. Protected bike lanes improve the overall organization of the street, and increase safety for people walking, bicycling, and in motor vehicles.

What to do:

- » **Build protected bike lanes where motor vehicle speed consistently exceeds 25 mph**, where daily motor vehicle volume is higher than approximately 6,000 vehicles per day, where curbside conflicts are expected, or wherever there is more than one motor vehicle lane per direction.
- » **Manage intersection and curbside conflicts** with transit boarding islands, protected (bend-out or offset) intersection designs, signal phasing, and other turn management strategies.
- » **Reduce speeds through operational strategies**, such as signal time, lower signal progression, and shorter signal cycles.
- » On streets with parking, **reverse the position of the parking and the bike lane to create physical separation** between the bike lane and moving motor vehicle traffic.
- » On streets without parking, **add vertical separation elements** (e.g. delineators, barriers, raised curbs) in an existing buffer, or raise existing curbside bike lanes.
- » On streets with multiple motor vehicle lanes in each travel direction, **convert one travel lane to a protected bike lane**, better organizing the street and improving safety for people biking, walking and driving.²²
- » **Convert conventional or buffered lanes to protected lanes** if motor vehicle speeds and volumes cannot be otherwise reduced and where there is high curbside activity or peaks of intensive demand such as retail-heavy streets, or around schools, large employers, institutions, and entertainment districts.



Second Avenue, SEATTLE
(photo credit: Adam Coppola for Green Lanes Project)

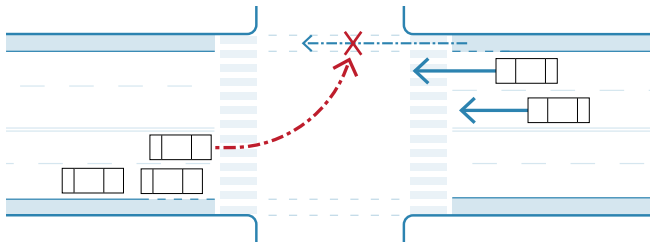
Strategies to Reduce Other Sources of Stress

In addition to motor vehicle speed and volume, All Ages & Abilities bikeway facility selection should respond to street conditions that increase bicycling stress and often degrade comfort and safety for all people using the street. These sources of stress can be addressed through design, operations, and network solutions that either remove the source of stress or separate it from bicycle traffic.

Multiple Motor Vehicle Lanes

Source of Stress

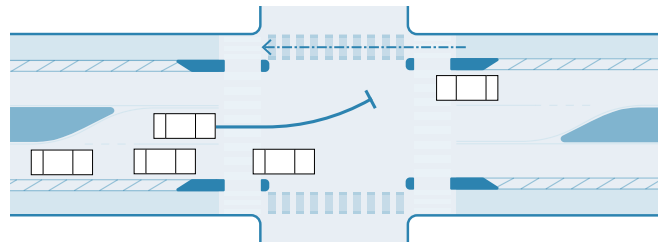
Motor vehicle traffic on multi-lane streets, whether two-way or one-way, is less predictable than on streets with a single lane per direction of travel. Lane changes, acceleration and passing, and multiple-threat visibility issues degrade both comfort and safety. Corridors with a major through-traffic function and multiple motor vehicle lanes are inherently unpredictable biking environments.



A common "multiple threat" conflict, where reduced visibility for motor vehicles turning across multiple travel lanes increase bicyclists' risk at crossings. The 4-to-3 lane conversion is a common technique for managing motor vehicle traffic flow while reducing the multiple threat conflict, though two-way left turn lanes introduce turn conflicts at mid-block locations (e.g. driveways).

Design Strategy

Reduce the cross-section to one motor vehicle travel lane per direction, where possible. On streets where multiple through lanes in one direction are used to allocate very high motor vehicle traffic capacity, provide physical protection and manage turns across the bikeway. 4-to-3 or 5-to-3 lane conversions paired with protected bikeways are transformative for both bicycling and walking safety and comfort.²³

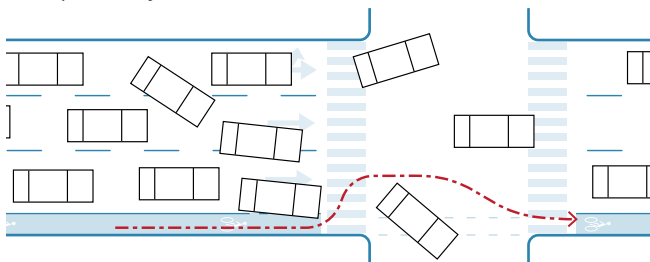


Motor Vehicle Queuing

Source of Stress

Motor vehicle congestion presents safety and comfort issues for people bicycling. Queued traffic moves at unpredictable speeds and will often invade conventional or buffered bike lanes.

Queuing encourages both motorists and bicyclists to engage in unpredictable movements. Bicyclists may weave through queued cars when bicycle facilities are obstructed, where motorists are also prone to move unexpectedly.

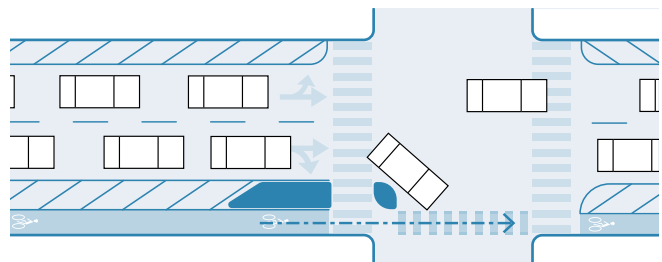


Bicyclists are more likely to try to weave through congested traffic, especially when bikeways are impeded, but motor vehicles become unpredictable. Separation and protection prevent queued vehicles from permeating bicycle space and maintain bikeway integrity throughout the day.

Design Strategy

Protected bike lanes should be implemented where motor vehicle invasion of the bike lane is likely to occur otherwise. Visual and physical barriers can prevent encroachment on the bikeway.

Bicycle facilities should be designed with capacity for growing ridership, including passing of slow-moving cargo bicycles.



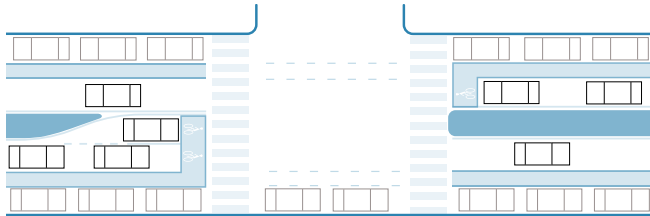
Strategies to Reduce Other Sources of Stress

Intersections

Source of Stress

Motor vehicles turning across the bikeway typically require people bicycling to negotiate with motor vehicles, a significant stressor at all but the very lowest speed conditions. Bicycle design treatments that require people biking to cross or mix with motor vehicle traffic are stressful at all but low volumes.

Bicycle left turns, especially on busy streets, can be very stressful or even dangerous for bicyclists, especially if bikes are expected to merge with fast-moving traffic or turn across multiple lanes.²⁵



Sharp grade or direction changes, such as sharp lateral transitions approaching the intersection, require people biking to slow down and may increase fall risks. Frequent starts and stops also create instability at intersections.

Design Strategy

Provide separation in space and time between bicycles and vehicles to the extent possible, or reduce speed and maximize visibility between drivers and bicyclists. Tighter effective corner radii, raised crossings, and protected intersection designs are effective in slowing motor vehicle turning speed and placing bicyclists in a priority position.

Provide appropriate intersection treatments to accommodate desired turning movements, including bike boxes, two-stage queue boxes, phase separation, or protected intersections (also known as “offset” or “bend-out” crossings) that organize and give priority to people bicycling.



Reduce or mitigate situations that increase risk of falling and instability. Design intersection approaches and transitions with bicycle-friendly geometry; place bicycle movements first in the signal phase; time signal progressions to bike-friendly speeds; and rotate stop signs to face cross streets.

Trucks & Large Vehicles

Source of Stress

High volumes of truck traffic degrade adjacent bicycling safety and comfort. This is often the case on major streets, or in commercial or industrial places.

Large vehicles have large blind spots, increasing risk of side-swipe and right-hook crashes.

Large vehicle noise and exhaust increase bicycling stress and present public health issues.

Design Strategy

Provide protected bicycle facilities—or, at minimum, buffered bike lanes—on observed or designated trucking routes, regardless of general motor vehicle speed and volume.

Use buffers to increase the distance between truck and bicycle travel paths. Consider protected intersection geometry (also known as “offset” or “bend-out”).

Provide wide lateral separation—such as with wide buffers, planters or planting strips, or parking-protected facilities—to dissipate pollutants entering the bikeway.²⁶

Curbside Activity

Source of Stress

Frequent freight and passenger loading either happens in the bikeway or adjacent in the curbside lane. Loading activities increase conflicts crossing the bike lane, or even blockages by double-parked vehicles that imperil bicyclists and rapidly decrease assurances of safety.

High parking turnover results in frequent weaving and door zone conflicts.

Freight loading is present throughout the day, but motor vehicle speed and volume are consistently low.

Car doors open into the bicycle travel path during vehicle exit and entry, but parking turnover is low to moderate.

Design Strategy

Provide designated truck loading zones and provide space for other curbside uses to prevent blockages of the bicycle lane. Consider restricting freight loading to off-peak periods. If frequent freight or passenger loading is observed, provide protected bicycle facilities regardless of speed and volume, or move passenger and freight loading uses to a cross-street.

Where parking turnover is high, provide protected bikeways regardless of speed to avoid sudden conflicts and reduce injury risk, or remove parking. Cities should establish local guidance on acceptable levels of parking maneuvers across bicycle lanes.

Implement a robust bike boulevard or shared street treatment with traffic calming strategies to provide comfort and safety across the entire roadway.

Provide a wide marked buffer adjacent to the vehicle door zone to guide bicyclists clear of dooring conflicts for both buffered and protected bike lanes.

Frequent Transit

Source of Stress

Buses merge across conventional bike lanes to access curbside stops. At all but the lowest bus frequencies, conventional “pull-out” transit stops degrade comfort and increase transit delay.

Bikes and transit travel at similar average speeds but different moving speeds, as buses stop and accelerate frequently. Overtaking buses and bicycle leapfrogging decrease riding comfort in mixed conditions.

Core transit routes and trunklines often operate on streets with dense destinations and demand for bicycle access. In some cases, right-of-way width may constrain design decisions and facility types that can be implemented.

Design Strategy

Provide spot protection using transit boarding islands, which are compatible with protected, buffered, and conventional bicycle lanes. Boarding islands create in-lane transit stops, which improve bus reliability and travel time.

Provide dedicated bicycle facilities. On one-way streets, left-side bicycle facilities can be used to separate bikes and transit vehicles.

On trunkline transit streets, it is even more important to accommodate users in dedicated lanes, since the major streets are where people need to get to their destinations. If the primary demand for the corridor is through travel, it may be possible to consider providing high-quality bike infrastructure on parallel, nearby, and continuous routes, while allowing local bicycle access on the transit street. To improve All Ages & Abilities bicycling conditions, use low-speed signal progressions and other calming measures consistent with transit effectiveness. As on all transit routes, pedestrian safety is the foremost design need.

The NACTO *Transit Street Design Guide* provides detailed guidance for streets with frequent bus transit routes.

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STAGE I

NETWORK PLANNING

Wolville

Blue Route Hub Study

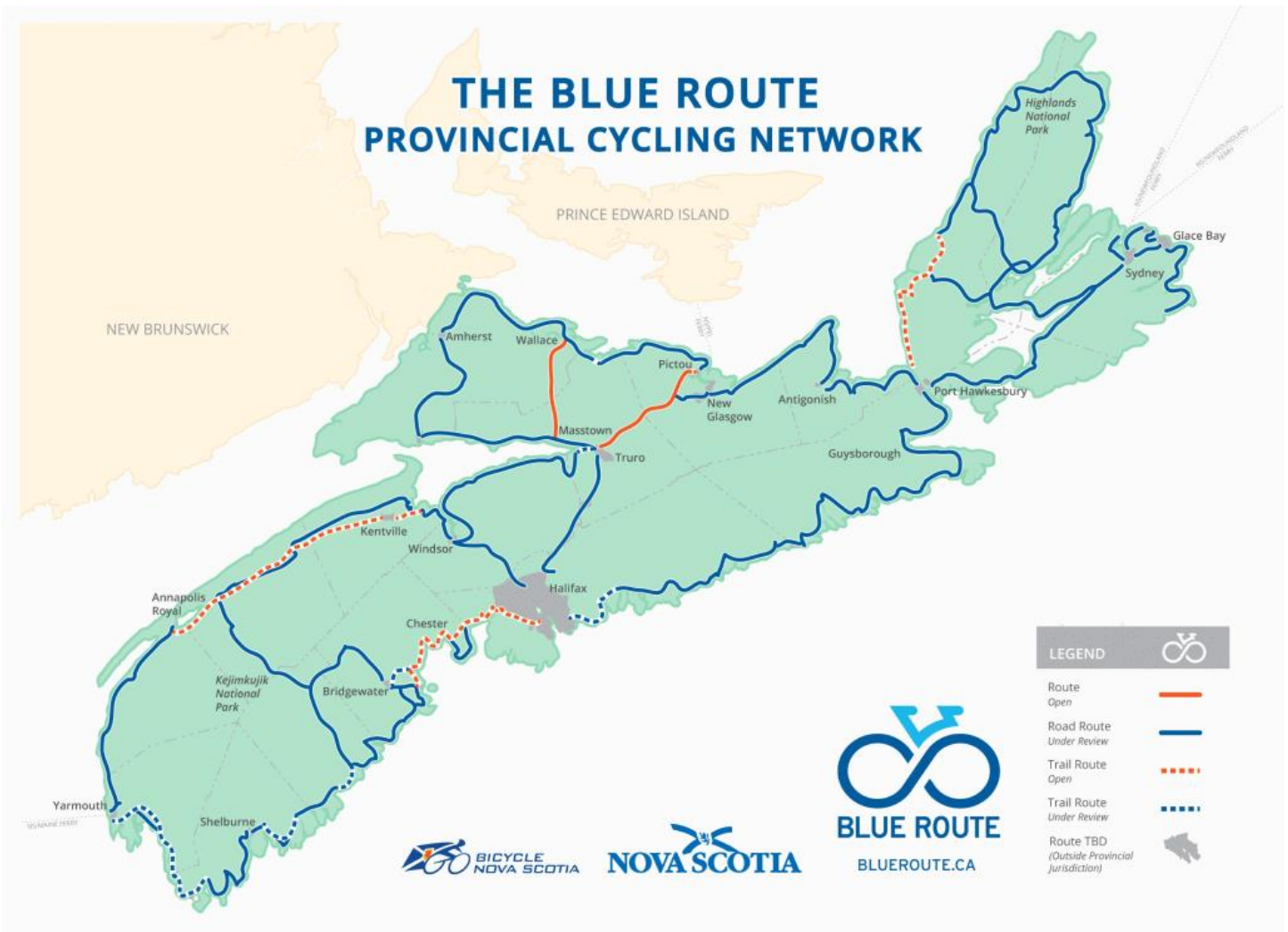


Prepared by:



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THE HUB STUDY

The Blue Route Hub Bikeway Study is a Bicycle Nova Scotia (BNS) initiative to assist municipalities and towns throughout Nova Scotia to advance bicycle culture in their region. Locations selected for this study are situated at junctions, referred to as “Hubs,” along the proposed province-wide bikeway network known as the Blue Route. The purpose of this study is to develop community-based plans that identify a minimum grid of priority routes where the implementation of bicycle specific infrastructure could have the greatest impact on increasing bicycle use in the area.

Goals of the Hubs Study:

- » Develop a proposed priority network of safe and connected bicycle routes in Wolfville to facilitate cycling as a viable, healthy, sustainable, and environmentally friendly mode of transportation for users of all ages and abilities.
- » Engage residents of the region to help guide the planning process to ensure that the network will add value to the community.
- » Establish routes that will provide cycling tourists traveling along the provincial Blue Route with easy and direct access to local attractions (parks, historic sites, etc.) and amenities in Wolfville.

Objective of the Report

The focus of Stage I has been to establish three primary routes, within the boundary limits of Wolfville, that have the potential to form a bikeway network that will allow the residents of Wolfville to move throughout the town by bicycle. The primary focus of this stage was to consult with the public to better understand their needs, and to determine which routes provide the most valuable solutions.

UNDERSTANDING THE TOWN

In order to develop a network plan, Bicycle Nova Scotia looked at the local context of the area; including the current travel behaviour and perceptions of transportation in Wolfville, origin and destination data, as well as physical characteristics of the Town.

Information was gathered on the ground in Wolfville, through public consultation, existing plans and analysis completed for the Town and using online resources such as National Census data.

EXISTING BICYCLE INFRASTRUCTURE

Figure 1 shows the existing bicycle infrastructure in Wolfville, including the Harvest Moon Trail (HMT) which is part of the Blue Route, and the painted on-street bike lanes along Main Street. The trail experiences a significant amount of recreational use by residents of Wolfville and surrounding communities. The HMT is also one of three 'destination trails' in Nova Scotia, attracting cycle tourists from around the globe. Maple Avenue and Main Street (Trunk 1) have been identified as potential on-road segments of the Blue Route by the Department of Transportation and Active Transit.

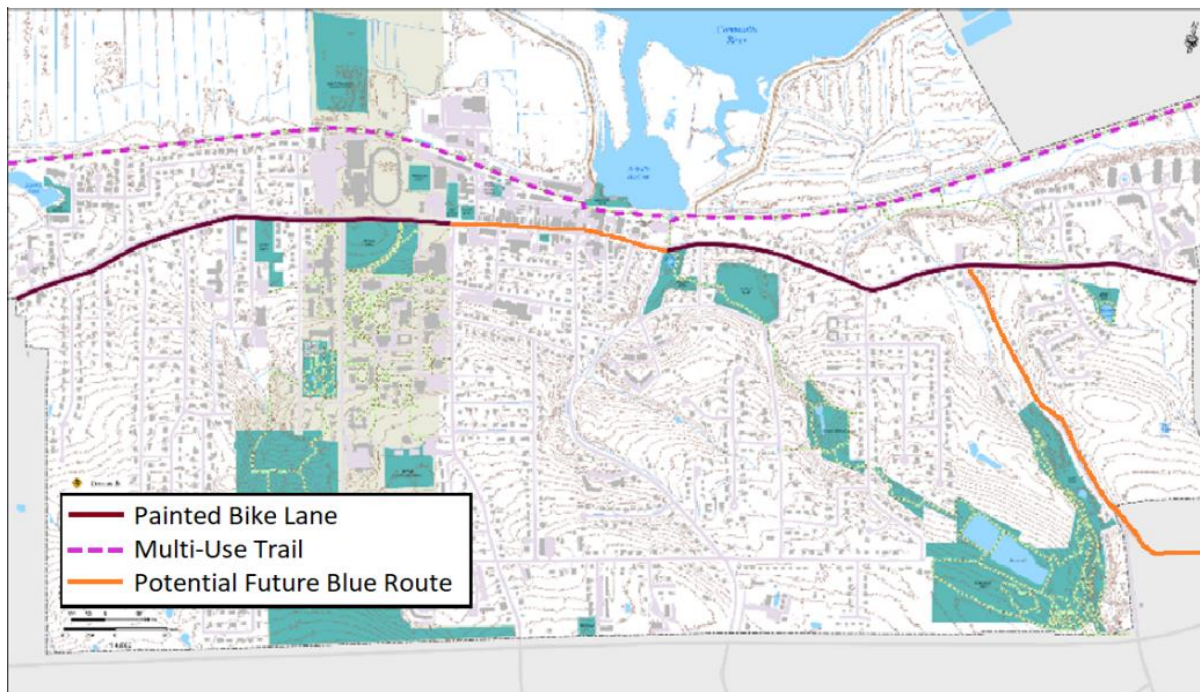


Figure 1 - Existing and proposed bicycle infrastructure

ACTIVE TRANSPORTATION PLANS & STRATEGIES

In 2015, an Active Transportation Plan was created for Wolfville by WSP consulting firm (Figure 2). The network proposed in the report was very similar to one suggested in an Active Living Master Plan created in 2011. The Municipality of the County of Kings will also soon be releasing an Active Transportation Plan for the region. Information gathered during their rounds of community engagement was also made available to BNS, and has been taken into consideration for the proposed network plan.

