

Pottstown: Community Profile

- Population 22,377
- Median household income of \$40,467
- 11% of Borough population below poverty level
- 13% of population 65+
- 65% of Pottstown School District are economically disadvantaged
 - Economic disadvantages linked to health outcomes:
 - Pottstown Area Health and Wellness Foundation Needs Assessment (2008), "Pottstown Borough residents are more likely to be obese, less likely to engage in vigorous exercise, and their school aged children are twice as likely to be overweight than in the outer Pottstown area."
- 5.2 square miles
- Historic, urban, high density of housing and development
- Pottstown has lost jobs, residents, and industry since its manufacturing heyday in the 1950's, strong efforts of Borough and community groups to promote economic development

Project Team



Borough of Pottstown



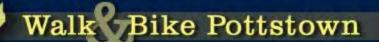
Pottstown School District



Traffic Planning and Design



Simone Collins Landscape Architecture



Project Funding

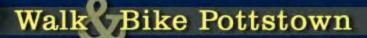
- Pottstown Health and Wellness Foundation
- Federal Transportation
 Alternatives Program (TAP)
- PennDOT
- supported by DVRPC;
 Montgomery County
 Commissioners and staff;
 legislators; and other
 partners









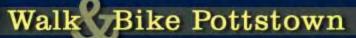


Building on Existing Assets

- Historic town with a compact and walkable layout
- Prime location on Schuylkill River Trail
- Successful bike share
- Neighborhood schools
- Walking School Bus







Project Goals

- Create a network of bicycle and pedestrian friendly routes through Pottstown
- Provide safe routes to schools and other destinations throughout Pottstown
- Strengthen connections between Pottstown and the regional trail network



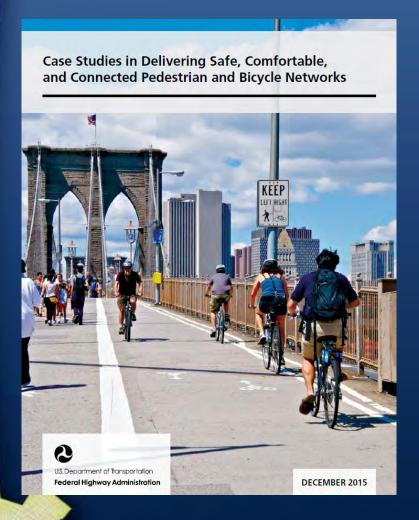
Designing for All Users





The bicycle network improvements should be designed for a wide range of potential users.

Bicycle Networks



"A well-connected pedestrian and bicyclist network recognizes that trips vary in purpose and nature."

Bicycle Network Principles

- Cohesion How connected is the network in terms of its concentration of destinations and routes?
- Directness Does the network provide direct and convenient access to destinations?
- Accessibility How well does the network accommodate travel for all users, regardless of age or ability?
- Alternatives Are there a number of different route choices available within the network?
- Safety and Security Does the network provide routes that minimize risk of injury, danger, and crime?
- Comfort Does the network appeal to a broad range of age and ability levels and is consideration given to user amenities?



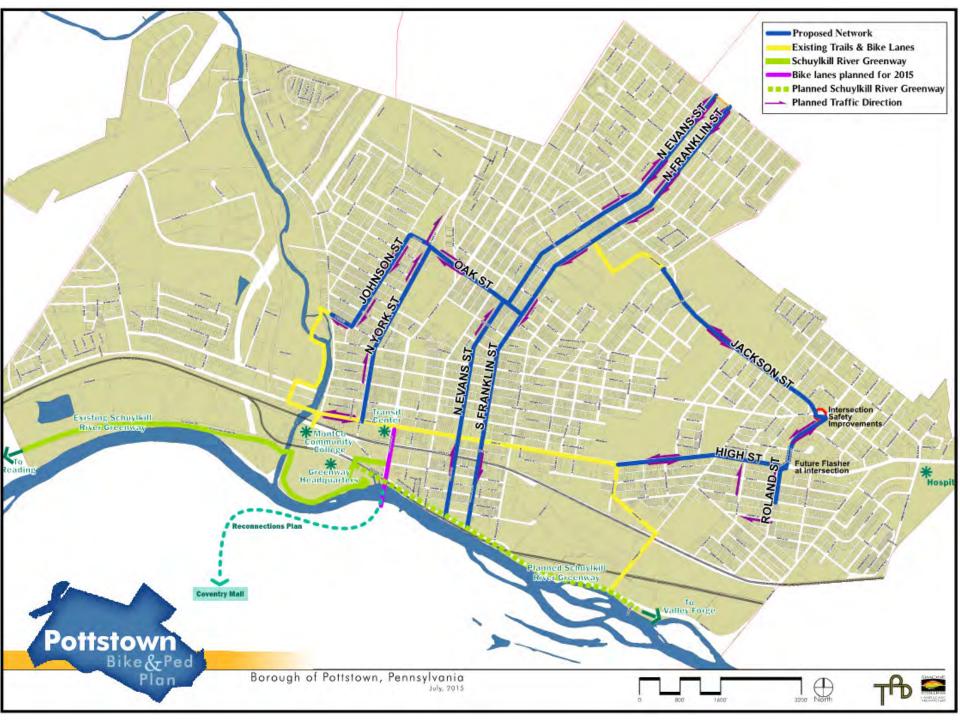












Guide for the Development of Bicycle Facilities

2012 • Fourth Edition



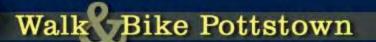


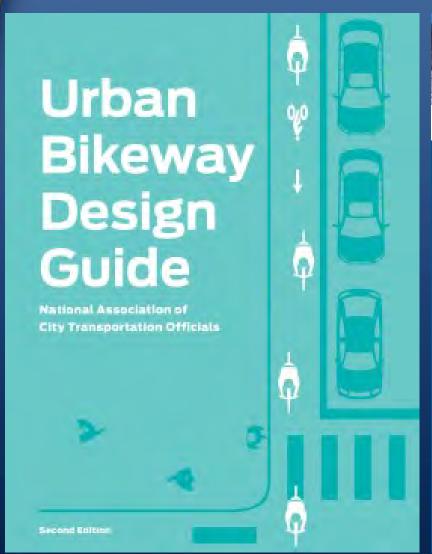














SMART TRANSPORTATION G U I D E B O O K

Planning and Designing Highways and Streets that Support Sustainable and Livable Communities





