Advancing a Complete Streets Agenda

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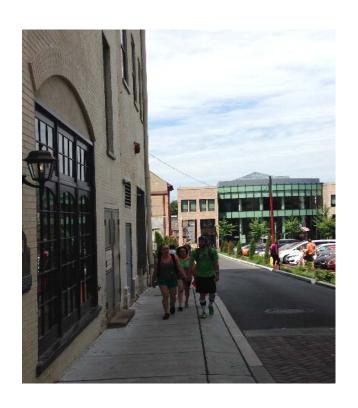


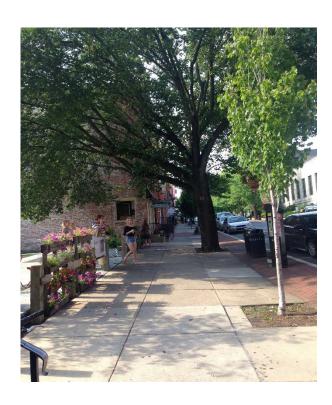
PLANNING COMMISSION

May 25, 2017 CS Workshop

Why build a Complete Street?

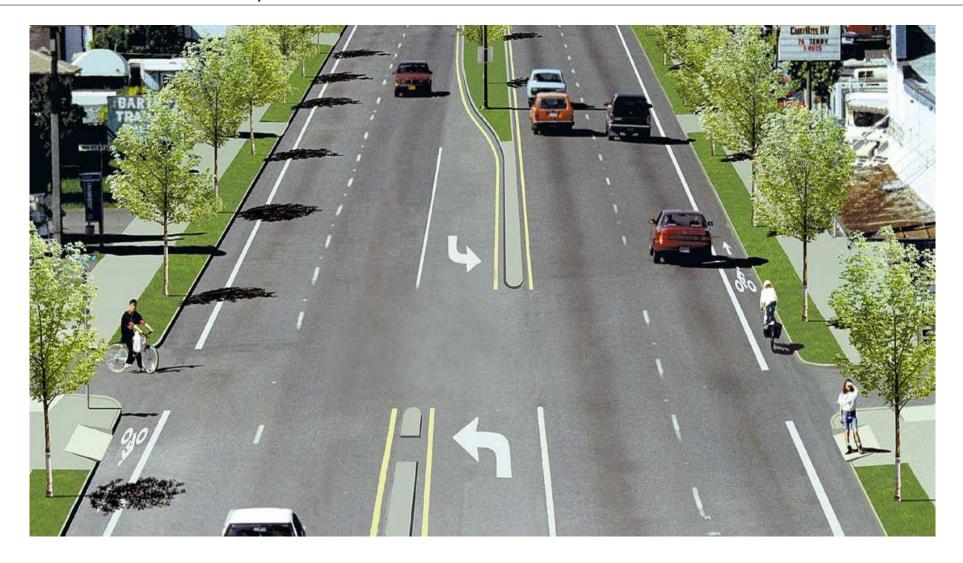
Complete Streets are streets that are safe for all modes of transportation and people of all ages and abilities.







Elements of a Complete Street



Consistent with the Lancaster County Transect



Context Determines The Appropriate Complete Street Elements: Harrisburg Pike

Harrisburg Pike, Urban



Near the intersection with Prince Street,
Harrisburg Pike is two lanes with a center turning lane. There are sidewalks but no shoulders or on-street parking. Traffic is heavy on this section of roadway, with an average of 28,000 vehicles/day.

Harrisburg Pike, Suburban



This section of Harrisburg Pike is also in a suburban setting, but further west of downtown. The road has two lanes, trees line the sides of the road and there is a wide shoulder to improve safety for bicycles. Traffic volumes average 10,000 vehicles/day, about one-third the volume along urban road sections.

Harrisburg Pike, Suburban



At the intersection with Good Drive, Harrisburg Pike consists of four wide lanes. Traffic volumes are lower than in the City. The wide lanes signal to drivers that they can travel at higher speeds.

Harrisburg Pike, Suburban Neighborhood



This section of Harrisburg Pike is in Landisville, once a rural village and now a suburban neighborhood. The two-lane road has on street parking and fits into a neighborhood context. It has lower traffic volumes.

