

Hamilton Complete Streets Design Manual

BIA Advisory Sub-Committee

September 13, 2022



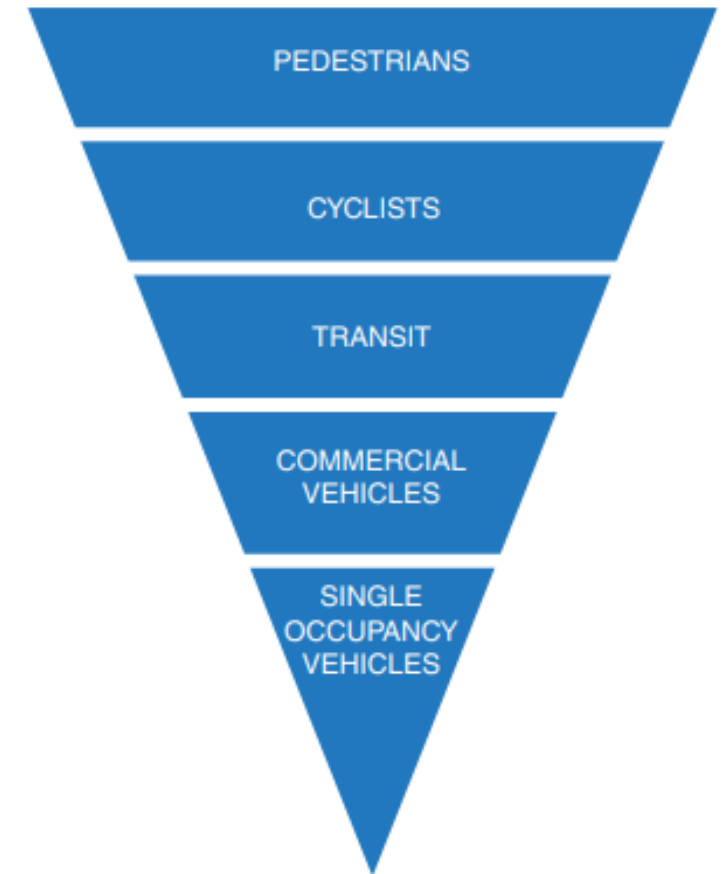
Hamilton's Complete Street Design Manual

Complete Streets are streets that are planned and designed to **balance the needs of all road users**, to allow people to **get around safely no matter their age, ability or how they choose to move**.

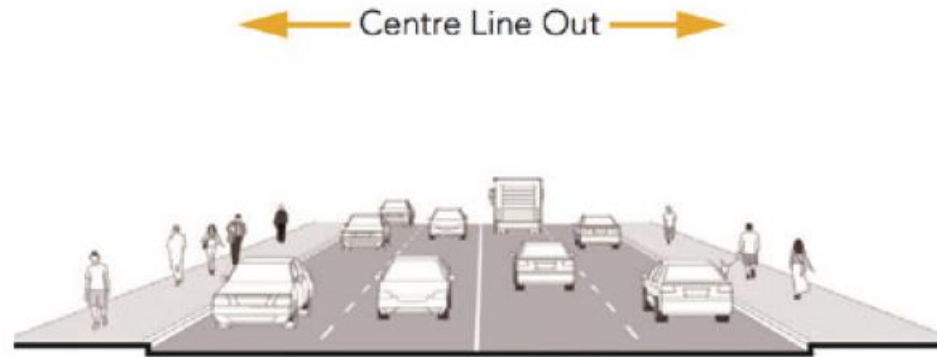
The Complete Streets concept is **tied to the Safe Systems and Vision Zero** approaches to road safety, which aim to design the transportation system to accommodate human error and with the **goal of eliminating death or serious injury**.

The approach recognizes that **there is no one-size-fits-all solution to street design**, as different streets have different priorities, depending on the street's location, context, and role within the transportation system.