MARCH 2008

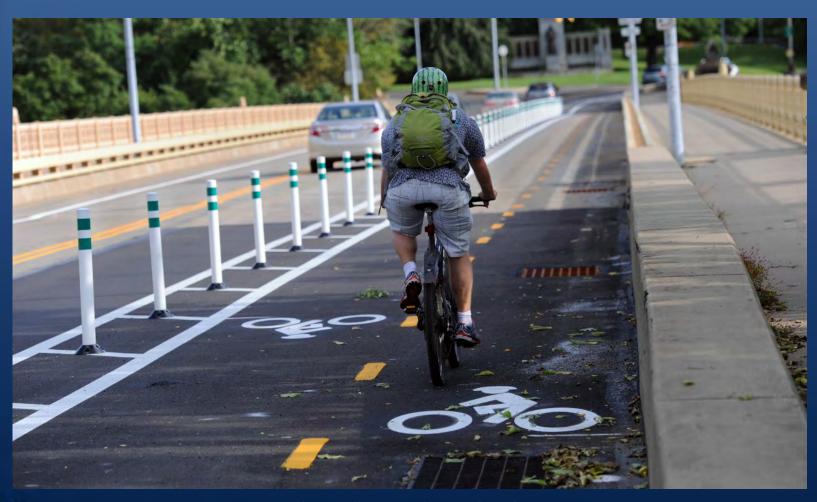


Conventional Bike Lanes



Existing High Street Bike Lanes

Separated Bike Lanes

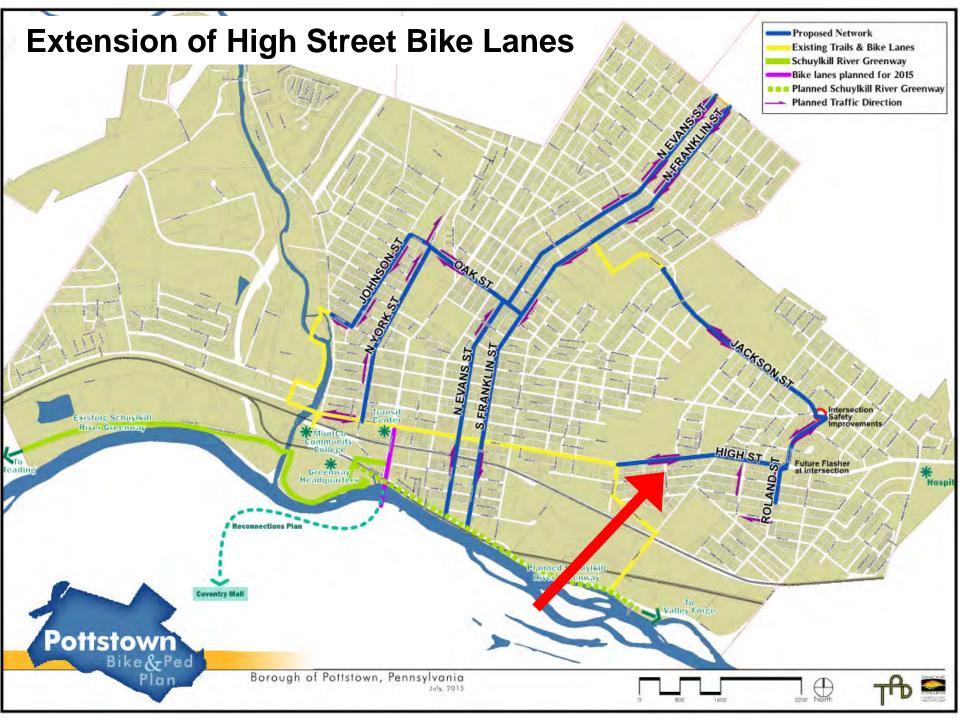


Panther Hollow Road – Pittsburgh, PA Photo by John Heller/Pittsburgh Post-Gazette

Shared Lane Markings

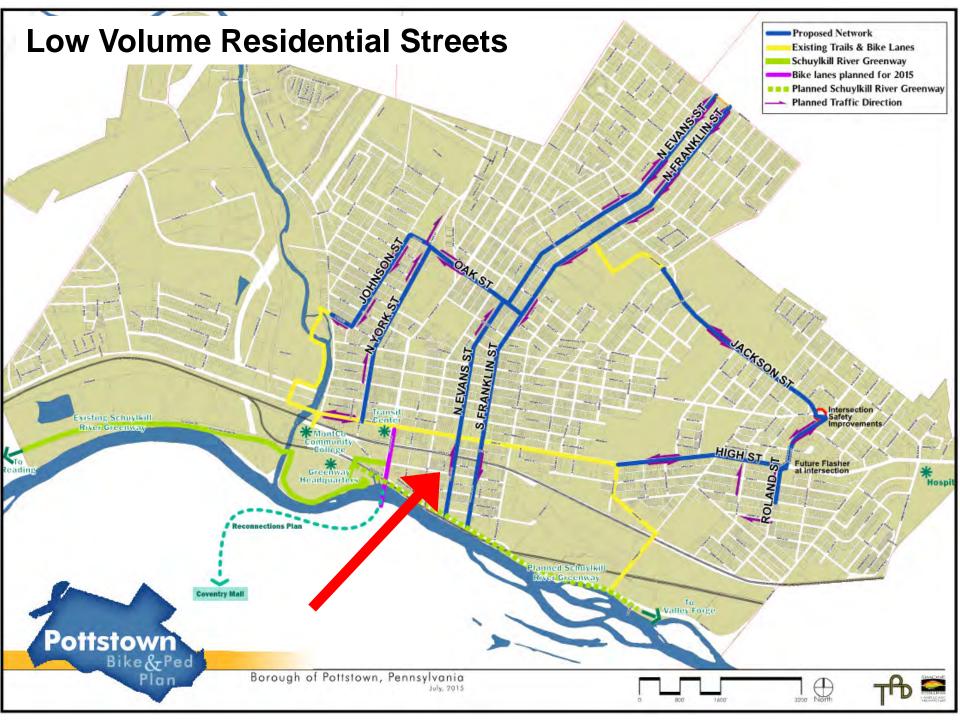


Photo via Seattle Department of Transportation





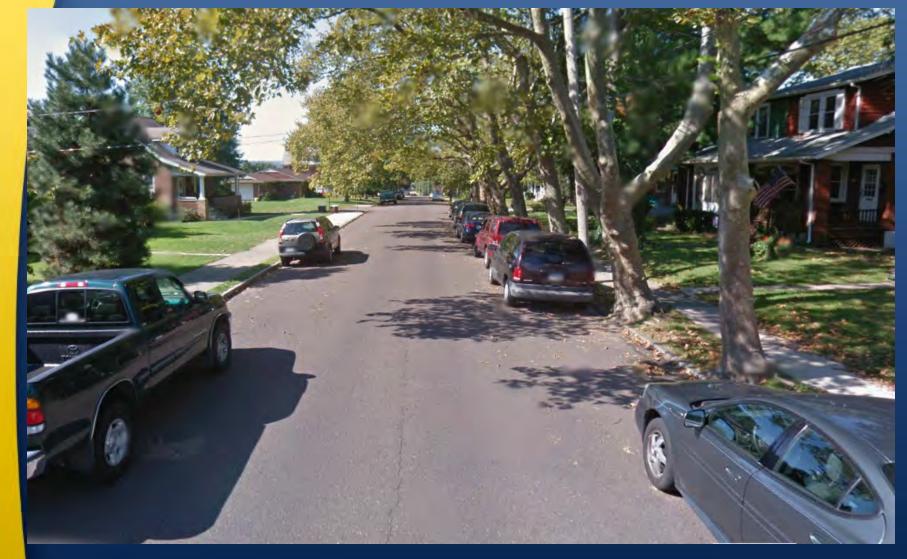
Extension of High Street Bike Lanes



Low Volume Residential Streets

- Network includes six miles of low volume residential streets
- Minimize loss of on-street parking spaces
- Considered bike lanes or shared lane markings





Franklin Street





Bike Lane Alternative



For 28-foot wide street:

- 7-foot parking lane
- 5-foot bike lane
- 9-foot travel lane
- 7-foot parking lane

