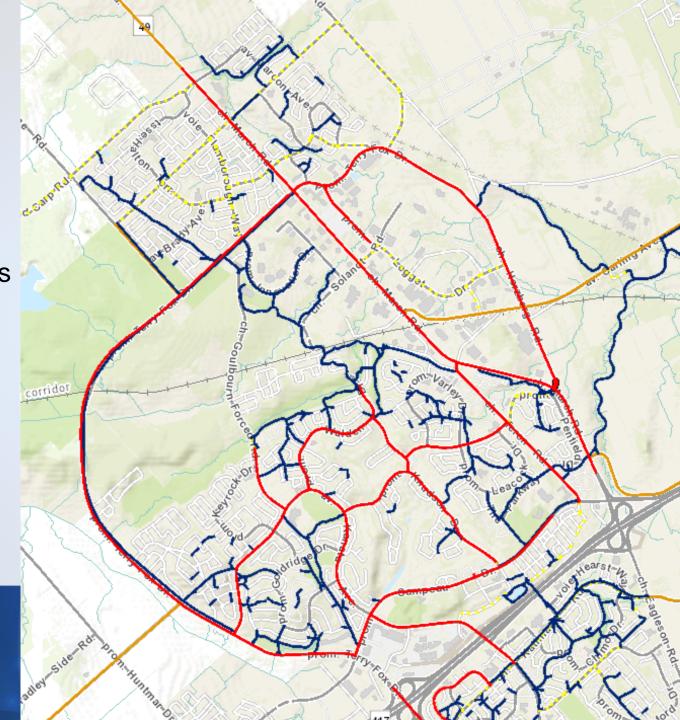
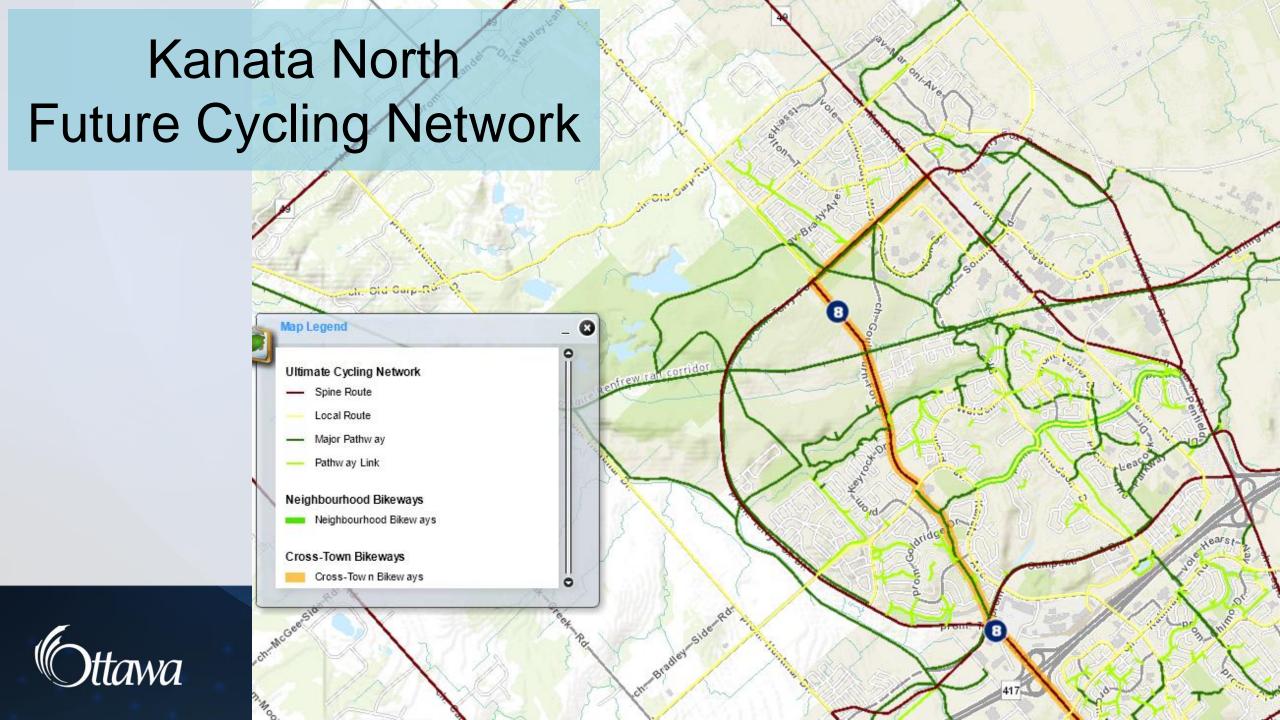


