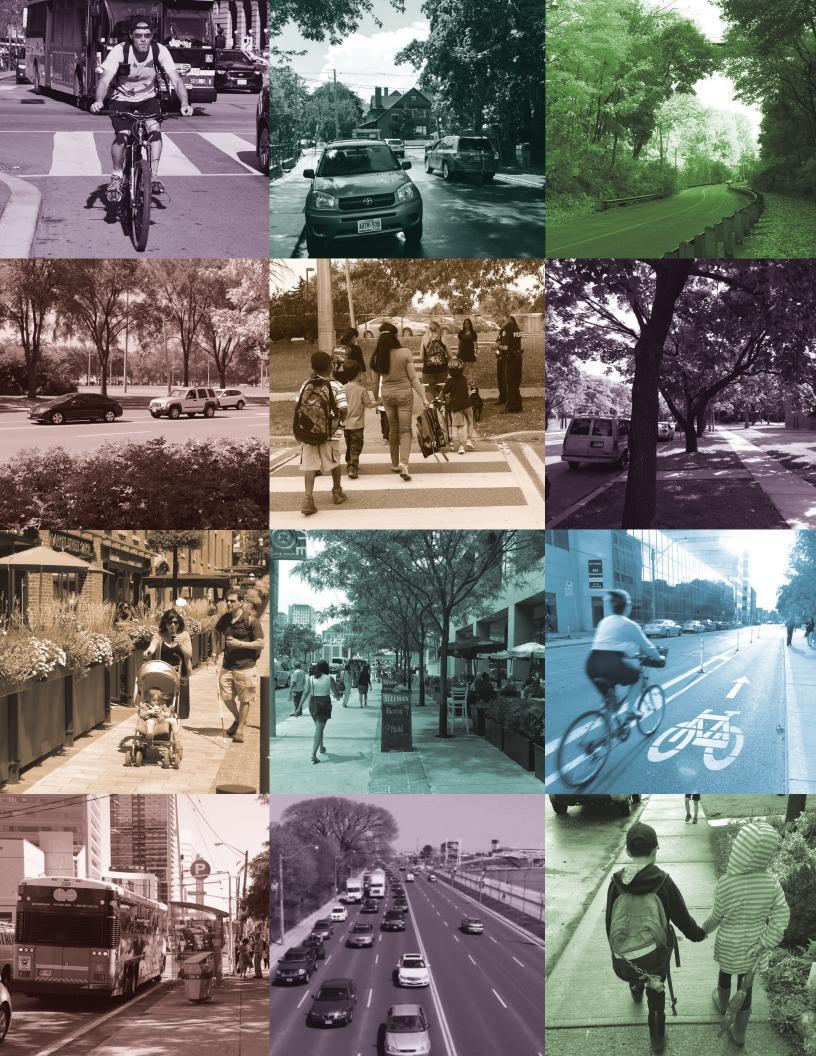


TORONTO COMPLETE STREETS GUIDELINES

MAKING STREETS FOR PEOPLE, PLACEMAKING AND PROSPERITY.



STREETS ARE VITAL PLACES IN TORONTO.

HOW OUR STREETS ARE DESIGNED SHOULD IMPROVE SAFETY AND ACCESSIBILITY FOR ALL.

ACKNOWLEDGEMENTS

Toronto's Complete Streets Guidelines represent a collaborative effort from policy makers, City and agency staff, community groups and residents, advocates, researchers, and professionals.

In 2013, Toronto City Council requested staff to report back on an approach to developing Complete Streets Guidelines. Since that time, participants have been involved in workshops, public meetings, online surveys, photo contests, walkshops and bike tours, to examine international best practices, assess current strengths and gaps in Toronto's street design approach, evaluate recent projects, and explore innovative street design practices. These Guidelines are the product of this collaboration and hard work.

CITY OF TORONTO STAFF

TRANSPORTATION SERVICES

- Steve Buckley
- Elyse Parker
- Fiona Chapman
- Janet Lo
- Adam Popper
- Christina Bouchard
- David Kuperman
- Marko Oinonen

CITY PLANNING

- Harold Madi
- Alka Lukatela
- James Perttula
- Kristina Reinders
- David Hunter
- Leo Desorcy
- Sheila Boudreau

TORONTO URBAN FELLOWS

Emma Feltes, Jeremy Kloet, Samira Behrooz, Laura Pfeifer, Tamara Augsten, Victoria Wood, Claire Nelischer

ENGINEERING AND CONSTRUCTION SERVICES

Shirley Wilson Penelope Palmer

TECHNICAL ADVISORY COMMITTEE (DIVISION & AGENCY LEADS)

- Build Toronto Carlo Bonanni & Aaron Cameron
- City Planning representatives from all Districts and Sections
- Economic Development and Culture
 Rajashree Kumar & Antonella
 Nicaso
- Engineering and Construction Services – Charlyne Elep & Robert Klimas
- Environment and Energy Mark Bekkering
- Equity, Diversity & Human Rights Nicole Cormier
- Fire Services Colin Booth
- Metrolinx Elana Horowitz & Naren Garg
- Municipal Licencing and Standards Carleton Grant
- Parks, Forestry and Recreation –
 Brian L. Mercer and Carol Walker
- Solid Waste Management Services Rob Orpin
- Toronto Hydro Elias Lyberogiannis
- Toronto Paramedic Services Dawn Ainsworth
- Toronto Parking Authority Ann Marie Chung & Ian Maher
- Toronto Police Brett Moore
- Toronto Public Health Monica Campbell & Carol Mee
- Toronto Transit Commission Mary-Ann George & Rob Gillard
- Toronto Water Patrick Cheung & Weng Yau Liang
- Transportation Services representatives from all Districts and Sections

This list is not exhaustive as space does not permit including many others who participated in developing the Guidelines.