Bike Lane Alternative

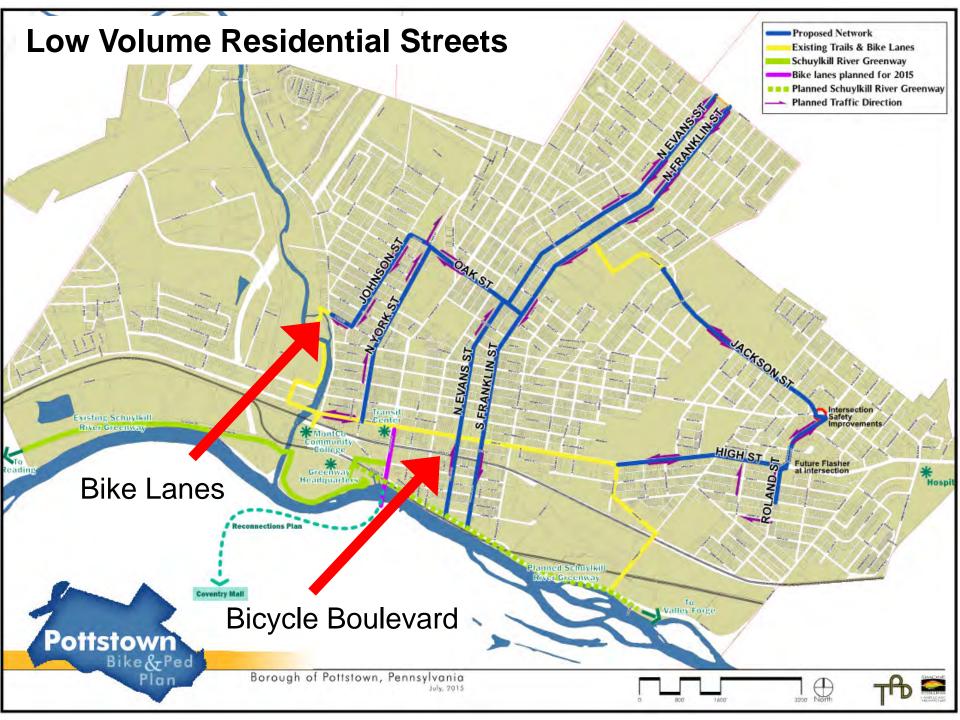


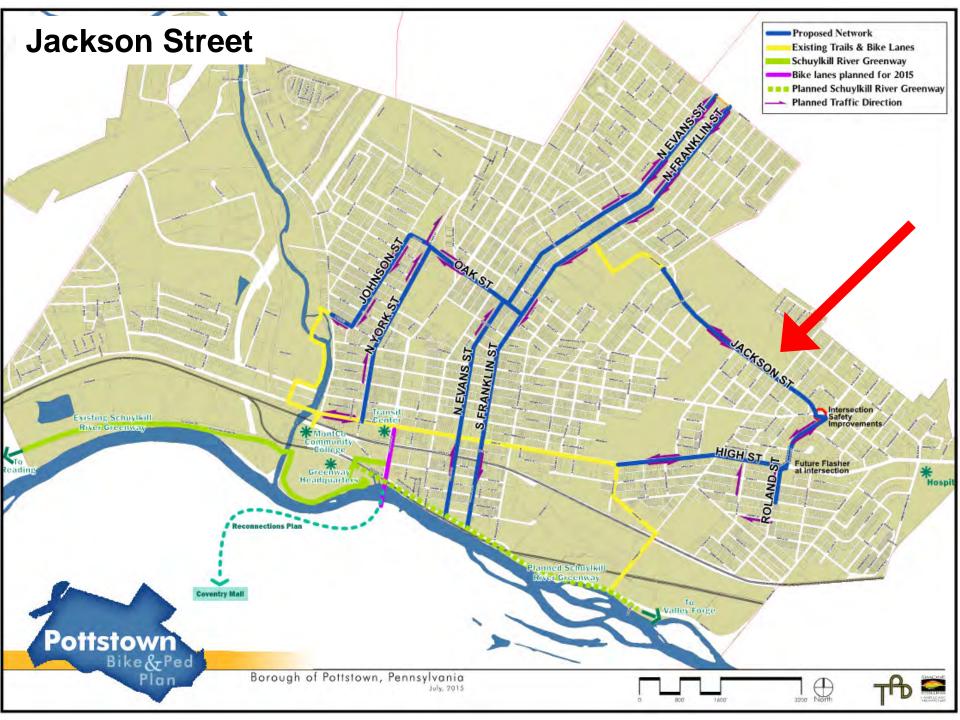
Shared Lane Alternative

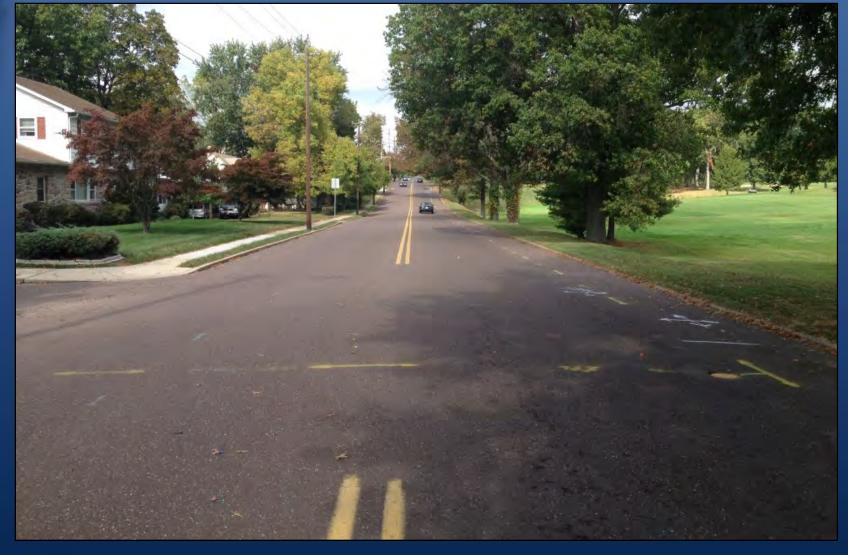
Bicycle Boulevards

- Low-speed streets designed to give bicycle travel priority
- Maximum posted speed of 25 mph
- Traffic volumes under 1,500 vehicles/day
- Also known as neighborhood greenway









Jackson Street





Two-Way Separated Bike Lane (Cycle Track)

Two-Way Separated Bike Lane

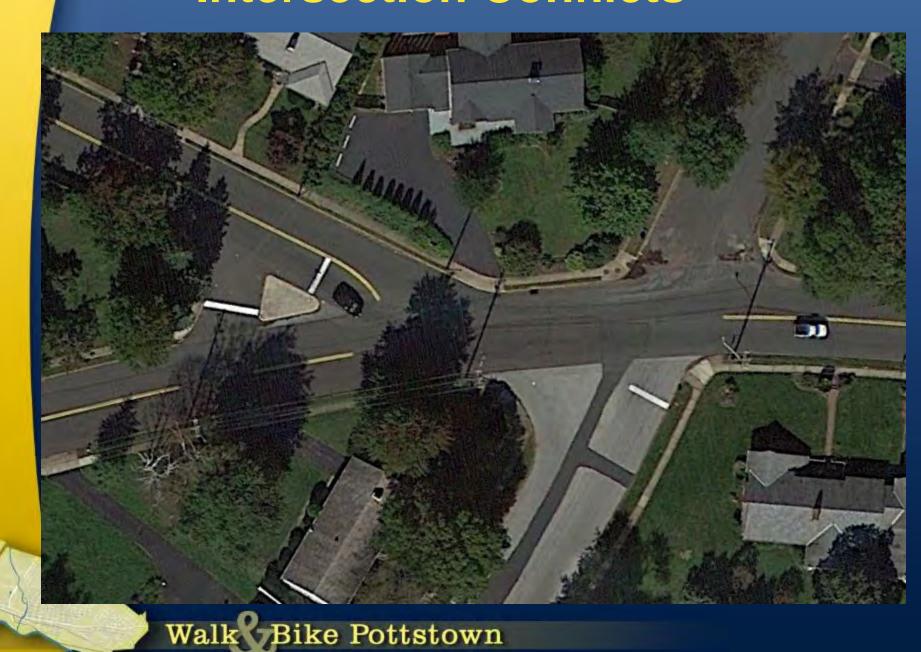
- Provides separation from traffic
- Traffic calming benefit
- Minimal number of intersection conflicts on Jackson Street



Bluebonnet Lane – Austin, TX Photo via peopleforbikes.org



Intersection Conflicts



Intersection Conflicts



Maintenance Challenges

- Snow removal from separated bike lane
- Potential thaw/ refreeze issues
- Delineator replacement
- Street sweeping/ debris removal



Questions?





