

# **Appendix A: Infrastructure Summary Tables**

## Exhibit A.1: Proposed Road Infrastructure Improvements

Road Name	From	To	Description of Works	Anticipated Timing	Total Project Costs (Millions)	EA Schedule
Airport Access Facility	Red Hill Valley Parkway	Hwy 6	New Road	2007-2011	TBD	C
<b>Ancaster Development (Trinity @ Wilson)</b>						
New E/W Road (Ancaster)	Tradewind Drive / Cormorant Road	Trinity Road	New Road	2007-2011	\$2.40	C
New Mid-block Collector (Ancaster)	Cormorant Road	Tradewind Drive	New Road	2007-2011		
Arvin Avenue	McNeilly Road	just east of Lewis Road	New Road	2007-2011	\$3.89	C
Arvin Avenue	Jones Road	existing end	New Road	2007-2011		
Arvin Avenue	existing end	extend to McNeilly Road	New Road	2007-2011		
Barton Street	Fruitland	Glover Road	Two-way Left-turn Lane	Beyond 2021	\$12.57	C
Barton Street	Glover Road	Fifty Road	Two-way Left-turn Lane	Beyond 2021		
Baseline Road	Winona Road	North Service Road	Two-way Left-turn Lane	2007-2011	\$1.48	B
Binbrook Road	Fletchers Road	3 km west of Hwy 56	Road Widening	2012-2021	\$7.80	C
Binbrook Road	E and W of Hwy 56		Intersection Improvements	2012-2021		
Bold St	Queen Street	James Street	Two-way conversion from one-way	2007-2011	\$0.10	B
<b>Centre Road/Hamilton Street</b>						
Centre Road	Northlawn Avenue	Parkside Drive	Two-way Left-turn Lane	2012-2021	\$2.12	B
Hamilton Street	Parkside Drive	John Street	Two-way Left-turn Lane	2012-2021		
Community Avenue	Stoney Creek limits	Teal Avenue	Conversion to urban cross-section	2012-2021	\$0.99	A
Dartnall Road	Rymal Road	Dickenson Road	New Road	2007-2011	\$8.97	C
Dartnall Road	Stone Church Road	Rymal Road	Road Widening and Two-way Left-turn Lane	2007-2011		
Dickenson Road E.	west of Nebo Road	west of Glover Road	Conversion to urban cross-section	2012-2021	\$12.35	B
Dickenson Road E.	east of Hwy 6	west of Nebo Road	Addition of Left turn lanes	2012-2021		
Dickenson Road W.	west of Hwy 6	Glancaster Road	Conversion to urban cross-section	2012-2021		
Duke St	Queen Street	James Street	Two-way conversion from one-way	2007-2011	\$0.10	B
Falcon Road	Fifty Road	West limits	Conversion to urban cross-section	2007-2011	\$0.19	A
Fifty Road	QEW	Hwy 8	Road Widening	Beyond 2021	\$2.32	C
Fletcher Road	Rymal Road	Binbrook Road	Addition of Left turn lanes	2012-2021	\$8.10	B
Fruitland Road	Arvin Avenue	Barton Street	Road Widening	Beyond 2021	\$0.79	C
Garden Avenue	Teal Avenue	Pinelands Avenue	Conversion to urban cross-section	2007-2011	\$0.48	A
<b>Garner Road</b>						
Garner Road	50m east of Miller Drive	50m west of Southcote Road	Road Widening and Two-way Left-turn Lane	2012-2021	\$28.95	C
Garner Road	Hwy 2	50m west of Shaver Road	Road Widening and Two-way Left-turn Lane	2012-2021		