Kanata North Existing Cycling Network

- New bike lanes vs "Courtesy Lanes"
- New MUP vs community pedestrian connections
- Barriers
 - Major arterials March, Terry Fox, Campeau
 - Refrew rail corridor
 - South March Highlands Conservation area
- 417 Crossings

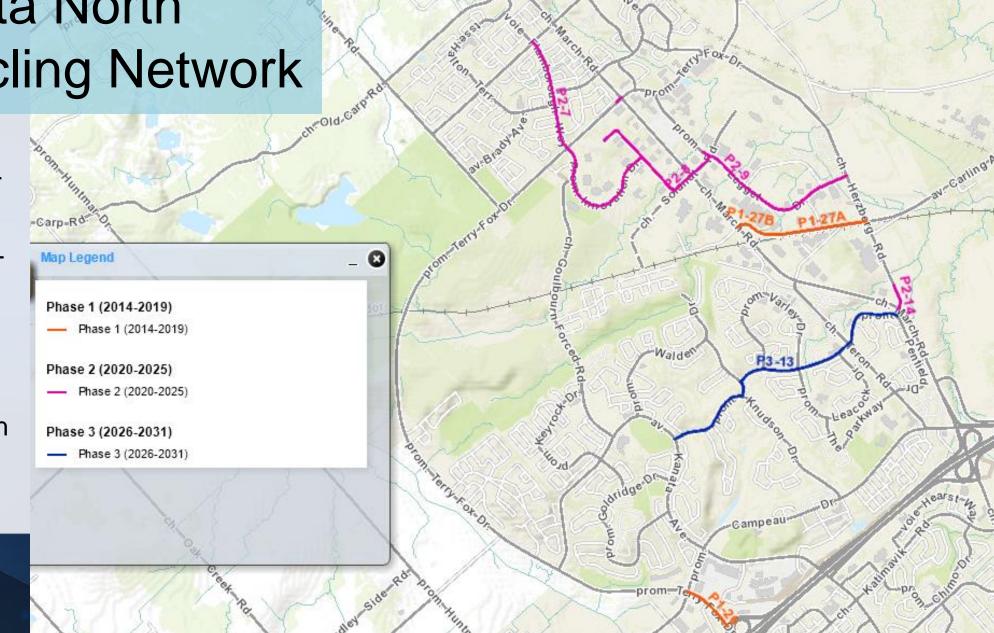






Kanata North
Future Cycling Network

- P1-26: Terry Fox BL
- P1-27A&B: Carling Ave BL
- P2-14: Herzberg CT
- P2-7, 8, & 9:
 Flamborough,
 Innovation, Hines,
 Solandt, Leggett BL
- P3-13: Kanata North Neighbourhood Bikeway SL





Facility types



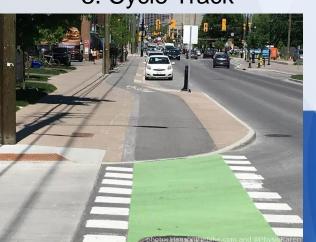
1. Painted Bike Lane



2. Separated Bike Lane



3. Cycle Track



4. Multi-Use Pathway



6. Paved Shoulder (R)





4B. Rural Pathway (R)

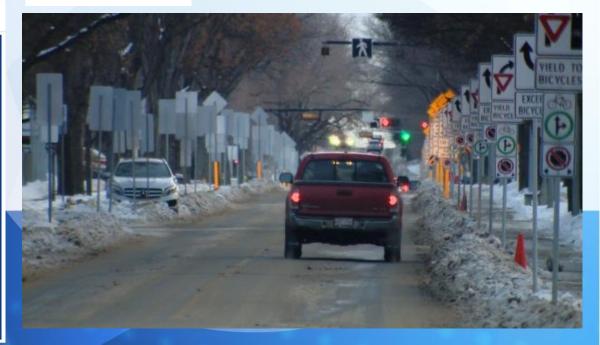
Principles of Signing & Pavement Markings

- Sign types
 - Regulatory
 - Warning
 - Informational / wayfinding
- Pavement Markings
 - Supplementary
 - User experience
- Clutter









Shared Lanes

Figure 4.4 – Share the Road and Shared Use Lane Single File Signs)



Wc-19 (OTM) (600 mm x 600 mm)



Wc-24 (OTM) (600 mm x 600 mm)

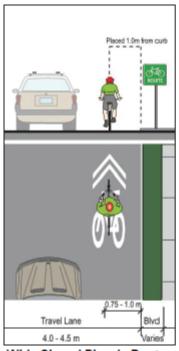


Wc-19t (OTM) (300 mm x 600 mm)