Abington Township Master Bicycle Plan

Bicycling Beyond the Big Cities: Enhancing On-Road Cycling in Small Towns and Suburban Communities

Project Consultants

Simone Collins Landscape Architecture

Planners and Landscape Architects

Peter Simone

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Geoff Creary

gcreary@simonecollins.com 610-239-7601

Traffic Planning & Design, Inc.

Transportation Engineers

Ben Guthrie

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Township Contact

Scott Marlin

smarlin@abington.org 267-536-1044



Simone Collins Landscape Architecture

Over 100 trail & greenway projects

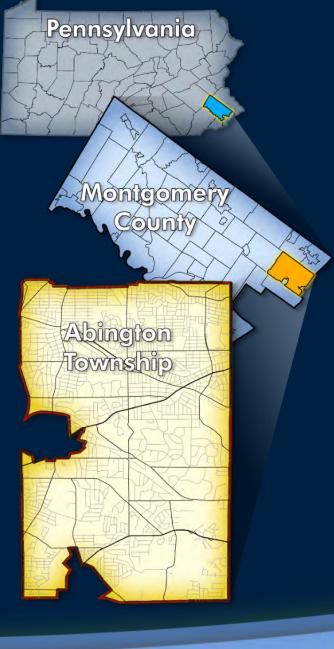




Abington Township

- 15 Square Miles
- Population of 55,310
- 1st Class Township



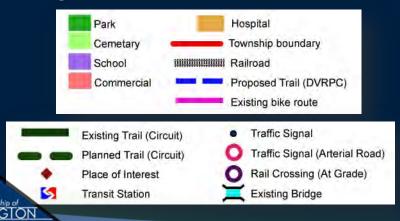


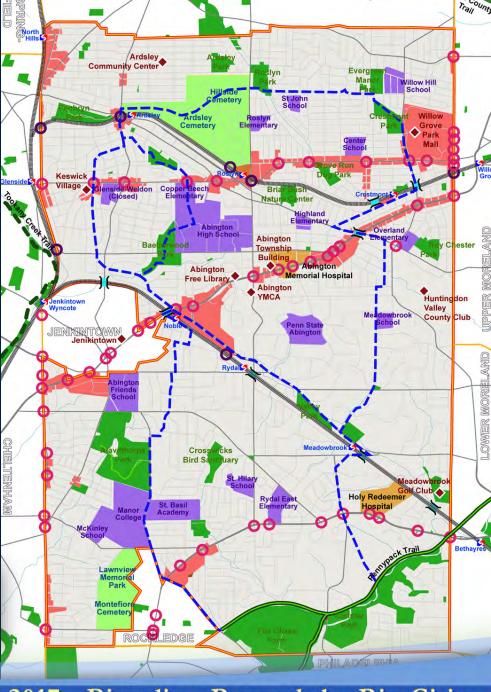
PA-APA 2017 - Bicycling Beyond the Big Cities



Township Features & Destinations

- Transit Stations
- Schools
- Parks and Open Space
- Cemeteries
- Hospitals
- Commercial Areas
- Other important destinations
- Existing Trails
- Proposed Trail









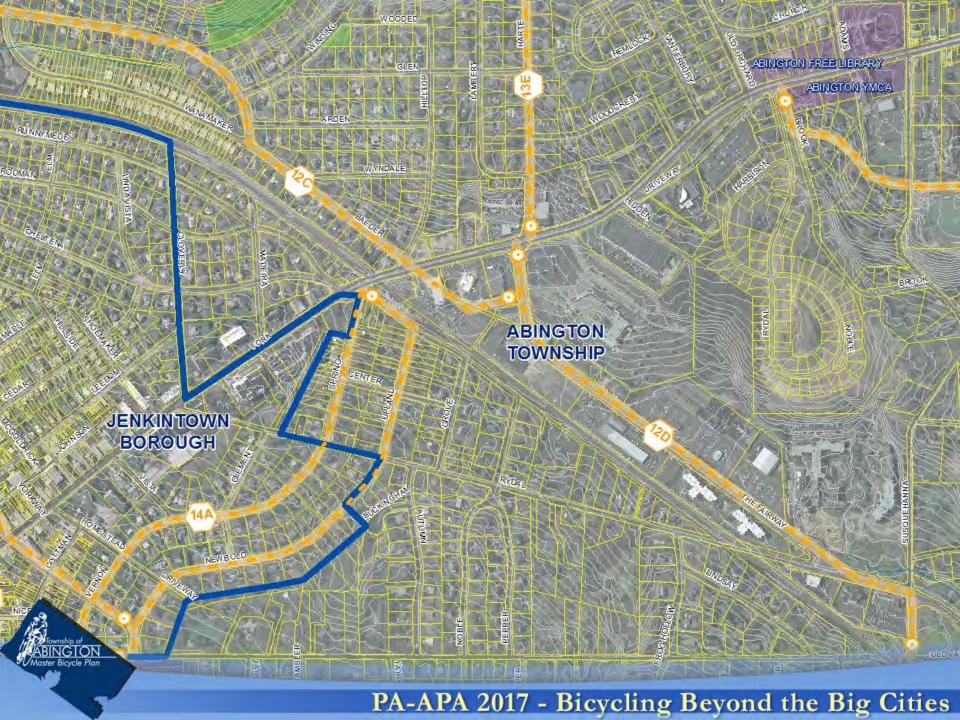
Windshield survey

Public Process

- 4 Public Meetings
- 2 Board of Commissions Meetings
- 6 Committee Meetings
- 4 Township Staff Meetings







Detailed Site Investigation





PA-APA 2017 - Bicycling Beyond the Big Cities

Guide for the Development of Bicycle Facilities

2012 · Fourth Edition





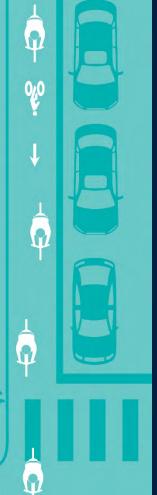






National Association of City Transportation Officials





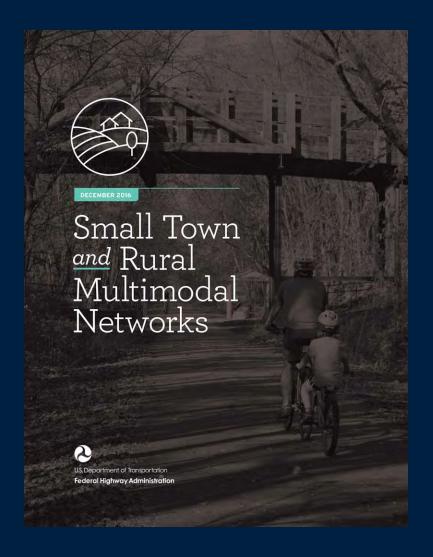


Pennsylvania Trail Design & Development Principles

Guidelines for Sustainable, Non-motorized Trails













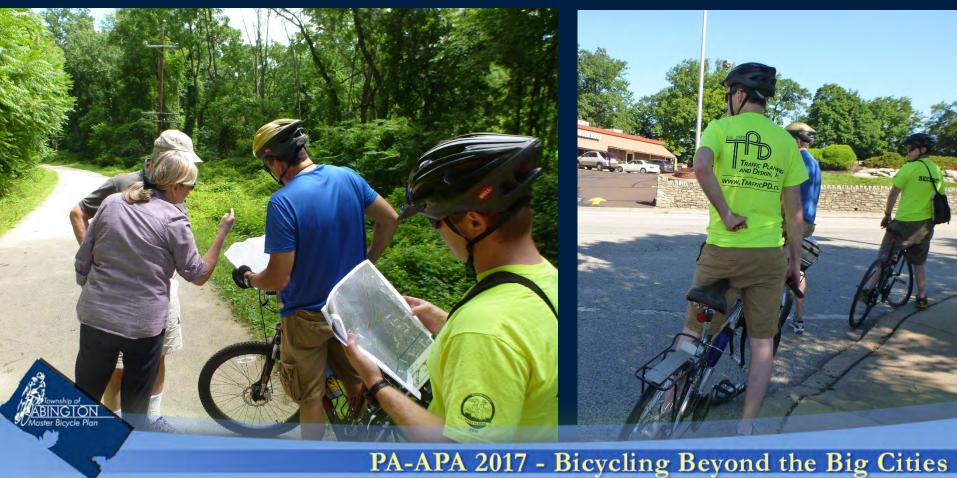




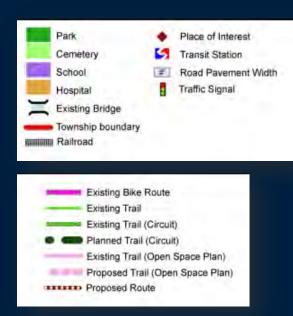


Go for a ride!