Hierarchy of Transportation and Mobility Priorities

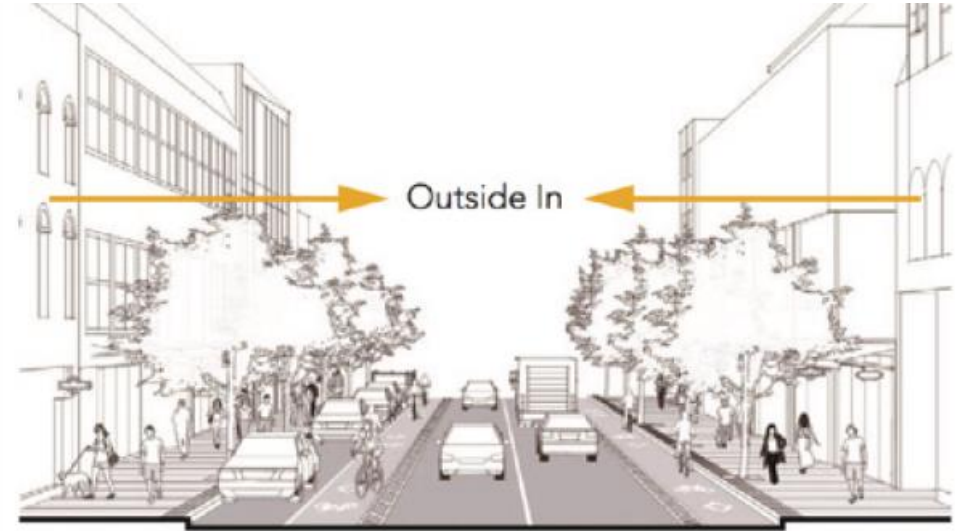


Our Design Goals Have Evolved



THEN

Auto-Mobility
Automobile Safety



NOW

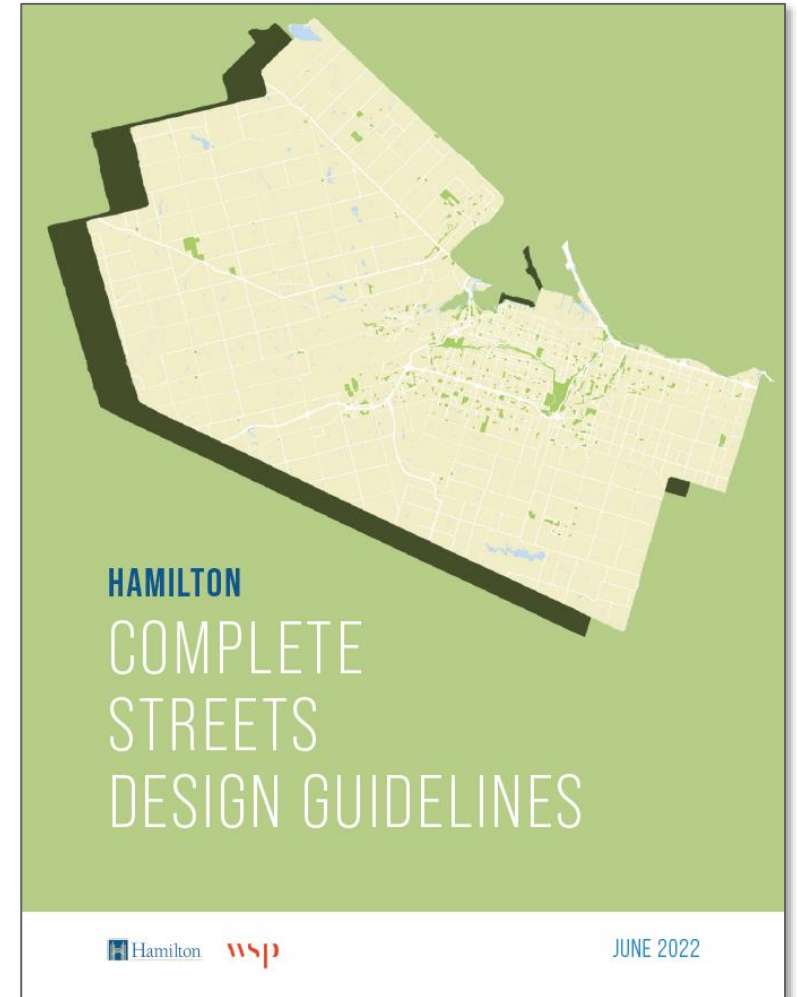
Multi-modal Mobility + Access
Public Health/Safety
Economic Development
Environmental Quality
Livability/Quality of Life
Equity

Design Manual Overview

The role of the manual is to **improve and normalize the role of complete streets** across all projects.