Wc-24t (OTM) (300 mm x 600 mm)

Figure 4.2 - Cross-Sections of Shared Roadways and Signed Bicycle Routes
(See Table 4.1 for more details)



Wide Signed Bicycle Route (with optional sharrow)



Narrow Signed Bicycle Route (with optional sharrow)







Bike Lanes

Figure 4.20a - Overhead and Ground-mounted Reserved Bicycle Lane Signs (OTM)



Rb-84 (OTM) (600 mm x 600 mm)



Rb-84A (OTM) (600 mm x 600 mm)

Figure 4.20b - Reserved Lane Begins and Ends Tab Signs (OTM)



ENDS

Rb-84t (OTM) (200 mm x 600 mm) Rb-85t (OTM) (200 mm x 600 mm)

Figure 4.23 – Turning Vehicles Yield to Bicycles Sign

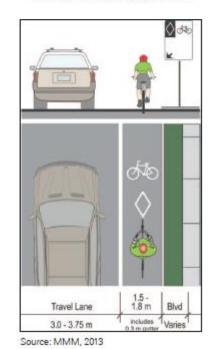


RB-37 (TAC) (600 mm x 750 mm)

Figure 4.19 - Cross-Sections of Conventional Bicycle Lanes

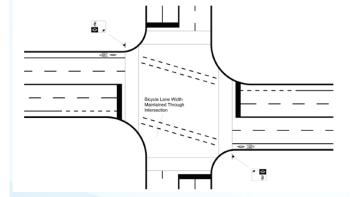
(See Table 4.3 for more details. As an option, directional arrows may be applied within the bicycle lane.)

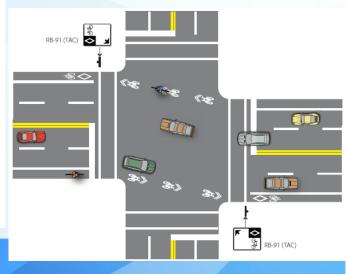
Conventional Bicycle Lane



Bicycle Lane Adjacent to On-Street Parking









Separated Bike Lanes

Figure 4.20a - Overhead and Ground-mounted Reserved Bicycle Lane Signs (OTM)







Rb-84A (OTM) (600 mm x 600 mm)

Figure 4.20b - Reserved Lane Begins and Ends Tab Signs (OTM)



ENDS

Rb-84t (OTM) (200 mm x 600 mm) Rb-85t (OTM) (200 mm x 600 mm)

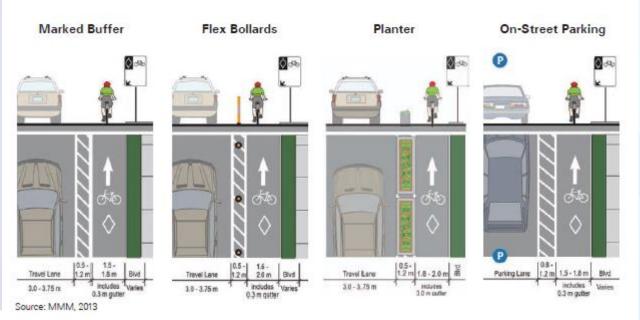
Figure 4.23 – Turning Vehicles Yield to Bicycles Sign

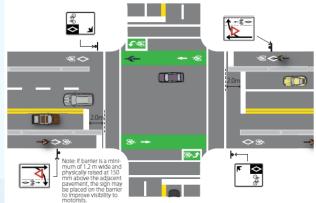


RB-37 (TAC) (600 mm x 750 mm)

Figure 4.54 - Cross-Sections of Separated Bicycle Lanes with Buffers as indicated

(See Table 4.4 for more details. As an option, directional arrows may be applied within the bicycle lane.)







Cycle Tracks

Figure 4.20a - Overhead and Ground-mounted Reserved Bicycle Lane Signs (OTM)



Rb-84 (OTM) (600 mm x 600 mm)

♦ ♦ THIS LANE

Rb-84A (OTM) (600 mm x 600 mm)

Figure 4.20b - Reserved Lane Begins and Ends Tab Signs (OTM)



Rb-84t (OTM) (200 mm x 600 mm) Rb-85t (OTM) (200 mm x 600 mm)

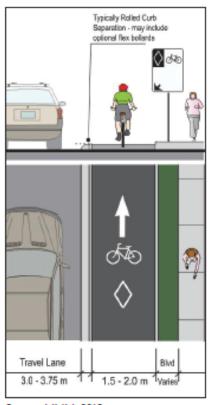


RB-37 (TAC) (600 mm x 750 mm)