Complete Streets Program Actions

Lancaster County

Resolutions						
LCTCC CS Policy Statement	June 2014					
LCPC CS Policy Statement	July 2014					
City of Lancaster	May 2014					
Elizabethtown Borough	August 2014					
Lancaster Township	September 2014					

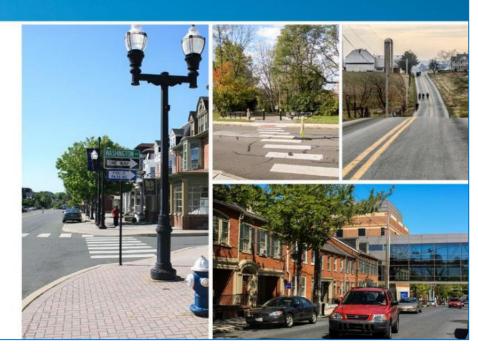
Workshops						
Introduction to Complete Streets	June 5 and 6, 2014					
Implementing Complete Streets	September 16 and 17, 2014					
Successes of the SGT and Complete Streets Programs	April 9, 2015					

April 2015

Lancaster County Complete Streets Guidebook

Lancaster County Planning Commission Lancaster County, Pennsylvania

In partnership with
Lancaster General Health
Lancaster County Coalition for Smart Growth



T6: Urban Center

Road Type	Lane Width¹	Paved Shoulder Width²	Parking Lane ³	Bike Lane	Curb Return⁵	Travel Lanes	Desired Operating Speed	Clear Sidewalk Width	Buffer/ Green Zone ⁴	Shy Distance	Total Sidewalk	Median Width
Regional Arterial	10'-12' 14'outside lane if no shoulder or bike lane	4'-6' If no parking or bike lane	8' parallel	5'-6'	15'-40'	2-8	30-35 mph	6′-12′	4'-6'	2′	12'-20'	6'-8' pedestrian only 16'-18' LT lane + pedestrian
Community Arterial PennDOT recommended	10'-12' 14'outside lane If no shoulder, bike	4'-6' If no parking or bike lane	7'-8' parallel	5'-6'	15'-40'	2-4	25-30 mph	8'-14'	4'-6'	2′	14'-22'	6'-8' pedestrian only 12'-18' LT lane + pedestrian
Community Collector PennDOT recommended	10'-11' with bike lane; 14' outside lane if no bike lane or shoulder	4' if no parking or bike lane	7'-8' parallel See Notes for angled	5'-6'	10'-30'	2-4	25-30 mph	6′-10′	4'-6'	2′	12'-18'	6' pedestrian only 12'-16' LT lane + pedestrian
Neighborhood Collector PennDOT recommended	9'-11' with bike lane; w/o bike lane or shoulder; 14' for bike route	N/A	7'-8' parallel See Notes for angled	5'	10'-25'	2	25-30 mph	6'-8'	4'-6'	2′	12'-16'	6'-8' pedestrian only 8'-10' landscaping
Main Street PennDOT recommended	10'-12'; 14' curb lane possible for bike route	N/A	7'-8' parallel See Notes for angled	5′-6′		2	20-25 mph	6'-14' (gen. not over 10')	4'-6'	2′	12'-22'	
Local Road PennDOT recommended	9'-11' with bike lane 12'-14' w/o lane or shoulder for bike route	See Notes on lane & parking width	7'-8'	N/A	5′-25′	2	20-25 mph	6'-8'	3'-5'	2'	11'-15'	N/A

Do Complete Streets Cost More than Non-Complete Streets?

The city of Charlotte, NC found that adding bike lanes and sidewalks increased the total cost of a project only slightly. Fluctuations in construction costs are much more important factors in a project's cost than adding complete street elements. Typical complete streets costs can be minimized by savings on pavement costs when lane width is reduced.

Costs of a 3-4 Lane Divided Street

Complete Street Elements	Construction Cost Per Mile	Sidewalk (%)	Bike Lanes (%)	Street Options	Total Cost Difference (%)
12' Lanes (baseline project) (40' F-F)	\$4,800,000	-	-	-	-
12' Lanes + Bike Lanes (50' F-F)	\$5,100,000	-	+5.4%	-	+5.5%
12' Lanes + Bike Lanes + 5' Sidewalk (50' F-F)	\$5,350,000	+3.4%	+5.1%	-	+8.5%
Reduced pavement width: 11' Lanes (36' F-F)	\$4,700,000	-	-	-2.1%	-2.0%
Reduced pavement width: 11' Lanes + Bike Lanes (46' F-F)	\$5,000,000	-	+5.5%	-2.1%	+3.5%
Reduced pavement width: 11' Lanes + Bike Lanes + 6' Sidewalk (46' F-F)	\$5,250,000	+3.4%	+5.2%	-2.1%	+6.5%

Model Complete Streets Language

Definition of Complete Streets infrastructure

- Definition of elements such as sidewalks, bicycle lanes, landscaping and other infrastructure.
- Include features in the municipality's Pedestrian/Bicycle Master Plan.

Build Complete Streets into a Municipality's Everyday Requirement

- Make Complete Streets part of the everyday operations of the Planning, Public Works and other depts.
- Require every public [and private] road project to include Complete Streets elements, where feasible.
- Consider road and bridge maintenance projects for opportunities to include Complete Street elements.
- Review and update SALDO, zoning ordinance, other ordinances to include Complete Streets language.
- Update street design guidelines to be consistent with Complete Streets recommended design.