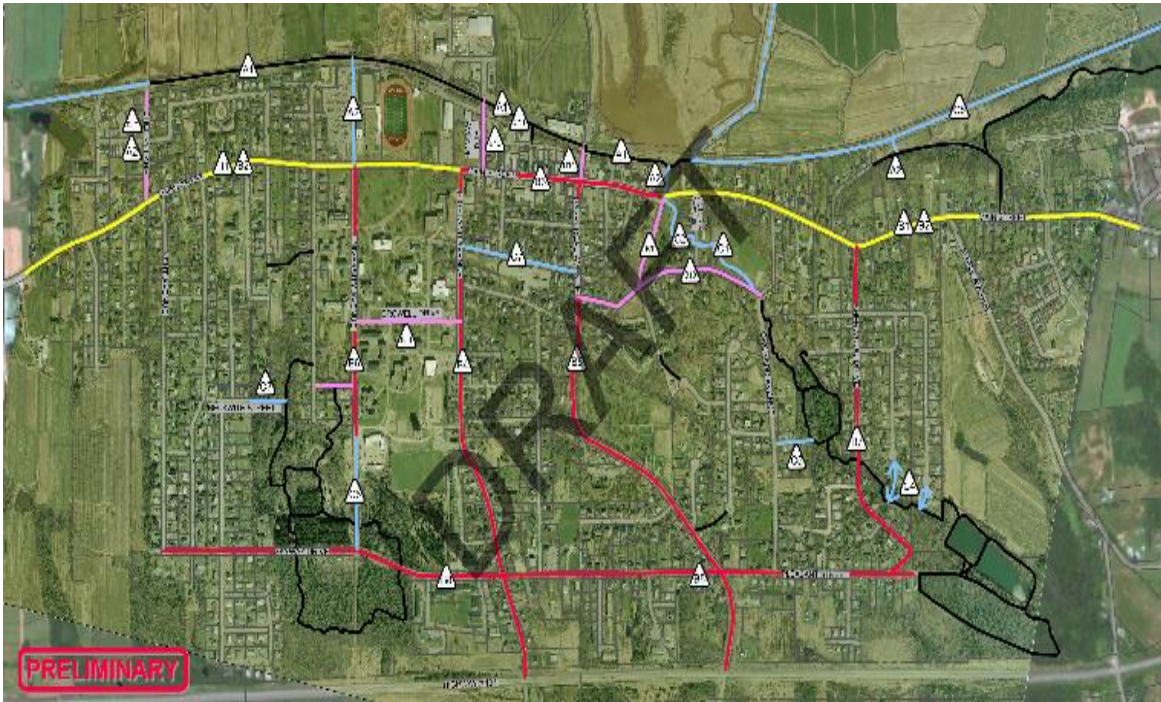


Figure 2 - Recommended Active Transportation Plan, WSP (2015)

CONSULTATION

BNS staff carried out consultation with both members of the public and specific local stakeholder groups in Wolfville to determine how the network could best support their needs. The Town of Wolfville's Mobility Survey was conducted online in Fall 2020 and had 403 individual respondents.

BNS staff met with local stakeholder groups to better understand their needs in relation to a potential bikeway network. Engagement with these groups was carried out via virtual consultation sessions and an online questionnaire. Stakeholder groups that took part in the consultation included:

- The Town of Wolfville's Accessibility Advisory Committee (AAC),
- The Town of Wolfville's Planning Advisory Committee (PAC),
- Eastern Kings Community Health Board (CHB),
- Acadia University's Student Union (ASU),
- Wolfville Memorial Library,
- Wolfville Business Development Corporation (WBDC), and
- Residents of Woodman's Grove.

Additionally, a modified version of the stakeholder questionnaire was sent to participants of the original Mobility Survey who indicated an interest in participating in future consultation opportunities; 44 people responded to the questionnaire.

Travel Behaviour

Acadia University enrolls approximately 3,700 full-time students and employs nearly 260 faculty and other staff members. Although the campus is compact, many of the students and staff members live off-campus and must commute to campus on a regular basis. Travel to and from Acadia University is an important consideration for developing a high-quality network for Wolfville.

According to the 2016 Census, motor vehicles are the primary mode of transportation in Wolfville for commuting to and from work (73%), walking accounts for approximately 22%, and cycling for 1.6%. Compared to 2011 Census data, the proportion of residents for whom cycling is the primary form of transportation has declined from 4.6% to 1.6%. Forty-five percent (45%) of Census participants in 2016 answered that they both lived and worked within the Town’s boundaries, meaning that, due to the size of Wolfville, there is an excellent market for walking and cycling (see Figure 3).

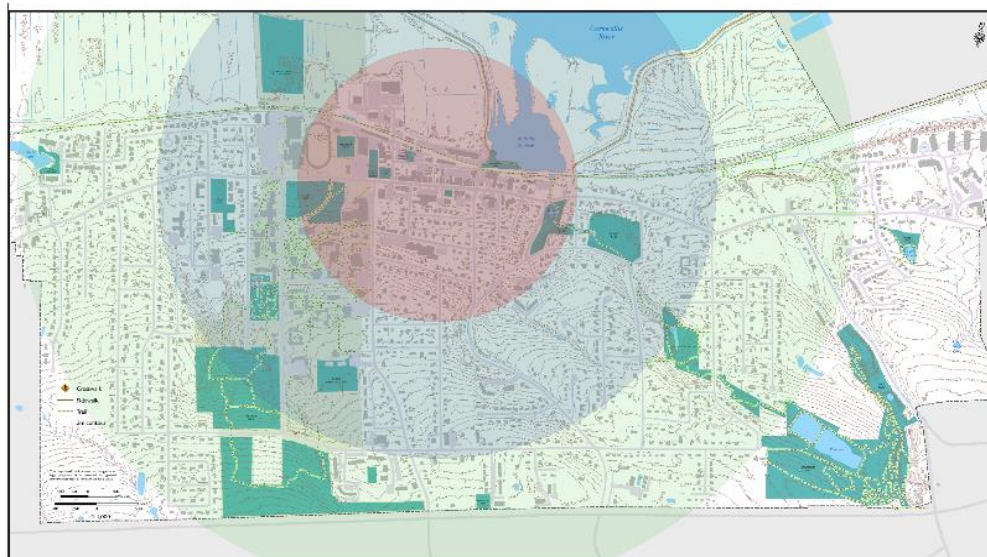


Figure 3 - Proximity to Downtown

CYCLING IN WOLFVILLE

Results from the Wolfville Mobility Survey, presented in Figure 4, suggests that a significant proportion (43%) of Wolfville residents consider themselves strong or at least confident cyclists. However, 74% of survey respondents indicated that they rarely or never travel by bicycle for trips in Town.

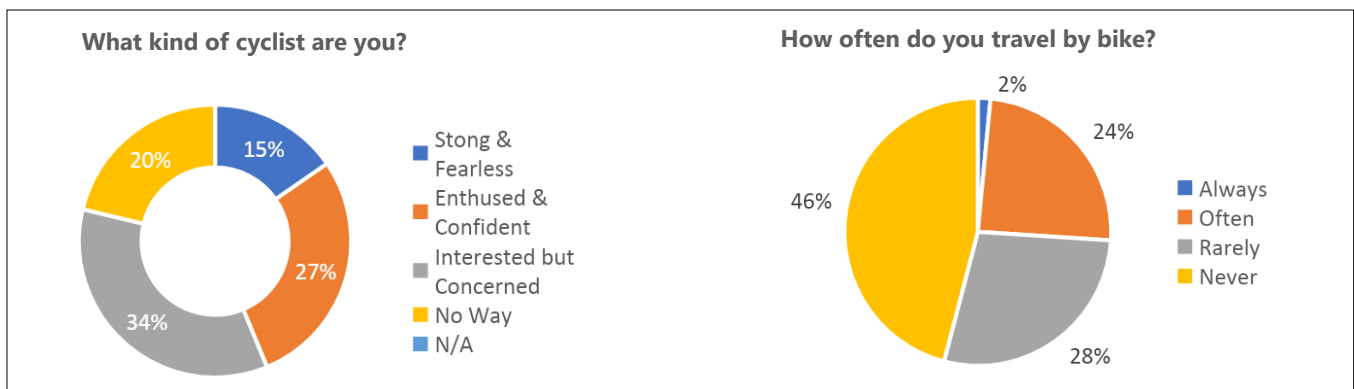


Figure 4- Cyclists in Wolfville

Physical activity was the most common motivation for existing cyclists in Wolfville (90%), suggesting that an effective approach to encourage more cycling in Wolfville would be to pair new infrastructure with efforts to promote the health benefits associated with cycling.

The **number one deterrent** to cycling for the survey population is **not owning a bicycle** (35%). Concerns about safety, the hill, level of confidence, poor infrastructure, and lack of infrastructure were also significant deterrents (between 24% and 29% response). Figure 6 illustrates the percentage of survey respondents who reported being impacted by each deterrent. Last year Wolfville introduced e-bike rentals at the public library, and this may be an indication that more promotion of that bike share program is needed. Considering that the hill is a significant barrier to cycling (28%), making e-bikes available for residents at the top of the hill could also help reduce barriers to cycling in Wolfville.

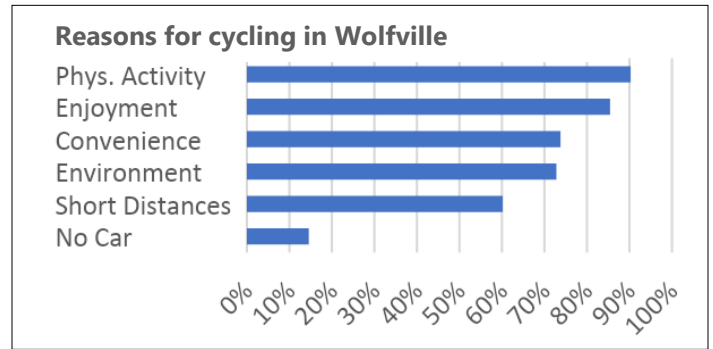


Figure 5 – Motivations for cycling, identified from Mobility Survey

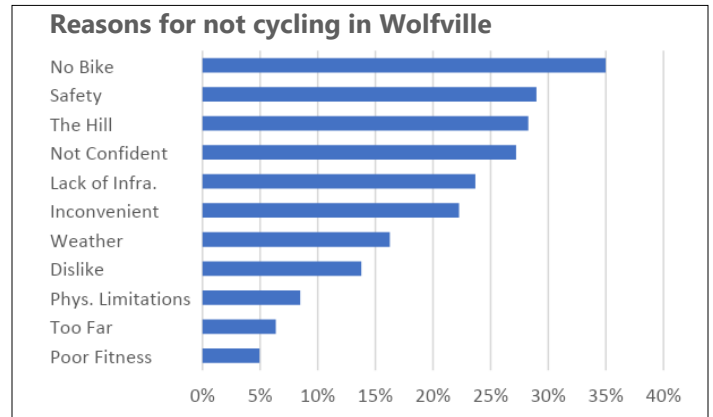


Figure 6 – Barriers to cycling, identified from Mobility Survey

Origins & Destinations

According to latest Census data [1], in 2016 the town of Wolfville had a population of 4,195 residents, and a population density of approximately 650 people per square kilometer (km²). Figure 7, presented in the town’s Municipal Planning Strategy (MPS) [2], shows the distribution of population densities throughout the town. Medium and high-density areas are concentrated on the west end of Main Street, and in the centre of Town, between Highland Avenue and Gaspereau Avenue. Connecting the network to these denser areas will improve access to the greatest number of people.

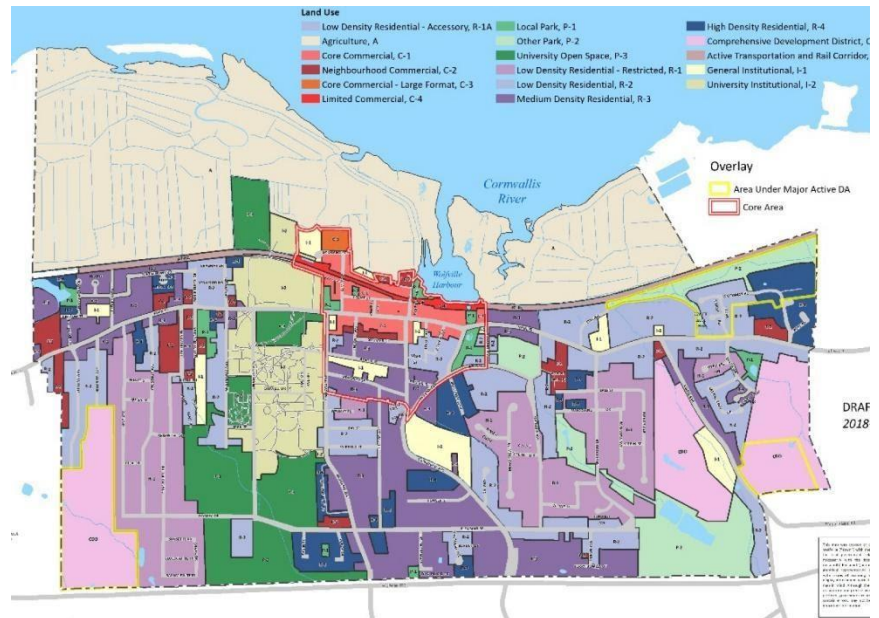


Figure 7 - Population Density in Wolfville

Key destinations in Wolfville, as determined through consultation with the public and stakeholder groups, are shown in Table 1, and mapped in Figure 8. According to numerous comments received during public engagement, in addition to easier movement throughout the town, the people of Wolfville also desire AT connections to nearby communities in the region. Access to Horton High School was also mentioned as a priority during public engagement.

Table 1 - Destinations in Wolfville, from public engagement

- » Downtown core
- » Acadia University
- » Wolfville School
- » Surrounding communities - Kentville, New Minas, Port Williams, Avonport, etc.
- » Harvest Moon Trail
- » Reservoir Park
- » Residential neighbourhoods

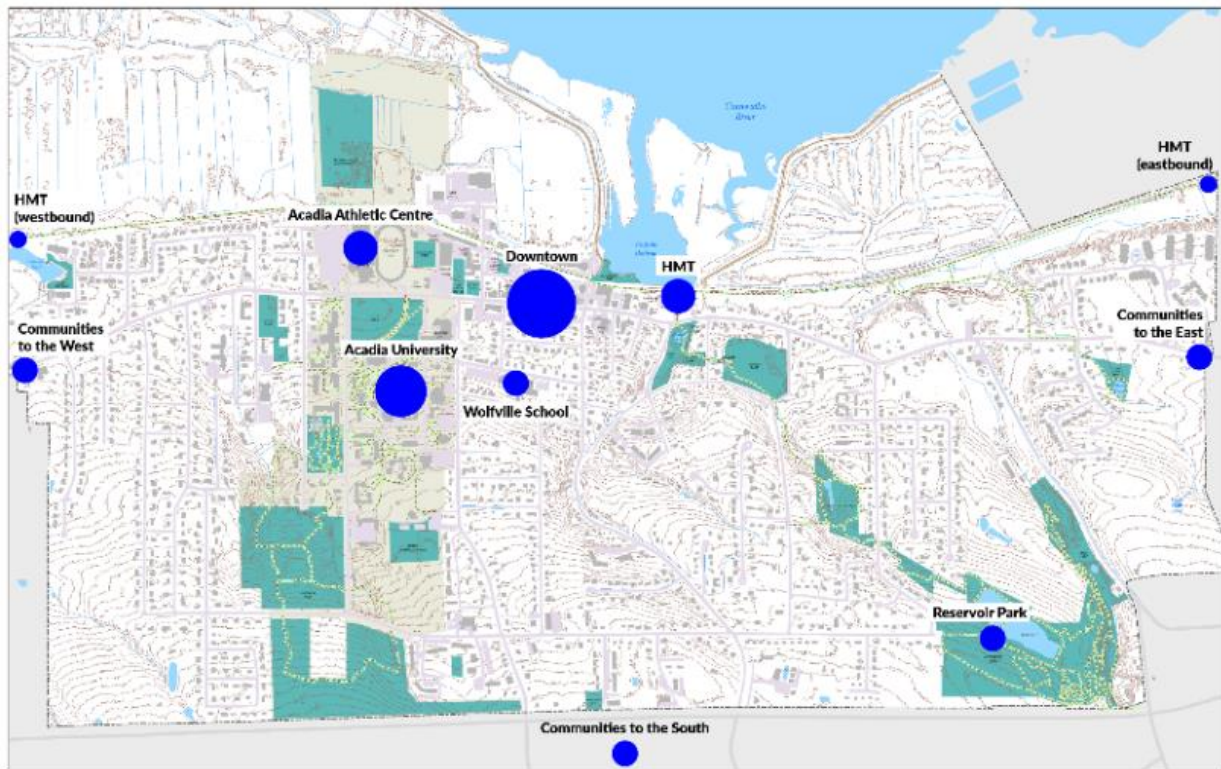


Figure 8 – Map of destinations in Wolfville, identified through stakeholder engagement

When stakeholders were asked what they considered the key routes or connectors in Wolfville to be through the online questionnaire, Main Street was the most common answer. The top 5 responses can be found in Table 2. While the Harvest Moon Trail was identified as a key route, there were several comments for improving the trail, such as improving surface condition, widening the trail through Town, and improving signage and wayfinding.

Table 2 - What are the key routes or connectors in Wolfville

Street	# of people (n=71)
Main Street	64
Gaspereau Ave.	27
HMT	25
Highland Av.	22
Skyway / Pleasant	22

NETWORK ANALYSIS: MAPPING ROUTES

To create a final plan for the network, used the five main requirements of cycle-friendly infrastructure to identify and compare potential routes: Safety, Comfort, Directness, Cohesion, and Attractiveness [3] [4] [5] [6]. For this analysis, directness and cohesion have been combined and analysed by looking at the origins and destinations, the 'comfort' of routes via their slope, and comparing the safety of routes by looking at sightlines. Attractiveness has not been considered, as that relates more to the design of the infrastructure rather than the route.