Figure 4.77 - Cross-Sections of One-way and Two-Way Raised Cycle Tracks

(See Table 4.6 for more details)

One-Way Raised Cycle Track



Source: MMM, 2013

Two-Way Raised Cycle Track

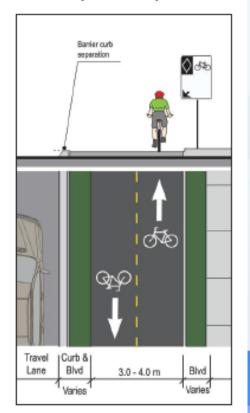
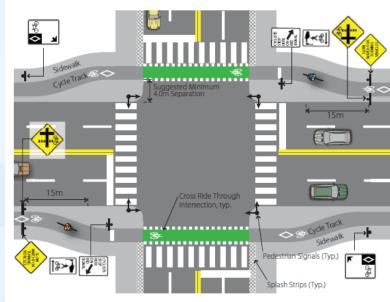
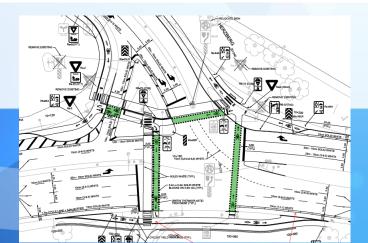


Figure 4.87 - Raised Cycle Track Carried Through an Intersection

(Directional arrows should be applied within the raised cycle track)









Multi-Use Pathways















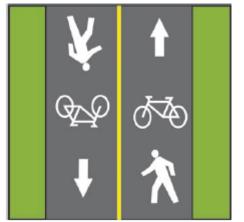


Two-way In-Boulevard

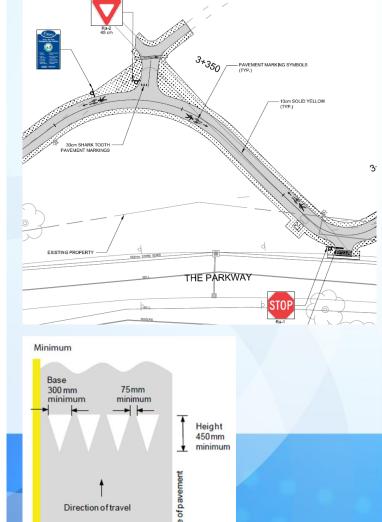
Figure 4.98 - Typical Pavement Markings for Two-Way In-Boulevard Shared Use Paths (Broken versus solid yellow centre line)

(Pavement stencils optional)





Source: MMM, 2013



I ane width (varies)



Crossings / Crossrides

Figure 4.101 – Separate Pedestrian and Cyclist Crossride (Signalized Example)

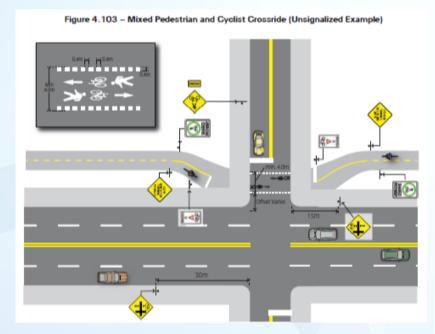
(As an option, directional arrows may be applied within the in-boulevard facility)

Figure 4.102 - Combined Pedestrian and Cyclist Crossride (Signalized Example)

Optional Reycle Signals (Typ.)

Reycle Signals (Typ.)

Padestrian Signals (Typ.)







Protected Intersection

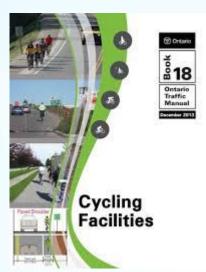




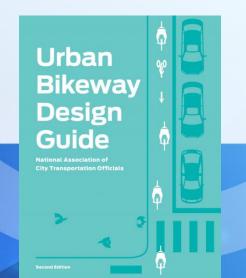
Resources

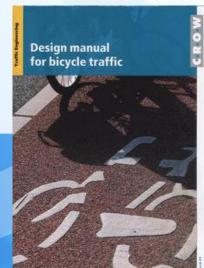
- Laws, and Standards and Design Guidelines
 - Ontario Highway Traffic Act
 - National Standards Transportation Association of Canada
 - Provincial Standards Ontario Traffic Manuals
 - American and international Standards
- City Materials
 - www.Ottawa.ca/cycling
 - Ottawa Cycling Plan
 - Transportation Master Plan













Questions?

Thank you