Road Name	From	To	Description of Works	Anticipated Timing	Total Project Costs (Millions)	EA Schedule
Garner Road	50m west of Fiddlers Green Road	50m east of Fiddlers Green Road	Road Widening and Two-way Left-turn Lane	2012-2021		
Garner Road	50m east of Fiddlers Green Road	50m west of Miller Drive	Road Widening and Two-way Left-turn Lane	2012-2021		
Garner Road	50m east of Southcote Road	50m west of Kitty Murray La	Road Widening and Two-way Left-turn Lane	2012-2021		
Garner Road	50m east of Kitty Murray La	50m west of Glancaster Road	Road Widening and Two-way Left-turn Lane	2012-2021		
Garner Road	50m east of Glancaster Road	Old Hamilton boundary	Road Widening and Two-way Left-turn Lane	2012-2021		
Garner Road	50m west of Miller Drive	50m east of Miller Drive	Road Widening	2012-2021		
Garner Road	50m west of Kitty Murray Lane	50m west of Kitty Murray La	Road Widening	2012-2021		
Garner Road	West of Shaver Road	50m east of Shaver Road	Two-way Left-turn Lane	2012-2021		
Garner Road	50m west of Southcote Road	50m east of Southcote Road	Two-way Left-turn Lane	2012-2021		
Garner Road	50m west of Glancaster Road	50m east of Glancaster Road	Two-way Left-turn Lane	2012-2021		
Garner Road	50 m east of Shaver Road	50m west of Fiddlers Green Road	Road Widening and Two-way Left-turn Lane	2012-2021		
Wilson Street / Hwy 2	Hwy 52	Hwy 53	Two-way Left-turn Lane	2012-2021		
Garth Street	Stone Church Road	Rymal Road	Two-way Left-turn Lane	2007-2011	\$1.60	C
Garth Street Extension	Twenty Road	Dickenson Road	New Road	Beyond 2021	\$3.06	C
Glancaster Road	Hwy 53	Twenty Road	Addition of Left turn lanes	2007-2011	\$1.56	B
Glover Access Road (Stoney Creek)	Glover Road	North Service Road	Conversion to urban cross-section	2007-2011	\$0.75	A
Glover Road (Hamilton)	Rymal Road	Dickenson Road	Conversion to urban cross-section	2007-2011	\$6.26	A
Golf Links Road	McNiven Road	Kitty Murray La	Two-way Left-turn Lane	2012-2021	\$2.07	C
Governor's Road	Creighton Drive	Bridlewood Drive	Two-way Left-turn Lane	2012-2021	\$5.23	C
Governor's Road	Creighton Drive	Osler Drive	Road Widening	2012-2021		
Hamilton Drive	Hwy 403	0.35km south	Intersection Improvements	2007-2011	\$0.65	A
Hwy 20	Ridge Road	300m south of Ridge Road	Intersection Improvements	2012-2021	\$4.65	C
Hwy 20	100m south of Green Mountain	800m south of Gm Mtn	Two-way Left-turn Lane	2012-2021		
Hwy 20	350m south of Mud Street	830 m south of Mud Street	Two-way Left-turn Lane	2012-2021		
Hwy 8	Hillcrest Avenue	Park Street	Two-way Left-turn Lane	Beyond 2021	\$1.97	C
Hwy 8	Bond Street	Dundas Limits	Two-way Left-turn Lane	Beyond 2021	\$6.27	C
Hwy 8	Fruitland Road	Hamilton Boundary	Road Widening	Beyond 2021	\$10.54	C
Hwy 8	Dewitt Road	Fruitland Road	Road Widening and Two-way Left-	Beyond 2021		