Directness and Cohesion

The first step to designing a bicycle network in Wolfville was to map out the key origins and destinations and connect them using straight lines, i.e. the most direct link (seen in Figure 9). This is a standard method for developing network plans in several transportation design guides [4] [5] [6]. These lines were used to determine which of the nearby roads and paths have the greatest potential to provide the most direct and intuitive route between points.

To service the origins and destinations that have been identified through this process, Main Street is a key connector. Due to comments related to the existing high vehicle and pedestrian traffic on Main Street, an additional east-west for connection would be appropriate. Skyway Drive/Pleasant Street provides connection to Reservoir Park, which was a popular destination. A north-south route that connects Main Street to Skyway Drive/Pleasant Street in the middle of the Town would seem beneficial as there is certainly a concentration of destinations downtown.

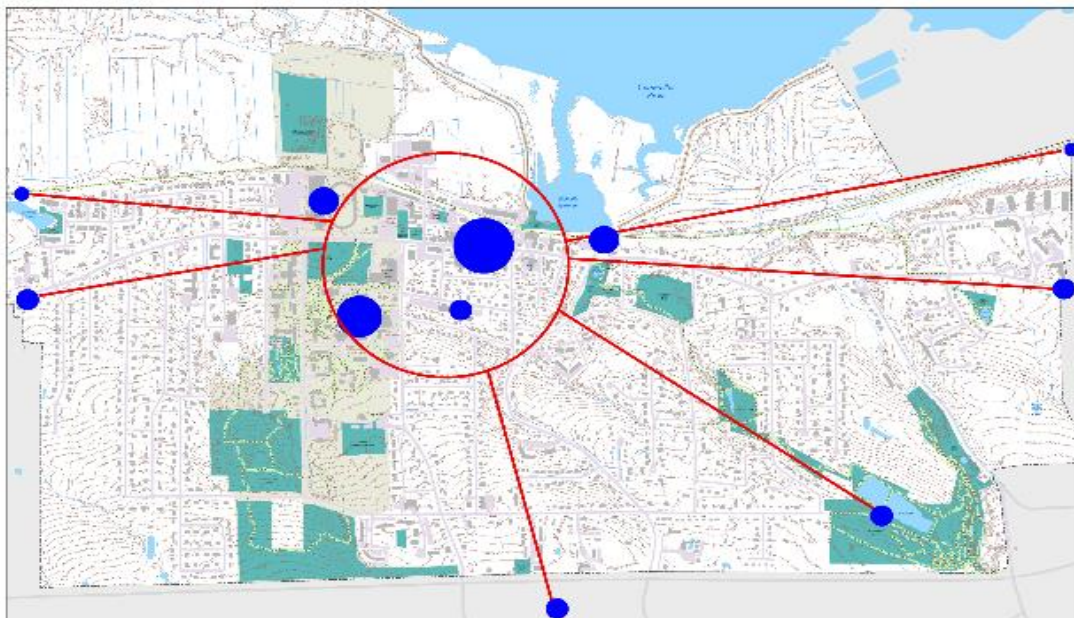


Figure 9 - Connections between major origins/destinations

Comfort

For the route to be accessible to people of all ages and abilities, the maximum grade of a slope should be below 4%. While all potential east-west routes in the town are well below this threshold, all potential north-south routes exceed it, except for Maple Avenue. Maple Avenue currently lacks connections to the rest of Town. A future connection through Reservoir Park could be considered to connect Maple to Pleasant Street particularly if higher density housing is built on Maple Avenue, though the hills in Reservoir Park are quite steep and without creative design could be a greater deterrent than existing hills. This also suggests that protected infrastructure would be desirable on the final north-south route, particularly going uphill where speed differences can be higher.

Table 3 - Slope of potential bicycle routes

	Avg. Slope	Greatest Slope
East-West Collectors		
Pleasant St.	0.1%	4.5%
Skyway Dr.	0.1%	3.0%
Main St.	0.4%	0.5%
North-South Collectors		
Maple Ave.	2.6%	3.0%
Gaspereau Ave.	4.2%	8.0%
Highland Ave.	4.6%	9.5%
Chestnut Ave.	5.3%	6.5%
Kent Ave.	5.6%	6.0%
University Ave.	5.7%	11.0%
Sherwood Dr.	6.2%	11.0%
Orchard Ave.	6.4%	10.0%

Safety

Real and perceived safety are both important factors in the creation of a bicycle network. While safety can be improved during the design phase by slowing down traffic, improving sightlines, and physically separating bicycles from motor vehicles using bollards or curbs. Traffic volume and existing sightlines were reviewed to determine the current level of safety for cyclists. Road widths and right-of-way was looked at to determine whether there is space for physical separation where necessary.

TRAFFIC VOLUMES

Traffic volume data was used where available. No additional traffic volume data was gathered as part of this study as irregular travel activity and patterns during the COVID-19 pandemic are unlikely to persist post-pandemic, limiting the utility of the data. Traffic speed and volume (TSV) data gathered on Main Street in 2015 (Table 4), shows a high volume of vehicles and would require protected bicycle lanes. Table 4 also shows the difference in traffic volume on Highland Avenue and Gaspereau Avenue, with Highland having fewer cars per hour.

Table 4 - Speed volumes in Wolfville

	Main Street - (west of University Av)	Main Street - (east of Gaspereau Av)	Highland Avenue	Gaspereau Avenue
Vehicles per Hour	~600vph	~360vph	145vph	214vph

While traffic speeds and volumes are not available for the remaining streets, it is assumed that many of the streets in Wolfville would have a low speed and volume of traffic. Where physically separated bicycle infrastructure is not being looked at, lower speed limits in Wolfville could be considered to ensure streets are safe all road users.

VISIBILITY AND SIGHTLINES

During public and stakeholder engagement, concerns were raised regarding sightlines and visibility at crosswalks along Main Street. The Town knows of this issue and, concurrent to the drafting of this report, is in the process of identifying and prioritizing problem areas.

For Gaspereau Avenue and Highland Avenue, both streets have similar widths and right-of-way allowance to incorporate separated cycling infrastructure. Highland Avenue has fewer bends along its length, which improves sightlines. Gaspereau Avenue was recently repaved and further changes or upgrades to it would have to be performed as part of a standalone project. Alternatively, at the beginning of BNS' engagement with the Town of Wolfville, the Town was in the process of planning for the reconstruction of Highland Avenue, which presents an opportunity to include safe bicycle infrastructure into an existing project, at a potentially lower cost.

PROPOSED NETWORK

BNS has proposed the following network as a priority minimum grid in Wolfville. This network includes Main Street, Highland Avenue, and Sky. These four routes will establish connections between residential areas, Wolfville’s downtown amenities, and connect Wolfville to regional and provincial cycling networks.

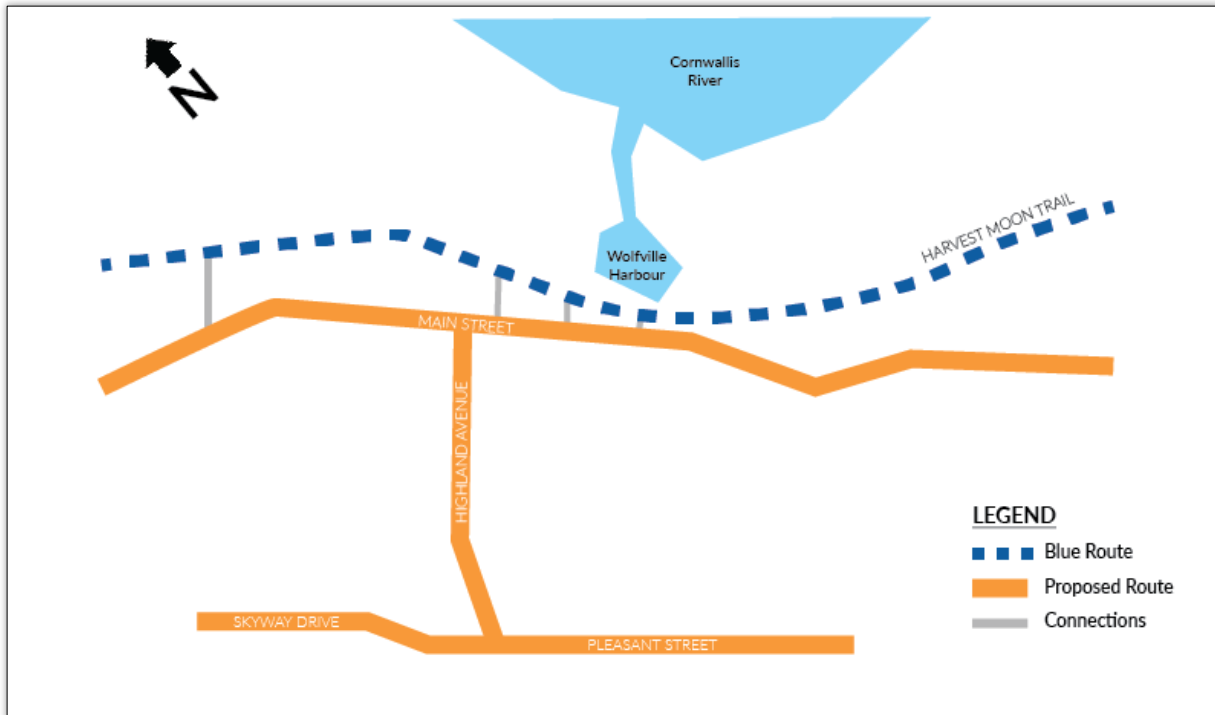


Figure 10 - Proposed bicycle network for Wolfville

Main Street: Downtown Wolfville, and destinations in downtown Wolfville, were unsurprisingly the most desirable destinations according to the public and stakeholders. There are existing bike lanes along the entire length of Main Street outside of the downtown core; connecting this route through downtown is extremely important for local and regional connectivity. Comments from the public indicate that space and movement are already constrained in this area, and suggestions were made to divert bike lanes to Front Street or even to the Harvest Moon Trail through downtown. These options would reduce the directness of the route.

This route also has spur connections to the Harvest Moon Trail. These are important to connect residents of Wolfville to regional destinations, but also important to connect visiting tourists travelling along the HMT to downtown businesses. Widening the trail between these spurs should be considered to accommodate increased use.

Highland Avenue: This route is a key central connector for the Town of Wolfville. While Gaspereau and Highland score similarly for connectedness, Highland has lower traffic and better sight lines for cyclists. Additionally, considering the condition of both roads and plans for construction, it will be significantly cheaper to add bicycle facilities to Highland Avenue in the near term. Like all the other

north-south connection options, the slope is above the AAA recommended grade of 4% and special consideration will need to be taken in the final design to provide as safe and comfortable a route as possible.

Skyway Drive/Pleasant Street: This route was identified as a key connector for residents as the only east-west route through Town other than Main Street, for the access it provides to Reservoir Park, and because it connects many of the current and future high density residential areas in Town. Most of the corridor has significant right of way to create separated bicycle infrastructure. Traffic calming could be implemented in the near-term to create a calmed street which would be safe for people on bicycles to use.

A Complete Connected Network

The ability of a bicycle network to encourage ridership is heavily dependent on its connectedness. While four routes have been deemed “priorities” for near-term implementation to form a minimum grid, the proposed layout does not provide a fully connected network. BNS suggests that the additional routes identified in Figure 11 should also receive consideration for active transportation infrastructure or traffic calming treatments in future, as funding and road maintenance opportunities arise, to complete and strengthen the connectivity of the network.

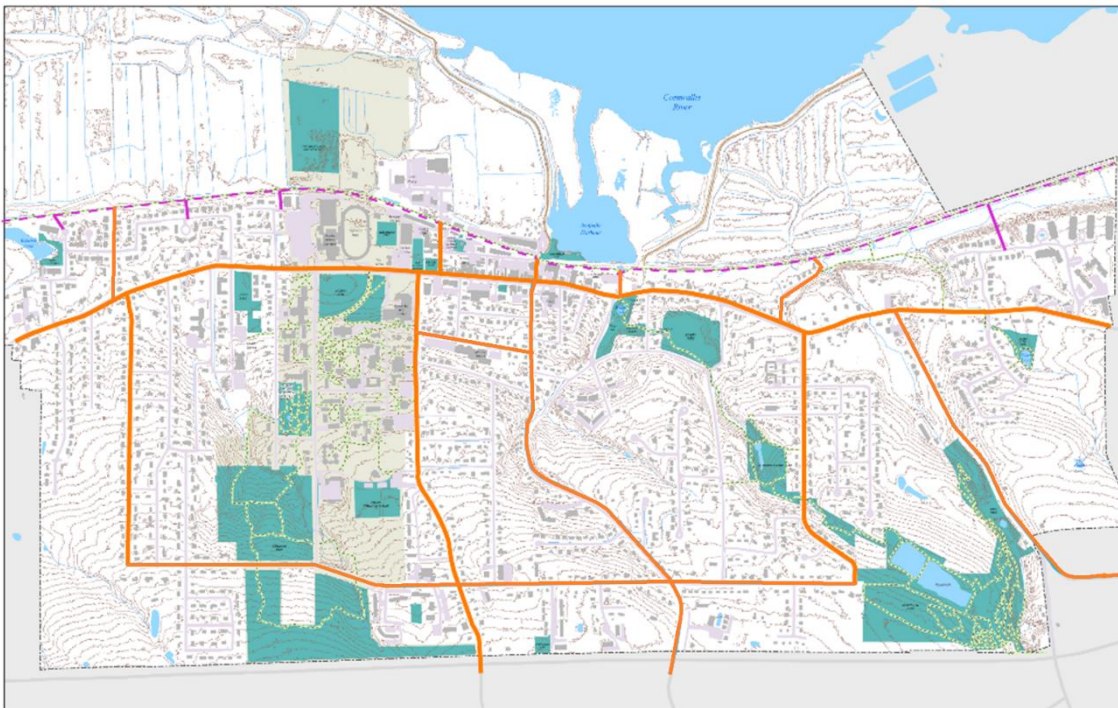


Figure 11 – Recommendation for a complete bicycle network for Wolfville

RECOMMENDATIONS

The creation of a safe and connected bicycle network has the potential to increase cycling rates in town for everyday journeys as well as connect Wolfville to the provincial network, attracting business from cycle tourists. After reviewing existing conditions and land-use patterns, and engaging with the community, Bicycle Nova Scotia recommends that the Town develop a three-route network, on Main Street, Highland Avenue and Pleasant Street/ Skyway Drive. The next stage in the Hubs Study design process will be to present the proposed network to the public and determine the most appropriate route for Bicycle Nova Scotia to focus on in Phase 3 of the Study.

A safe, well-maintained network of inclusive bicycle facilities will help residents feel confident and comfortable while cycling in Town. BNS suggests that the first step in the process should be to construct bicycle facilities along Main Street, Highland Avenue, while trialing temporary infrastructure on Pleasant Street/ Skyway Drive. The town should also investigate lower the speed limit of Pleasant Street/Skyway Drive to ensure the conditions are appropriate for a Bicycle Boulevard. Long-term, a network of fully connected routes should be developed to provide access to all corners of the town for those traveling by bicycle.

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Wolfville Comprehensive Active Transportation Network

Investing in Canada Infrastructure Program (ICIP) Climate Change Mitigation Sub-Stream

Council Overview

April 20, 2021

The Project

*The opportunity to have this project funded at **73.3%** is time sensitive and requires a Council decision.*

- *Provincial Government **33.33%**,*
- *Federal Government **40%***
- *The Town **26.66%**.*

This package outlines the opportunity so Council can make an informed decision.

The development of a minimum-grid-style, town-wide AT (active transportation) network, comprised of AAA (all-ages-and-abilities) walking and cycling facilities. The network would provide residents and visitors with safe, comfortable, and convenient access, by AT modes, to key destinations in town and the regional AT network.



Background

Nova Scotia is taking an ambitious path to reduce GHG emissions with legislative targets for 2050 and 2030.

Wolfville Council has recently adopted its own GHG emission reduction targets.

In the summer of 2020, Staff submitted an expression of interest to the Province (Department of Energy and Mines) to fund a comprehensive 'All Ages Accessible' Active Transportation network in the Town through the Investing in Canada Infrastructure Program's (ICIP) Climate Mitigation stream.

The Province is focused on a transition to a greener future. Projects that will create opportunities for everyone and stimulate economic growth, create jobs, spark innovation, increase social equity, reduce poverty and enhance community connectedness are the focus.

The Province is looking to advance our project for Federal review and investment. They are supportive of our project because it showcases:

- An All Ages Accessible network – using best practice in Active Transportation facilities that work for all users;
- A comprehensive network that connects important destinations in the Town and wider Region; and
- Acts as a Demonstration/Leadership on how investments can both reduce GHG emissions and have other co-benefits (e.g. adaptation/flood control, economic development, health and wellness, social equity, etc).



How did we get here?

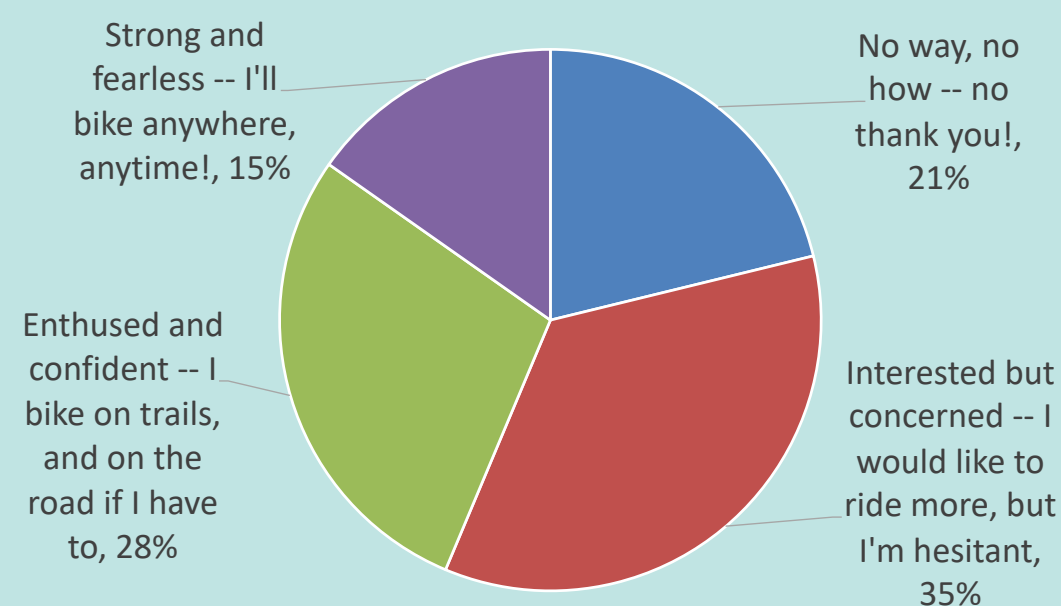
Staff have worked with Bicycle Nova Scotia and consulted the public through surveys and in-person meetings with committees and interest groups (over past 6 months) to inform the development of the minimum AAA grid being presented.