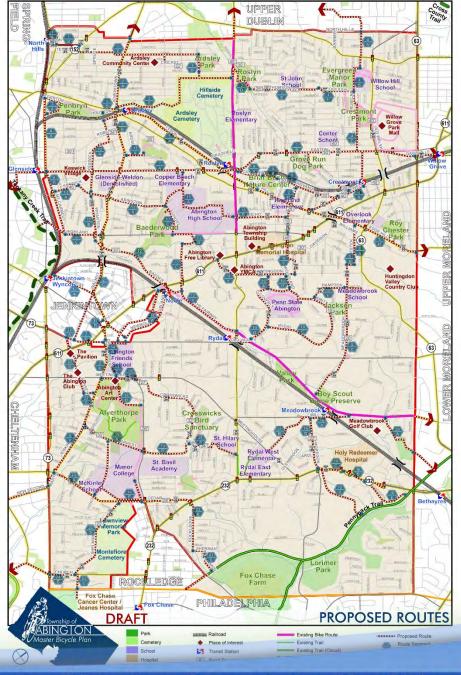


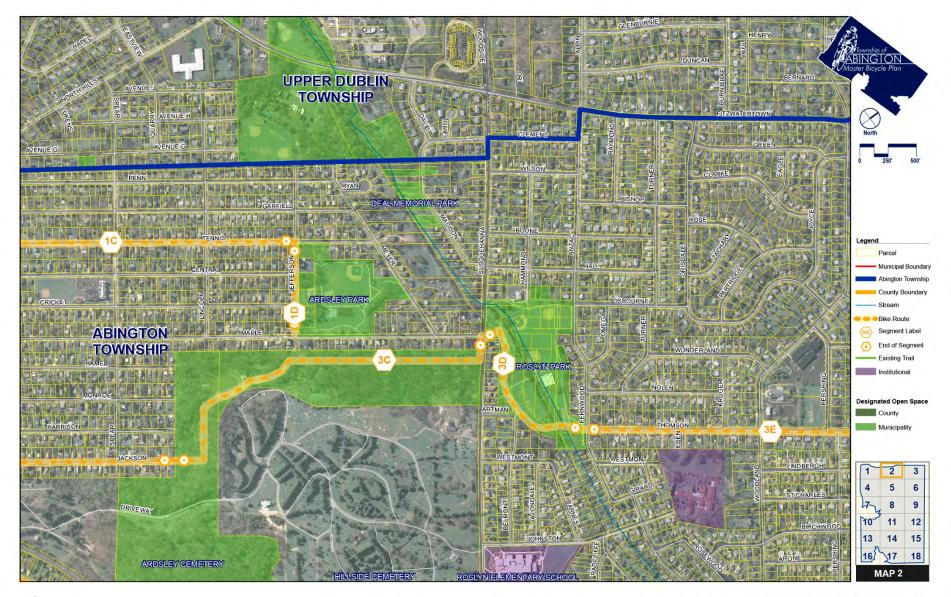


Proposed Routes (draft)