Road Name	From	To	Description of Works	Anticipated Timing	Total Project Costs (Millions)	EA Schedule
			turn Lane			
Hwy 5 / Hwy 6	East of Hwy 6	West of Hwy 6	Intersection Improvements	2012-2021	\$16.90	
Jerseyville Road	Martin Road	Lloyminn Avenue	Two-way Left-turn Lane	2012-2021	\$6.99	C
Jerseyville Road	Shaver Road	Martin Road	Two-way Left-turn Lane	2012-2021		
Jerseyville Road	Wilson Street	Lloyminn Avenue	Two-way Left-turn Lane	2012-2021		
Jones Road	Barton Street	South Service Road	Conversion to urban cross-section	2012-2021	\$1.94	A
Kenmore Avenue	Arvin Avenue	Barton Street	Conversion to urban cross-section	2012-2021	\$0.86	A
King St	Queen Street	Wellington Street	Two-way conversion from one-way	2007-2011	\$2.98	C
Leaside Avenue	Arvin Avenue	Barton Street	Conversion to urban cross-section	2012-2021	\$0.65	A
Lewis Road	Barton Street	South Service Road	Conversion to urban cross-section	2007-2011	\$1.75	A
MacNab St	Cannon Street	Guise Street	Two-way conversion from one-way	2007-2011	\$0.25	C
McNeilly Road	Barton Street	South Service Road	Conversion to urban cross-section	2007-2011	\$1.87	A
McNiven Road	Rousseaux Street	Golf Links Road	Road Widening	2007-2011	\$1.72	C
Millen Road	South Service Road	Hwy 8	Two-way Left-turn Lane	2012-2021	\$4.92	C
Mohawk Road	McNiven Road	Hwy 403	Road Widening	2007-2011	\$3.55	C
Nebo Road	Rymal Road	Former Hamilton Limits	Two-way Left-turn Lane	2012-2021	\$5.50	C
Nebo Road	Former Hamilton Limits	Dickenson Road	Conversion to urban cross-section	2012-2021		
North Service Road	Grays Road	Grays Road	Road Widening	2007-2011	\$18.94	C
North Service Road	Green Road	East City Limits	Conversion to urban cross-section	2007-2011		
Oriole Avenue	South Service Road	Winona Road	Conversion to urban cross-section	2007-2011	\$1.08	A
Parkside Drive	Braeheid Avenue	East part of industrial section	Two-way Left-turn Lane	2012-2021	\$9.12	C
Parkside Drive	Hwy 6	Braeheid Avenue	Road Widening	2012-2021		
Pinelands Avenue	Community Avenue	South Service Road	Conversion to urban cross-section	2007-2011	\$0.65	A
Queen St	Cannon Street	Stuart Street	Road Narrowing	2012-2021	\$0.42	B
Regional Road 56	Community Core	North Limits	Road Widening and Two-way Left-turn Lane	2012-2021	\$21.72	C
Regional Road 56	Community Core	South Limits	Road Widening and Two-way Left-turn Lane	2012-2021		
Regional Road 56	South Limits of ROPA 9	Binbrook Road	Road Widening	2012-2021		
Regional Road 56	Rymal Road	Street M	Road Widening	2012-2021		
Rymal Road	Ryckmans Street	Trinity Church Road	Road Widening	2012-2021	\$39.55	C
Rymal Road	Trinity Church Road	Hwy 20	Road Widening	2012-2021		
Rymal Road	Garth Street	West 5th	Road Widening	2012-2021		
Rymal Road	Upper Paradise Road	Garth Street	Road Widening	2012-2021		
Rymal Road	former west Hamilton limits	Upper Paradise Road	Road Widening	2012-2021		
Rymal Road	West 5th Street	Upper James Street	Road Widening	2012-2021		
Scenic Drive	Old City limits	Lavender Drive South Leg	Two-way Left-turn Lane	2007-2011		