There is a clear desire for improved active transportation in the Town.

- 1. Wolfville: Access by Design (2019).** The Town adopted an Accessibility plan to ensure equitable access to community life and participation in society for all people regardless of their abilities. The plan has 5 areas of focus: the built environment, information on and communication on, transportation on, goods and services, employment.
- 2. Municipal Planning Strategy (2020).** After a substantial process, Council's Municipal Planning Strategy clearly articulates directions related to Active Transportation in part 5 (Mobility) of the plan.
- 3. Council Strategic Plan (2021-2024).** Council's recently adopted strategic plan outlines priorities and initiatives which include:
 - Clear plan to address, in a timely manner, the revitalization and maintenance of road, sidewalk, crosswalk infrastructure and traffic management including addressing the issue of the 4-way stop
 - Climate management related initiatives to reduce carbon emissions, support local transportation, local food security and environmental protection.

Excerpt from 2020 Mobility Survey

How would you characterize yourself as a cyclist?



Example Policies from part 5 of the MPS

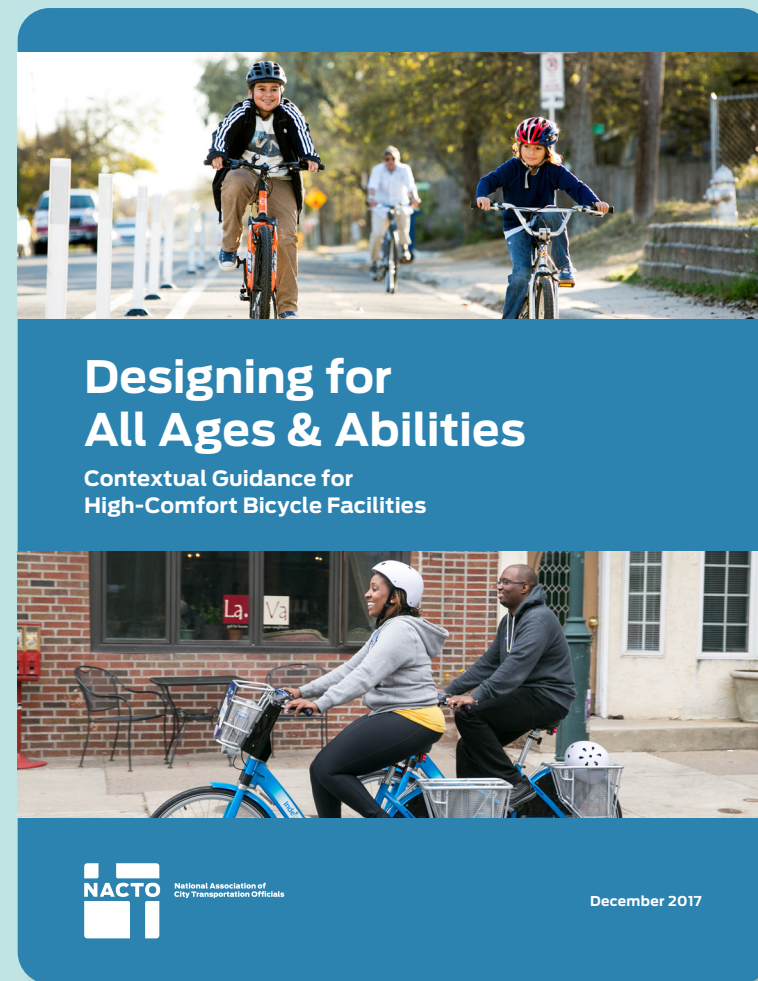
IT SHALL BE THE POLICY OF COUNCIL:

- To build cost-effective infrastructure that increases participation in active transportation and discourages reliance on fossil fuel vehicles in the Town of Wolfville.
- To support sustainable transportation, reduce our reliance on fossil fuels, and promote health by striving to prioritize infrastructure development, in the following order of infrastructure;
 - active transportation (walking, biking)
 - public transportation options
 - other shared mobility options
 - private electric vehicles
 - private fossil-fuel vehicles

Council's Strategic Priorities



For more information on this report click [here](#)



For more information on healthy communities click [here](#)



Core Concepts

1. All Ages and Abilities (AAA)

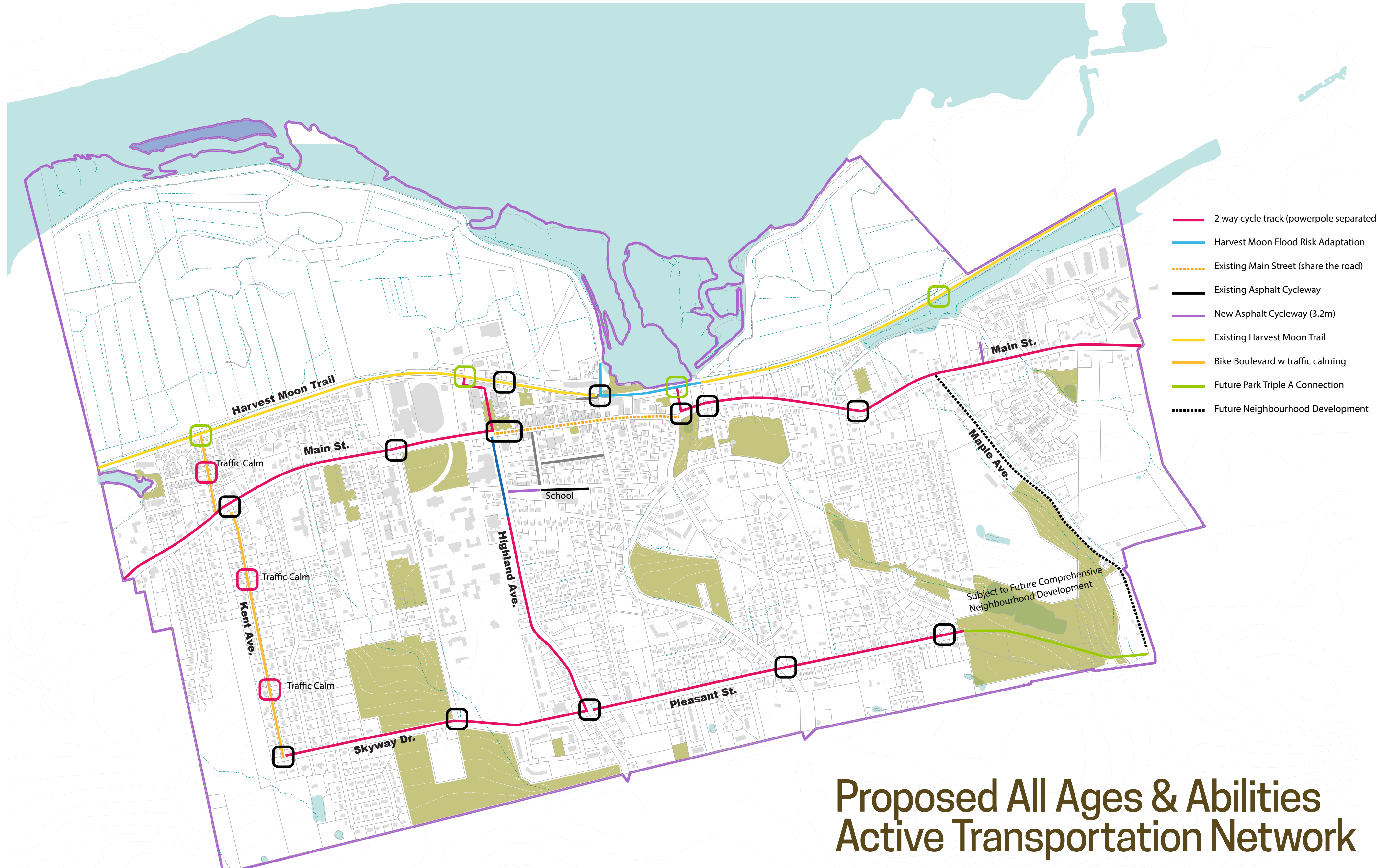
Streets that are safe and comfortable for All Ages & Abilities bicycling are critical for mobility. The NACTO Guide for achieving AAA has informed our approach.

2. Healthy Communities

The design of our communities influence how physically active we are, how we travel through our communities, how socially connected we are, the kinds of foods we have access to, how exposed to the natural environment we are, and ultimately, how we experience health and wellness.



Proposed Comprehensive Active Transportation Network



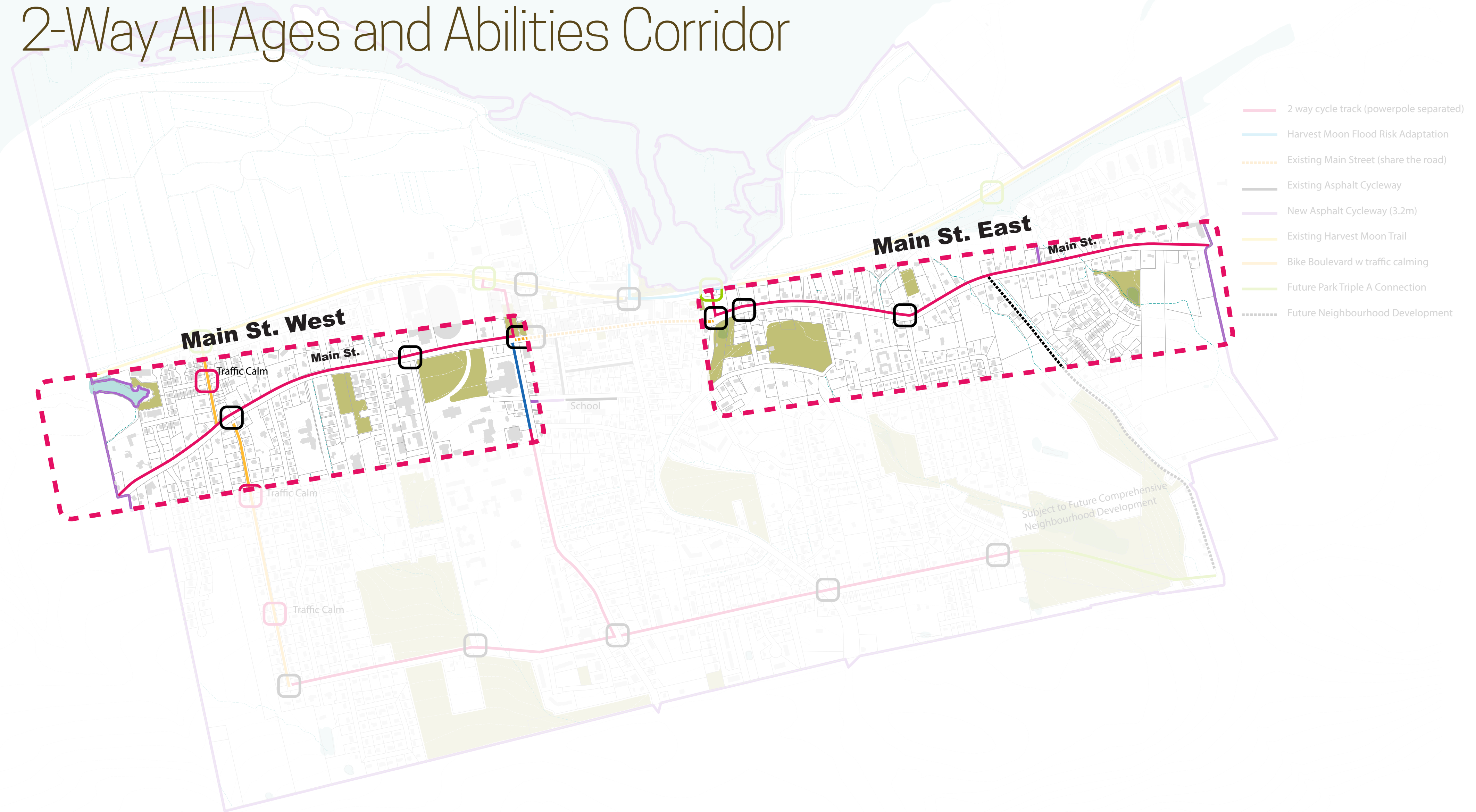
- 2 way cycle track (powerpole separated)
- Harvest Moon Flood Risk Adaptation
- - - Existing Main Street (share the road)
- Existing Asphalt Cycleway
- New Asphalt Cycleway (3.2m)
- Existing Harvest Moon Trail
- Bike Boulevard w traffic calming
- Future Park Triple A Connection
- - - Future Neighbourhood Development

Proposed All Ages & Abilities Active Transportation Network



Main Street

2-Way All Ages and Abilities Corridor





Main Street

2-Way All Ages and Abilities Corridor

Existing Conditions

- 1.5m on-street lanes @ east end
- 3.5m travel lanes
- Asphalt sidewalk both sides
- power-lines both sides



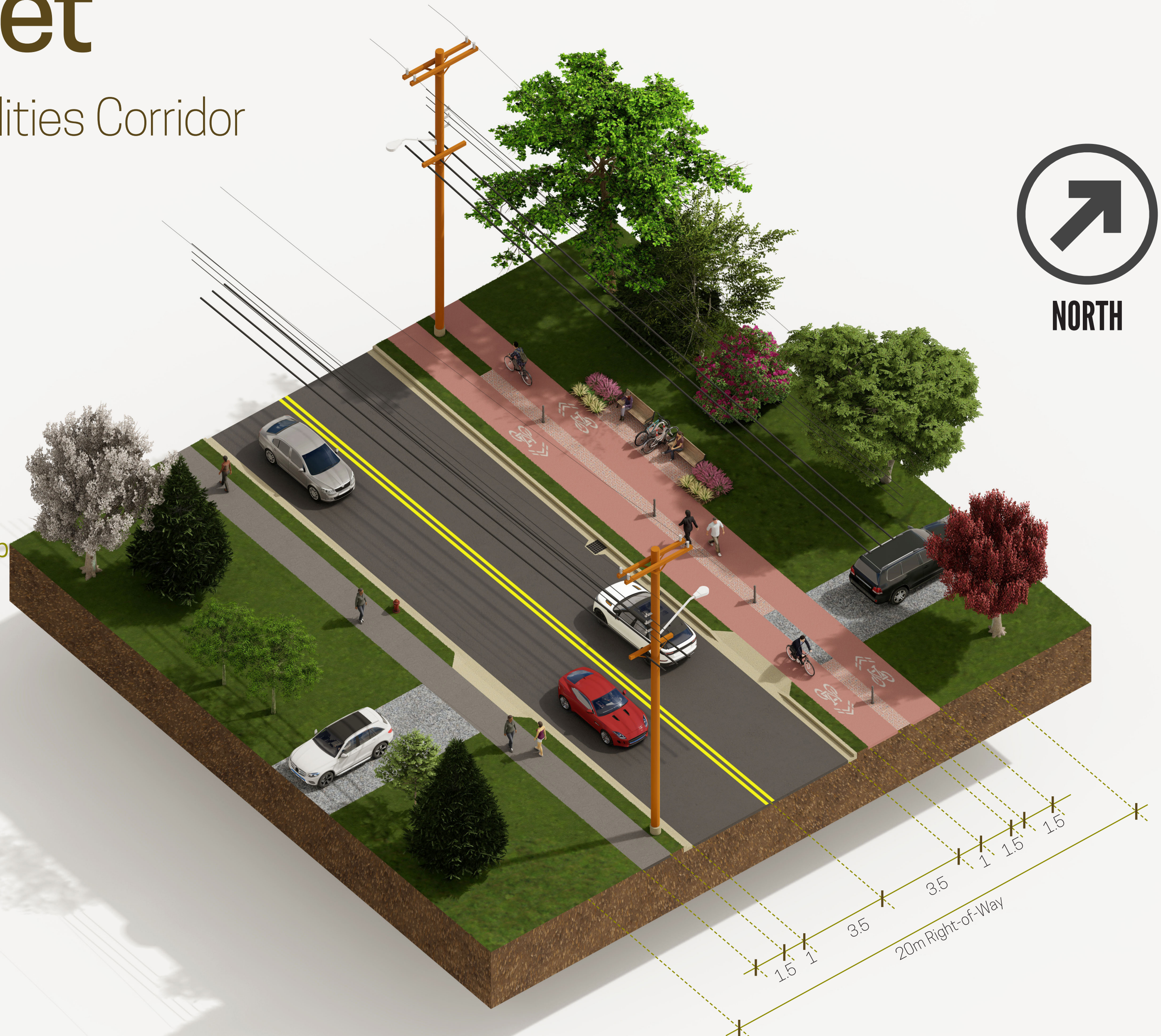


Main Street

2-Way All Ages and Abilities Corridor

Proposed "AAA" Conversion

- onstreet lanes removed
- 3.5m travel lanes
- North curb-gutter moved south
- 2-separated 1.5m shared-use lanes
- Powerpoles unchanged
- CB & MH's on north side move w/ curb
- New street furnishings