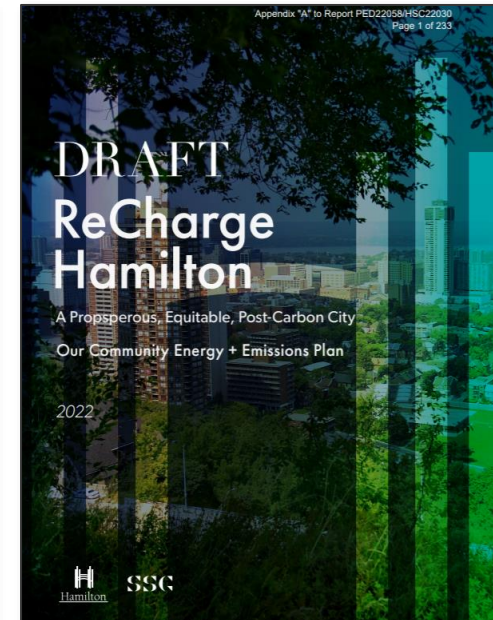
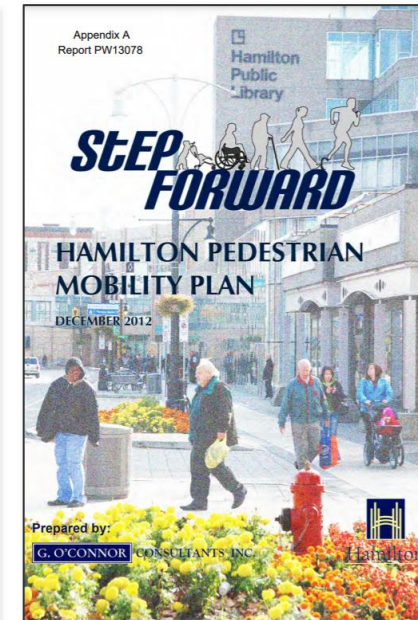
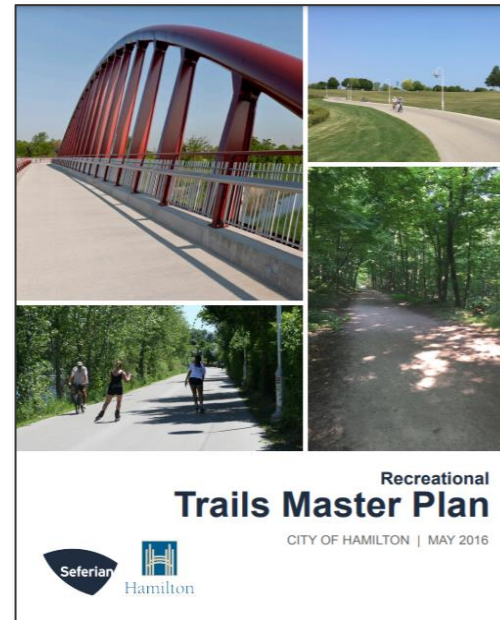
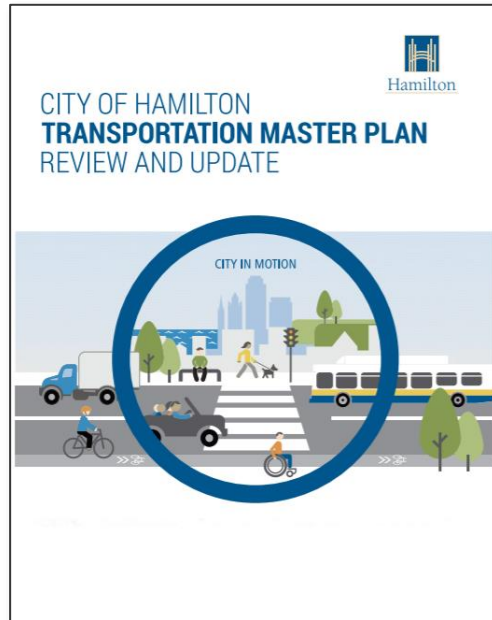