Road Name	From	To	Description of Works	Anticipated Timing	Total Project Costs (Millions)	EA Schedule
Seabreeze Crescent	Glover Road	McNeilly Road	Conversion to urban cross-section	2007-2011	\$1.35	A
Seaman Street	South Service Road	Dewitt Road	Conversion to urban cross-section	2007-2011	\$1.30	A
Shaver Road	Wilson Street	Garner Road	Two-way Left-turn Lane	2012-2021	\$4.08	C
Shaver Road	Hwy 403	Wilson Street	Conversion to urban cross-section	2012-2021		
South Service Road	Millen Road	Grays Road	Road Widening	2012-2021	\$6.44	C
Southcote Road	Golf Links Road	Garner Road	Road Widening	2012-2021	\$5.73	C
Springbrook Road	Meadowlands Blvd	Garner Road	Two-way Left-turn Lane	2012-2021	\$2.40	C
Stone Church Road	Pritchard Road	Winterberry Drive	Two-way Left-turn Lane	2012-2021	\$2.73	C
Stone Church Road	East of Garth Street	West 5th Street	Two-way Left-turn Lane	2007-2011	\$3.25	C
Stone Church Road	Upper Wellington Street	Upper James Street	Two-way Left-turn Lane	2007-2011		
Sulphur Springs Road	Wilson Street	Mansfield Drive	Conversion to urban cross-section	2012-2021	\$0.75	A
Sunnyhurst Avenue	Barton Street	North end	Conversion to urban cross-section	2012-2021	\$1.12	A
Teal Avenue	Garden Avenue	South Service Road	Conversion to urban cross-section	2012-2021	\$0.65	A
Trinity Church Road	Rymal Road	Golf Club Road	Conversion to urban cross-section	2012-2021	\$12.38	C
Trinity Church Road	Golf Club Road	Binbrook Road	Addition of Left turn lanes	2012-2021		
Trinity Church Road Extension	Rymal Road	Stone Church Road	New Road	2007-2011		
Trinity Neighbourhood / ROPA 9 Collector Road	Second Road West	Highland Road	New Road	2007-2011	\$2.23	
Trinity Road	1 km S of Wilson Street	Hwy 403	Road Widening	Beyond 2021	\$6.28	C
Twenty Road	Glancaster Road	Glover Road	Two-way Left-turn Lane	2012-2021	\$9.76	C
Twenty Road Extension	Glover Road	Trinity Church Road	New Road	2012-2021		
Upper Gage Avenue	Mohawk Road	Thorley Drive/Edwina Pl.	Two-way Left-turn Lane	2007-2011	\$2.40	C
Upper James Street	Rymal Road	Former South Hamilton Limits	Two-way Left-turn Lane	2012-2021	\$1.92	C
Upper Mount Albion Road	Rymal Road	Mud Street	Two-way Left-turn Lane	2012-2021	\$4.75	C
Upper Mount Albion Road	Rymal Road	Highland Road	Road Closure	2012-2021		
Upper Ottawa Street Extension	Former City Hamilton Limits	Twenty Road	New Road	2012-2021	\$2.05	C
Upper Sherman Avenue	Stone Church Road	Rymal Road	Two-way Left-turn Lane	2012-2021	\$4.67	C
Upper Sherman Avenue	Stone Church Road	Lincoln Alexander Parkway	Two-way Left-turn Lane	2007-2011		
Upper Wellington Street	Rymal Road	Stone Church Road	Two-way Left-turn Lane	2012-2021	\$5.63	C
Upper Wellington Street	Limeridge Road	Stone Church Road	Road Widening and Two-way Left-turn Lane	2012-2021		
<b>Waterdown New East-West Link</b>						
New East West Link/Hwy 6 (Waterdown)	West of Hwy 6	East of Hwy 6	Intersection Improvements	2012-2021	\$18.02	C
New East-West Link (north of Parkside)	Hwy 6	Churchill Avenue (at Parkside)	New Road	2012-2021		
New East-West Link/Centre St (Waterdown)	North of New East West Link	South of New East West Link	Intersection Improvements	2012-2021		