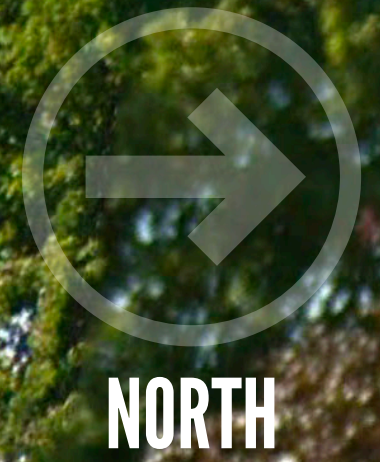




Main Street

2-Way All Ages and Abilities Corridor

East End Existing Conditions





Main Street

2-Way All Ages and Abilities Corridor

East and West Existing Conditions





Main Street

2-Way All Ages and Abilities Corridor

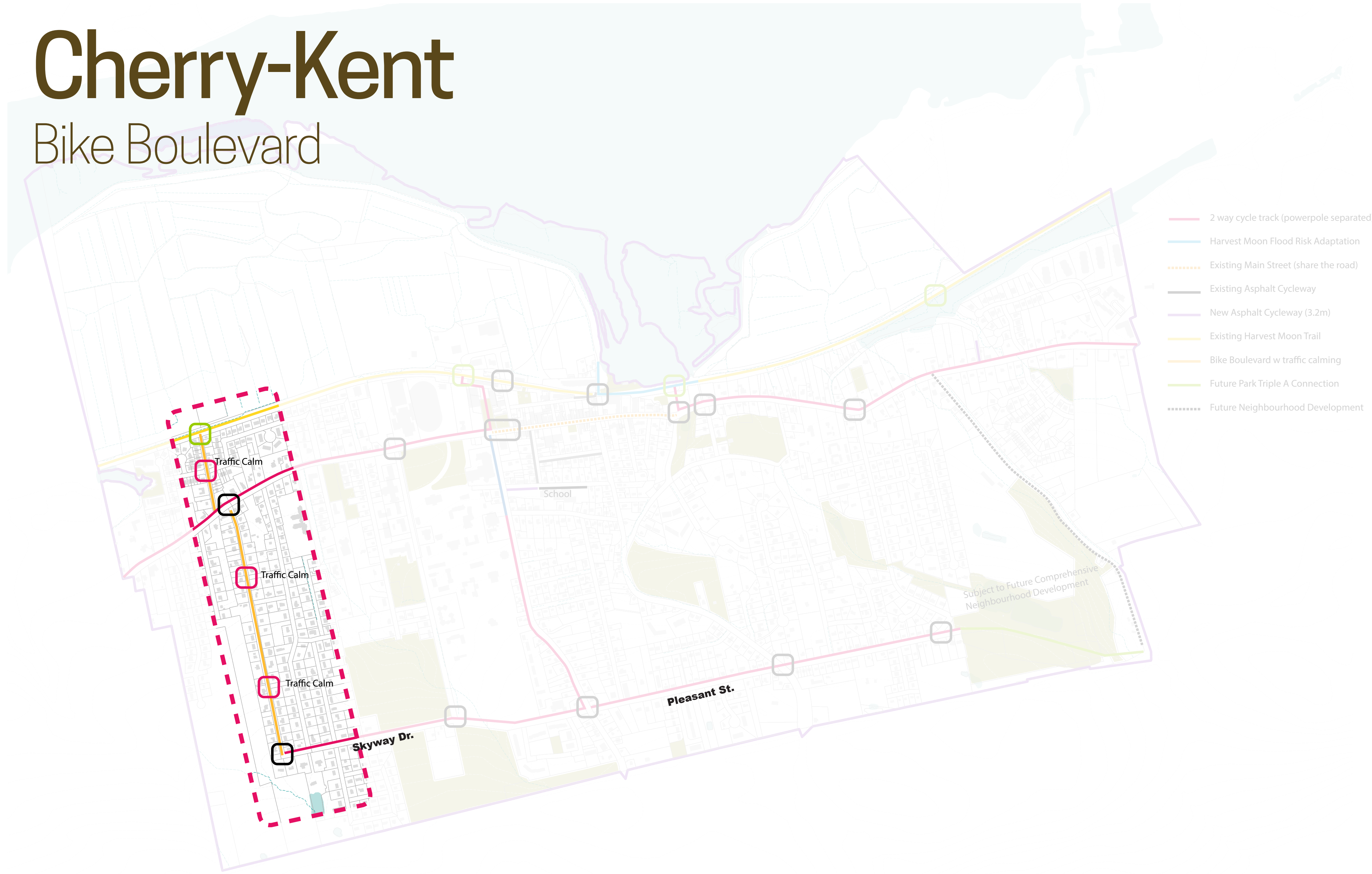
Proposed "AAA" Conversion





Cherry-Kent

Bike Boulevard





Kent Avenue

Bike Boulevard

Existing Conditions





Cherry Lane

Bike Boulevard

Existing Conditions





Cherry Lane

Bike Boulevard

Proposed Conditions



Sharrows



New Signs

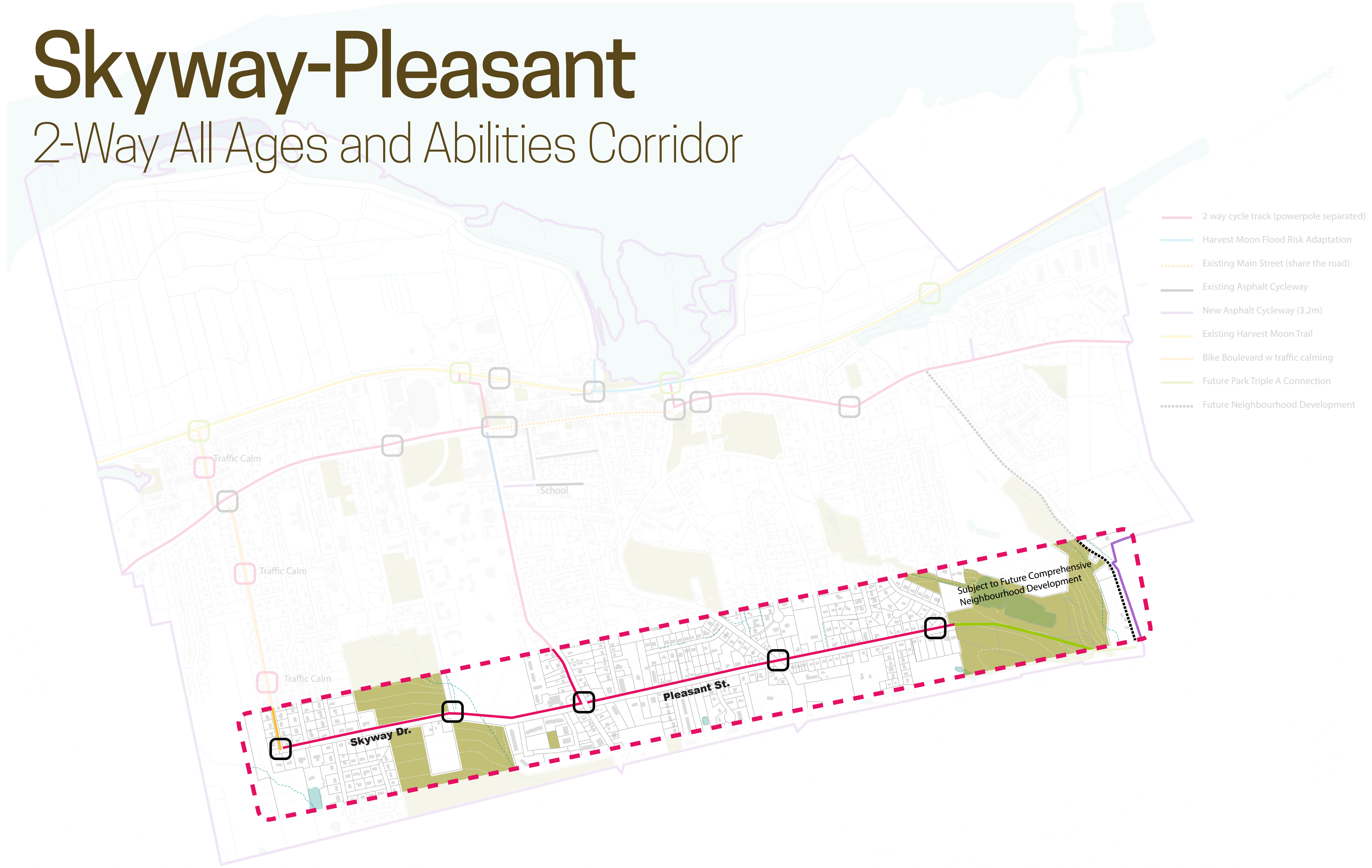
Speed Bump or other traffic calming





Skyway-Pleasant

2-Way All Ages and Abilities Corridor



- 2 way cycle track (powerpole separated)
- Harvest Moon Flood Risk Adaptation
- Existing Main Street (share the road)
- Existing Asphalt Cycleway
- New Asphalt Cycleway (3.2m)
- Existing Harvest Moon Trail
- Bike Boulevard w traffic calming
- Future Park Triple A Connection
- Future Neighbourhood Development

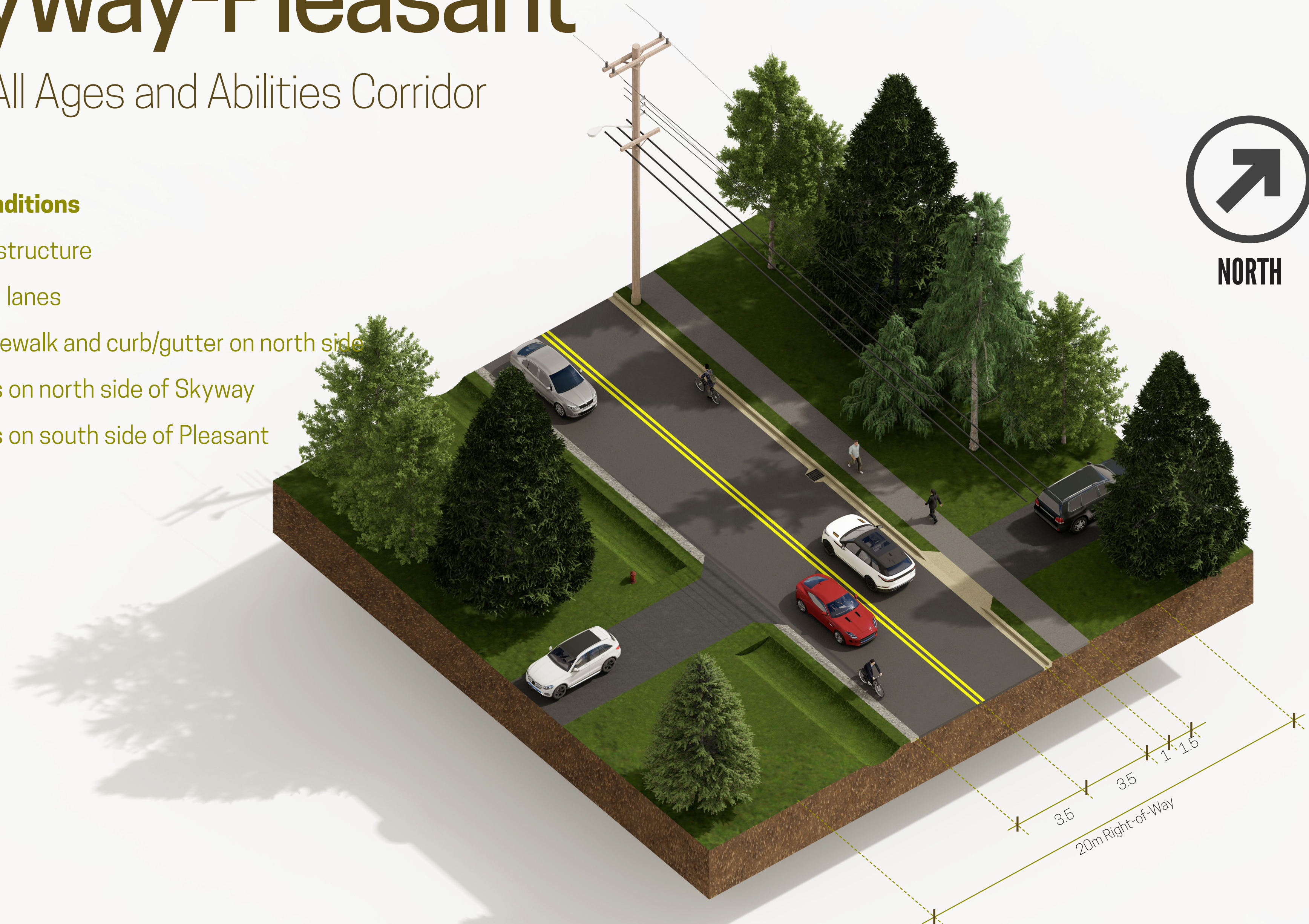


Skyway-Pleasant

2-Way All Ages and Abilities Corridor

Existing Conditions

- No AT infrastructure
- 3.5m travel lanes
- Asphalt sidewalk and curb/gutter on north side
- Power-lines on north side of Skyway
- Power-lines on south side of Pleasant



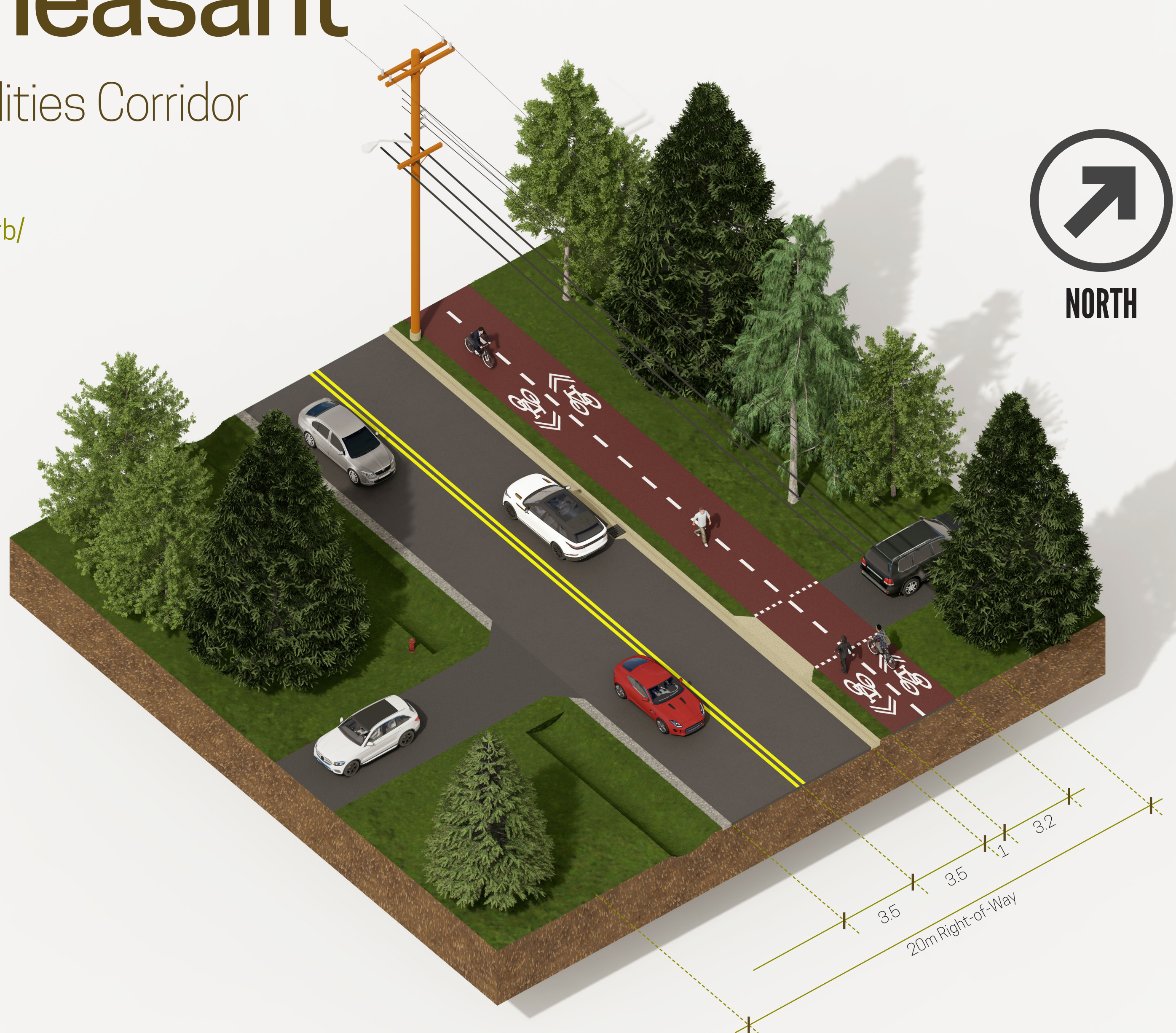


Skyway-Pleasant

2-Way All Ages and Abilities Corridor

Proposed "AAA" Conversion

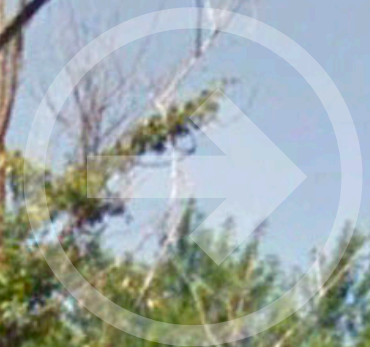
- No change to 3.5m travel lanes or curb/gutter
- 1.5m sidewalk on north side replaced with 3.2m 2-way asphalt shared use cycleway
- Powerpoles unchanged
- CB & MH's unchanged





Skyway-Pleasant

2-Way All Ages and Abilities Corridor



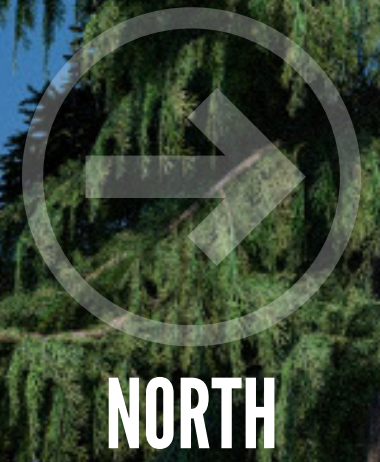
NORTH



Skyway-Pleasant

2-Way All Ages and Abilities Corridor

Existing Conditions





Skyway-Pleasant

2-Way All Ages and Abilities Corridor

Proposed "AAA" Conversion



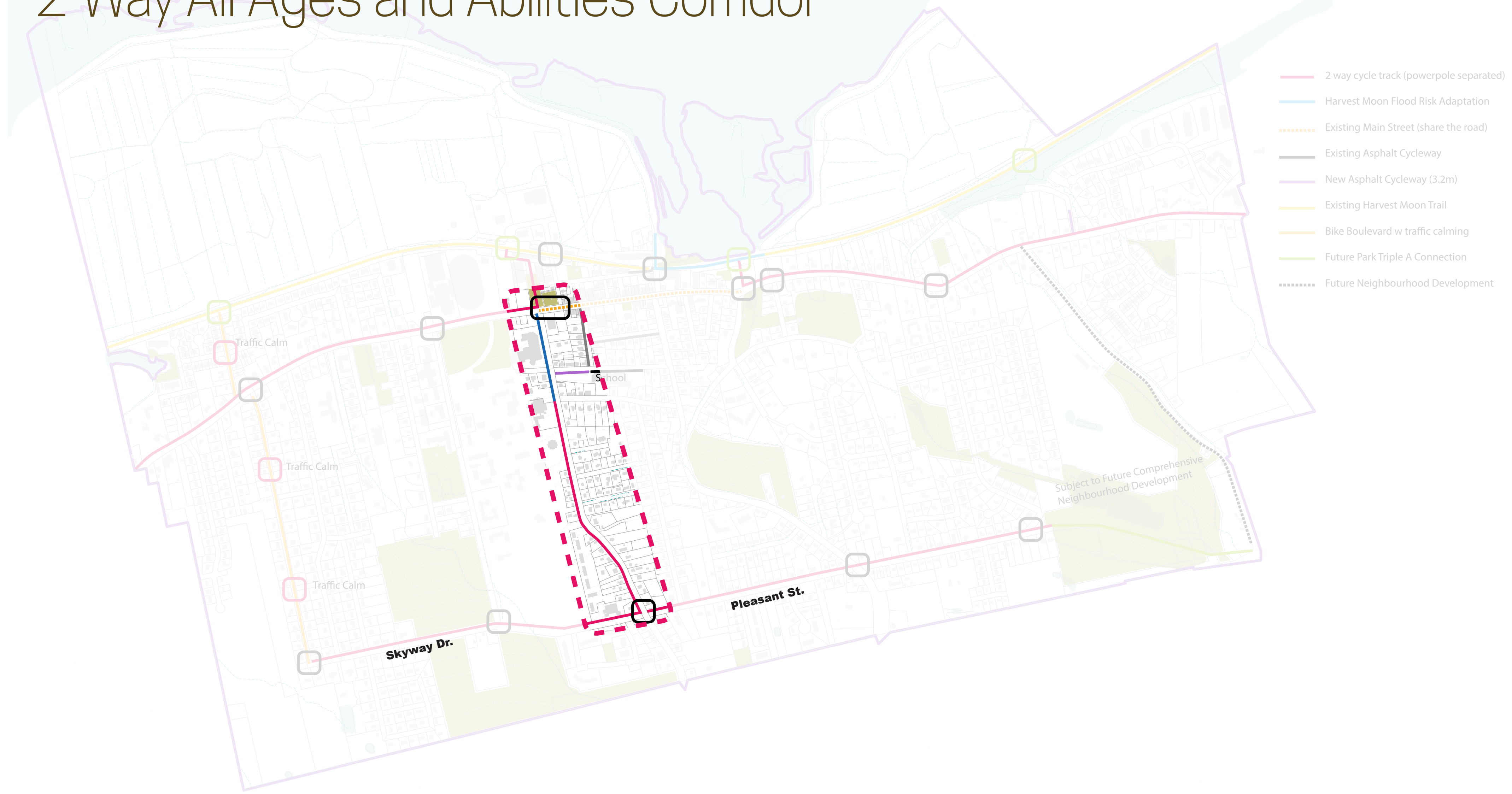
NORTH





Highland Avenue

2-Way All Ages and Abilities Corridor





Highland Avenue

2-Way All Ages and Abilities Corridor

Existing Conditions

- No AT infrastructure
- 3.5m travel lanes
- Asphalt sidewalk and curb on both sides
- Power-lines on west side of Highland