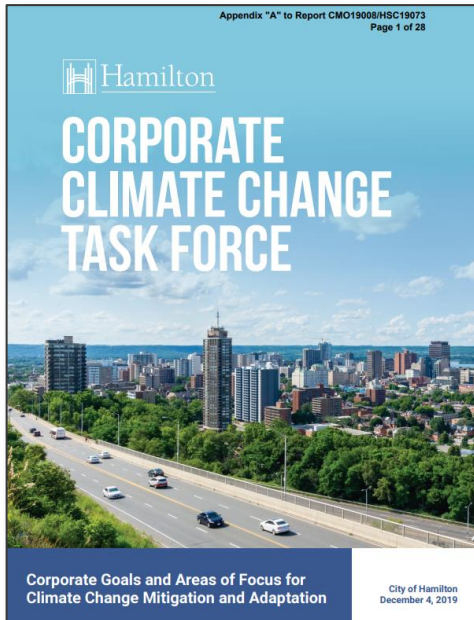
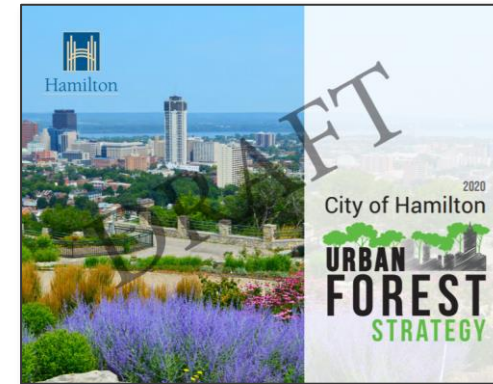
The design manual is structured in five sections:

1. Introduction;
2. Undertaking Complete Streets Design;
3. Elements of Complete Streets;
4. Complete Street Typologies; and,
5. Designing for Intersections.



Chapter 1: Introduction

Provides an overview of the guidelines and their applicability, and **relationship to other guidelines, strategies and policies.**



Chapter 2: Undertaking Complete Streets Design

- Establishes a process and tools for designing streets.
 1. Plan
 2. Conceptualize
 3. Design
 4. Implement
 5. Monitor
- Community and stakeholder feedback a central pillar of the process



Chapter 3: Elements of Complete Streets

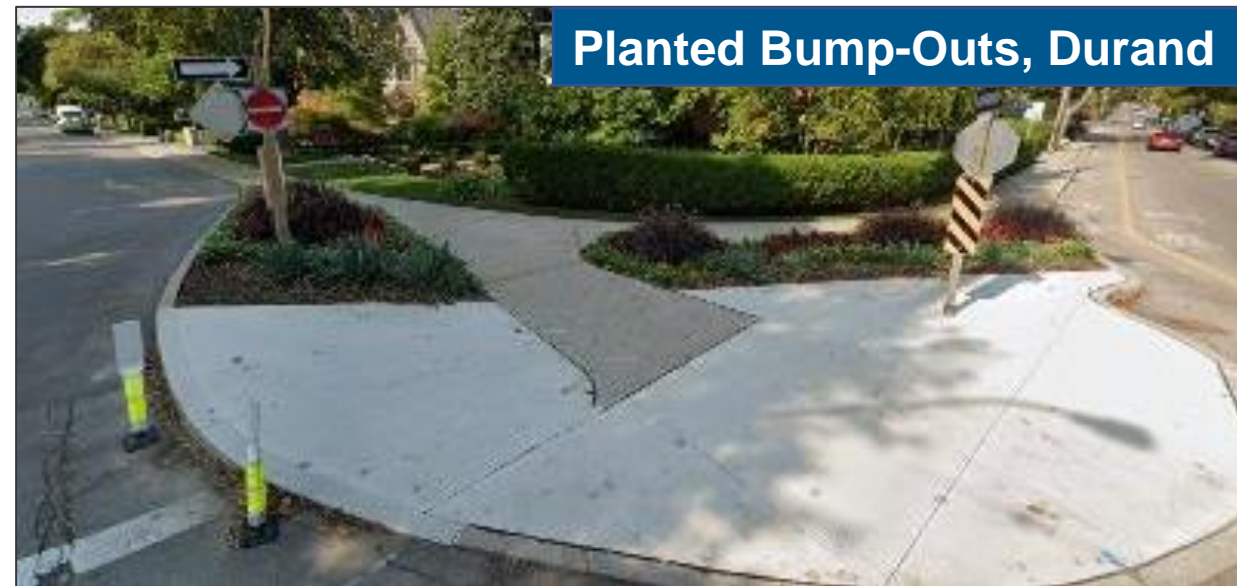


The manual provides **direction on the design of different complete street elements**, including:

- Pedestrian Realm & Placemaking;
- Cycling Facility Design;
- Transit Facility Design;
- Roadways;
- Curbside Management;
- Green Infrastructure; and
- Utilities and Municipal Services.

Chapter 3: Elements of Complete Streets

- **Narrower lane widths** and **updated design speeds**.
- **Wider sidewalks** and **accessible treatments** at intersections.
- **Greater separation in cycling facility design** to support a wide range of ages and abilities.
- Opportunities for **street trees**, and green infrastructure.
- **Traffic calming**, particularly in neighbourhoods, from day one.



Chapter 4: Complete Street Typologies

- Conceptual cross-section for each of the eight street typologies, previously approved by Council.
- **Represent the starting point for the design process**, but all streets will need to take a context sensitive approach to the local conditions.
- Demonstrate how the different complete street elements **can fit together** in different contexts.

Street Typologies

Urban Avenue

Transitioning Avenue

Main Street

Connectors

Neighbourhood Streets

Rural Roads

Rural Settlement Areas

Industrial Street

Typologies: Urban Avenue - 20 m



CONTEXT	Urban
STREET FUNCTION	Mobility and placemaking
RIGHT OF WAY	20–26 m
NUMBER OF LANES	2–4
TARGET SPEED	40–50 km/h
CYCLING FACILITIES	Cycle tracks, typically one-way on each side of the street
PEDESTRIAN CLEAR ZONE WIDTH	2.0 m, up to 3.5 m adjacent to high pedestrian generators

* Alternative 26 m ROW included in the manual

Typologies: Main Streets - 20 m

C - Communications
 G - Gas
 H - Hydro
 SA - Sanitary Sewer
 SW - Stormwater Sewer
 WM - Watermain