Road Name	From	To	Description of Works	Anticipated Timing	Total Project Costs (Millions)	EA Schedule
Parkside Drive	Churchill Avenue (at Parkside)	New N-S Link (East of Upcountry Boundary)	Road Widening	2012-2021		
New North-South Link (E of Upcountry Boundary)	Parkside Drive	Dundas Street	New Road	2012-2021		
Dundas Street/New North-South Link (Waterdown)	West of New N-S Link (Waterdown)	East of New N-S Link (Waterdown)	Intersection Improvements	2012-2021		
Dundas Street	New N-S Road (Waterdown South)	Hamilton Boundary	Road Widening	2012-2021		
<b>Waterdown Road</b>						
Waterdown Road	Mountain Brow Road	Hwy 403	Road Widening	2012-2021	\$18.20	C
Mountain Brow Road	Waterdown Road	New North-South Road	Road Widening	2012-2021		
New North-South Link (Waterdown South)	Mountain Brow Road	Dundas Street	New Road	2012-2021		
Weir's Lane	Hwy 8	Escarpment	Conversion to urban cross-section	2007-2011	\$2.81	A
Wellington St	Hunter Street	Young Street	Road Narrowing	2007-2011	\$0.31	B
West 5th Street	Stone Church Road	Rymal Road	Two-way Left-turn Lane	2012-2021	\$5.02	C
West 5th Street	Limeridge Road	Stone Church Road	Two-way Left-turn Lane	2012-2021		
Wilson Street	Hamilton Drive	just west of Halson Street	Road Widening	2012-2021	\$7.10	C
York Blvd / Wilson St	Bay Street	Wellington Street	Two-way conversion from one-way	2012-2021	\$2.28	C
<b>Total</b>					<b>\$418.19</b>	

**Exhibit A.2: Proposed On-Street Cycling Infrastructure, 2007-2021**

Facility	Cross Streets	Type	Length (km)	Estimated Cost	Timing
Barton Street	Locke Street - Wellington Street	BL	2.1	\$120,750	Short
Bond Street	Hatt Street - King Street W	BL	0.3	\$17,250	Short
Brock Road	Hwy 8 - 4th Concession Road	Shoulder	4.4	\$253,000	Long
Cannon Street	Sherman Avenue - Britannia Avenue	BL	2.9	\$166,750	Short
Caroline Street	York Blvd - Markland Street	BL	1.3	\$74,750	Short
Centre Road	Carlisle Road-Parkside Drive	Shoulder	8.6	\$494,500	Long
Dundas Street-Governor's Road	Cootes Drive - Castlewood Blvd	BL	2.9	\$166,750	Medium
Ferguson Avenue	Dock Service Road - Strachan Street	BL	1	\$57,500	Short
Ferguson Avenue	Barton Street - Hunter Street	BL	1.2	\$69,000	Short
Gage Avenue	Cumberland Avenue - Burlington Street	BL	2.6	\$149,500	Medium
Garner Road	Hwy 52 - Ancaster Boundary	Shoulder	8.2	\$471,500	Long
Hatt Street	Main Street - Bond Street	BL	1.6	\$92,000	Short
Hunter Street	Queen Street - Wellington Street	BL	1.7	\$97,750	Short
Hwy 8	Dewitt Road - Fruitland Road	Shoulder	0.8	\$46,000	Short
Hwy 8	Fruitland Road - Hamilton Boundary	Shoulder	6.2	\$356,500	Long
King Street E	Lawrence Road - Pontruff Road	BL	0.5	\$28,750	Medium
King Street E	Nash Road - Grays Road	BL	2.6	\$149,500	Medium
King Street W	Sterling Street - Macklin Street	BL	0.5	\$28,750	Short
King Street W	Dundurn Street - Caroline Street	BL	1.1	\$63,250	Short
King Street/Hwy 8	Bond Street - Brock Road	BL	1.7	\$97,750	Medium
Leander Drive, Guise Street, Dock Service Road		BL	1.1	\$63,250	Medium
Locke Street	Tecumseh Street - Herkimer Street	BL	1.8	\$103,500	Short
Longwood Road	King Street W - Aberdeen Avenue	BL	1.1	\$63,250	Short
Main Street	Parkside Drive-Flamboro Road	BL	1.7	\$97,750	Medium
Melvin Avenue	Shelby Avenue - Red Hill Valley Parkway	BL	2	\$115,000	Short
Millen Road	Frances Avenue - CN Rail	BL	0.8	\$46,000	Long
Mohawk Road	Lincoln Alexander Parkway - Rice Avenue	BL	1.5	\$86,250	Short
North Service Road	Jones Road - McNeilly Road	Shoulder	1.7	\$97,750	Short
Olympic Drive-York Road	Cootes Drive - Maryvale Avenue	Shoulder	5.3	\$304,750	Medium
Parkside Drive	Hollybush - Boulding	BL	3.3	\$189,750	Medium
Rymal Road	Ancaster Boundary - Trinity Church Road	BL	9.3	\$534,750	Medium
Scenic Drive	Mohawk Road - Ancaster Boundary	BL	1.4	\$80,500	Short
Sherman Avenue	Wilson Street - Cannon Street	BL	0.1	\$5,750	Medium
Southcote Road/Golf Links Road	Garner Road - Onondaga Road	Shoulder	2.5	\$143,750	Short
Stone Church Road	Garth Street - Upper Wellington Street	BL	2.5	\$143,750	Short
Stone Church Road	Pritchard Road - Winterberry Drive	BL	1.1	\$63,250	Short
Sulphur Springs Road/Lover's Lane	Mineral Springs Road - Jerseyville Road	Shoulder	2.4	\$138,000	Short
Trinity Church Road	Stone Church Road - Rymal Road	BL	1.1	\$63,250	Long