Highland Avenue

2-Way All Ages and Abilities Corridor

Proposed "AAA" Conversion

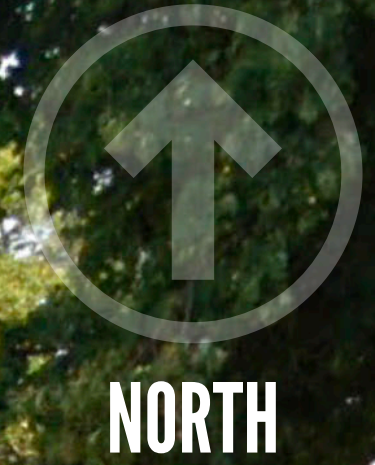
- No change to 3.5m travel lanes or curb/gutter
- 1.5m sidewalk on west side replaced with 3.2m 2-way asphalt shared use cycleway
- Powerpoles unchanged
- CB & MH's unchanged





Highland Avenue

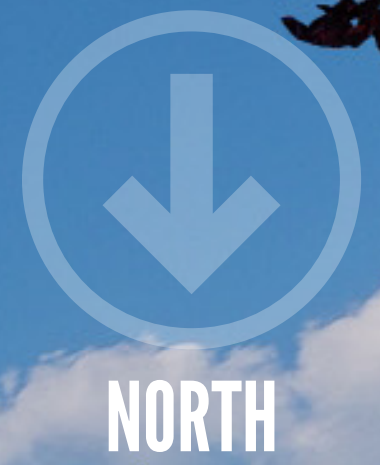
2-Way All Ages and Abilities Corridor





Highland Avenue

2-Way All Ages and Abilities Corridor



Existing Conditions

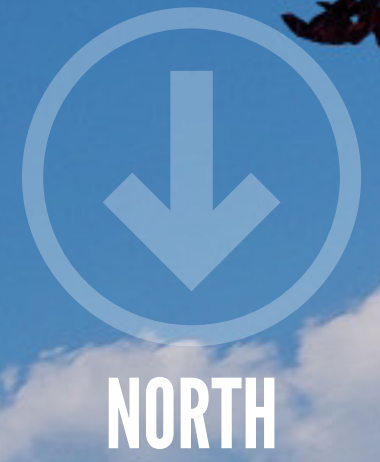




Highland Avenue

2-Way All Ages and Abilities Corridor

Proposed "AAA" Conversion



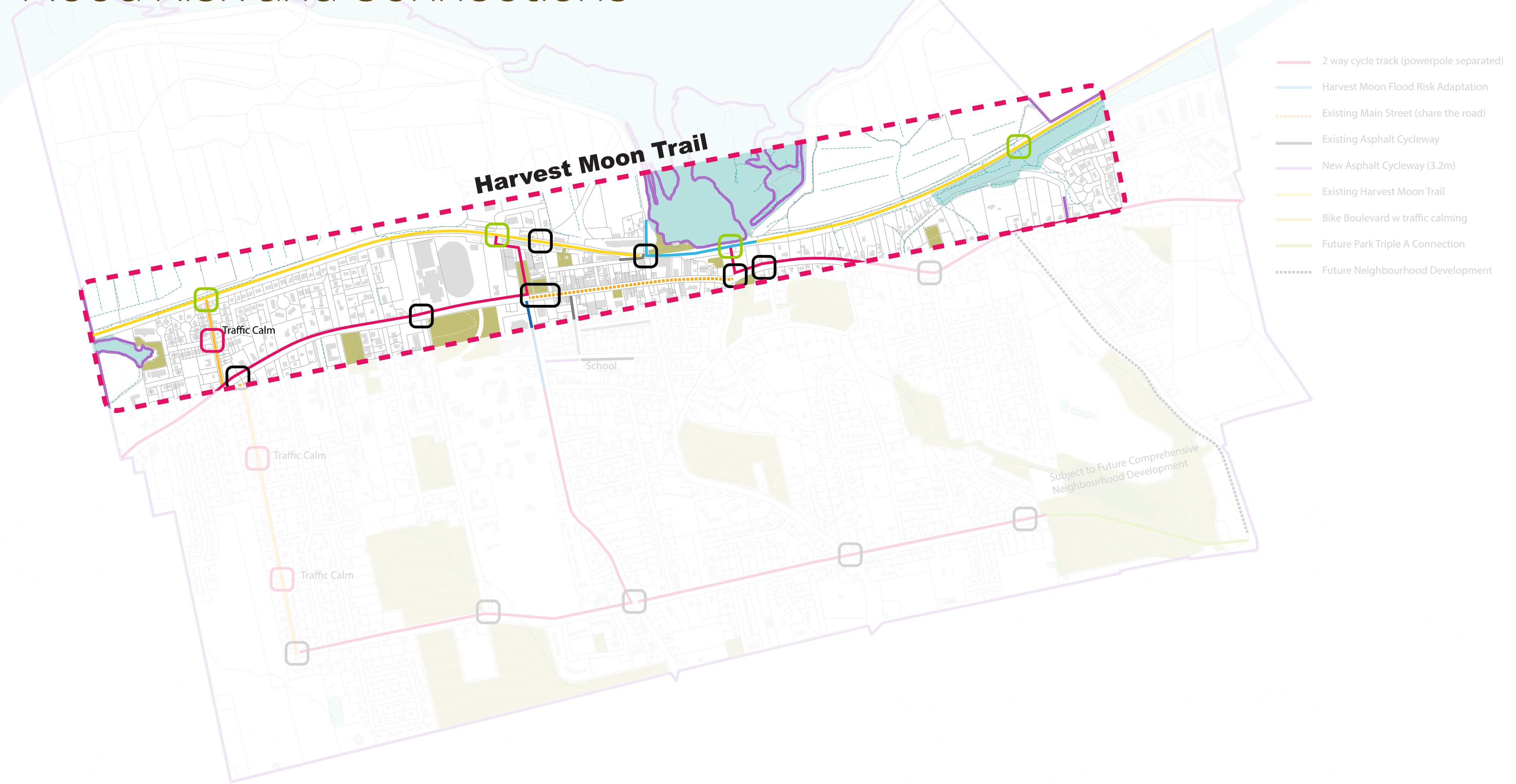
NORTH





Harvest Moon Trail

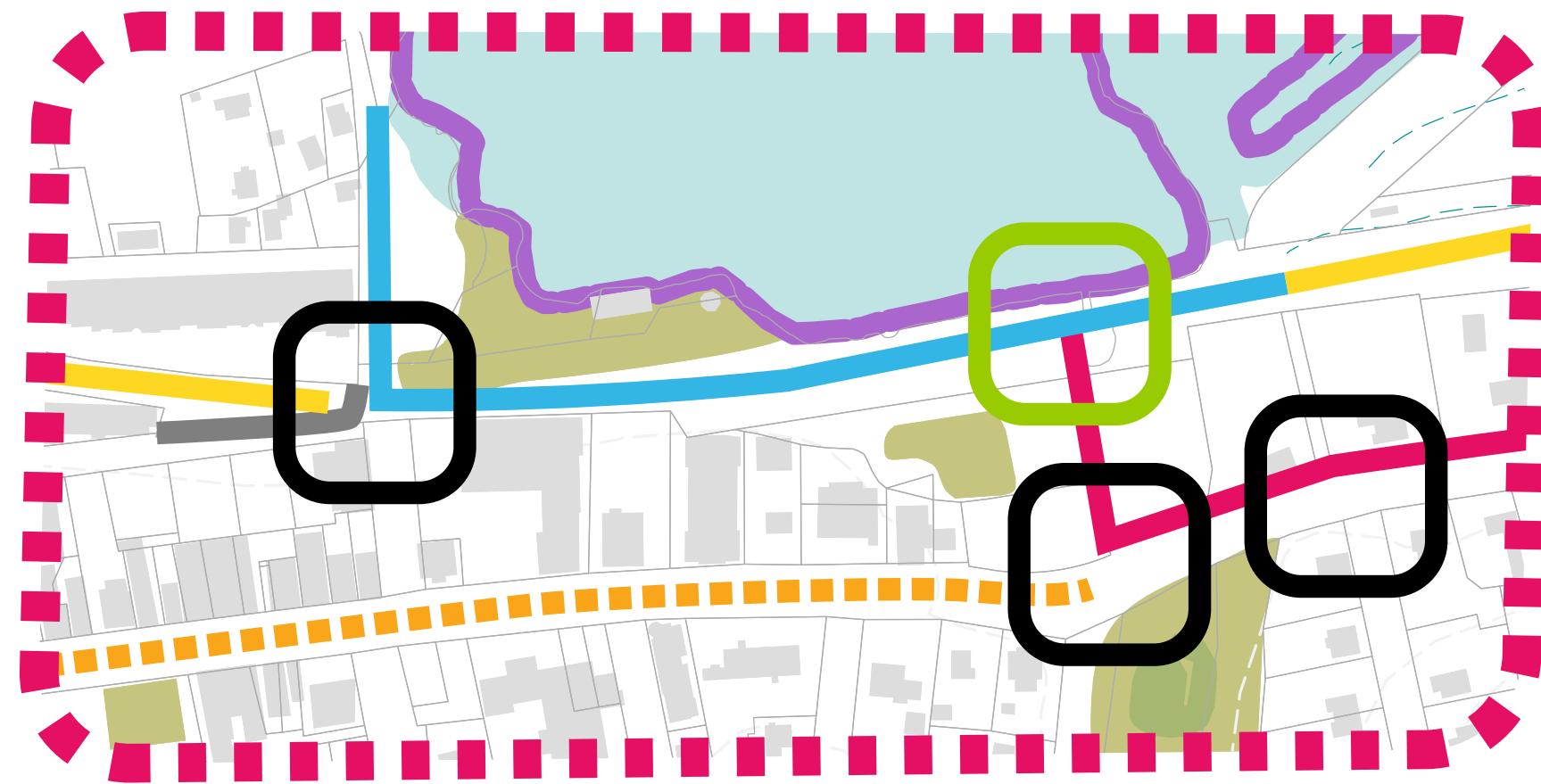
Flood Risk and Connections



- 2 way cycle track (powerpole separated)
- Harvest Moon Flood Risk Adaptation
- Existing Main Street (share the road)
- Existing Asphalt Cycleway
- New Asphalt Cycleway (3.2m)
- Existing Harvest Moon Trail
- Bike Boulevard w traffic calming
- Future Park Triple A Connection
- Future Neighbourhood Development

Harvest Moon Trail

Flood Risk



- Climate Change Adaptation measures are required along the waterfront portion of the Harvest Moon Trail (as identified in the 2021 Flood Risk Study, excerpts to the right).
- The plan is to raise the existing trail to elevation 8.5m CGVD2013, 500mm on average, in the next 3 to 5 years (the blue line shown in the map above).

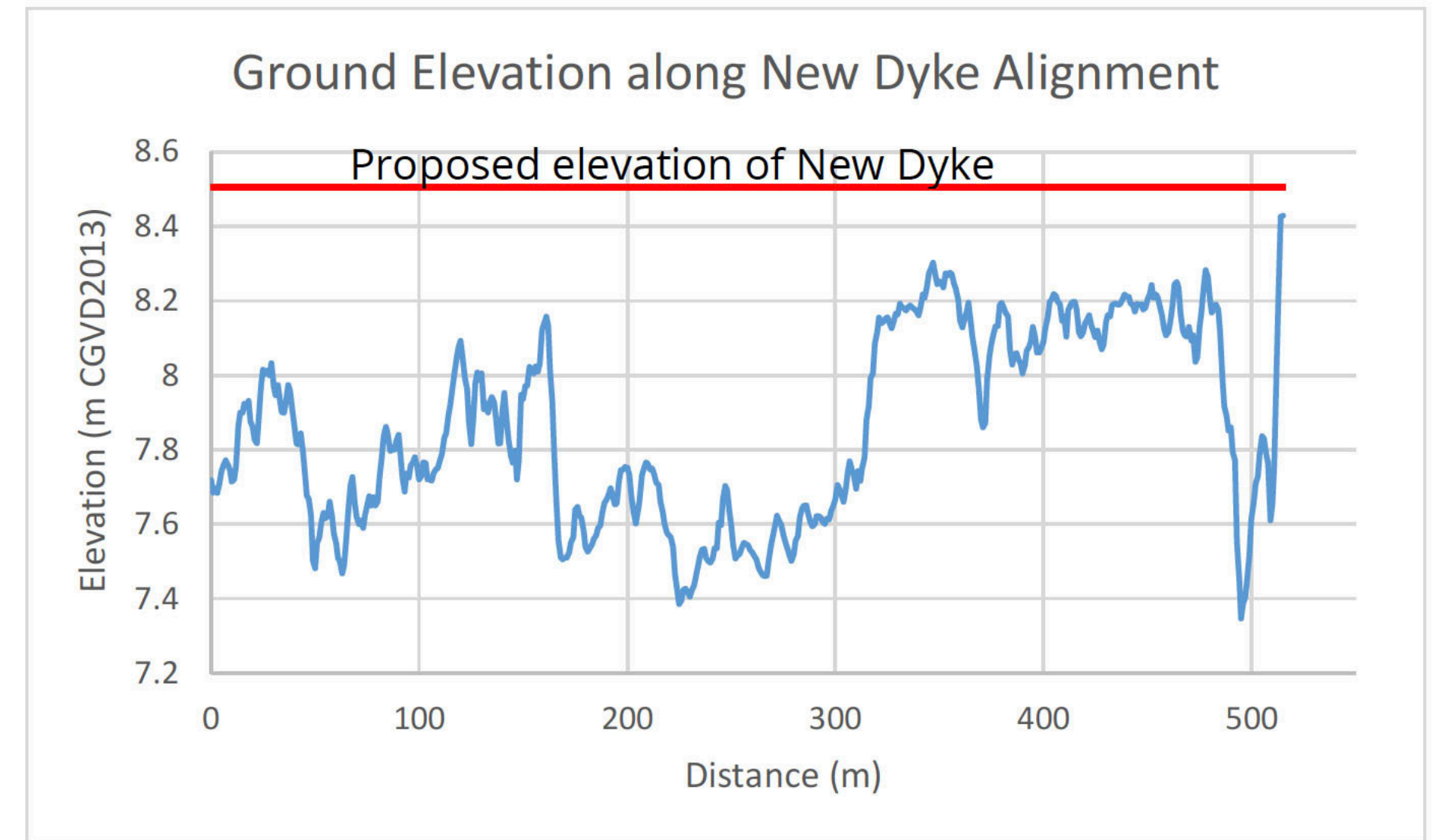


Figure 4.10: Ground Elevation along Potential New Dyke Alignment

Sea Level Rise and Storm Surge Flooding

Sea levels have been rising in the Maritimes since the end of the last ice age 10,000 years ago. This trend is expected to accelerate with climate change, notably from melting of the polar ice caps. Sea level is expected to rise to 1.46 m by 2100 at the Town of Wolfville.

How is sea level rise calculated?
 Fisheries and Oceans Canada projects a 0.71m sea level for the year 2100 (under RCP 8.5). An additional 0.65m is added to account for potential accelerated ice sheet melt, and a 0.1m increase accounts for tidal amplification:

0.71m + 0.65m + 0.1m = 1.46m

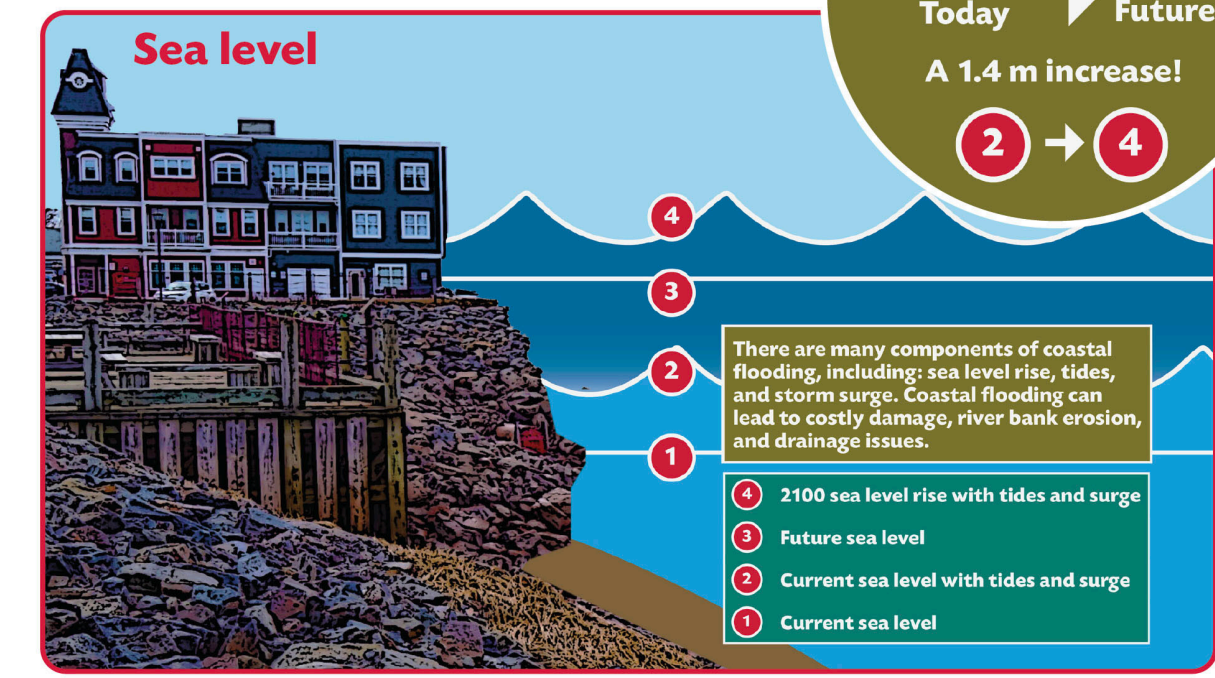
Wolfville is located on the Minas Basin which is part of the Bay of Fundy, hosting the highest tides in the world. With climate change, it is expected that more intense storms will hit the Nova Scotia coastline.