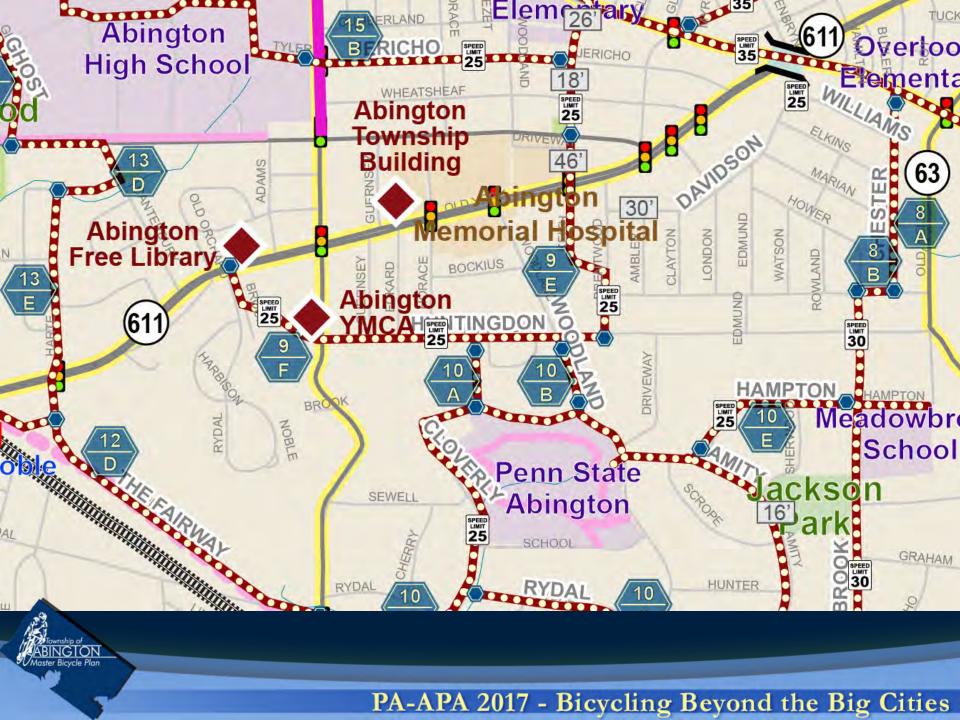




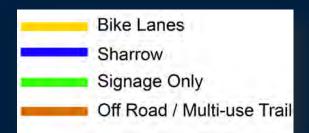


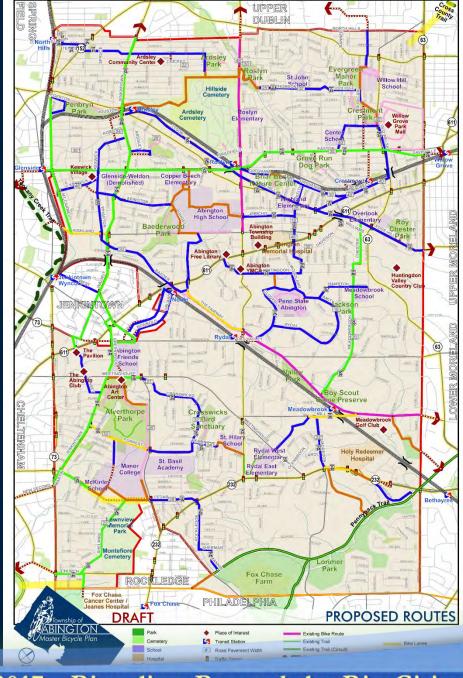


Abington Township Master Bicycle Plan - 61

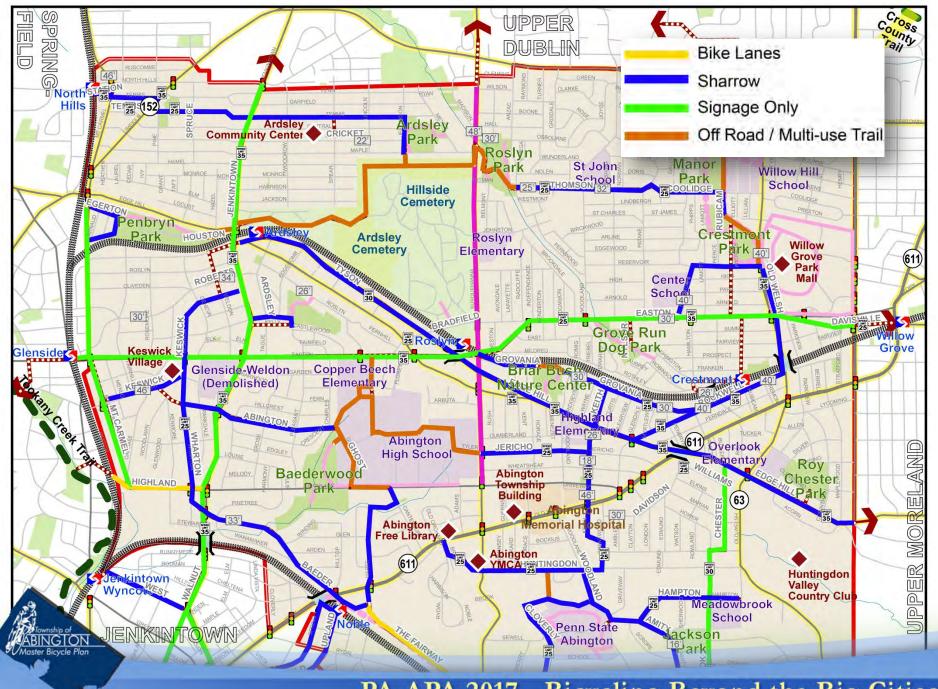


Route Type Mapping

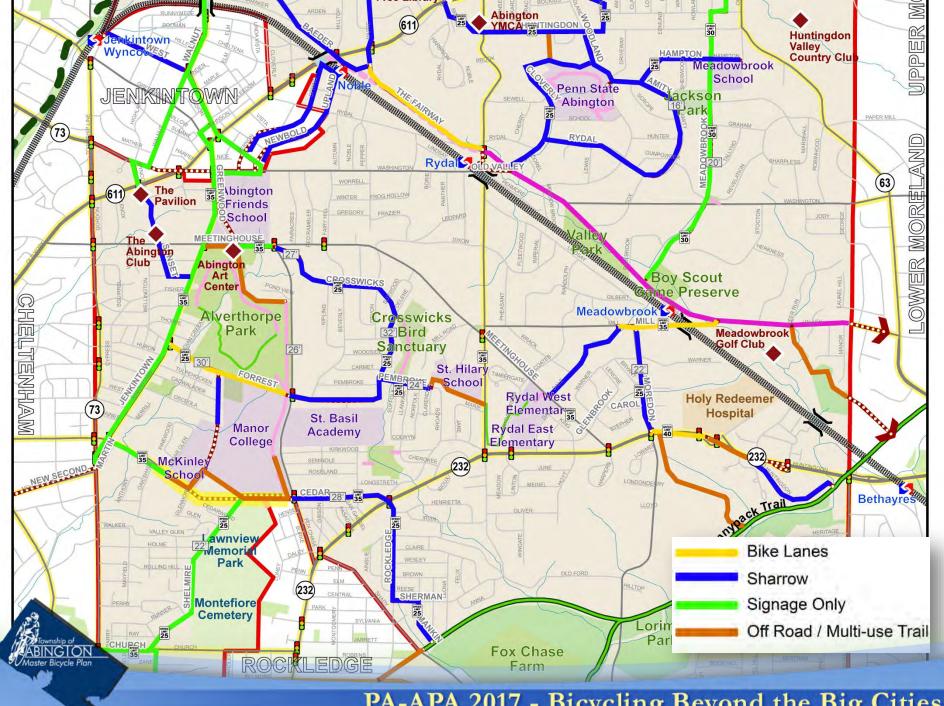








PA-APA 2017 - Bicycling Beyond the Big Cities



PA-APA 2017 - Bicycling Beyond the Big Cities

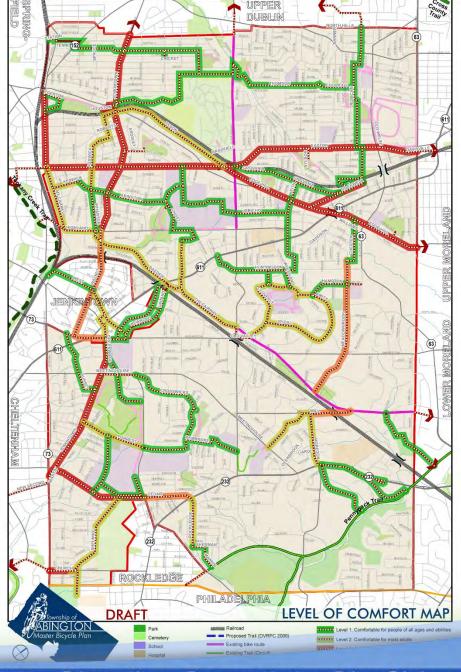
Level of Comfort

Level 1: Comfortable for people of all ages and abilities

Level 2: Comfortable for most adults

Level 3: Comfortable for many experienced cyclists

Level 4: Comfortable for experienced and confident cyclists



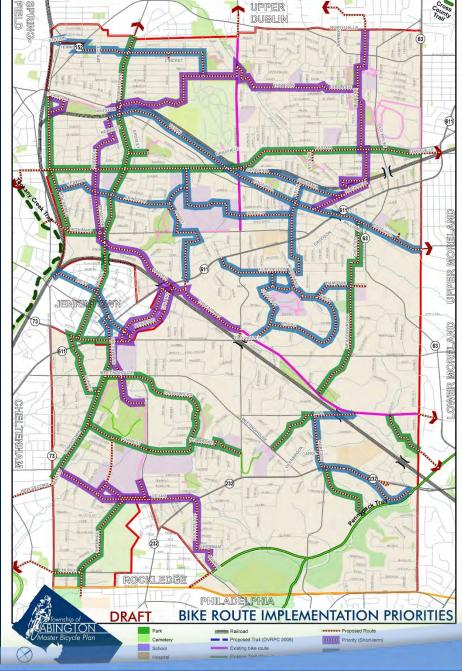


Priority Routes

Priority (Short-term)

Priority (Mid-term)

Priority (Long-term)

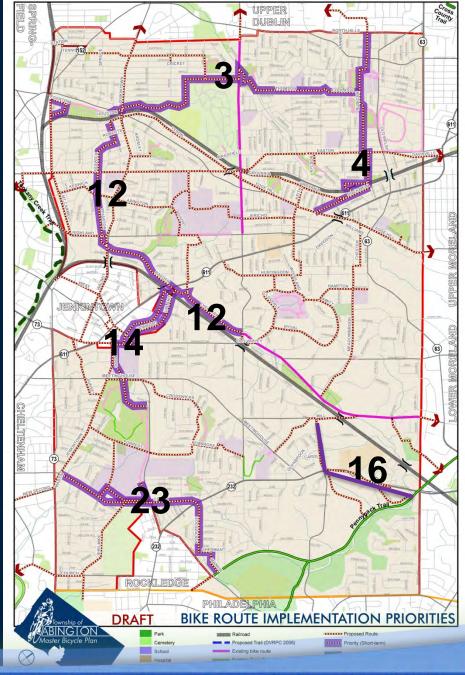




High (short-term) Priority Routes

- 3 Link Penbyn Park, Ardsley Station, Roslyn Park & Crestmont Parks \$1M
- 4, 12 Connect Valley Road to Crestmont Park / future Cross County Trail \$300K
- 14 Noble Train Station to Friends School and Averthorpe Park \$930K
- 16 Meadowbrook Station to east end of Pennypack Trail \$839K
- 23 Manor College area to west end of Pennypack Trail and Fox Chase Farm \$26K
- ... & Incorporate other on-road routes with Township road repaving schedules.