Facility	Cross Streets	Type	Length (km)	Estimated Cost	Timing
Twenty Road	Glancaster Road - Trinity Church Road	Shoulder	9.3	\$534,750	Long
Upper Sherman Avenue	Lincoln Alexander Pkwy - Rymal Road	BL	1.9	\$109,250	Medium
Upper Wellington Street	Lincoln Alexander Pkwy - Rymal Road	BL	1.9	\$109,250	Medium
Upper Wentworth Street	Concession Street - Mohawk Road	BL	2.1	\$120,750	Medium
West 5th Street	Limeridge Road - Rymal Road	BL	2.1	\$120,750	Medium
West 5th Street	Brantdale Avenue - Tyrone Drive	BL	2	\$115,000	Short
Wilson Street	James Street - Sherman Avenue	BL	2.6	\$149,500	Short
Wilson Street	Garner Road - Hwy 52	Shoulder	1.3	\$74,750	Long
Wilson Street W	Amberly Blvd - Fiddler's Green Road	BL	1.3	\$74,750	Long
Wilson Street W	Rousseaux Street - Halson Street	BL	0.8	\$46,000	Medium
Winterberry Drive	Mud Street - Paramount Drive	BL	0.4	\$23,000	Medium
Woodward Avenue	Melvin Avenue - Brampton Street	BL	1	\$57,500	Long
York Boulevard	Dundurn Street N - Burlington Boundary	BL	2.8	\$161,000	Short
York Boulevard	Dundurn Street N - James Street	BL	1.7	\$97,750	Short
<b>Total</b>				<b>\$7,136,000</b>	

**Notes**

- BL = On-street bike lane. In certain cases, such as some areas Downtown, there may be insufficient space for on-street bicycle lanes, and a lane in each direction will need to be specified as a 'Shared Lane' in order to accommodate bicycles.
- Shoulder = Paved shoulder.
- Short-term = present-2011
- Medium-term = 2012-2016
- Long-term = 2017-2021
- Costs are estimated based on an average unit cost of \$57,500/km, which assumes 25% of improvements require street widening, while the remainder require little work beyond changes in signage and pavement markings. The Cycling Network Strategy also presents cost estimates assuming 50% of improvements require street widening, corresponding to an average unit cost of \$95,000/km.