1 in 100 Year event (With sea level rise)

8.1m Today → 9.5m Future

A 1.4 m increase!

2 → 4

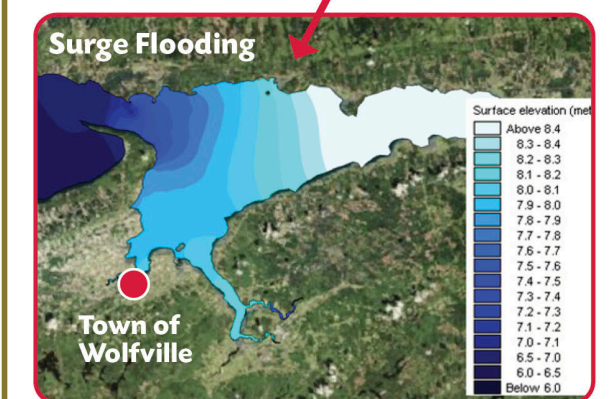
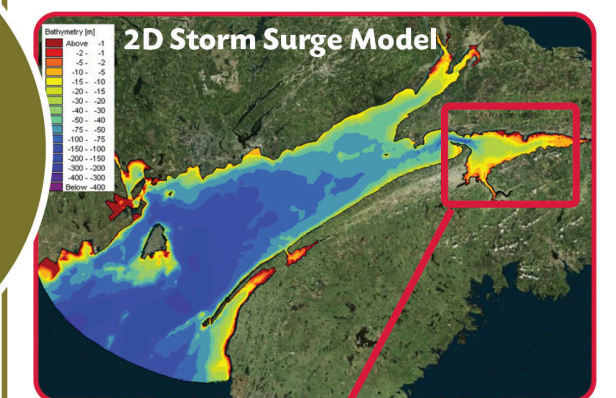


*All elevations represented in CGVD28

Assessing Flood Risk

Historically, flooding has not been a common occurrence within the Town of Wolfville; this is due to the dyke system that acts as a wall of protection against tides and storm surge flooding. However, the risk of flooding increases over time as sea levels rise, rainfall becomes more intense, and storm surge events increase.

CBCL analyzed the risk of the dyke overtopping using a model of the Bay of Fundy to run future flooding scenarios with rising sea levels.



Harvest Moon Trail

Main Street Trail Connections



Cherry Lane Connector

- Bike Boulevard (see examples in this document)

Highland to Harvest Moon Connector

- Short 3.2m wide multi-use trail connecting Highland Avenue to the Harvest Moon Trail.

East End Gateway Connector

- Supporting planned improvements to the East End Gateway trailhead.

Oak Avenue Connector

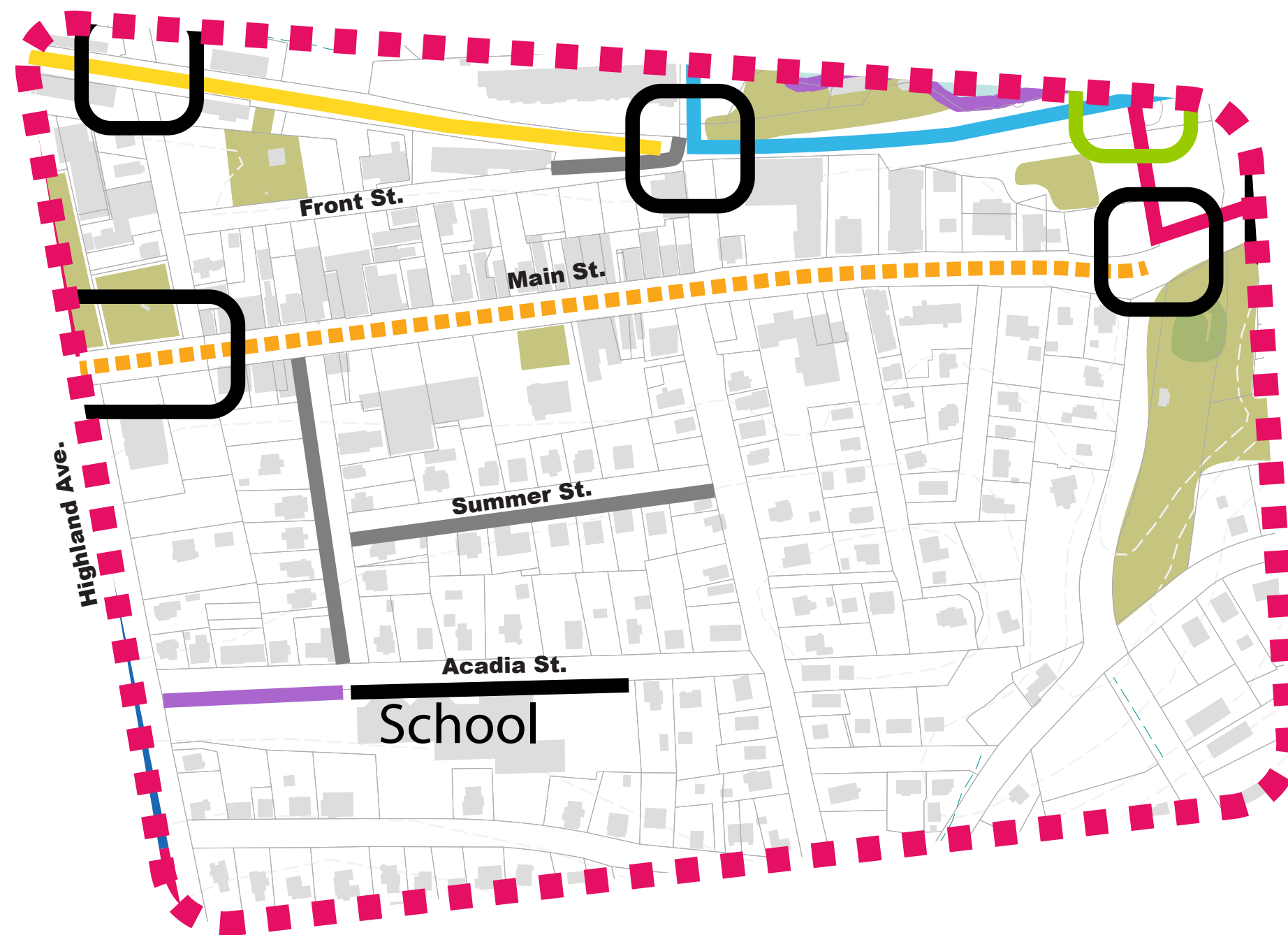
- Short 3.2m wide asphalt multi-use trail connecting to the existing Woodman's Grove trail system along Oak Avenue extension.

Subject to Future Neighbourhood Development



Downtown Improvements

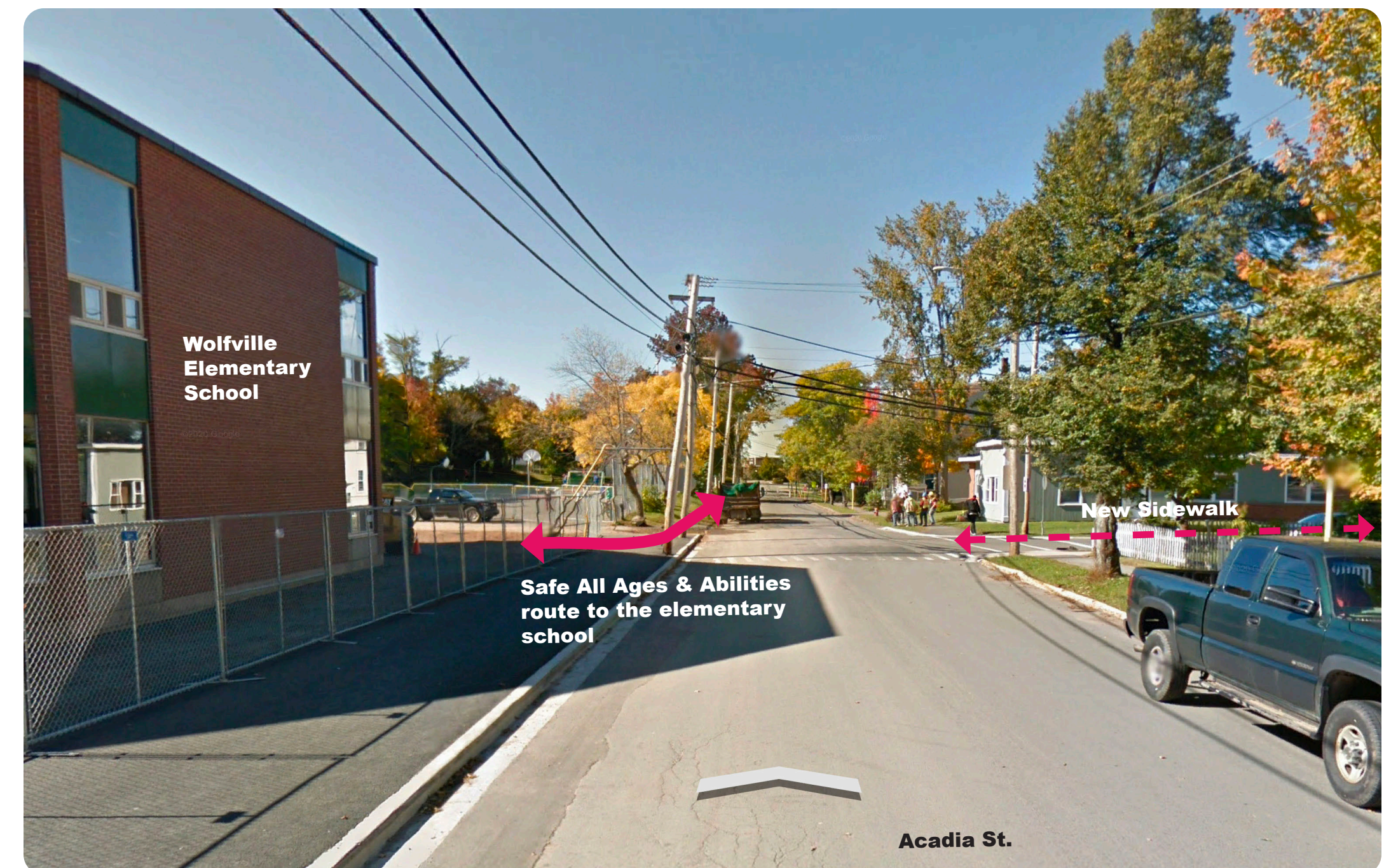
Main Street & C-2 Area



- 2 way cycle track (powerpole separated)
- Harvest Moon Flood Risk Adaptation
- ... Existing Main Street (share the road)
- Existing Asphalt Cycleway
- New Asphalt Cycleway (3.2m)
- Existing Harvest Moon Trail

Downtown Improvements

- Supporting C-2 zoning changes with sidewalks
- Connecting the elementary school to Highland Avenue.
- Harvest Moon intersections at Elm & Harbourside.
- Main St seasonal traffic calming through sidewalk cafes and other means.





Project Costing



Town of Wolfville Comprehensive AT Network				
Estimate of Probable Cost				
DRAFT - April 16				
Main Street Corridor - East End - including Gateway Connection				
Item	QTY	Units	Unit Cost	Sub-Total
Trees / Shrubs	1	L.S.	\$5,000	\$5,000.00
Regrading	151	m	\$20	\$3,020.00
New Shoulder Asp (sign to Post Rd)	90	m2	\$80	\$7,200.00
Asphalt / Curb Removal	1510	m	\$5	\$7,550.00
New Curb/Gutter	1510	m	\$140	\$211,400.00
Asphalt Cycleway (3.2m) + Surfacing	1510	m2	\$192	\$289,920.00
Powerpole Relocation	2	Each	\$10,000	\$20,000.00
Powerpole Guy Relocation	17	Each	\$2,000	\$34,000.00
Catch Basin Relocation/Drain Cover	18	Each	\$2,000	\$36,000.00
Manhole Relocation	2	Each	\$2,500	\$5,000.00
Oak Avenue Culvert	1	LS	\$5,000	\$5,000.00
Driveway Repairs Asphalt	625	Each	\$60	\$37,500.00
Retaining Wall	90	m2	\$600	\$54,000.00
Misc. Property Front Repairs / Adjustments	5	Each	\$5,000	\$25,000.00
Soft Landscape Reinstatement (1m width)	1510	m2	\$15	\$22,650.00
Signage	8	L.S.	\$400	\$3,200.00
Sub-Total				\$766,440.00
Main Street Corridor - West End				
Item	QTY	Units	Unit Cost	Sub-Total
Trees / Shrubs	1	L.S.	\$5,000	\$5,000.00
Regrading	138	m	\$20	\$2,760.00
Asphalt / Curb Removal	1380	m	\$6	\$8,280.00
New Curb/Gutter	1380	m	\$140	\$193,200.00
Asphalt Cycleway (3.2m) + Surfacing	1480	m2	\$192	\$284,160.00
Powerpole Relocation	2	Each	\$10,000	\$20,000.00
Powerpole Guy Relocation	12	Each	\$2,000	\$24,000.00
Catch Basin Relocation/Drain Cover	7	Each	\$2,000	\$14,000.00
Driveway Repairs Asphalt	255	Each	\$60	\$15,300.00
Retaining Wall	150	m2	\$1,000	\$150,000.00
Misc. Property Front Repairs / Adjustments	5	Each	\$5,000	\$25,000.00
Soft Landscape Reinstatement (1m width)	1380	m2	\$15	\$20,700.00
Signage	7	L.S.	\$400	\$2,800.00
Sub-Total				\$765,200.00
Downtown AT				
Item	QTY	Units	Unit Cost	Sub-Total
New 1.5m Concrete Sidewalk (Linden/Summer/Front)	460	m	\$120	\$55,200.00
3.2m asphalt cycleway by School (Acadia St)	120	m	\$192	\$23,040.00
Harvest Moon Intersections	2	ea	\$5,000	\$10,000.00
Signage	10	ea	\$400	\$4,000.00
Sub-Total				\$92,240.00

Total Cost = \$2,600,000
+ HST, + Design, + Contingency

Harvest Moon Trail Connections				
Item	QTY	Units	Unit Cost	Sub-Total
Cherry Lane On Street Bike Boulevard	280	m	\$100	\$28,000.00
Oak Avenue Gateway Trail (3.2m asphalt)	80	m	\$192	\$15,360.00
Old Burying Ground Trail (3.2m asphalt)	110	m	\$192	\$21,120.00
East End gateway Connection (3.2m asphalt)	90	m	\$192	\$17,280.00
Signage	8	ea	\$400	\$3,200.00
Sub-Total				\$81,760.00
Harvest Moon Trail Flood Risk Improvements				
Item	QTY	Units	Unit Cost	Sub-Total
Fill Import (assume 0.75m raise)	430	m	\$20	\$8,600.00
Crusher Dust Trail (150mm deep)	430	m	\$14	\$6,192.00
Misc Storm Drainage Pipe (Backflow prevention)	6	ea	\$2,500	\$15,000.00
Meadow Mix (1.5m both sides) Hydroseed	430	m	\$12	\$5,160.00
Sub-Total				\$34,952.00
Kent Avenue				
Item	QTY	Units	Unit Cost	Sub-Total
Sharow Paint	30	m	\$100	\$3,000.00
Traffic Calming at intersections (raised bumps)	4	ea	\$6,000	\$24,000.00
Signage	7	each	\$500	\$3,500.00
Sub-Total				\$30,500.00
Skyway & Pleasant Corridor				
Item	QTY	Units	Unit Cost	Sub-Total
Trees / Shrubs	1	L.S.	\$5,000	\$5,000.00
Regrading	237	m	\$20	\$4,740.00
Asphalt Cycleway (3.2m) + Surfacing	2370	m	\$192	\$455,040.00
Powerpole Relocation	3	Each	\$10,000	\$30,000.00
Powerpole Guy Relocation	5	Each	\$2,000	\$10,000.00
Driveway Repairs Asphalt	495	Each	\$60	\$29,700.00
Retaining Wall	50	m2	\$1,000	\$50,000.00
Soft Landscape Reinstatement (1m wide)	2370	m	\$15	\$35,550.00
Signage	20	Each	\$500	\$10,000.00
Sub-Total				\$630,030.00
Highland Corridor (incremental improvements for Triple A)				
Item	QTY	Units	Unit Cost	Sub-Total
Trees / Shrubs	NA			\$0.00
Tree Removal	NA			\$0.00
Regrading	NA			\$0.00
New Curb/Gutter and Asphalt Removal	NA			\$0.00
Asphalt Cycleway (3.2m) + Surfacing	1030	m	\$192	\$197,760.00
Powerpole Relocation	NA			\$0.00
Powerpole Guy Relocation	NA			\$0.00
Catch Basin Relocation/Drain Cover	NA			\$0.00
Manhole Relocation	NA			\$0.00
Driveway Repairs Asphalt	NA			\$0.00
Retaining Wall	NA			\$0.00
Soft Landscape Reinstatement (1m wide)	NA			\$0.00
Signage	5		\$400	\$2,000.00
Sub-Total				\$199,760.00





Highland Avenue

2-Way All Ages and Abilities Corridor

Existing Conditions

- No AT infrastructure
- 3.5m travel lanes
- Asphalt sidewalk and curb on both sides
- Power-lines on west side of Highland





Highland Avenue

2-Way All Ages and Abilities Corridor

Proposed "AAA" Conversion

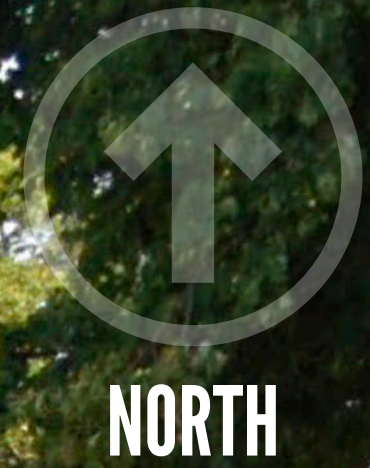
- No change to 3.5m travel lanes or curb/gutter
- 1.5m sidewalk on west side replaced with 3.2m 2-way asphalt shared use cycleway
- Powerpoles unchanged
- CB & MH's unchanged





Highland Avenue

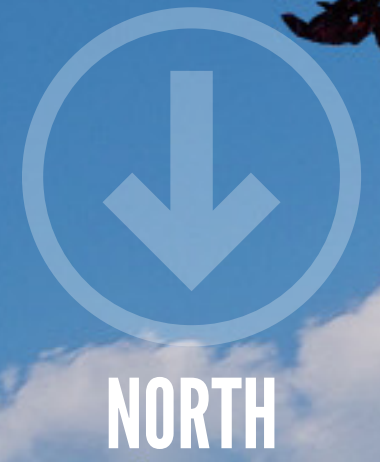
2-Way All Ages and Abilities Corridor





Highland Avenue

2-Way All Ages and Abilities Corridor



Existing Conditions

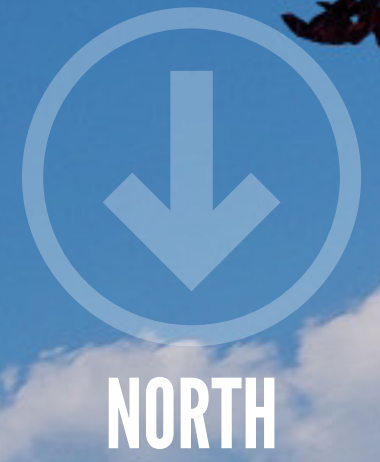




Highland Avenue

2-Way All Ages and Abilities Corridor

Proposed "AAA" Conversion



INFORMATION REPORT

Title: Web Development Update

Date: 2021-06-01

Department: Office of the CAO



SUMMARY

Website development update

The Town of Wolfville is moving forward on the development of a new website with a contract award to Blaze Studios, in Moncton, New Brunswick. Blaze was selected from a robust collection of proposals based on their experience, understanding and portfolio. Their quirky proposal and their use of behavioural psychology in site design were very appealing. Blaze also demonstrated a deep understanding of both accessibility requirements and knowledge of the Wolfville community.