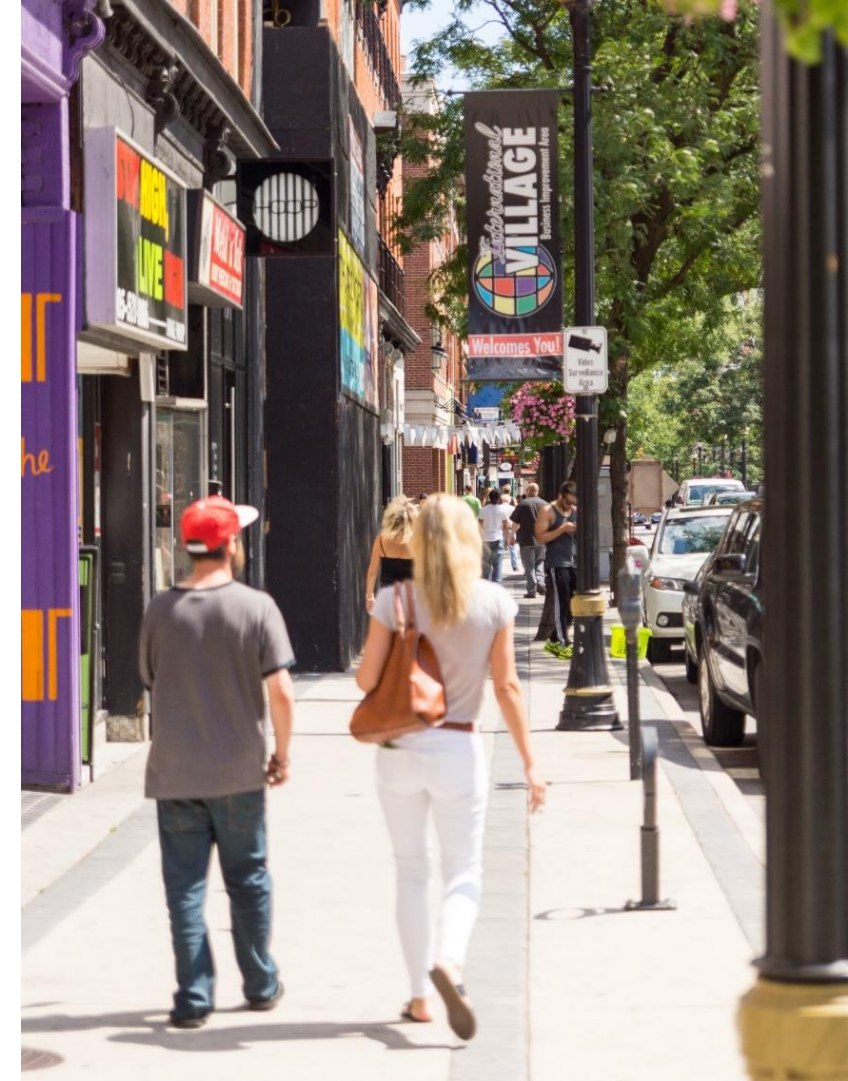


CONTEXT	Urban
STREET FUNCTION	Placemaking and access
RIGHT OF WAY	18–20 m
NUMBER OF LANES	2
TARGET SPEED	30–40 km/h
CYCLING FACILITIES	Shared lanes
PEDESTRIAN CLEAR ZONE WIDTH	2.0 m, 3.5 m adjacent to high pedestrian generators

Chapter 5: Intersections

Guiding design principles:

- Prioritize safety
- Design for accessibility
- Minimize delay



Compact Urban Intersections



Urban Avenue to Main Street

1. Raised corner to separate cyclists and motorists
2. Smaller corner radii
3. Left turn lane stop bar setback
4. Transition to shared cycling facilities
5. Bus stop integrated with cycle track
6. Crossing distances minimized

Making It Happen

- Updating internal design documents and standards.
- Continue to disseminate design manual amongst staff, including training sessions.
- Monitor implementation successes and opportunities for improvements over time.



Design Manual Overview



Living In

City services and programs for residents.

Doing Business

Start, grow and operate your business here.

Discovering Hamilton

Explore the best the City has to offer to visitors and newcomers.

City Hall

Connect to the Mayor & Councillors, meetings, planning & development.

STREETS & SIDEWALKS

Pavement Markings

Road & Sidewalk Maintenance

Hamilton Plow Tracker

Snow Clearing

Street Lighting

Traffic Island Beautification

Complete Streets Design Manual



Complete Streets Design Manual

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The City of Hamilton has developed a [Complete Streets Design Manual \(Large Size PDF, 22 MB\)](#), which was endorsed by City Council in July 2022. This manual provides a set of consistent guidelines and tools to inform the design, implementation, maintenance and monitoring of CLB Streets across the city. The Complete Streets Design Manual provides an expanded toolbox of ways to improve Hamilton's streets.

The purpose of this manual is to:

- Encourage designs that better balance considerations for the different transportation modes that share streets;
- Focus on enhancing road safety, and;
- Design streets to address the transportation requirements and placemaking functions of surrounding areas.

The manual was developed in two phases in 2020/2021 and 2021/2022, and stakeholders were invited to provide their input to help inform the

<https://www.hamilton.ca/streets-transportation/streets-sidewalks/complete-streets-design-manual>



Hamilton

THANK YOU