Proposed Route Lengths

Off Road Routes:

Class 1 - Share Use Paths

5 Miles

On Road Routes:

Class 2 – Designated Bike Lanes:

2 Miles

Class 3 – Marked Shared Lanes:

27 Miles

(Sharrow Pavement markings)

Class 3 – Signed Shared Lanes:

14 Miles

(Share the road and bike route signage only)

Total:

47 Miles



Cost Estimates

ent ID F	ABLE DEVELOPMENT	Road Name	Description	Roadway Ownership	Length	Proposed Improvements	QTY	UNIT	UNIT COST	TOTAL	
ent ID F	Priority	Road Name	Description	Koadway Ownership	(LF)						
		Rubicam Avenue	Coolidge Avenue to Washington Avenue	Township	4,300	Pavement Markings (Share the Road)	34	EA	\$300	\$10,200	Share the Road striping (250-foot spacing)
		Shared Lane Markings				Signage: W16-1 Share the Road	4	EA	\$80	\$320	Post mounted, supplement to sharrows as needed
						Signage: W11-1 Bicycle Crossing	2	EA	\$165	\$330	Post mounted at major intersections, both directions
						Signage: Wayfinding (Confirmation Signs)	0	EA	\$200	\$0	Post mounted every 1300-2600 feet along staight segments
						Signage: Wayfinding (Turn Signs)	2	EA	\$200	\$400	Post mounted where route turns from one street onto anot
						Signage: Wayfinding (Decision Signs)	0	EA	\$200 SUBTOTAL	\$0 \$11,250	Post mounted, marks junction of two bikeways
		Washington Avenue/Hamilton Avenue	Rubicam Avenue to Rockwell Road	Township	1,865	Pavement Markings (Share the Road)	14	EA EA	\$300	\$4,200 \$0	Share the Road striping (250-foot spacing) Post mounted, supplement to sharrows as needed
ΔF		Shared Lane Markings				Signage: W16-1 Share the Road	0	EA	\$165	\$0	Post mounted at major intersections, both directions
						Signage: W11-1 Bicycle Crossing Signage: Wayfinding (Confirmation Signs)	0	EA	5200	50	Post mounted at major intersections, both directions Post mounted every 1300-2600 feet along staight segment
						Signage: Wayfinding (Turn Signs)	2	EA	\$200	\$400	Post mounted where route turns from one street onto and
						Signage: Wayfinding (Decision Signs)	o	EA	\$200	\$0	Post mounted, marks junction of two bikeways
						Signage. Waythong (Decision Signs)		LA	SUBTOTAL	\$4,600	Post mounted, marks juricular of two diversals
		Rockwell Road	A LOUIS AND A PARTIE OF		2.025				\$300	\$6,600	
			Rubicam Avenue to Edge Hill Road	Township	2,825	Pavement Markings (Share the Road)	22	EA	\$80		Share the Road striping (250-foot spacing)
		Shared Lane Markings				Signage: W16-1 Share the Road Signage: W11-1 Bicycle Crossing	0	EA	\$80 \$165	\$160 \$0	Post mounted, supplement to sharrows as needed Post mounted at major intersections, both directions
						Signage: Wayfinding (Confirmation Signs)	0	EA	5200	50	Post mounted at major intersections, both directions Post mounted every 1300-2600 feet along staight segmen
						Signage: Wayfinding (Confirmation Signs)	2	EA	5200	\$400	Post mounted every 1300-2000 reet along staight segment Post mounted where route turns from one street onto and
						Signage: Wayfinding (Decision Signs)	2	EA	\$200	\$400	Post mounted, marks junction of two bikeways
						Salast Hayman (Second Sp. 5)	-	-	SUBTOTAL	\$7,560	
		Tyson Ave	Weeldon Avenue to Edge Hill Road	PennDOT	9.530	Pavement Markings (Share the Road)	68	EA	\$300	\$20,400	Share the Road striping (250-foot spacing)
		Shared Lane Markings	Western Avenue to Edge till Node	rembot	0,320	Signage: W16-1 Share the Road	6	EA	580	\$480	Post mounted, supplement to sharrows as needed
		Shares care marings				Signage: W11-1 Bicycle Crossing	4	EA	\$165	\$660	Post mounted at major intersections, both directions
6						Signage: Wayfinding (Confirmation Signs)	0	EA	\$200	50	Post mounted every 1300-2600 feet along staight segmen
						Signage: Wayfinding (Turn Signs)	0	EA	\$200	SO	Post mounted where route turns from one street onto and
						Signage: Wayfinding (Decision Signs)	4	EA	\$200	\$800	Post mounted, marks junction of two bikeways
						9			SUBTOTAL	\$22,340	
		Edge Hill Road	Tyson Avenue to Township Boundary	PennDQT	8.075	Pavement Markings (Share the Road)	64	FΔ	\$300	\$19.200	Share the Road striping (250-foot spacing)
		Shared Lane Markings	No. of the last of			Signage: W16-1 Share the Road	8	EA	\$80	\$640	Post mounted, supplement to sharrows as needed
			_			Signage: W11-1 Bicycle Crossing	2	EA	\$165	\$330	Post mounted at major intersections, both directions
						Signage: Wayfinding (Confirmation Signs)	6	EA	\$200	\$1,200	Post mounted every 1300-2600 feet along staight segmen
						Signage: Wayfinding (Turn Signs)	0	EA	\$200	\$0	Post mounted where route turns from one street onto and
						Signage: Wayfinding (Decision Signs)	6	EA	\$200 SUBTOTAL	\$1,200	Post mounted, marks junction of two bikeways
						The State of the S		-	SUBIUTAL	\$22,570	the second section of the second section is a
		Mt Carmel Ave	Edgerton Ave to Roberts Ave	PennDOT	3,245	Signage: Wayfinding (Confirmation Signs)	4	EA	\$200	\$800	Post mounted, every 1300-2600 feet along staight segmen
		Wayfinding Signage Only				Signage: Wayfinding (Turn Signs)	0	EA	\$200 \$200	\$0 \$400	Post mounted Post mounted, marks junction of two bikeways
						Signage: Wayfinding (Decision Signs)	2	EA	SUBTOTAL	\$1,200	Post mounted, marks junction of two bikeways
		OU CHANGE		Torrest -	4.75			- 1			
		Mt Carmel Ave	Roberts Ave to Highland Ave	Township	3,360		4	EA	\$200	\$800	Post mounted, every 1300-2600 feet along staight segmen
		Wayfinding Signage Only				Signage: Wayfinding (Turn Signs)	0	EA	\$200	\$0 \$800	Post mounted
						Signage: Wayfinding (Decision Signs)	4	EA	\$200 SUBTOTAL	\$1,600	Post mounted, marks junction of two bikeways
		- Contract		72000	1.745	TICTOR	-	-	\$17	\$0	
		Highland Ave Bike Lanes	Mt Carmel Ave to Jenkintown Road	Township	1,745	Asphalt shoulder modifications 4" White Epoxy Pavement Markings	3.490	SY	\$17 \$1.20	\$4,188	
		DINE LANES				Hot Thermoplastic Paint Legend, Bicycle w/ Arrow	18	EA	\$275	\$4,188	
						Signage: R3-17 Bike Lane	4	EA	\$80	\$320	Post mounted, supplement to pavement markings as need
						Signage: W11-1 Bicycle Crossing	4	EA	\$165	\$660	Post mounted, at major intersections, both directions
							4	EA	\$200	\$800	Post mounted, every 1300-2600 feet along staight segmen
						Signage: Wayfinding (Confirmation Signs)			\$200	SO	Post mounted
						Signage: Wayfinding (Confirmation Signs) Signage: Wayfinding (Turn Signs)	0	EA			
								EA	\$200	\$400	Post mounted, marks junction of two bikeways
						Signage: Wayfinding (Turn Signs)	0				Post mounted, marks junction of two bikeways
		Easton Road	Mt. Carmel Avenue to Independence Ave	Township	10,330	Signage: Wayfinding (Turn Signa) Signage: Wayfinding (Decision Signa) Signage: Wayfinding (Confirmation Signa)	0 2 8	EA	\$200 SUBTOTAL \$200	\$400 \$11,318 \$1,600	Post mounted, every 1300-2600 feet along staight segmen
		Eacton Road Wayfinding Signage Only	Mt. Carmel Avenue to Independence Ave	Township	10,330	Signage: Wayfinding (Turn Signs) Signage: Wayfinding (Decision Signs) Signage: Wayfinding (Confirmation Signs) Signage: Wayfinding (Turn Signs)	0 2 8 0	EA EA	\$200 SUBTOTAL \$200 \$200	\$400 \$11,318 \$1,600 \$0	Post mounted, every 1300-2600 feet along staight segmer Post mounted
			Mt. Carmel Avenue to Independence Ave	Township	10,330	Signage: Wayfinding (Turn Signa) Signage: Wayfinding (Decision Signa) Signage: Wayfinding (Confirmation Signa)	0 2 8	EA	\$200 \$UBTOTAL \$200 \$200 \$200 \$200	\$400 \$11,318 \$1,600 \$0 \$1,600	Post mounted, every 1300-2600 feet along staight segmen
			Mt. Carmel Avenue to Independence Ave	Township	10,330	Signage: Wayfinding (Turn Signs) Signage: Wayfinding (Decision Signs) Signage: Wayfinding (Confirmation Signs) Signage: Wayfinding (Turn Signs)	0 2 8 0	EA EA	\$200 SUBTOTAL \$200 \$200	\$400 \$11,318 \$1,600 \$0	Post mounted, every 1300-2600 feet along staight segmer Post mounted
			Mt. Carmel Avenue to Independence Ave	Township Township	10,330	Signage: Wayfinding (Turn Signa) Signage: Wayfinding (Decision Signa) Signage: Wayfinding (Confirmation Signa) Signage: Wayfinding (Turn Signa) Signage: Wayfinding (Decision Signa)	0 2 8 0	EA EA	\$200 \$UBTOTAL \$200 \$200 \$200 \$200	\$400 \$11,318 \$1,600 \$0 \$1,600	Post mounted, every 1300-2600 feet along staight segmen Post mounted Post mounted, marks junction of two bikeways
		Wayfinding Signage Only				Signage: Wayfinding (Turn Signs) Signage: Wayfinding (Decision Signs) Signage: Wayfinding (Confirmation Signs) Signage: Wayfinding (Turn Signs)	0 2 8 0 8	EA EA EA	\$200 SUBTOTAL \$200 \$200 \$200 SUBTOTAL	\$400 \$11,318 \$1,600 \$0 \$1,600 \$3,200	Post mounted, every 1300-2600 feet along staight segmen Post mounted
O.A.		Wayfinding Signage Only Easten Road				Signage: Wayfinding (Turn Signa) Signage: Wayfinding (Decision Signa) Signage: Wayfinding (Confirmation Signa) Signage: Wayfinding (Turn Signa) Signage: Wayfinding (Decision Signa) Signage: Wayfinding (Decision Signa)	0 2 8 0 8	EA EA EA	\$200 SUBTOTAL \$200 \$200 \$200 SUBTOTAL	\$400 \$11,318 \$1,600 \$0 \$1,600 \$3,200 \$2,400	Post mounted, every 1300-2600 feet along staight segmen Post mounted Post mounted, marks junction of two bikeways Post mounted, every 1300-2600 feet along staight segmen