Blaze has developed an exceptional reputation for building Municipal sites that also deliver tourism and economic development segments. They have crafted sites for both Chester and Kentville, and members of their team, through previous work partnerships, developed the Wolfville Bloom brand.

With Blaze, we have started with internal stakeholder engagement session as we work to develop the creative brief that will guide the design and development process. External stakeholders, like the WBDC, will also be consulted in the creative brief draft development.

At this time, targeted input from Council would be appreciated.

INFORMATION REPORT

Title: Web Development Update

Date: 2021-06-01

Department: Office of the CAO



1) CAO COMMENTS

For discussion purposes.

2) REFERENCES AND ATTACHMENTS

N/A

3) DISCUSSION

Council is being asked to consider and provide comment on the following questions:

1. What do you think some of the objectives of the new website should be?
2. What would the most important takeaway be for a user after visiting our new website?

4) FINANCIAL IMPLICATIONS

This initiative has been budgeted in the 2021/22 Operating Budget.

5) REFERENCES TO COUNCIL STRATEGIC PLAN AND TOWN REPORTS

The website, through all its components, will be built to demonstrate the Town of Wolfville's Strategic Principles using both language and imagery.

Economic Prosperity: As a marketing tool, the Town will showcase the vibrant business community, places to visit as well as the benefits of making Wolfville home.

Social Equity: Our new website is being developed to the highest accessibility standards and initial engagement has focused on inclusion; making this site something that all residents can find themselves represented by.

Climate Action: The progress being made by the Town of Wolfville will be showcased through the new site inspiring stakeholders to commit to meaningful actions.

Community Wellness: As an important link between stakeholders and our programs and services, the web build is focused on making it easier for knowledge, awareness, registration and participation in Town and community initiatives.

6) COMMUNICATION REQUIREMENTS

Communications will ramp-up once we are closer to launch to prepare all internal and external stakeholders for the new site.

7) FUTURE COUNCIL INVOLVEMENT

Council will be updated on progress as we move through the 6 to 8-month timeline to build our new site.

1. Economic Prosperity

To meet the needs of the summer season, staff began upgrading the current VIC with fresh paint, and reorganizing has taken place. With current COVID restrictions, staff originally extended the May 25 start date of VIC seasonal staff to June 7, which has since been tentatively pushed a second time with an anticipated VIC open date of June 18.

Conversations continue to determine what Mud Creek Days might look like this summer. WBDC is involved and supportive of conversations.

Staff continued to work on the Economic Development 'Roadmap' through discussions with an internal bi-weekly working group. An update will come to COW in July.

The new Wolfville.ca website re-design and build has begun with staff involved in the creative brief process.

The process to undertake Improvements to the wayfinding in our downtown continues. Staff are also working with the Wolfville Farmers Market and Acadia University on longer-term strategic planning and funding applications, including working toward the utilization of the DeWolfe building or other expansion area. The feasibility study team will be working over the next number of months and updates will be provided to Council. Staff are also working closely with the WBDC and attending their monthly meetings.

2. Social Equity

Our very popular free Nature Kit offering wrapped-up with 20 kits claimed in under 24 hours. Extra kits were made and were also claimed. A total of 40 kits were delivered to help provide at-home programming during the Provincial lockdown.

Staff have submitted a funding application for a Community Transit Feasibility Study to the Nova Scotia Transit Research Incentive Program, with further updates to be provided in the future.

3. Climate Action

Staff supported sessions at the Atlantic region's "Seizing the Moment Conference," exploring just and sustainable pandemic recovery through community-campus partnerships.

CAO REPORT

June 1, 2021

Department: Office of the CAO



Details are being worked out for the PACE program to ensure the Finance Department is prepared to respond on a timely basis to homeowner projects later this year. Mayor Donovan participated in the virtual funding announcement with program partners from PEI.

Anticipate a review of our Climate Action work to come forward at our July COW meeting. This will include steps to bring forward a Climate Plan (PCP milestone 3) and our workplan for the summer.

4. Community Wellness

With help from Mudley, staff provided weekly online videos to document the Splash Pad progress. The updates allowed us to be transparent about construction while keeping community members informed on happenings in Willow Park. With sod going down week of May 24, we plan for the Splash Pad to open by June 18.

Staff continue to prepare for summer camp programming and our camps are close to being full.

Some recreational programs have been put “on hold” until gathering guidelines become clear (i.e. Summer Concert Series, yoga, Pilates, Made to Move and Come on Down), but are ready to launch as limits increase. Talks are also underway with Acadia Cinema Co-Op regarding possible outdoor movie showings as guidelines allow.

The Pickleball Court project grant approval was received, and a request to alter the location has been approved. Currently, consideration is being given to move the courts to the Tower Community Park. Further details will be provided at COW. Our tennis courts also remain very active, and repairs were completed to the back corner of the court fencing.

Work continues in Reservoir Park, including plans to upgrade the trail and stairs at the north corner of the small pond.

Bike racks will start to appear in Town with pads getting placed on Main Street and a new pad added to the East side of the L’Arche building on Main.

5. Update from Finance/Corporate Services

Preparation for the year end audit has been the major focus for the month of May. Auditors begin their field work May 31 and that should last about two weeks. Work on the final financial

CAO REPORT

June 1, 2021

Department: Office of the CAO



statements will continue through the month of June with a goal to have draft F/S to Audit Committee by early July and to Council at the regular July Council meeting.

FOIPOP annual statistics reporting was due early May, and the goal is to have that submitted by end of May.

Annual submissions for borrowing capacity for the Town will be submitted by months end and expectation is to have Ministerial approval by end of June.

The Town's Water Utility Budget will be submitted to the NS Utility and Review Board by the end of this month, after which staff will look to receive approval from the UARB required before the Utility's Temporary Borrowing can be receive Ministerial approval from the province.

The DoF is part of a Provincial team reviewing the gas tax allocation formula, with a goal of bringing any recommended changes back to the province by April 2022.

The GIS Team is now Trevor plus a summer student. This will be a test run of utilizing targeted additional resources to assist Trevor in providing the Town (staff/council and public) with a robust database that can be incorporated into decision-making processes.

The IT department has been busy setting up hardware/software platforms for new employees while also addressing previously identified issues with aging laptops. The Covid pandemic has impacted supply chains and delivery times in the IT world, so efforts are ongoing to resolve backlog items. Additionally, a new server was acquired late in the last fiscal year and efforts are forthcoming in adding this hardware to the computer network.

The renovation upgrades to the Council Chambers have been impacted by COVID and staff are talking to the contracted service provider to determine when the installation of equipment now occur.

Interim Tax bills were mailed out in early May, and staff will be reviewing the level of any arrears by mid-June to identify potential new collection issues.

Regular monthly variance reporting to the Management Team should start by mid June, with an eye on preparing analysis for the quarterly Audit Committee reporting later this year.

The Management Team will begin efforts on the 2022/23 budget process in the coming weeks, with an eye on strategic decision points leading into next years budget plan.

6. Infrastructure/Capital

CAO REPORT

June 1, 2021

Department: Office of the CAO



Tim Bouter began the role of Director of Engineering and Public Works on May 10 and Alexander de Sousa fills the newly approved position of Manager of on June 14. The new position will increase capacity within the department and allow the Town to complete more capital projects and construction administration in-house.

Construction on the Wastewater Treatment Plant is nearing completion and will result in long-term improvement in treatment levels. Capital design work is ongoing.

Some of the construction projects residents can expect to see this summer/fall include:

- New sidewalk and curb along Willow St
- New decorative lights on Gaspereau Ave from Main St to Summer St
- New guard rail at the bottom of Orchard Ave
- Water transmission line installation along the top of Westwood Ave and Park St

7. Additional Operational Updates

Summer staff have been hired and oriented and plans are underway for summer day camps, and small events, as guidelines allow. With support from the NS Tourism Southwest Coordinator, staff created new VIC staff training programs and schedules to be implemented in June.

Staff continue to provide building and development services (permitting, fire inspections, etc.). There are several site plan and as-of-right applications currently under review. We have also concluded work with two student teams from Waterloo on a plan implementation and monitoring project. The students presented to our PAC as their final assignment (April meeting). This work should help inform staff's work on MPS implementation and progress monitoring more generally.

After direction from Council at the regular meeting of Council, staff have continued discussions with stakeholders in the East End of Wolfville on the lands zoned Comprehensive Development District.

COMMITTEE UPDATE

Title: Valley Waste Resource Management
Date: June 1, 2021
Department: Committee of the Whole



UPDATE

The VWRM Board met (Virtually) on May 19th, 2021, highlights from that meeting included:

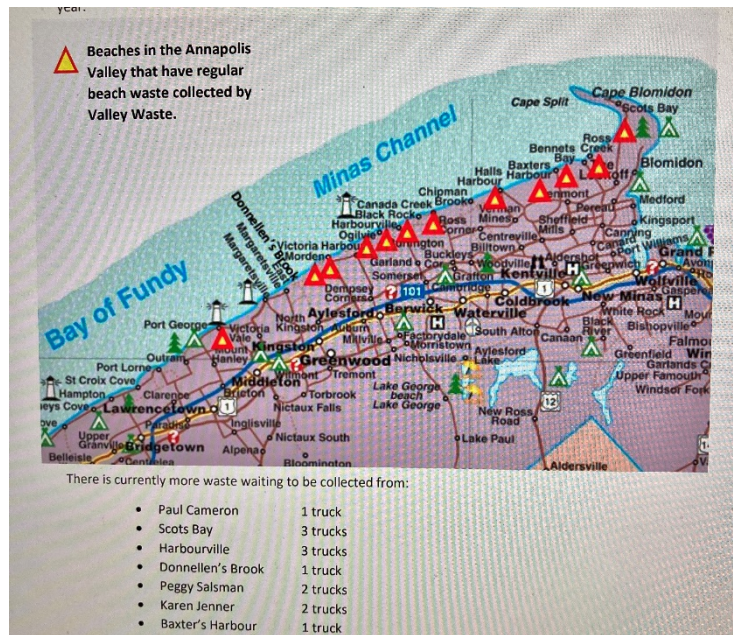
- Education update
 - Earth Day Virtual Presentations to several elementary school students in Annapolis Royal and with the Just Us Coffee staff
 - Assistance to apartment owners and property managers seeking assistance re sorting and storage requirements
 - Spring Clean-up in cottage country
 - Contractor education for those needing information re rules and regulations
 - Divert NS training with grades P-6 re food waste
 - Here is a link to the great series of videos that Divert NS created to combat food waste. Rude to our Food with Sam Sortright. [Fighting Food Waste | Divert NS TapRoot Farms is Episode 1](#) [Waste Not News Episode 1: Food Waste in Production - YouTube](#)
- Enforcement Report
 - In April there were 23 cases of illegal dumping that the Authority dealt with and 1 case of illegal burning, 12 cases of complaints re storage and sorting, 3 bylaw tickets issued. It was noted that illegal dumping usually occurs along unpopulated stretches of road.
- Good Neighbour Activities
 - VWRM is seeing a growing trend in groups wanting to do their part to keep beaches in the region clean. Local groups e.g., Friends of Scots Bay Salt Marsh along with individual “cleaners” are becoming more active in beach waste collection. Interestingly 90% of the waste collected is “ghost gear” from the fishing industry which is washing up from American and Canadian fishing vessels
 - In the past three years a group – Nova Scotia Beach Garbage Awareness (NSBGA) has collected over 20,000 pounds of trash on the area beaches including approximately 13,000 pounds of robe. Other items collected in fairly large quantities include:
 - 23 full 5-gallon buckets of balloons and ribbon including weather balloons
 - 145 needles
 - 12,082 shotgun shell casings, wads and personal effect applicators
 - 2,482 bait bags from lobster traps
 - 44,459 packing straps mainly from lobster traps
 - 82,912 lobster rubber bands

COMMITTEE UPDATE

Title: Valley Waste Resource Management
 Date: June 1, 2021
 Department: Committee of the Whole



- And a significant amount of other plastic garbage including straws, lip gloss, plastic cigarette butts, tooth flossers, six-pack rings, plastic cutlery
- Images below from Education Report of VWRM for May Board Meeting



Respectfully Submitted

Mayor Wendy Donovan
 June 2021

COMMITTEE UPDATE

Title: Kings Transit Update
Date: April and Special Meeting May, 2021
Department: Committee of the Whole



UPDATE

April 25, 2021

Pat Meagher presented the Severe Weather Action Plan, explaining the different service interruption guidelines and why they are put in place for certain weather conditions. It was agreed that some amendments should be explored around the Service Pause recommendations, as well as, seeking legal before board approval. Pat will be making these changes, then forwarding to the General Manager to be sent to Legal before re-presenting to the Board Members.

Mr. Ramsay provided a verbal explanation for the March Ridership and Revenue Report indicating that revenues are significantly lower than budget. Staff are regularly monitoring the rate of fare revenue.

Mr. Ramsay reviewed the progress on the Capital Budget preparation. He explained the possibility of obtaining used buses instead of new buses until a decision has been made regarding electric buses replacing the current fleet. The Board provided its approval on proceeding in that direction. Mr. Ramsay indicated that he will receive assistance from staff on the Municipality of the County of Kings in completing the draft to bring back to the Board for final approval.

The draft hybrid model was discussed, in particular the offer of five used buses from Halifax Transit.

It was agreed that a further draft budget would be presented to the Board within a couple of weeks which would include the proposed funding to meet the capital purchases. The amount estimated per bus includes the projected labour cost.

Mr. Ramsay reviewed the proposed motions included to activate the capital budget. At this time the Board approved the following motion: That staff be authorized under Section 18 of the Inter Municipal Services Agreement to acquire used buses as presented at the meeting, and the General Manager be authorized to expend a maximum of \$40,000 per bus to place the buses operational into the current bus fleet.

Subsequently these buses were received and are now awaiting technical review to see what upgrades etc are required up to the cost of the above amount of \$40K per bus.

COMMITTEE UPDATE

Title: Kings Transit Update

Date: April and Special Meeting May, 2021

Department: Committee of the Whole



Special Meeting held May 11th, 2021

Meeting was held only to discuss the offer and terms to be offered to our successful candidate for the GM Search.

Subsequently the offer was accepted, and the transition is in place (week of May 25th).

The General Manager position was awarded to Pat Meagher and we look forward to KTA's future under his leadership.

Respectfully submitted,
Councillor MacKay

COMMITTEE UPDATE

Title: WBDC Committee Report
Date: June 1, 2021
Department: Committee of the Whole



UPDATE

Report and Updates

May 11, 2021 Board Meeting

Virtual (8:57)

Lynda MacDonald, Co-Chair, brought the meeting to order and welcomed Town of Wolfville staff who were attending as guests.

Motion to approve agenda – passed.

Reports and Updates: Sarah Anderson

- a. Final report from UP Consultants was received and met with overall approval. UP sent a video related to the report which was forwarded to WBDC Board Members
- b. Kaitlyn – summer student, started last week and is focusing her initial efforts on 1) updating the directory and related details 2) that advancing responses to the survey.
- c. Greenery – Ross Farm barrels were delivered – pitching these to affiliate members as well. It was noted that sourcing for greenery should be locally, although some local businesses have indicated they cannot accommodate plant demands.

Town of Wolfville (update): Director Devin Lake

- a. Work is being carried out on updating the TOW website, Barb S overseeing this project and working with Blaze Studios out of NB.
- b. Requests going out for a one-page update for the website.
- c. Wayfinding project progressing with priorities set for the summer in conjunction with the WBDC.
- d. Survey has had good responses with bike trails around town being a big item.
- e. 292 Main Street update – project is experiencing some delays due to challenges with materials, etc. Effort will be made to improve the look of the sight in the short term.

Budget: Sebastian

- a. Year-End being prepared for the AGM on June 15th
- b. Balance to UP Consultants paid (\$3,900.00)
- c. Budget report will be sent out as a follow up to the meeting.

AGM: June 15, 2021

- a. List of proposed new board members was provided.
- b. Some by-law changes included: i) specific terms for each board member ii) explicit provisions for virtual board meetings iii) terms for executive iv) increase number of board members

COMMITTEE UPDATE

Title: WBDC Committee Report

Date: June 1, 2021

Department: Committee of the Whole



Next Meeting date: June 15th, 2021 AGM

Respectfully submitted by: Councillor Isabel Madeira-Voss

COMMITTEE UPDATE

Title: Kings Point to Point
Date: May 19, 2021
Department: Committee of the Whole – June 2021



- Financials were just being wrapped up just as I was joining the meeting
- The timing of the meeting continues to be a challenge for my schedule. I “arrived” for the meeting and was in the lobby for considerable time before being let in - one of the many challenges with zoom based meetings.
 - Review March 2021 Financial Report
 - Review March 31, 2021 CTAP report & 3-year budget
- The CTAP report was circulated during the meeting as it had not been circulated prior.
- Office report was presented. A new vehicle with steps is now on the road and has been very well received.
- Although ridership is down, again, due to the current lock down, there are a lot of trips bringing people to get their vaccines.
- There was nothing to report with regards to Occupational Health and Safety.
- There was nothing to report from the Chair
- Under New Business there was a lengthy discussions around the several items of board governance and bylaws review - Length of term, term renewal, liability and whether it would be a good idea to have a lawyer review these documents.
- There was an ask for Nominating Committee volunteers which led into a conversation about recruiting new board members.
- Next meeting date: June 16, 2021 at 5:15 pm which will include the AGM>