Data Collection and Standard

- Collect data to determine the extent to which streets are meeting the needs of all users.
- Evaluate planning and design studies, health and other studies to determine and correct adverse impacts on all users.
- Establish performance standards to measure progress.
- Review and update procedures, as needed, for public participation in the design of road and street projects.

Resources for Municipalities on the LCPC Website

www.lancastercountyplanning.org

- Model Municipal Complete Streets Ordinance
- Complete Streets PowerPoint to educate policymakers
- Complete Streets Guidebook
- Factsheets and other information on the LCPC website
- Model Complete Streets language to include in municipal ordinances, zoning codes and Comprehensive Plans

Resource List

- LCPC: <u>lancastercountyplanning.org/177/Complete-Streets-for-Lancaster-County</u>
- Lighten Up Lancaster: <u>lightenuplancaster.org/In-The-Community/Active-Transportation.aspx</u>
- CSG: coalitionforsmartgrowth.org/
- Smart Growth America, National Complete Streets Coalition: <u>smartgrowthamerica.org/program/national-complete-streets-coalition</u>
- National Assn. of City Transportation Officials: nacto.org
- American Planning Association: planning.org













Smart Growth Transportation Program

Four Core Criteria

- Consistency with the Lancaster County Comprehensive Plan
- In a Designated Growth Area
- Demonstrates an ability to pay the local share
- Viable implementation strategy

Five Weighted Criteria

- Supports economic development and quality of life
- Increases mobility options
- Preserves the environmental, historic and cultural integrity of the county
- Implements a current transportation plan
- Encourages public-private partnerships to fund projects

Smart Growth Transportation Program

FY 2013-2014 Projects

TOTAL		\$1,163,743	\$3,140,615
Northwest Lancaster County River Trail Signage	East Donegal Township	\$59,000	\$65,000
Mulberry Street Conversion to two-way	City of Lancaster	\$675,000	\$2,000,000
Pedestrian & Bicycle Pathway Extension	Elizabethtown	\$444,743	\$1,075,615
	Municipality	LCTCC Funds	Total Project Costs (incl. LCTCC \$)

Mulberry Street Conversion to Two-Way Traffic

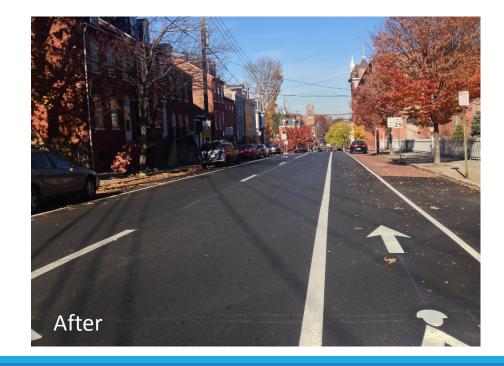
Sponsor: City of Lancaster

Project Cost: LCTCC: \$ 675,000

City: \$ 1,325,000

Total Cost \$ 2,000,000





Elizabethtown Bicycle and Pedestrian Path, Phase 3

Sponsor: Elizabethtown Borough

Project Cost: LCTCC: \$ 444,743

Borough: \$ 630,872

Total Cost \$ 1,075,615





Northwest Lancaster County River Trail Signage Project

Lead Sponsor: East Donegal Township

Project Cost: LCTCC: \$ 59,000

Municipalities: \$ 6,000

Total Cost \$ 65,000





Smart Growth Transportation Projects

FY 2015-2016 Projects

	Municipality	LCTCC Funds	Total Project Costs (incl. LCTCC \$)
Comprehensive Bike Plan	Lancaster City	\$48,000	\$60,000
Non-Motorized Transportation Study	LIMC	\$48,000	\$60,000
Doe Run Rd. Pedestrian Enhancements	Penn Township	\$858,378	\$1,192,618
Bridgeport Area Transportation Study	East Lampeter Twp.	\$187,200	\$237,500
PA 741 Multimodal Safety Improvements	Strasburg Township	\$397,200	\$500,000
North & South Duke Street Connector	Millersville Borough	\$497,200	\$2,608,856
TOTAL		\$2,035,978	\$4,658,974

FY 2017-2018 Projects

TOTAL OF ALL FUNDING CYCLES		\$6,829,073	\$12,557,941
TOTAL		\$3,629,352	\$4,758,352
Downtown Connections Study	Manheim Borough	\$100,000	\$125,000
PA 772 Pedestrian Safety Project	Mount Joy Borough	\$1,337,200	\$1,558,700
Charlotte Street Conversion to 2-Way Traffic	City of Lancaster	\$977,500	\$1,500,000
Willow Street Traditional Village Project	West Lampeter Twp.	\$1,214,652	\$1,574,652
	Municipality	LCTCC Funds	Total Project Costs (incl. LCTCC \$)