Cost Estimate - Summary

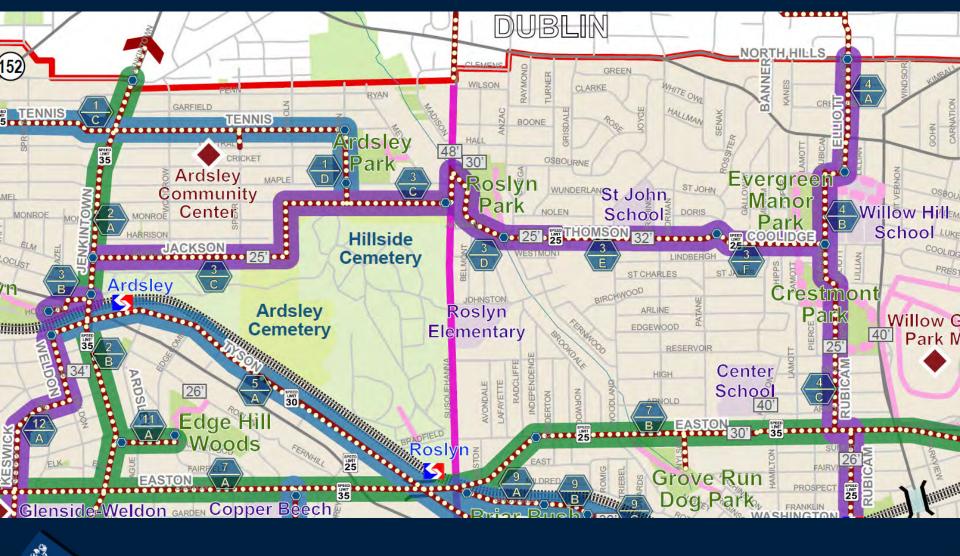
							_	SUBTOTAL	\$2,000	
248	Church Road Wayfinding Signage Only	Shelmire Street to Township Line Road	Township	1,300	Signage: Wayfinding (Confirmation Signs) Signage: Wayfinding (Turn Signs)	0 2	EA EA	\$200 \$200	\$0 \$400	Post mounted, every 1300-2600 feet along staight segments Post mounted
					Signage: Wayfinding (Decision Signs)	1	EA	\$200 SUBTOTAL	\$200 \$600	Post mounted, marks junction of two bikeways
								SUBTUTAL	2000	
24C	Shelmire Street Wayfinding Signage Only	Shelmire Street to Township Line Road	Township	1,000	Signage: Wayfinding (Confirmation Signs) Signage: Wayfinding (Turn Signs)	0 2	EA EA	\$200 \$200 \$200	\$0 \$400 \$0	Post mounted, every 1300-2600 feet along staight segments Post mounted Post mounted, marks junction of two bikeways
					Signage: Wayfinding (Decision Signs)	0	EA	SUBTOTAL	\$400	Post mounted, marks junction of two bixeways
Key							OWNSHIP ON OWNSHIP OFF		\$931,800 \$3,471,430	
Short-term Priority Mid-term Priority Long-term Priority						i i		Subtotal Contingency (20%) ingineering (20%) TOTAL	\$4,403,232.20 \$880,646.44 \$880,646.44 \$6,164,525.08	14 14

Off Road Routes (Shared Use Paths)	\$3,471,430
Bike Lanes	\$ 403,252
Share the Road (Sharrows)	\$ 503,150
Bike Routes (signage only)	\$ 25,400
Contingency (20%)	\$ 880,646
Design & Engineering (20%)	\$ 880,646
Grand Total	\$6,164,525





TAP Grant





Simone Collins Landscape Architecture

Planners and Landscape Architects

Geoff Creary gcreary@simonecollins.com 610-239-7601