STAKEHOLDER ADVISORY GROUP

- Alliance for Equality for Blind Canadians – Ruth Brown
- Building, Industry, and Land Development – Danielle Chin
- Canadian Automobile Association Raymond Chan
- Code Red TO Rishi Lukka
- CNIB Yin Brown
- Cycle Toronto Jared Kolb
- David Suzuki Foundation Kara Garcia
- Green Communities Canada Kate Hall
- Harbord Village Residents
 Association Carolee Ormee &
 Gord Brown
- METRAC Linda Frempong
- North American Native Plant Society
 Harold Smith
- Ontario Association of Landscape Architects – Victor Ford & Raj Mohabeer
- Park People Jake Tobin Garrett
- Public Space Workshop Paul Young
- Smart Commute (Metrolinx) Jennifer McGowan
- The Laneway Project Michelle Senayah
- Toronto Association of BIAs John Kiru
- Toronto Centre for Active Transportation – Nancy Smith Lea
- Toronto Electric Riders Association Doug Beatty
- Toronto and Region Conservation Authority Tim Van Seters, Rehana Rajabali, & Cameron Richardson
- Toronto Skateboarding Committee Ariel Stagni
- Toronto Women's City Alliance Reggie Modlich
- TTC Riders Dane Grgas
- Urban+Digital Gabe Sawnhey
- Walk Toronto Dylan Reid

Over 80 organizations were invited to participate in the Stakeholder Advisory Group. The list above represents the most active participants.

CONSULTANTS & CONTRIBUTORS

DTAH, Nelson\Nygaard, and WSP/MMM Group

Document template designed by HM&E Inc. Layout and graphics by DTAH, except where noted.

Stakeholder and public engagement support provided by Swerhun Facilitation and Decision Support and the City's Public Consultation Unit.

OFFICIAL REFERENCE / CITATION

Toronto Complete Streets Guidelines Edition 1. Volume 1. 2017

All photographs are property of the City of Toronto, except where noted.

Document Typeface: Avenir

CONTENTS

CHAPTER 1

INTRODUCTION, VISION AND GOALS

- 02 1.1 Overview
- **03** 1.2 Applicability of Guidelines
- **04** 1.3 Structure of the Guide
- **06** 1.4 Vision for Complete Streets
- **10** 1.5 Goals

CHAPTER 2

STREET TYPES

- 20 2.1 Understanding Street Type
- 22 2.2 Use of Overlays
- 23 2.3 Toronto Street Types

CHAPTER 3

STEPS TO STREET DESIGN

- **60** 3.1 Steps to Street Design
- **70** 3.2 Performance Measurement
- **71** 3.3 Exceptions

CHAPTER 4

STREET DESIGN FOR PEDESTRIANS

- **74** 4.1 Pedestrian Design Principles
- **76** 4.2 Sidewalk Zones
- **78** 4.3 Importance of the Pedestrian Clearway Zone
- 80 4.4 Accessibility and Universal Design Features
- **82** 4.5 Pedestrian Crossings
- **84** 4.6 Public Realm and Placemaking
- **87** 4.7 Utilities, Maintenance and Operations

CHAPTER 5

STREET DESIGN FOR CYCLING

- 90 5.1 Cycling Design Principles
- **92** 5.2 Context Sensitive Cycling Facilities
- 96 5.3 Key Cycling Elements

CHAPTER 6

STREET DESIGN FOR TRANSIT

- 102 6.1 Transit Design Principles
- 104 6.2 Key Transit Street Elements
- **106** 6.3 Context Sensitive Transit Design

CHAPTER 7

STREET DESIGN FOR GREEN INFRASTRUCTURE

- **110** 7.1 Green Infrastructure Design Principles
- **112** 7.2 Context Sensitive Green Streets
- **114** 7.3 Key Green Street Elements

CHAPTER 8

STREET DESIGN FOR ROADWAYS

- **120** 8.1 Roadway Design Principles
- **122** 8.2 Design for a Multi-Modal Transportation System
- **124** 8.3 Design for Safety of Vulnerable Users
- **126** 8.4 Design Using a Target
 Speed for the Street
 Context
- **128** 8.5 Design to Support Place-Making and Street Context
- **130** 8.6 Rightsizing & Repurposing Roadway as Complete Streets
- 132 8.7 Traffic Calming
- 134 8.8 Roadway Zones

CHAPTER 9

STREET DESIGN FOR INTERSECTIONS

- **144** 9.1 Intersection Design Principles
- **146** 9.2 Key Needs and Perspectives of Each Road User
- **148** 9.3 Accessibility and Universal Design of Intersections
- **150** 9.4 Context-Sensitive Intersection Design
- **154** 9.5 Intersection Elements And Geometric Design
- **160** 9.6 Intersection Signals and Other Traffic Controls

CONCLUSION

- 166 C.1 Project Delivery Process
- 168 C.2 Conclusion

